DREAM

Mihai Space

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1. VAS big page



Expand the sections below to learn about new features, enhancements, and bug fixes in the latest DairyComp 305 release! wtf????

cum de pizdetz mergi ma???

Release Date: April 1, 2026

- Version 26.3

{dc305} {{masterVAS-Products.DC305-long}} yooo wtf is going on???

DairyComp version 26.3 contains various bug fixes, customer-requested enhancements, and improvements.

Integrations

Zoetis:

Added support for additional Zoetis genomic traits. These traits are received through the VAS Developer API and can be mapped in DairyComp using the PLATFORM command for reporting. See **steps for storing PULSE genomic items in DairyComp** for instructions.

Item Names:

- **GZRFI:** Zoetis Residual Feed Intake
- **GZMI:** Zoetis Milk Methane Intensity
- **GZFR:** Zoetis Fertility Heat Resilience
- **GZMR:** Zoetis Milk Heat Resilience
- **GDWPH:** Zoetis Dairy Wellness Profit with Heat Resilience
- **GZRFI:** Zoetis Residual Feed Intake
- **GZMI:** Zoetis Milk Methane Intensity
- **GZFR:** Zoetis Fertility Heat Resilience
- **GZMR:** Zoetis Milk Heat Resilience
- **GDWPH:** Zoetis Dairy Wellness Profit with Heat Resilience

Expand the topics below to learn more about the updates in this release:

CowCare

- We have fixed an issue that prevented the CowCare Purchase Report from populating correctly. The report now works as expected.

Base Program

- VETLIST right column IDs are now clickable when the `\P` switch is used.
- The command `EVENTS\3 by %190.PSIRC.7` now displays semen type in the report.
- You can now add your company logo to INVOICE reports. See **Automate Billing Reports using INVOICE** to learn more.
- Indicators were added to the **Connection Status** tab to quickly show if your connections are healthy without having to go to the Connection Status dashboard. Integration cards that are hidden do not affect the status:



- In-app help links were added for these functions:
  - **EGRAPH**
  - **GRAPH**
  - **ALTER5 : VetList Options**
- In the **User Manager**, COWVAL was added as a user-definable command.
- The `Events\12A` command was added to the Erase Events function in the **User Manager**. Now, if Erase Events is checked for any user level, `Events\12A` is disabled.
- German translations for DairyComp were updated.
- Beef calves are now excluded from `ECON\I` and `ECON\IR` reports.
- December 2025 NAAB proof updates were applied for the US, UK, Germany, and Canada.
- Resolved an issue that caused information to be truncated when hovering over the `PARLOR\W` report.
- Resolved an issue that occurred when entering beef heifers using the FRESH event.
- Resolved an issue with the default report view so the report view remains visible.
- Resolved an issue where sire cleanup changed the semen type incorrectly for German users.

New FAQ: Visualize Test Day Performance Trends with PLOT

We added a new help topic, **Visualize Test Day Performance Trends with PLOT**, that shows you how to graph milk and component trends in DairyComp. This topic explains how to plot individual or group test day data, compare groups, and adjust settings for detailed performance insights.

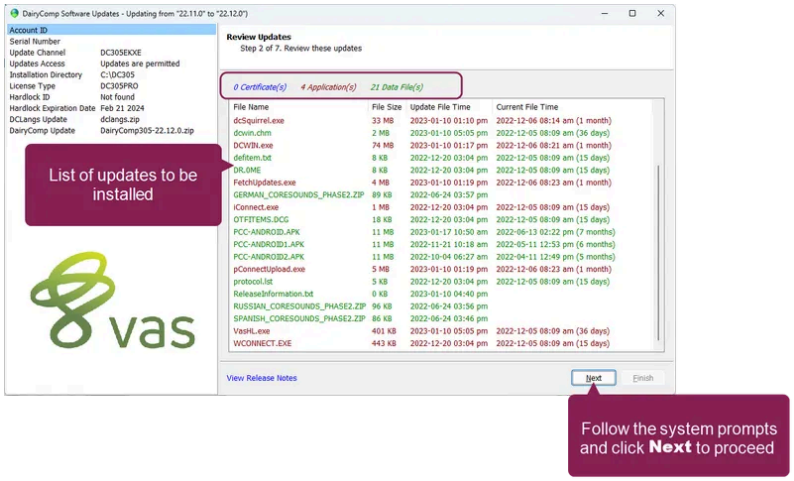
New FAQ: Automate Billing Reports using INVOICE

We added a new help topic, **Automate Billing Reports using INVOICE**, that shows you how to generate customized invoices in DairyComp. It covers creating and managing invoice definition files, running the INVOICE command, and using options for filtering.

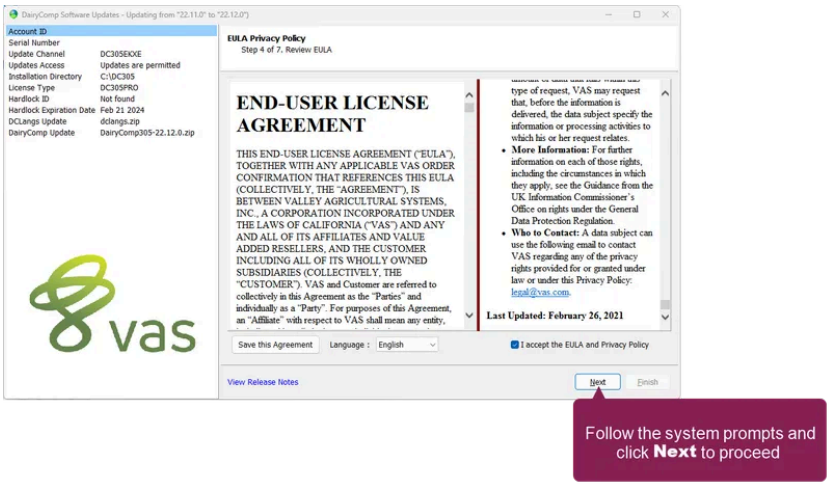
Need help updating DC305? Click here to see how it's done!

I've installed updates on DC305 before. Remind me how!

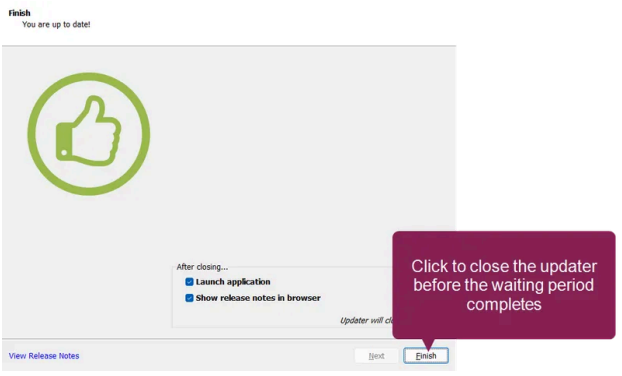
1. Open DC305.
2. Select Help > Check for Updates from the menu bar.
   This launches the Web Updater. After checking for updates, it shows the available updates by category and lists all of the updates between your current version and the latest version.



3. Follow the system prompts to navigate through the remaining steps of the update process. This may involve accepting VAS legal agreements, which is typically only required once per year or when the terms of a policy are updated.



4. When the updater finishes, it notifies you that your system is up-to-date. After 15 seconds, the updater automatically closes and launches DC305. Or, you can click **Finish** to immediately launch DC305.



I've never updated DC305. Show me how!

If you're not familiar with the DC305 Web Updater, you can watch the following video tutorial for instructions on how to check your current DC305 version and then check for updates in the latest version. Note that the UI may differ between the video and your current DC305 version.



Earlier Releases

DairyComp - Version 25.12

Release Date: January 6, 2026

DairyComp version 25.12 contains various bug fixes, customer-requested enhancements, and improvements.

Expand the topics below to learn more about the updates in this release:

DairyComp 305 - Version 25.11

Release Date: December 2, 2025

DC305 version 25.11 contains various bug fixes, customer-requested enhancements, and integration improvements for our integration partners, as well as many other improvements.

Expand the topics below to learn more about the updates in this release:

Base Program

- DC305 can now capture event entry dates and times. Use the following new items to track event entry (version 10 cowfiles only):
  - Item type 175: A calculated item that extracts the date the event was entered into DC305. This differs from the actual event date, because events are often recorded on a date that is not the same as when they occurred for the animal.
  - Item type 176: A calculated item that extracts the time the event was entered into DC305. This is the time the event was entered into DC305, not the time the event occurred for the animal.
  - Event entry date and time can be see in the event editor for each event on the CowCard. This field is read only. Events that existed prior to this release show the event date and `00:00` for the time.
    
- DC305 now supports additional item details:
  - Item type 124 now has a new column that can be used to show total lactation production components (i.e., the sum of fat and protein). Choose **Fat+Ptn** for the column to see total lactation production components:
    
  - Item type 125 now has additional Operand 2 options that can be used to show total lactation as a days in milk (DIM) value for fat, protein, and the sum of fat and protein.
    For example, `PRT30` with `Operand 1:30` is the total lactation protein as of DIM 30:
    
  - Item type 126 now has additional Operand 2 options that can be used to show total lactation at the time of a specific date item for fat, protein, and the sum of fat and protein.
    For example, `POCOM` with `Item Name: PODAT` and `Operand 2: Fat+Ptn` returns the sum of fat and protein at the time of the PODAT (preg/open date):
    
- Resolved an issue that caused the DC Client task table to be overwritten by the DC Server.
- Updated the 646 stud code to show as sexed semen.

- Russian language vet codes are now supported in the **ALTER\5** function.
- **Integrated help** has been added to the **SERVER** button when there are **HELD commands**.
- The `SAVE\2` option in **SETUP** now allows you to set the number of backups to keep.
- When the `\GG` switch is used, item type 54 in the **EVENTS** function now displays the item data for the corresponding event.
- The PLOT function now sets the minimum y-axis value for Somatic Cell Count (SCC) charts to 50 (was 0). This improves the visual contrast and readability of stacked multi-bar charts involving SCC.

- Item type 130 in the **EVENTS** function now displays correctly.
- When the `\GG` switch is used, item type 54 in the **EVENTS** function now displays the item data for the corresponding event.
- A default printer is no longer required. The following message now displays:
  Printing is disabled because no default printer has been found. To stop seeing this message, add a default printer or disable printing:
  ADD A PRINTER: In Windows Settings, add or select a default printer. Restart DairyComp and clear the message. Enter SETUP in the command line. In the Printer tab, check the box next to Print Enabled. Click OK to save your changes.
  DISABLE PRINTING: Enter SETUP in the command line. In the Printer tab, check the box next to Disable All Printing. Click OK to save your changes.
- Resolved an issue with the event translation file when it was automatically created.
- Resolved an issue with a corrupted DCGUIDE file.
- Resolved an issue causing license errors for Russian customers.

Integrations

- Jantec: Updated handling of Jantec milkings when a milk shift crosses midnight. **Contact support** for assistance if your setup has a milk shift that crosses midnight.

Pocket CowCard

PCC Android - Version v2509081615-(2.0.33.7-rc): When you send or receive data from DC305, PCC automatically sends the device name, PCC version, and Android OS version so you can better log updates and troubleshoot any device issues. Example log issues:

- `S 01:19 PCC 9ca667a077cd2971 - Gary's S21+ - v2507011612-(2.0.30.237-rc) A15 - V10 refresh started`
- `S 01:19 PCC 9ca667a077cd2971 - Gary's S21+ - v2507011612-(2.0.30.237-rc) A15 - V10 refresh completed`

New Help Topic: ALTER\3: Command Abbreviations

We added a new help topic, **ALTER\3: Command Abbreviations**, that describes how to manage command abbreviations in DC305. The topic covers how to create, edit, delete, and test command abbreviations, as well as options such as printing or exporting your abbreviation list and saving or reading commands from a file.

New FAQ: Visualize Item Distribution with GRAPH

We added a new help topic, **Visualize Item Distribution with GRAPH**, that shows you how to analyze numeric animal items in DC305 using graphical tools. The topic explains how to create bar graphs for frequency distributions and scatter plots for correlations between items. This helps you quickly visualize herd data and identify trends or relationships.

New FAQ: Visualize Event Distribution with EGRAPH

We added a new help topic, **Visualize Event Distribution with EGRAPH**, that provides guidance on graphing herd events in DC305. The topic covers creating bar graphs and scatter plots, customizing parameters, and drilling down into event details to help monitor trends and validate protocols.

New FAQ: Visualize Historical Measurements with EPLOT

We added a new help topic, **Visualize Historical Measurements with EPLOT**, which explains how to graph trends for body condition score, weight, and height in DC305. The topic covers plotting individual or group measurements over time and customizing settings for accurate analysis.

DairyComp 305 - Version 25.10

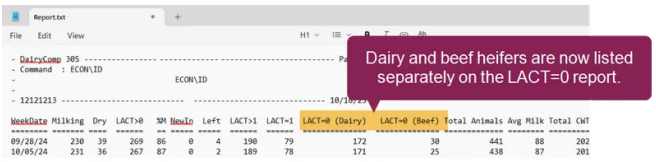
Release Date: October 29, 2025

DC305 version 25.10 contains various bug fixes, customer-requested enhancements, and integration improvements for our integration partners, as well as many other improvements.

Expand the topics below to learn more about the updates in this release:

Base Program

- Added support for the Canadian sire file updates in the upcoming December 2025 proofs.
- iTrans now ignores the Event Gap setting when sending events.
- DC305 now includes in-app links to the DC305 Online Help pages for **HELD Commands** and **Events**.
- The Guide report for "What is the testday estimated bulk tank SCC?" now works as expected.
- The DC Client update banner now directs users to the DC Server when a new version update is available to download.
- Support has been added for multiple DNB vet codes.
- The Y-axis label for `EGRAPH \S` has been updated.
- Added a second prompt for "Live Female Percentage for Sexed Dairy Semen" to `ECON\IR`, as well as updated `ECON\I` report text.
- A GETCOW issue no longer changes the date format on items.
- Improved PowerPoint readability by updating the slide title font, so numbers in the title are no longer subscript.
- The `ECON\ID` report LACT=0 inventory now displays dairy heifers and beef separately to follow CBRD standards. In the report, they are listed as LACT=0 (Dairy) and LACT=0 (Beef):



- iReports no longer include unnecessary blank slides.
- The ABS Global stud code 929 is now accurately labeled as semen type Q.
- The **Assist** feature now works correctly when Russian is the chosen language.

Integrations

- Genomics:
  - Added support for genomics partners that add breed indexes to the genomics file. DairyComp will continue to calculate the breed index if breed index values are not included in the imported genomics file.
  - Added Holstein Milking Speed to the genomics import file via DNG and PULSE. You can use the command `IMPORTF\G` to map or create an item to populate Holstein Milking Speed PTA:
- 
- Germany: Fixed an issue where `SEND\D` was missing the calving event if lactations started as a result of an abort.
- Lely:
  - Improved DCSquirrel, so it now ignores an ANID assignment if the animal ID is null.
  - DC305 now checks whether an ANID is an eligible Item Type #32.
- Amelicor: Increased the ID length to 6 digits for the Amelicor DRPC.
- Parlors: 9-digit animal IDs are now supported in the milking report's Wrong Pens section.
- Lactanet DairyTrace: When you are reporting a MOVEIN record, TRACE reporting in DairyComp will now warn you if you have a blank EDAT. The record won't be sent until a date is entered.

DairyComp 305 - Version 25.9

Release Date: October 7, 2025

DC305 version 25.9 contains various bug fixes, customer-requested enhancements, and integration improvements for our integration partners, as well as many other improvements.

Expand the topics below to learn more about the updates in this release:

New Feature: Assist

DC305 now includes Assist, a smarter way to use the command line. As you type, Assist suggests matching items, events, reports and GUIDE questions, making it easier to build commands quickly and accurately. See **Assist** to learn more!

New Feature: Connection Status

Check your integrations at a glance with the new Connection Status feature! Instantly see which systems are connected, when they last synced, and whether any need attention—all from one place in DC305. See **Connection Status** to learn more.

New Feature: Find Help in DC305

Help is now built right into DC305! Click the new Help icons throughout the program to open the exact help page for the screen you're on. Get answers instantly without leaving your workflow. See **Find Help in DC305** to learn more.

We added a new help topic, **Find Help in DC305**, which shows how you can get answers faster with the new Help icons built into DC305. Instead of searching through the full help system, you can now open the exact help page for the screen you're on, navigate recently viewed topics, and still access the full Help library when you need it.

New Feature: Pen Inventory

The **Pens** topic now covers Pen Inventory, a new feature that tracks daily pen counts and trends automatically. Use it to monitor pen occupancy over time, adjust capacity, and easily export historical data for analysis. See **View Pen Inventory** to learn more.

Base Program

- A new **Pen Inventory** feature has been added, allowing you to track occupancy trends using a historical record of pen counts. The Pen Inventory feature is accessed via the `Alter\4` command. Please note the following:
  - Pen counts began logging in Version 25.7.1156.
    - The pen count is logged once per day, just after 12 am. Pen counts are logged as long as DC305 is running.
    - PEN=0 pen counts started logging in this release (25.9).
  - Pen count data is stored for two years.
  - The Pen Inventory feature's *Select Pens* function maintains your last selection when you export the .csv file.
- 
- Removed Beef designation for existing Red Dane (RD) sires during Sire Cleanup.
- Fixed Beef tag series issues.
- The **Events\2 report (List cows and events)** has been enhanced to include ETDAM and ET Dam Registration for breeding events that include the information in the event details.
- Items for Last Parlor Visit Data and Last Parlor Visit Shift are now auto-mapped to the standard items.
- Fixed an issue when running a command and the "Total Number Entered" message in DC305 was not displayed.
- Updated 595H to report as conventional semen.
- Fixed an issue where ETBRED events were subtracting semen usage from semen inventory.
- Fixed an issue where EGRAPH was not respecting the `BY PN` (Previous Pen) statement. (Numerous factors can change the PN value, so note that the PN value is the value *as of today*.)
- In Version 10 of the cowfile, we fixed an issue where the protocol number changed unexpectedly when editing an animal's mastitis event remark on the DC Client, specifically when there were more than 255 treatment protocols. This occurred when the event was processed on the DC Server.
- Russian translations in DC305 have been updated.
- For Canada, DC305 has been updated with the 2025 NAAB proof files.
- Additional standard items for genomic trait sync with PULSE integrations have been added:
  - GBDC: Body Size Composite
  - GCHON: Chondrodysplasia
  - GFTI: Holstein Fertility Index
  - GJH2: Status for Jersey Haplotype 2
  - GSDYS: Spinal Dysmyelination

Integrations

- Lely: Support has been added for XID between DC305 and Lely.
- Lely: DC305 no longer sends barn names when the animal name field is de-selected in integration settings.
- Lactanet: Added support for 6-digit ID and CHAIN numbers in the loading in DairyComp for Canada.
- Jantec: Fixed issues with loading milk shifts with Jantec.
- HeiferPro: When importing pregnancy results via milk and blood tests when animals already have a current PREG status in DC305, if additional reconfirms of pregnancy are in subsequent imports, the import will create a PREG event (not an OK event).

CowCare

- The database now refreshes after changing group premises.

Pocket CowCard

- Fixed an issue where DC305 was sending ??????? for Dairy name/Herdcode.

New FAQ: Resolve HELD Commands

We added a new help topic, **Resolve HELD Commands**, which explains what HELD commands are and how to manage them in DC305. The topic shows how to identify pending HELD commands and use the HELD Command Processor to edit, repost, remap events, relax birthdates, delete, or delay them. This helps users resolve transaction errors and keep herd records accurate.

New Help Topics: Events

We added three new help topics that explain how events are used in DC305:

- **Events** introduces the concept of events, explains how they differ from items, and shows how to view, enter, and manage them on the CowCard.
- **Event Definitions** serves as a reference guide to all standard and optional events, with descriptions of their use in DC305.
- **Events Command** explains how to analyze historical event data across your herd using both the Events Options menu and command line, including examples of advanced reports and switches.

DairyComp 305 - Version 25.8

Release Date: August 26, 2025

DC305 version 25.8 contains various bug fixes, customer-requested enhancements, and integration improvements for our integration partners, as well as many other improvements.

Expand the topics below to learn more about the updates in this release:

Base Program

- Loading tags into EID Manager is now faster.
- The ABS Global 929 stud code has been updated to the Sexed Male Beef semen type.
- DCClient will now reopen after updates are installed.
- DC305 has been updated with the August 2025 NAAB proof files for the US, UK, and Germany.

Integrations

- ScotEID: Sending births to ScotEID now includes sire registration, which means more complete and detailed records.
- Neogen: We have updated the Neogen DNN file import to correctly identify and import data using column names.
- SCR: We've fixed an issue that caused the duplicate item check report to print automatically when sending data to a partner.
- AFI: You can now identify and send the custom item for a secondary transponder, ensuring your data is more complete.
- Grimmius:
  - Grimmius can now post SOLD, DIED, Received, and Returned events to DC305. These new settings are located in a new Traceability section within the `IMPORTF\R` command.
    
  - To use the new SOLD event feature, you will need to select a Disposal Code that will be used for all incoming SOLD events from Grimmius.
  - When using the DIED event integration, please note that Grimmius will not provide a reason for the death.

CowCare

- Improvements have been made to the CowCare drug inventory, ensuring it works as expected for more reliable tracking.
- You now have the ability to remove a Premise in CowCare if it is no longer being used, helping you keep your records clean and organized.

Updated Help Topic: Edit CowCare Settings

In the **Edit CowCare Settings** topic, we updated the instructions for the **Inventory Settings** section. The revised text now explains how to use the new **Add** and **Remove** buttons to create, update, or delete group premises, replacing the older **Combine** button workflow. This makes it clearer how to group or ungroup premises when tracking inventory across multiple locations.

New Help Topic: ALTER\2: Item Definitions

We added a new help topic, **ALTER\2: Item Definitions**, which explains how to view, create, change, delete, and rename items in DC305. The topic also covers advanced options such as mapping the item table, displaying item usage, and printing or exporting item definitions.

DairyComp 305 - Version 25.7

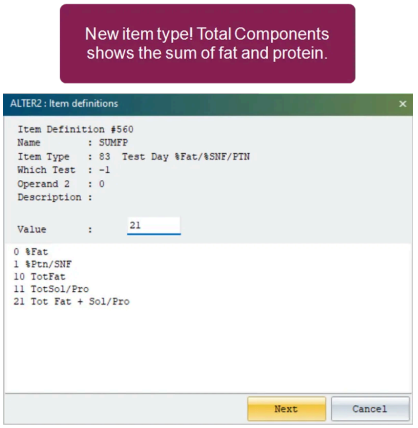
Release Date: July 29, 2025

DC305 version 25.7 contains various bug fixes, customer-requested enhancements, and integration improvements for our integration partners, as well as many other improvements.

Expand the topics below to learn more about the updates in this release:

Base Program

- Calf IDs now follow the correct ID pattern for Germany herds.
- Sire lookup can now properly handle Select Sires stud 585 sires.
- The Red Dane (RD) breed is no longer designated as a beef breed.
- The German HerdE conversion has been updated so all LACT=0 animals do not get a DNB event.
- Logon for DCTeach now opens with “Use Last Logon Date” by default.
- In SERVER\3, the reported IP address is now correct.
- DCCLIENT now updates when the only change on the server was an edit to existing commands.
- Item Type #83 has a new Op2 that can be used to show Total Components, the sum of fat and protein. Enter **21** for **Op2** to see Total Components.



Integrations

- Fusion: Added support for sending data to Fullwood Fusion-Crystal parlors.
- Genomics: When you remove a mapped selection, it now saves correctly in IMPORTF.

FTECH

All report options for Lactanet FTECH users are now available and fixed.

Updated Help Topic: View Lely Milk Production

In the **View Lely Milk Day Production** help topic, we updated the instructions to **Create Additional Lely Milk Data Items**. When you configure the new items, enter the values listed for **Value (Milking Day)** in the table to ensure that the milk data items work correctly.

DairyComp 305 - Version 25.6

Release Date: June 30, 2025

DC305 version 25.6 contains various bug fixes, customer-requested enhancements, and integration improvements for our integration partners, as well as many other improvements.

Expand the topics below to learn more about the updates in this release:

Base Program

- Implemented ET Bred improvements for embryo transfers entered in DC305 (excluding entries in the Embryo Transfer Module in PULSE). To learn more, contact **VAS Support**.
- Added `ECON\IH` (Heifer Inventory) to the command switch gallery.
- Fixed the item format in GRAPH when using Item Type #42.

Integrations

- Lely:
  - You can now **View Lely Milk Day Production** in DC305. See the help page to learn more.
  - DC305 no longer displays the DCSquirrel error that indicated that MSXML was not installed.
- Boumatic Milking Parlor: An exception error no longer locks up DC305 during MSEND.
- DairyMaster (MooMonitor): ABORT and OPEN events are now included in the data send for DairyMaster (MooMonitor).
- Germany: Reduced certain scenarios that produced incorrect alerts with `SEND\V` and `SEND\D` on German herds.
- DataFlow II (SCR): Adjusted alert messages that appear in DC305 during the data exchange with DataFlow II (SCR).

FTECH

Added FTECHx.def files to DCStartup and Web Updates.

New Help Topic: View Lely Milk Production

To allow producers to monitor this specific Lely-calculated performance metric, DC305 now imports and stores Lely milk day production values. Once your DC305 is updated to the relevant build *and configured for the Lely milk interface*, this feature will automatically appear on the **Lacations** tab of CowCards. See **View Lely Milk Day Production** to learn more.

New Help Topic: Analyze Dam Relative Value

The Dam's Relative Value (DRELV) item in DC305 allows you to evaluate your youngstock more precisely by incorporating the performance of their dams. While genomic testing offers genetic insights and parent averages consider pedigree, DRELV provides a direct measure of the dam's actual performance within your specific herd environment. See **Analyze Dam Relative Value** to learn more.

New Help Topic: Address Bad PLA Error

Have you ever received a bad PLA file error message? This error message is related to PULSE and prevents PULSE from properly updating with your DC305 data. See **Address Bad PLA Error** to learn more.

DairyComp 305 - Version 25.5

Release Date: May 28, 2025

DC305 version 25.5 contains various bug fixes, customer-requested enhancements, and integration improvements for our integration partners, as well as many other improvements.

Expand the topics below to learn more about the updates in this release:

Base Program

- Fixed a problem where the `ECON\SDCT` (Selective Dry Cow Therapy) command incorrectly set `SDCTC` for cowfiles that had French-translated event names.
- Resolved an issue where the `SETMILK` command wouldn't save the selection if a system item was used for Transponder Type.
- DC305 uses the German ECM formula in German cowfiles.
- Fixed a problem on DCClients where entering a FRESH event with a `PREV` event would cause `HELD` commands at the server.
- Resolved an issue where Item Type #10 was not populating correctly in `SUM` commands.
- Updated the send command for DairyTrace and SimpliTrace.
- Report names are now properly displayed if the command contains an `ENTER` command and then a `LIST` command.
- Fixed a problem where the REM picklist for the `FRESH` event was not populating for subsequent entries.
- Made an improvement so if an Item Type #190 uses the Sexed option, it now returns a default value of "-" if the item it references is blank.
- Resolved an issue with pen display that occurred when running parlor pen graph reports.
- Fixed a problem where the `SERVER\B` exception error caused DC305 to lock up.
- Updated DCSIRES with new sire proof data for Canada and Italy.

Integrations

- Lely: Fixed access table damage that occurred when entering FRESH events under certain conditions in DC305.
- Boumatic Milking Parlor: Fixed a problem where animal milk yields with an ID number of 9 characters were not loading into DC305.
- Genomics: Updated the GINB (gInbreeding) item to support negative numbers.
- DRPCs: Added two more health events to the SSF file: diarrhea events (DIAR) and digestion events (DIGE).
- HeiferPro: Fixed a problem where the `MEASURE` event would not save if it was mapped in `IMPORTF\HP`.
- Grimmius Import: Resolved an issue where the Grimmius import was creating duplicate events on the CowCard.

CowCare

- DCClient now properly calculates and displays protocols based on CowCare protocols.
- Added the ability to change the cow ID in unapproved (open) CowCare transactions. See **Updated Help Topic: Reassign or Delete Open Treatments in CowCare!** to learn more.

Updated Help Topic: Reassign or Delete Open Treatments in CowCare!

Sometimes, a cow's ID may change, or a treatment might have been mistakenly entered for an incorrect cow ID. CowCare provides a dedicated tool to manage this situation, allowing you to reassign treatments to a different cow ID or disable open treatments entirely. See **Reassign or Delete Open Treatments for a Cow ID** to learn more!

DairyComp 305 - Version 25.4

Release Date: April 23, 2025

DC305 version 25.4 contains various bug fixes, customer-requested enhancements, and integration improvements for PULSE and our integration partners, PCC, and many other improvements.

Expand the topics below to learn more about the updates in this release:

Base Program

- The `SERVER\H` command and the Server button can now be used on DCLIENTs to access the held command dialog.
- Starting with this release, new command abbreviations must be two or more characters long. Previously, command abbreviations with only one character caused issues if commands contained other single character items, like breeds. Existing command abbreviations with one character can still be used. This change only affects new commands.
- We've been increasing the number of sires in the sire files, so we made an improvement to speed up the sire selection list when using the SIRES command.
- Corrected an issue where the `SETUP\S` command would change the `VC=3` value to 40 if the **Days at Preg Exam** field was left blank.
- Fixed a problem that occurred when the wrong "Next Calf ID" was prompted on DCCLIENTs. This problem only existed in the German versions of FRESH.
- Resolved an issue with the Ukrainian translation file that caused an error in the milk imports.
- Fixed a problem where the EVENTS option to remove duplicate events would also offer to delete the event from the table.
- Resolved an issue that occurred during `GETCOW/PUTCOW\I` transfers where, in some cases, a previous lactation could overwrite the current lactation.
- Fixed a problem with incorrect sire name prompting in Russian language files.
- Updated the sexed sire table to support United Sires codes 596 and 796.
- Updated the sire files for the US, UK, and Germany with April 2025 proof data.

Integrations

- Lely: DC305 has implemented two new updates to ensure that the integration between DC305 and Lely Horizon is more seamless than ever:
  - DC305 can now detect and resolve animal identification issues used to map animals between DC305 and Lely Horizon.
  - If DC305 attempts to add or update an animal record in Lely Horizon and the update is not received, DC305 now tries to resolve the issue and resend the event data to complete the animal record in Lely.
- Beco: Fixed a problem where "No ID" cows would not show up on the parlor report.
- Germany: Resolved an issue with the GERMAN SEND command where it would not properly designate calvings that resulted from an embryo transplant.
- AFI Milk: When the AFI folder was offline, DC305 would lock up during the MSEND export. This situation is now resolved.
- Genomic Imports: We updated breed index calculations for Holstein Total Performance Index (TPI), Jersey Performance Index (JPI), and Jersey Udder Index (JUI).
- Milk Imports: We fixed a problem where the Last Parlor Visit date and times could be incorrectly defined.

CowCare

Fixed a CowCare-related error message at program startup.

FTECH

- Added a new report designation for Agsource FTECH.
- Implemented some rate changes for Minnesota FTECH.

PCC

We finally solved a longstanding problem where, in some cases, animals added on a PCC device connected to a DCCLIENT were not properly being added to the cowfile on the server.

DairyComp 305 - Version 25.3

Release Date: March 25, 2025

DC305 version 25.3 contains various bug fixes, customer-requested enhancements, and integration improvements for PULSE and our integration partners, as well as many other improvements.

Expand the topics below to learn more about the updates in this release:

Base Program

- Updated the sire files for UK and Germany.
- Added a safeguard to prevent an issue where animal records could be corrupted if you edited an event and DC305 processed incoming client transactions at the same time.
- Fixed a problem where redirected report outputs were not created properly if the option to disable all printing was enabled.
- We increased the number of sires in the USA sire file to support all sires born in the last 20 years, which is now 20,000 proven sires.
- Fixed an issue where the `SUM` command was not properly grouping if an Item Type #133 (Gender) item was used.

Integrations

- GEA DairyNet: Added ability to send 4-digit pen numbers to GEA DairyNet.
- NEDAP: The PULSE Nedap item for heat time (ACTIM) is now being properly created as an Item Type #23 (Date) item.
- All Parlors: We now create and store two new items:
  - Last Parlor Visit Date (LPVD): The date when the cow was last milked
  - Last Parlor Visit Shift (LPVS): The milking shift number for that date
    With these two items, along with the existing START (start time) item, you can now create reports to find cows missed for milking, the percentage of the milking herd that went through the parlor, etc.
- Germany: Fixed a problem where sometimes the test dates were not properly imported for a new herd created from German load files.

DairyComp 305 - Version 25.2

Release Date: February 26, 2025

DC305 version 25.2 contains various bug fixes, customer-requested enhancements, and integration improvements for PULSE and our integration partners.

Expand the topics below to learn more about the updates in this release:

Base Program

- Improved how quickly DCClient updates the expiration date after you update DC305.
- Corrected an issue where the `BREDSUM\S` command would incorrectly group sires if the main cowfile's ShortName setting did not match ARC file.
- DC305 now displays a warning message if you try to delete a FRESH event from an animal's CowCard when there are other events.
- Fixed the Average Daily Gains (ADG and ADGI) report display in Russian.
- Fixed an issue where DC305 incorrectly added Stud Codes 522 and 551 for foreign sires during sire cleanup.

Integrations

- Allflex: Fixed the Pregnant Open Date (PODAT) and PREG fields in the status file.
- Beco: Fixed an issue where DC305 showed an incorrect M1 milk value.
- Boumatic: Resolved an issue where an exception error would lock up DC305.

FTECH

The SSF import now manages duplicates better.

DairyComp 305 - Version 25.1

Release Date: January 29, 2025

DC305 version 25.1 contains various bug fixes, customer-requested enhancements, and integration improvements for PULSE and our integration partners.

Expand the topics below to learn more about the updates in this release:

Base Program

- Released the updated Canadian sire file.
- Released the updated Portuguese language file.
- Fixed an uncommon problem where the auto backup process would lock up DC305 if there were antivirus or external backup programs interfering with the backup file creation.
- Resolved an issue where the `BREDSUM\*` (By Sire Sexed Type) report incorrectly split the embryo results into separate lines.
- Added protective checks to prevent a client refresh from corrupting an animal record during a CowCard event edit.

Integrations

- Delpro: Delaval fixed a problem where milk weights were not loading properly.
- Grimmius: Resolved an issue where the Grimmius weight and measure import would sometimes create duplicate `MEASURE` events.
- Lactanet DairyTrace: Fixed an issue where export records in TRACE module were not properly implementing foreign and domestic tags.
- Lely:
  - Fixed a problem detecting future transfer dates that affected Horizon.
  - Resolved an issue with Lely animal ID assignments that occurred when an import was done on a client.
  - Fixed a problem where, in some cases, the animal group numbers on Lely were incorrectly changed by the `MSEND` export.
- SCR: Previously, the `MSEND` export to SCR was in the report browser when duplicate tags (HTTAG) were detected. This has been changed to create an alert instead of a report.
- Export (UK): Made a modification so that the UK `RECEIVE` command can now recognize some occasional format errors in the files provided to DC305.

FTECH

We now allow IDs of up to 8 digits for the FTECH Cow Transfers records.

Pocket CowCard

- Modified the logic for handling the default assignable items that can be used in PCC scanning, primarily avoiding the default use of item 4 (usually `REG`) for scanning lists sent to PCC.
- Added a new option to quickly process pregnancy check vet codes in PCC. When you define some vet codes in DC305, you can now check the PCC**: Auto Preg Event** box. After you enable the option, you can easily process an animal on some worklists by simply tapping and scanning an animal. This feature requires the latest version of PCC.

DairyComp 305 - Version 24.12

Release Date: January 8, 2025

DC305 version 24.12 contains various bug fixes, customer-requested enhancements, and integration improvements for PULSE and our integration partners. We have implemented numerous improvements related to integrations and traceability systems.

Expand the topics below to learn more about the updates in this release:

Base Program

- For customers who order match pair tags directly from VAS, DC305 can now automatically reorder new EID tags when it detects that you only have a few EID tags left. To enable this feature, enter `ALTER` in the command line and open the EID Manager, then click **Enable** at the bottom right side of the screen. After you set the number of EID tags and click **Join Program**, a VAS sales representative will contact you whenever your inventory falls below the set number. You can edit the settings any time in the EID Manager. See **DairyComp EID Tag Manager** on the VAS website to learn more!
- Fixed an issue where DC305 would incorrectly assign new events to technician teams that were just created.
- Corrected a problem where `ECON\H` would sometimes report the wrong gender for calves produced by embryo transfer in the Holstein ERA file export.
- You can no longer use `EVENTS\8M` to erase events in batch. This feature is reserved for the VAS Support team.
- Removed the ability to enter a blank date in `VENTER`. Entering a blank date would cause errors in subsequent entries.
- Corrected the default withdrawal lengths for the DryClox and Spectramast protocols.
- Added an option in **SETUP** > **Printer** to disable all printing. This can be used for server setups where most of the work is done on clients and the server machine is unattended.
- Released a new USA sire file with December 2024 proofs.
- Fixed an issue where the `EVENTS\2` event listing report did not display technicians higher than 255.
- Corrected a problem where archive files weren't always refreshing to clients.

Integrations

- Brazil: Updated the Portuguese language file to fix a display issue for test days.
- DairyMaster: Added support for the new version of DairyMaster: DairyVue360. To enable this, add the `\V2` switch for the new version.
- HeiferPro: We now skip incoming SOLD/DIED entries from HeiferPro if they were already entered manually in DC305.
- Lactanet: Fixed a locked file problem that occurred when a Lact-T export file was written onto a USB drive.
- Lactanet DairyTrace: Fixed the foreign indicator for import and export events in DairyTrace.
- Minnesota DHIA: Made some requested modifications for the FTECH lab report headers.
- NEDAP (Velos): Extended the allowable ID length for the NEDAP Velos integration from 5 to 8 digits.
- SEND (Germany): Made requested changes for the German SEND export command (ADS files on test day).
- UK ScotEID Traceability: The ScotMoves SEND command can now be scheduled in the task scheduler.

DairyComp 305 - Version 24.11

Release Date: November 19, 2024

DC305 version 24.11 contains various bug fixes, customer-requested enhancements, and integration improvements for PULSE and our integration partners. We have also implemented numerous internal improvements, which will become evident in future releases.

Expand the topics below to learn more about the updates in this release:

Base Program

- For herds that use sire short name entry, we now display the sexed code (if present) in the sire selection picklist in **BRED**. This makes it easier to identify and choose between the sexed and unsexed named sires. For example, we show the sexed "TROY" as "TROY.S" to denote its name and its sexed code.
- For animals with a reproduction code (RC) of zero, we used to display a blank space for the RC item. We now show "HEIFER" (translated to the local language) for these animals. The **SETUP** command can be used to change how RC is shown for your animals.
- Updated the **BREDSUM Options** dialog to support several of the newer switches available in DC305.
- Added a new Item Type #174 to show embryo transfer pregnancies. If the **Op1** is `0`, DC305 returns a "Y" or "N" to show whether the animal is currently pregnant from an embryo transfer implant. If **Op2** is a `1`, it shows the PULSE Embryo ID of that implant (if the embryo transfer was entered in PULSE).
- For the `BREDSUM\*` (BREDSUM by sexed code) option, we now display embryo implants as a separate category.
- Fixed an issue where the EGRAPH event `\P` was not properly displaying protocol numbers over 255.
- We now have a secondary sire ID available for some regions that do not support NAAB codes. When you define an Item Type #190 item, you can now select a NAAB code as a **Secondary Sire ID**. For example, in Germany, the DHV codes are the primary sire identification and you can use this new item to show the NAAB code for that sire. Note that you need a V10 cowfile to enable this feature.
- In some cases, if DC305 found a change to the sire ID during a genomics file import, it would change the sire ID to an ISO number, such as 84000012345567. We added safeguards to prevent unwanted changes like that. Additionally, we now check against the global sire reference file (V10 only) for improved sire ID checks and corrections when possible.

Integrations

- AFI Milk: The AFI milk import now supports pen numbers over 255. Note that not all parlors allow this. Use caution when creating pen numbers not supported by the partner software!
- Germany: Handled requested modifications in `SEND\V` testday export: the MLP.ADS file for all LKV-Codes.
- Germany: You can now run KuhVision export (`SEND\K`) from an automated scheduled task.
- Lely: For the past few months, we've been field testing the change to use the Lely Animal ID as the primary ID for the Lely integration. It has been successful, solves multiple problems, and, with this version, it is now the default.
- Zoetis Genomics: Updated the formula used for TPI calculations in the Zoetis DNG/DND genomics file import.
- Zoetis Genomics: We now allow defining an alternate item to be used as the lookup when importing Zoetis Genomic DND files. Note that this is not needed in most cases (and not in the US), but it was required for some foreign countries.

FTECH

- MN FTECH requested a billing change (% field tech vs. association).

DairyComp 305 - Version 24.10

Release Date: October 29, 2024

DC305 version 24.10 contains various bug fixes, customer-requested enhancements, and integration improvements for PULSE and our integration partners. We have also implemented numerous internal improvements, which will become evident in future releases.

Expand the topics below to learn more about the updates in this release:

Base Program

- To speed up client refresh speeds for large herds and those with poor connections, archive files are only refreshed to clients if they have been updated from a `CLEANUP`.
- Added support for the `PCT` command to display values for Item Type #145 (Tech name) items, e.g., `PCT LACT=1 BY MTECH`.
- The `ALTER` Protocols dialog was adjusted to properly limit maximum values for the protocol withdrawal date.
- Fixed an issue where event edits for BRED Tech completed on DCCLIENT were not always sent correctly to the server.
- Resolved an issue where editing Combo events was not working properly in some situations.
- The Client Timeout value was previously limited to 20 seconds on the DC-Shadow version. It was increased to support larger values for large herds and/or poor connections.
- Fixed an issue where the Average Daily Gain (ADG) at Age calculation could return incorrect values for weights in kilos.
- Fixed an error message shown in BRED when the SIR5 (use 5 extra sires) option was enabled.

Integrations

- Lely: Fixed a problem where animal IDs of zero could be sent to Lely.
- Neogen: Added a new Holstein haplotype, Polled Mutation Trait (GHP), for Neogen genomic import.
- Lactanet: Released updated sire file for Lactanet.
- Zoetis: Added the ability to use an alternate lookup ID when importing Zoetis Genomic files. This is only needed for non-US customers.
- Universal: Added the ability to define a different folder for the `MSEND` command for Universal TAUPRO transfer program.

CowCare

- Added the ability to duplicate drugs for a new premise.
- Fixed a problem that occurred when editing usages.

PULSE

Resolved an issue where protocol changes completed on PULSE were not immediately applied in DC305.

DairyComp 305 - Version 24.9

Release Date: September 24, 2024

DC305 version 24.9 contains various bug fixes, customer-requested enhancements, and integration improvements for PULSE and our integration partners. We have also implemented numerous internal improvements, which will become evident in future releases.

Expand the topics below to learn more about the updates in this release:

Base Program

- We've dramatically improved the speed of the `CLEANUP` command whether you use it with the setting to remove duplicate records or you use `CLEANUP\A` directly.
- Added support for `SIR5` and `SIR6` items, which can be used for BRED event entry with default recommended service sires, along with the existing `SIR1` through `SIR4` items.
- Released the August 2024 USA sire proofs file.
- In DC-Shadow refresh options, you can now increase how long a refresh runs before it times out and fails. Extra time is sometimes needed for systems with slow internet connections.
- Fixed a problem where `LOGON` would lock up when a corrupted cowfile existed in the multiherd folder.
- Resolved a performance issue where viewing multiple CowCards was getting slow. This was caused by an accumulation of a large amount of sensor activity data.
- In order to allow genomic imports in some foreign countries (including Argentina) with different government ID systems, we now allow changing the default item used to look up the cows from the DNG file.
- Fixed an issue where the system would not correctly delete a third calf record if you deleted a FRESH event with three live calves.
- Resolved an issue where `FILEOUT` did not always export the expected set of items. This was a rare condition related to the milking interface in use.
- Fixed an issue where the `EVENTS\3` Calf Report was not showing all of the expected items.

Integrations

- NEDAP Now: Added support for using activity-level data received from PULSE in the `BREDSUM\J` activity summary.
- Cow Manager: Added support to send PREV events to Cow Manager in the same way we send PREG events.
- Jantec Milk Import: We now detect and accommodate for a date bug in the Jantec milk file, which caused milking #3 to be missed if it was scheduled after midnight. The weights now load as expected.
- Protein Serum Import: Added support to automatically import protein serum lab result files (DNY files).
- Lactanet Traceability: Fixed a problem designating domestic versus foreign exported cows.
- SEND (Germany): We now allow users to set different premises to different emails to differentiate between breeds.
- GEA DairyNet: Added support for GEA's new DairyNet integration.

CowCare

Fixed an issue where CowCare would freeze when a very large number of backlogged drug usages were processed.

Expand the topics below to learn more about new online help content!

New Help Topic: Sign Up for DC305 Training Classes

Interested in brushing up on your general DC305 knowledge or learning more about specific DC305 strengths, like the power of its reproduction analysis tools? VAS offers several instructor-led and self-paced courses! See **Sign Up for DC305 Training Classes** to learn more.

DairyComp 305 - Version 24.8

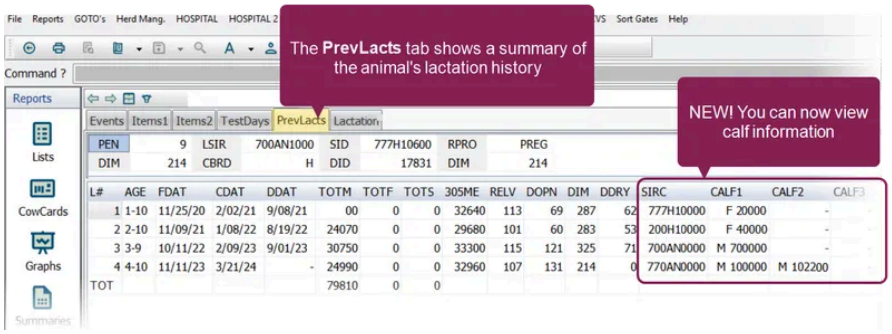
Release Date: August 20, 2024

DC305 version 24.8 contains various bug fixes, customer-requested enhancements, and integration improvements for PULSE and our integration partners. We have also implemented numerous internal improvements, which will become evident in future releases. One highlight in this release is that you can now view calf information in the **Previous Lactations Tab** of any animal's CowCard.

Expand the topics below to learn more about the updates in this release:

Base Program

- The CowCard's **Previous Lactations Tab** now includes calf information: the calf's ID, sex, status, and sire. These will be automatically backfilled the first time you run DairyComp version 24.8:



- The USA sire file now contains sires active in the last ten years.
- Added translation capability to the `ECON\IR` report header.
- Fixed the problem where a client refresh would occasionally erase the local client task table.
- For very large herds with a lot of activity logging, we now properly handle any overflows when the log file gets too large.
- The OTF (on-the-fly) GUIDE items are now always initialized by default for DairyComp Consultant users. Additionally, you can force loading of the OTF items by using `ALTER\20`.
- Bull stud code 694 is now properly recognized as sexed female semen.
- When a sire is renamed in ALTER8 : Sire Table, the sire is also renamed in any archive files. This improves BREDSUM by sire.
- On DCClient, the previous release inadvertently removed access to some `ALTER\11` capabilities. This has been restored.
- OTF items can now be used in EVENTS HDR files.

Integrations

- Lactanet: Added the **REGID** field to the XML file created using `ECON\LACT`.
- SEND (Germany): Added support for sending ADS files for multiple AEs (premises) to different email addresses.
- Zoetis Genomics: Fixed an issue where DNG files from Zoetis were not imported correctly because the files were in an unexpected format.

PULSE

- DC305 now accepts breeding codes entered on PULSE even if the breeding codes are not enabled in DC305.
- Resolved an issue where events were sometimes duplicated in DC305 if the event was entered in PULSE with lowercase remarks.

DairyComp 305 - Version 24.7

Release Date: July 23, 2024

DC305 version 24.7 contains various bug fixes, customer-requested enhancements, and integration improvements for PULSE and our integration partners. We have also implemented numerous internal improvements, which will become evident in future releases. This release had a larger focus on accommodating customer requests.

Expand the topics below to learn more about the updates in this release:

Base Program

- The `SIRES\M` command, which is used to import sire matings from a file, now supports SIR4 and SIR5.
- Improved Item Type #88 to return the number of test days using `log SCC > [value]`. Op1 should be set to `97`, and Op2 should be set to the cutoff value for log SCC. For example, If you want the count of test days where the log SCC is over four, enter `4` for the Op2 value.
- We now only display pens in remarks up to 3 characters unless 4 characters are required. In Cowfile Version 10, we allow up to 9999 pens and we changed the remark of MOVE events to support 4 characters for each pen. This caused remark lengths to exceed 8 characters, which reduced readability in some cases.
- Added content to the `ALTER` routines, which are now visible when using DCClient. While they are still read-only (except for scheduled tasks), you can now view the pens, sires, vet codes, and events tables.
- Added updated sire files for the US, Canada, and Italy.
- Fixed a small issue where reproduction codes were not recalculated properly when a BRED was entered on the same day as an ABORT event.
- The Switch Manager, which displays all available command switches, can now be accessed from the Help menu.
- Improved the way DCCLIENT is updated, which fixes some instances where the DCSquirrel utility tool did not update properly.
- Fixed a typo in the switch description for logging onto archive and backup files.
- Updated the standard event code names for French, Italian, German and Russian users.
- Added Speckled Park (SK) as a beef breed.
- Fixed a problem where CAR codes defined on the server were not being sent properly to the client. Due to the variation in how DCSETUP files are handled between the server and client, we added a setting in the SERVER configuration message that forces the transfer: “Send custom CarCode+VEnter Keys to clients.”
- Resolved a problem where the system would modify FRESH table items when one of the items in the paired tables was deleted.
- Improved the client refresh process, which resolves an issue where clients could have lost their local custom task scheduler tables.
- Reverted a change that caused an issue where a reproduction code was not sent correctly during the iTrans process. The change caused a problem with identifying male calves.
- Fixed an issue where changes made in the last update could have caused a failure in the Lameness Manager, depending on your PULSE settings.

Integrations

- Lely: The latest conductivity values can be imported from Lely in the daily milk import. To enable, use `SETMILK\INSTALL` for Lely and click the button to enable and create four teat items: CNDLF, CNDRF, CNDLR, and CNDRR. The items will start being updated in the milk weight loads.
- Lactanet: Added the **REGID** field to the Lactanet ECON export for Eastern Canada.
- CattleEye: Fixed a problem where values sent from PULSE were not displayed in the correct user-selected format.
- SEND (Germany): Fixed an issue with the German SEND command where MOVE events that involved outside premises were not sent properly.
- DNG Genomic Import: Added HPP (Holstein Horn/Polled) to items that can be imported from genomic files.
- Holstein EASY: Added support for all of the available items in the Holstein EASY import (`ECON\H`). Previously, we just supported importing the CLASS item.

CowCare

The CowCare basis drug file has been updated with new drug information; this happens once a year.

DairyComp 305 - Version 24.6

Release Date: June 26, 2024

DC305 version 24.6 contains various bug fixes, customer-requested enhancements, and integration improvements for PULSE and our integration partners. We have also implemented numerous internal improvements, which will become evident in future releases, as well as completed some international requirements. The next release will include more base program improvements.

Expand the topics below to learn more about the updates in this release:

Base Program

- DC305 lets you customize event names, but sometimes, that makes it difficult for the system to recognize what the customized event name is supposed to represent. We implemented some standardization for events to improve event analysis in both DC305 and PULSE, especially for the PULSE features, **HealthVal** and **OneView**. You don't need to change anything, but to improve the system's analyses, we now have an option for every event in the ALTER - Events dialog where you can select the standard event description.
- Fixed an issue where Item Type #190 Breed item for some 501XD NAAB codes was not always properly seen as "XD".
- Updated the **Switch Manager** to include switches for the SSF SEND command (`SEND\DNL`).
- Implemented full support for Ukrainian language translations, including user-defined events and items.
- For international users where sire NAAB is not available, you can now enter the sexed code and breed for that sire when you enter a BRED event and add a new sire.
- GUIDE now properly reloads if you log on to a dairy with a different GUIDE file.

Integrations

- SEND (Germany): Added support for maintaining a description for each premise in the German premise table.
- SCR Milk Load: Fixed an issue where the system would double up milk weights of a milk load twice for the same milking.
- Delpro: Fixed a problem where a milking time set to midnight might result in an error message.
- FTECH (DairyOne): Added support for IDs that are greater than 5 digits in the lab data merge file.
- FTECH (Minnesota): Fixed a minor display issue in billing report.

CowCare

The "Drug Usage by Cow ID" CowCare Report now allows entry of a list of cow IDs to show on the report.

PCC

We recently changed incoming PCC event entries to use the same command as defined in DairyComp. However, we fixed an issue where the system did not correctly process items in an event command if the items were listed before `EC`. For example, if you enter a **MOVE** command, `PN=PEN EC=9 EDAY REM`, the system now sets the `PN` item properly before the system processes the **MOVE** command (`EC=9`).

DairyComp 305 - Version 24.5

Release Date: May 21, 2024

DC305 version 24.5 contains various bug fixes, customer-requested enhancements, and integration improvements for PULSE and our integration partners. We have also implemented numerous internal improvements, which will become evident in future releases.

Expand the topics below to learn more about the updates in this release:

Base Program

- Fixed a problem that occurred when heifer weights imported on a client were sent to the server.
- Added Ukranian language support.
- Updated the field names in ECON reports to clarify that the **Totals** shown are **Total Animals** in the count column and **Total CWT** in the milk production column.
- Restored the ability to add days to protocol details using ranges (like "2-4" for days 2 through 4).
- The system no longer allows entering DRY events for heifers because it creates a misleading reproduction status and causes problems later in the process. These instances should be entered as treatments with an optional protocol rather than as DRY events.
- Released the latest sire files for the UK and Germany.
- Updated iTrans heifer files (iLoop DNT transfer files) to automatically exclude the reproduction code item, which resolves problems on the receiving side.
- Fixed a problem that occurred when entering sexed sires if the sire's only identification was an ISO code, such as in Italy.
- Fixed Item Type #73 items for "Pen from MOVE event" that broke in a previous release.

Integrations

- Preg Results Lab Import: The system now displays an alert and does not import lab-generated PREG events that occur after an ABORT event if there are no recorded breeding events since the abort.
- FTECH: Fixed the FTECH ABSORB command, so you can now import milk weights for cows with IDs over 5 digits long.
- SEND (Germany): Added several requested improvements to the German SEND command.
- SEND (Italy): Implemented the ability to add a designated EID item to the Italian SEND command. You can now use `INVIA\X [itemname]`, so in this example, you can use `INVIA\X EID`.
- SEND (UK): By request, Northern Ireland bulls are now excluded from the UK checksum validation process.
- Lactanet Traceability: Modified the display of the entry dialogs as requested by Lactanet.

CowCare

Added a new DrugWatch Cow History Treatment report to CowCare, which replicates the output from the former DrugWatch application. To learn more about viewing CowCare reports, see **View Reports**.

PULSE

DC305 now displays notification bars on the main screen if you need to update DC305 so it can properly synchronize with PULSE. Follow the instructions in **Update DC305 to the Latest Release** if you see the notification.

DairyComp 305 - Version 24.4

Release Date: April 23, 2024

DC305 version 24.4 contains various bug fixes, customer-requested enhancements, and integration improvements for PULSE and our integration partners. We have also implemented numerous internal improvements, which will become evident in future releases.

Expand the topics below to learn more about the updates in this release:

Base Program

- You can now use the Switch Manager to see all the available switches for all commands in DC305! Simply click **Command?** at the left side of the command line to open the Switch Manager, then browse the list of commands and switches.
  
  See **Command Line** to learn more about using switches in the command line. For a comprehensive list of commands and switches you can download, see **Command Line Quick Reference Sheets**.
- The April 2024 USA sire file has been released.
- Fixed a problem that occurred when displaying cow pictures in the CowCard's Picture tab.
- Added language support for Estonia.
- When you export a report as a CSV file, the exported version is now easier to read because it no longer includes the Totals line.
- When you use the ALTER command, you can now enter a new technician number using the keypad.

Integrations

- Lactanet Genomics: Fixed an issue where the Lactanet genomics file import changed some sexed sires to their unsexed variant. This occurred because the unsexed sire NAAB was listed in the DNV file.
- SEND (Germany): Implemented more requested changes to the German SEND export format.
- BREDSUM (Italy): Fixed an issue where `BREDSUM\M` was not properly showing sexed sires with Italian stud codes. Also, in some cases, the command would lock up for some Italian v10 cowfiles.
- SEND (Italy): The Italian SEND command now supports electronic IDs.
- Boumatic MSEND: Resolved the error message caused by corrupted files from Boumatic.
- Morocco: Morocco can now use short sire names.

CowCare

Added a new CowCare report called **DrugWatch Cow History Treatment**, which replicates the output from the former DrugWatch application.

PULSE

DC305 now displays notification bars on the main screen if you need to update DC305 so it can properly synchronize with PULSE. Follow the instructions in **Update DC305 to the Latest Release** if you see the notification.

Pocket CowCard

- Fixed a small problem that occured when merging some PCC expert batch commands into the DC305 event command.
- Fixed an issue where the previous Device ID was still being shown on subsequent transactions in the Activity Log.

DairyComp 305 - Version 24.3

Release Date: March 26, 2024

DC305 version 24.3 contains various bug fixes, customer-requested enhancements, and integration improvements for PULSE and our integration partners. We have also implemented numerous internal improvements, which will become evident in future releases.

Expand the topics below to learn more about the updates in this release:

Base Program

- The academic build (DCTEACH) has been updated to read Cowfile Version 10.
- Fixed a problem where, in some cases, if you entered a `BRED` event as an embryo transfer, the CowCard did not properly display `ETBRED`.
- In Cowfile Version 10, the `ALTER` dialog can now support up to 512 breeding technicians. Previously, the `ALTER` dialog only supported 250 technicians.
- Fixed an issue where the CAR code table did not refresh properly for shadow clients.
- Fixed a problem where the system would incorrectly group the crosstab, `BREDSUM\XC BY LCTGP`, by breeding technician.
- If you enter a `BRED` event for foreign herds that use short sire names instead of NAAB codes, DC305 now displays the sexed code for the bull. Additionally, when you add a new sire, you can now enter the bull's sexed code.
- Fixed an issue where the protocol remark was being truncated when exporting culture results to QSM files.
- Improved the search function for sires so that you can enter or find a sire using either the default name (usually NAAB code) or the ISO tag. This works for LIST and SHOW, as well as sire imports.
- In Cowfile Version 10, you can now enter up to 2048 protocol details.
- Fixed a problem where the system would not accept stud codes over 255 in the `SIRES\8` analysis.
- Fixed an issue where the system did not properly update downloaded pedigree (DNZ) files.
- You can now limit access for modifying and recalculating the MONITOR in the User Manager.

Integrations

- UK SEND: Fixed an issue where the `SEND` for the UK BCMS system did not properly default to the latest send date.
- German SEND:
  - Implemented requested changes for sending the milking frequency.
  - Implemented requested changes in the MLP and KARIND export files.
  - When importing the Lactanet DNV genomic file, it will update the animal sire and dam registration if the DNV file has different information than the cowfile.
- Minnesota DHI: Implemented requested change for the MNDHIA FTECH billing module.
- Lactanet Genomics: Implemented requested changes for `MOVE` and `SOLD` events in the KARIND export file.

CowCare

- Updated the default withdrawal period for some drugs in the default protocol list, which is used when adding a new protocol. Existing protocols defined with those drugs are corrected.
- CowCare now defaults to the latest (Version 2) behavior.

PULSE

If you enter an invalid `FRESH` event in PULSE and send it to DC305, DC305 now creates a held command for the event so you can review and verify the event details. For example, DC305 might create a held command for a `FRESH` event if you try to enter it just a few days after the previous fresh date.

Pocket CowCard

DC305 now merges event entries from PCC with the existing event commands to support any items defined for that event. For example, if your `DRY` event is `EC=11 PEN=5`, a `DRY` event from PCC will now support the `PEN=5` entry.

DairyComp 305 - Version 24.2

Release Date: February 20, 2024

DC305 version 24.2 contains various bug fixes, customer-requested enhancements, and integration improvements for PULSE and our integration partners. We have also implemented numerous internal improvements, which will become evident in future releases.

Expand the topics below to learn more about the updates in this release:

Base Program

- Corrected an issue where the CowCard incorrectly displayed protocols on BULLPEN events.
- Posted the Italy sire file with December 2023 proofs.
- Fixed V9 issues where protocols above 255 did not work properly in the previous update and high-numbered protocols were not transferred correctly from DCCLIENT.
- Resolved an issue where `FILEIN` might not import the last record in a file if the file contained blank values after the last line.
- Fixed a `BREDSUM` problem where grouping bull studs did not work correctly wherever NAAB codes are not used, such as Italy.
- Some users reported missing IDs from the `CHKFILE`: "List unused ID numbers." This occurs if the IDs are being used in the EID inventory. To exclude EID inventory IDs from DC305's ID check, check the **Ignore IDs in EID file** box.
- In Parlor reports, we now implement a tolerance value based on parlor size, which reduces the number of false suspect stalls in the report.

Integrations

- Minnesota DHI: The SSF `SEND` command for Minnesota FTECH will export health events by default. For other DHIs, you can add the `\H` switch (`SEND\DNLH`) to send health events.
- Allflex API: Fixed a problem where the system could create new items that overlapped existing items during SETMILK installation for the Allflex API.
- NEDAP & BECO: Added the ability to use both NEDAP and BECO transponders on a single DCCLIENT system.
- ScotEID: Improved the date prompt and the Last Send Date default in ScotEID.
- Lactanet RECEIVE: Fixed an issue where system did not convert some of the lactation totals and projections in the Canadian RECEIVE for herds that use pounds instead of kilos.
- Lactanet Genomics: We now support the import of the Canadian format genomics files, DNV files, which are created and distributed by Lactanet. You can use the command `IMPORTF\V` to import them.

CowCare

- Fixed an issue where the system did not properly display event technician names in the CowCare usage summary.
- Fixed a problem where the system would print the wrong table.

PULSE

Fixed a problem where the system could might not load animals with a missing previous lactation in the initial PULSE load.

DairyComp 305 - Version 24.1

Release Date: January 23, 2024

DC305 version 24.1 contains various bug fixes, customer-requested enhancements, and integration improvements for PULSE and our integration partners. We have also implemented numerous internal improvements, which will become evident in future releases.

Expand the topics below to learn more about the updates in this release:

Base Program

- Fixed a problem where, in some cases, the system would lose data about the previous lactation if you used `RESTORE` on a deleted cow.
- You can now configure DCCLIENT to create automatic local backups. If you want to enable this feature, open the **Client Configuration** menu and check the box next to the option.
- Resolved an issue where the system would display an error message ("Cannot find Cowfile.ARC") if you ran the BREDSUM by Tech report, then clicked on a technician.
- Improved `SIRES\9` so that it can now be used to update sire items for dead cows, as well as live cows (e.g. `SIRES\9 PL:PL FOR ID>0`).
- Fixed an issue where some transactions from Chinese DCCLIENTs would not process correctly on the server.
- Added the Holstein Muscle Weakness trait (GHMW) and Brown Swiss BH14 haplotype (GBH14) to the genomics import.
- If herds use sire short names as the default, the system now displays semen type of the sire (e.g. Sexed, Beef, etc.) in the picklist for `BRED` or `SEMINV` commands.
- Added the Selective Dry Cow Therapy GUIDE tab to the Russian GUIDE.
- When EPLOT was used to load milk weights on a client, the system would show "Cow Not Found" held command errors on the server. These have been changed to **Activity Log** messages.
- Fixed the header column alignment for the `BREDSUM\R` report.
- Fixed an issue where if you selected **Help** > **About** from the toolbar while the internet was disconnected, the program could temporarily freeze.
- Posted the USA sire file with December 2023 proofs.
- Posted the Canadian sire file with December 2023 proofs.
- Fixed instances where a previously-used protocol number was incorrectly used in subsequent `ENTER` commands.
- Resolved an issue where the system did not properly apply hospital pens to protocols when the pen number was over 999.
- Fixed an issue where the system did not properly input enter spaces in the protocol detail dialog.
- Resolved an instance where combo events for V9 included an erroneous event 72.
- Fixed an issue where the Previous Pen item was not working properly for pens numbered higher than 255.

Integrations

- Czech Republic: Released a traceability/government reporting system for the Czech Republic. This is in early beta testing at this time.
- Heifer Pro: Fixed a problem with sires in the HeiferPro import, which was caused by the inclusion of sire names in the export file.
- MN FTECH: Modify the configuration for the MNDHI Degree of Difficulty entry.
- Germany SEND: Requested a change for `SEND\D` commands to properly designate `SOLD` and `CAR` code usages.
- Delpro: The "Suspect milk deviation" was not being properly set in the `SETMILK` configuration dialog for Delpro. This has been fixed.
- Delpro: Resolved an issue where the stall numbers displayed in the Delpro Rotary Parlor report were off by one.
- Dairy One FTECH: Fixed the `SEND` command for Dairy One, which did not support more than 32,000 cows in the cowfile.
- Jersey Genomics: Updated the formulas for the Jersey Performance Index (JPI) and Jersey Udder Index (JUI) calculations.
- SCR/Allflex: Removed the alert that was posted if a cow ID of zero was in the import file.

CowCare

Moved all remaining CowCare version 1.0 customers to CowCare version 2.0. See **CowCare** to learn more about using the new version of CowCare!

PULSE

Fixed a problem where `SOLD` / `DIED` events were not properly removed from PULSE if a cow was mistakenly sold and then restored in DC305.

Pocket CowCard

- Resolved an issue where the system did not properly send protocols to PCC for V9 herds in DairyComp version 23.12.
- We now send more details about Source Farm names and IDs to PCC.

DairyComp 305 - Version 23.11

Release Date: November 28, 2023

DC305 version 23.11 contains various bug fixes, customer-requested enhancements, and integration improvements for PULSE and our integration partners. The majority of our time has been spent on groundwork for new features that will be released over the next two versions.

Expand the topics below to learn more about the updates in this release:

Base Program

- Fixed an issue where the system wouldn't correctly send FRESH technician data to the server.
- Added a check so the system does not resend DNC files (from `PUTCOW\I`) that are older than 7 days.
- When OTF ("on-the-fly" GUIDE items) are imported, the system now displays a message in the **Activity Log**.
- Added a new message that warns you if you try to enter a date for a SOLD or DIED event that occurs before the date of the latest event.
- Removed the extra technician number that sometimes displayed in the Activity Log for BRED events.
- Fixed a problem where the expected milk value was displaying the average instead in CowCards and items.
- Due to the increasing number of ten-character NAAB codes, we expanded the width of sire item displays so the codes are not truncated.

Integrations

- Agsource FTECH: Fixed an issue where dairies with over 32,000 animals were receiving an error if they entered `SEND\L` for FTECH.
- ScotEID: Corrected an issue where the ScotEID traceability was unexpectedly changing the EDAT for some cows.
- Neogen: Added a small change to the mail used for Neogen genomic submission files.
- UDS: Added some items to support the UDS Alta/Genex integration: Female Index, Female Rank, and Progeny Index.
- MNDHIA: We now always send health events in the MN version of the SSF SEND.
- Lactanet DairyTrace: We no longer remove MOVEIN traceability records with errors until they are manually resolved.
- UK SEND: We handled and reported internet connections errors more gracefully.
- MN FTECH: Properly imported the DBRD and CBRD values from PC-DART file.
- German SEND: Modified `\M` switch behavior for sending uploaded ADS files to German LKVs.

CowCare

- Fixed an issue where newly created dairies could not override drug quantities.
- Added an option to merge drugs together to reduce duplicate usage records.

PULSE

We now send the embryo ID and embryo code from BRED events to PULSE so PULSE can create the related type 77 items.

DairyComp 305 - Version 23.10

Release Date: October 24, 2023

DC305 version 23.10 contains various bug fixes, customer-requested enhancements, and integration improvements for PULSE and our integration partners.

Expand the topics below to learn more about the updates in this release:

Base Program

- Fixed a problem with the French translation of the OK event.
- Removed the restriction that blocked client refreshes if held commands were still present on the server.
- Added support for some custom mastitis/SCC analysis items that are used internally by GUIDE.
- When a protocol is edited in `ALTER\7`, it is now properly logged as an ALTER note in the **Activity Log**.
- We increased the number of items that can be added to the user-defined main menu.
- The technician table was adjusted to ensure incorrect technicians are no longer included in ALTER.
- Currency items with Item Type #101 (item + item) now display properly.
- Select Sires stud code 585 is now assigned to stud code 14 for sire look-up purposes.
- Fixed a problem where, in some cases, the system would overwrite the local client task table with the server task table if a client refresh failed.
- The type 190 sexed/breed display now shows an **R** instead of a **P** for beef sexed female sires. See **Using Sexed Sires** to learn more.
- Improved the display of `BREDSUM\EY` for large herds by increasing the column width.

Integrations

- Nedap: Added support for configuring Nedap Now alert items for PULSE. See **Step 2 in Nedap's Activate Integration topic** in the VAS PULSE Platform online help for item details.
- Lely Horizon: Unexpected PREG events are no longer sent to Lely Horizon.
- SETMILK: The SETMILK installer no longer displays shortened field names.
- BMOI: Fixed an issue where MOVEIN events were missing the declaration date for the Simplitrace traceability system.
- Lactanet Traceability: Additional items are now included in DairyTrace MOVEIN and MOVEOUT events.

DairyComp 305 - Version 23.9

Release Date: September 26, 2023

DC305 version 23.9 contains the usual assortment of bug fixes, customer-requested enhancements, and integration improvements for DairyComp, PULSE, and our integration partners. This update includes base program improvements such as sexed sire handling, data integrity and validation improvements, as well as continued work on integrations with our vendors and PULSE.

Expand the topics below to learn more about the updates in this release:

Base Program

- Fixed an issue where the system did not properly display sire sexed codes in sire names (for example, `GALLANT.S`), especially after milk loads.
- The nightly backups now include the Lactanet CANADA.DEF file used for electronic registrations (when available).
- When a new program version is used, we now include both the version date and the version number in the **Activity Log** message.
- The system now displays a warning message if you attempt to modify the disposal code, CAR code 6, which is generally used as a DIED disposal code.
- Detected and fixed item tables where Days Carrying Calf/Pregnant (DCC) was incorrectly defined. The tables were not showing the correct value for dead cow records.
- The system now displays a warning if you enter an ABORT date that is set before the latest PREG event date.
- Sires with a pooled semen NAAB code (such as 200PS1234) are now considered as beef sires for analysis purposes. While that is almost always the case, we are aware that a small number of PS bulls may be dairy, which may be addressed in a future release.
- We made an improvement to help prevent the program from locking up when you convert to the new activity log.

Integrations

- Nedap Now: Added support for configuring NEDAP Now alert items for PULSE.
- Waikato/AIC: Updated the integration name from AIC integration to Waikato Dairy HQ.
- ATA / other SSF SENDs: Previously, you had to add `\H` to the SSF SEND command (`SEND\DNLH`) in order to send health events to the DRPC. Now, this is the default for ATA herds and the `\H` is not required.
- Lactanet Traceability: Fixed an issue where MOVEIN events were missing the declaration date for the Simplitrace traceability system.
- Lactanet Traceability: Added a few requested extra items to the DairyTrace MOVEIN and MOVEOUT events.

CowCare

We removed the older `ALTER\7` protocol dialogs and now exclusively use the new CowCare dialogs.

PULSE

- When protocols were defined on PULSE, the protocol event number entered was not properly applied to the protocol added in DC305. We have resolved the issue.
- Fixed a problem that occurred during PULSE synchronization if you restored an accidentally SOLD animal and completed a XID ID change.
- Fixed a problem where PULSE did not properly clear the archive date item (ARDAT) if a SOLD or DIED event was removed in PULSE.

PCC

Added more vetcode details to the PCC refresh.

DairyComp 305 - Version 23.8

Release Date: August 29, 2023

DC305 version 23.8 contains the usual assortment of bug fixes, customer-requested enhancements, and integration improvements for DairyComp, PULSE, and our integration partners.

Expand the topics below to learn more about the updates in this release:

Base Program

- Previously, if you pressed the Ditto key (*) on a MOVE event, the system would incorrectly ask you to enter a pen. We have corrected the issue.
- Fixed an issue where the **Previous Lact** button wouldn't load properly on CowCards.
- Updated the USA sire file with August 2023 proofs.
- Added some information in **SETUP > Logon Settings** to explain why some buttons are disabled.
- Fixed the bottom axis scaling for graphs showing log SCC values.
- In FRESH, the freemartin status was not being determined properly in the case of triplets containing a male calf.
- Added a **SETUP** setting that allows you to auto-create the OTF (On the Fly) items at startup without having to enter a GUIDE command.
- Fixed how the system shows MAST protocols in EGRAPH reports.
- Added a new option (9) for Item Type #77 (BRED event info) that indicates whether the breeding is the result of an embryo transfer implant:
  - If the BRED event is the result of an embryo transfer, the item returns **E**.
  - If the BRED event is *not* the result of an embryo transfer, the item returns **N**.
- Changes to disposal codes (CAR codes) on the server are now properly sent to DCCLIENTs.
- Fixed problems with the **Find and Replace** feature in the **Held Commands** dialog box.
- We updated the list of stud codes that reference sexed semen, and we have set up automation to make the updates run more smoothly.
- The User Manager can now control the use of the semen inventory (SEMINV) module.
- Removed the VAS Community link button.

Integrations

- InterPulse: Integrated the import of the Average Milk Conductivity data from the `milking_data_YYYYMMDD_M#.csv` file into InterPulse/DairyComp 305.
- ScotEID: Fixed an issue where the ScotEID link was not sending births correctly.
- UK Dairies: Corrected a problem that occurred when the system showed sire breeds for UK herds.
- SmaXtec: Removed an unnecessary error message from the SmaxTec integration has been removed from activity logging.
- CowManager: Added support for the sort code item in CowManager.

CowCare

Fixed problems related to adding and deleting drugs from Inventory and merging multiple drugs together.

PULSE

We continue making improvements for various PULSE integrations issues regarding missing animals, as well as various problems with XID and restored FRESH events.

Web Updater and Backend

In the ABOUT nightly build message, we added an option to preview the changes that are available in the latest nightly build download.

Expand the topics below to learn more about new online help content!

Updated Help Topic: Manage Drug Usage Transactions in CowCare

We have updated the CowCare Drug Usage help topic to include CowCare's major upgrades! Use the new instructions to review, edit, and approve your drug usage transactions. Check out the new toolbar, keyboard shortcuts, and search and filter options that make managing your transactions easier than ever!



See **Manage Drug Usage Transactions** to learn more!

DairyComp 305 - Version 23.7

Release Date: August 3, 2023

DC305 version 23.7 is primarily a maintenance release, containing various bug fixes and improvements for the base program, integrations, CowCare, and PULSE.

Expand the topics below to learn more about the updates in this release:

Base Program

- Updated the German language file.
- We now prevent the deletion of Item Type #98 if it used as the Barn Name lookup item. If it is not, we highly recommend that you do not delete Item Type #98 because it could adversely affect DHI and partner integrations.
- Fixed an issue that occurred when the SETUP option to "auto-create a MOVE event when the premise changes" is enabled. Previously, if the option was enabled and you used the Ditto key (*) during event entry, DC305 would not let you enter a Protocol or Remark.
- Added performance improvements so that it's easier to enable Enhanced Activity Logs. To learn more about how you can quickly find and filter the entries you need using Enhanced Activity Logs, see **Activity Logs**.
- Alta stud code 699 is now correctly designated as sexed female. Previously, it was designated as sexed male.
- Due to a change in the sire data file we receive, some sire breeds were identified as “H” or “J”, while others were “HO” or “JE”. We addressed this inconsistency and continue to use single-character breed codes for the major dairy breeds.
- Added support for the ability to upload more than one PUTCOW file within the same minute.

Integrations

Lely: Fixed an error message that occurred during the Lely milk import.

CowCare

- Fixed an issue where the system would incorrectly write off drugs if you entered them on DCCLIENT.
- Resolved an issue where the drug editing window would not work properly in countries that use commas as numeric separators instead of decimals.
- Added support for Russian dairies to define premises, which can be used in CowCare.

PULSE

- Fixed an issue where, in some cases, PLCLIENT would generate an error that would block the synchronization between DC305 and PULSE.
- Resolved a problem where using an XID twice would stop the synchronization between DC305 and PULSE.

DairyComp 305 - Version 23.6

Release Date: June 27, 2023

DC305 version 23.6 contains an assortment of requested improvements, integrations updates, and minor bug fixes. We've also made updates to the latest version of CowCare. Many of our efforts in this release include internal changes in preparation for future features.

We've also made significant changes to the latest version of CowCare.

Our upcoming efforts include several requested improvements for PCC, PULSE reliability, Cowfile Version 9, and a variety of integrations updates.

Expand the topics below to learn more about the updates in this release:

Base Program

- Released updated May 2023 sire files for Italy and Canada.
- Resolved an issue where automatic incrementing of beef tags in FRESH was not working.
- Added a scrollbar to the ALTER : Dairy info dialog.
- Reduced the size of cowfile backups by removing the old Drugwatch files.
- We are now using an improved uploader for nightly backups. This reduces some of the issues we've seen with uploading backups for larger herds.

Integrations

- Delpro: Resolved an issue where EID formats for Morocco caused problems with the Delpro integration.
- Lactanet: Fixed a problem that occurred when sending MOVEOUT events to the Canadian SimpliTrace traceability system.
- Lely: Implemented a workaround for an issue that occurs when sending BNAME to the Lely T4C/Horizon integration. The integration now has an **Always send cow names** setting that is off by default. Use the `SETMILK\INSTALL` command to turn the **Always send cow names** setting on or off.
- When this setting is off, cow names are only sent to T4C/Horizon when the **Barn Names** setting is enabled in ALTER11. If the setting is on, cow names are always sent to T4C/Horizon. When a cow's name is present, that name is used. If a cow's name is missing, DC305 creates the name using a string representation of the cow's ID.
  ScotEID: Fixed a problem that occurred when entering destination holdings for the ScotEID traceability system.
- Zoetis: Resolved an issue where commands sent from the PULSE Zoetis genomics integration were being held if the commands were too long.
- AIC: Loading Milk Weights for AIC now ignores input records if "X" is at the start of the transponder code.

> **NOTE:** The import generates an error file (AIC.ERR in the DC305 folder) that explains why other import files may have been skipped.

CowCare

- Added a notification window to alert that the old version of **CowCare** will be replaced on September 4, 2023.
- Fixed an editing drug settings issue.
- Implemented requested features for the new CowCare:
  - Added a setting to fail treatments if the DrugLot date is before the treatment.
  - Added a setting to filter only the DrugLots that have quantity.
  - CowCare now displays the number of treatments and total drug quantity on the bottom of the grid.
- Added the following date fields in Audit:
  - Date of treatment: Approval and reversal treatment
  - Delivery Date: Adding new inventory
  - Drug Loss Date: Adding new Drug Loss
  - Enter Date: Adjustment of Inventory
- Added the ability to report audit reports by either the date of a transaction or date of the record type.

PULSE

- Resolved an issue where backup programs interfered with PULSE synchronization and caused animals to be deleted.
- Fixed a problem where using an XID twice caused PULSE synchronization to stop.

PCC Pocket CowCard

Resolved an issue where item numbers over 255 were not properly sent to PCC entry lists.

DairyComp 305 - Version 23.5

Release Date: May 30, 2023

DC305 version 23.5 contains an assortment of requested improvements, integrations updates, and minor bug fixes.

We've completed efforts on fully supporting triplets in FRESH, including the associated items and reports. CowCare continues to improve with multiple requested changes from our partners and customers.

Our upcoming efforts include several requested improvements for PCC, PULSE reliability, Cowfile Version 9, and a variety of integrations updates.

Expand the topics below to learn more about the updates in this release:

Base Program

- Added support for triplets in the `EVENTS\3` Calf report.
- Fixed an error in the `CONNECT\A` Genomics (DNG) import that caused DC305 to hang.
- Reimplemented the Prostaglandin Analysis Option in BREDSUM that was removed in version 23.4. You can access the option from the BREDSUM menu or by using the `\PG` switch.
- Resolved an issue where the ALTER-Sires display grid was showing duplicate sires.
- Released sire files that contain the April 2023 sire proofs for Germany and the UK.
- Resolved an issue where the ALTER-Items display grid was showing a blank item at the top of the list.
- Corrected NAAB stud codes 602 - 605 to designate as sexed sires in ALTER8 and type 190 sire items.
- If a CLEANUP failure warning is displayed during DC305 startup, you can now run the `CLEANUP` command to clear the warning.
- Item types 73 and 76 now include the calf detail for a triplet calf to the item result. For example, three live triplet females added to the herd are displayed as "FKAFKAFKA."
  For proper triplet display, ensure `CONVERT\REM16` is used to extend the remark field length to 16 characters.

Integrations

- Fullwood: Some versions of Fullwood parlor integrations do not support DC305 sending lactation numbers. If an error is generated, add `\N` to the `MSEND` command to disable this value.
- ScotEID: Events that occurred "today" are now included, and a confirmation is displayed after the process is complete.
- SCR/Allflex: `SETMILK\INSTALL` no longer creates SCRTG. When HTTAG is created, it is now a type 32 item.
- Crystal-Fusion: By default, animals with a zero transponder are not sent to Crystal. This can result in duplicates if some heifers are assigned transponders. To avoid duplicates, add the `\H` switch to the Crystal-Fusion `MSEND` command to allow all animals, including heifers with zero transponders, to be sent to Crystal-Fusion. It may also be necessary to remove the `FOR` `TRANS>0` from the `MSEND` command.
- Lely: In a previous release, we implemented a change to resolve issues with barn names in the Lely `MSSEND` command. This caused issues for other Lely users, and the change was reverted in this release. We continue to work with the Lely team to properly send names to the T4C/Horizon system.

CowCare

- The new version of CowCare highlighted in our 23.2 release notes is now available! The update includes several major CowCare enhancements, including the option to run CowCare and DC305 concurrently, an updated dashboard with quick access to herd statistics, and significant speed/usability improvements. See **Install CowCare** to learn more about setting up the new CowCare.

  > **NOTE:** Existing DC305 customers can enable the new CowCare by going to **SETUP > Preferences** and clicking the **Turn on New** CowCare button.

- Resolved an issue where some CowCare protocol usage activities incorrectly displayed the event pen as 1023.
- If there was no entry of a delivery doc in the original CowCare, the new CowCare would not allow you to edit drug lots. You can now edit drug lots if the delivery doc is missing.
- Removed the ability to switch treatment from "No Treat" back to "Pending."
- Updated multi-purchase input to remove the user from the audit trail.
- Resolved an issue where the sort order on the treatment screen didn't work in the grid when a PC was set to US format and DairyComp was set to EU.
- Fixed an issue where CowCare prompted for a password multiple times.
- Resolved an issue where CowCare would not switch back to the activity screen when activity occurred in DC305.

Web Updater

Added error checks to resolve an issue where failed nightly backups caused program hangs.

PCC Pocket CowCard

Foreign language and English expert batch commands are now both recognized when sending data to PCC. For example, "`ENTER\Z`" and "`ENTRAR\Z`" are both recognized.

Expand the topic below to learn more about new online help content!

Updated CowCare Help Topics!

With the significant enhancements made to CowCare, we've updated many of our CowCare help topics! See **CowCare** to learn more!

DairyComp 305 - Version 23.4

Release Date: April 26, 2023

DC305 version 23.4 contains an assortment of improvements, requested integrations updates, and minor bug fixes.

We added more improvements to the FRESH command, including support for storing calf details for triplets. We've also added the option to group by Pen of the BRED event in BREDSUM. For use in certain genomic items, we expanded the type 42 item to allow a variable number of decimal places. Additionally, we are working on internal changes to the web update process as we continue to work on Cowfile 9.

Expand the topics below to learn more about the updates in this release:

Base Program

- Added the "By Event Pen" option to BREDSUM, which groups by the pen of the bred event. This option can be selected from the menu or by using the `\P` switch.
- Removed the "Heat Efficiency" and "Prostaglandin Analysis" options from BREDSUM.
- Added support for storing the calf details (live/dead, kept/sold, male/female) on triplet calves. This can be viewed in the FRESH event flyover hint. In this version, only the first two calves display. Version 23.5 will display triplet statuses as items for FRESH item types 73 and 76.
- Resolved an issue where entering `ESCAPE` from a picklist remark entry did not properly cancel the event entry. (for example, a `REM=RED;GREEN;BLUE` prompt)
- Fixed a problem where a badly defined item locked up ALTER2.
- Resolved an issue where `ECON\D` posted multiple unwanted alert messages when the entered herd date (EDAT) was unexpectedly missing.
- Expanded Item Type 42 to allow a selectable number of decimal places. The decimal places are specified in the second operator (Op2). The example below describes an Op2 value of 7654.321:
  - 4 Default: displays as $7654.32 (currency)
  - 1 One decimal: 7654.3
  - 2 Two decimals: 7654.32
  - 3 Three decimals: 7654.321
- MOVE events are now stored with both the original pen and the moved to pen. This removes the need to manipulate the remark field. Pens are available in the CowCard remark flyover hint and are used internally in various places including the CowCard page 6 pen movement chart.

Integrations

- Germany `SEND` : Added requested improvements for the German `SEND\V` to allow certain features to work across various LKVs.
- Germany `SEND` : Included "Causes of Impairing Performance" (CAR) codes in the KARIN.ADS export file.
- HeiferPro: Resolved a bug where DIED events were not properly recorded in the HeiferPro import.
- FTECH: Fixed the FTECH PC-DART import to support sire IDs longer than 9 characters.
- VMS: Added the registration number to DCMSEND.ISO (Item 5 Reg1 in Europe) to the VMS MSEND. This currently requires an INI setting.
- Lactanet: Continued improvements to SimpliTrace and DairyTrace.

CowCare

Updated the basis drug file with new drugs.

Expand the topic below to learn more about new online help content!

New help topics for Tru-Test SRS2 scanner users!

Does your dairy use Tru-Test SRS2 RFID scanners? Check out **Configure a Tru-Test SRS2 Scanner** for step-by-step configuration instructions! We've also included some instructions that show you how to delete sessions from the device. See **Delete a Tru-Test SRS2 Scanner Session** to learn how!

DairyComp 305 - Version 23.3

Release Date: April 3, 2023

DC305 version 23.3 contains improvements to CowCare, partner integrations, and a handful of enhancements and bug fixes.

We continue to make multiple improvements to the FRESH command. One highly requested improvement is the ability to maintain separate default ID and tag sequences for beef calves and crosses. On the ALTER > Dairy Info page, you can now define beef calf sequences. If the calf is determined to be a beef or beef cross, and those fields contain values, then those fields are used for the default calf ID and tag entries. Future versions will include additional updates to the FRESH command.

Expand the topics below to learn more about the updates in this release:

Base Program

- Added the option to designate a default ID and Tag series for both male and female beef calves. This option is used when beef or crossbred beef calves are entered and is available in ALTER > Dairy Info.
- In ALTER > Items, DC305 now prevents a second item edit window from opening if one is already open.
- The ECON inventory report now properly accounts for user-defined sexed sires as well as NAAB coded sires when counting offspring.
- Resolved an issue where deleted cows were displayed when the `LIST \D` (dead) or `\B` switches were used.
- Fixed an issue that caused slow performance or system failures when searching for ET dams while entering FRESH in Version 9 cowfiles.
- Scheduled tasks were periodically hanging up after an error was produced in the connection to parlor or activity software. Connection hangups that exceed one hour are now terminated and logged.
- Fixed an issue where the Selective Dry Cow Therapy module was not installing correctly if the DRY event was not fully defined in ALTER - Events.
- Resolved an issue where the process for moving the maternity technician's name/number item to calves was not functioning.
- Fixed a problem with ABS sire stud codes 602 - 605 not properly displaying the sire info when the sire item was clicked.
- The default ID sequence on the server PC no longer updates if the **Use Client Calf ID Sequence** setting is enabled on the client.
- Extended the capability for prompted remark picklists. A value can now be prompted if the word `PROMPT` is in the picklist. In the following example, if **PROMPT** is selected, the user is prompted for a remark not on that prompted list: EC=42 REM=RED;GREEN;PROMPT;BLUE

  > **NOTE:** This feature is not supported in PCC or DC Mobile.

Integrations

- Fixed a bug where BULLPEN events were being inadvertently removed.
- The `MSEND` command to DairyPlan now only uses a BRED event (not a HEAT event) when sending insemination data.
- The system now sends the animal registration number (Item #5) through the BMOI integration.
- Requested changes have been made to the MNDHIA FTECH billing procedure.
- Fixed various issues when sending traceability data to the DairyTrace Canadian traceability system.
- Resolved an issue where the German GDTYP (cause of death) was not properly transferred from DCCLIENT and caused the DCCLIENT entry to be unavailable in EVENTS reports.

CowCare

- Fixed an issue where the premise number was not changed to the new premise when editing a pen number in CowCare usage entries.
- Resolved an issue with removing protocols after cows are SOLD or DIED.
- A new CowCare drug file for Italy has been deployed.

Expand the topic below to learn more about our updated online help content!

Updated Help Topic: Install DC305 on a New Computer

- We've updated the steps for installing DC305 on a new computer. This guide can be used if you are completing a fresh install or transferring DC305 data from your old computer to a new one. See **Install DC305 on a New Computer** to learn more!

DairyComp 305 - Version 23.2

Release Date: February 28, 2023

DC305 version 23.2 contains various bug fixes and improvements, with an emphasis on integrations updates. Improvements also continue to CowCare, the Cowfile 9 project, and various other enhancements and bug fixes.

Expand the topics below to learn more about the updates in this release:

Base Program

- The implemented a new "constructed ID" format for unknown genomic dam IDs. The new format was causing processing issues in DC305 and DRPCs. We implemented a fix to prevent against importing this new ID format.
- Fixed an issue where the `SHOW \QAT` average option was not averaging the type 150 series estimated weight items.
- Fixed an issue in `EVENTS` command reports where the report titles were not displaying correctly.
- Updated various language translations for DairyComp.
- Resolved an issue where the DCLAUNCH tool (used by DCCLIENT to receive updates from the server) was not working properly.

Integrations

- AgSource: Implemented the new DHI 43 "AgSource OnFarm" option for AgSource integrations. The new option fixes an issue where some of the extra DNL items, including 305DM and 305DF, were not updated in the `RECEIVE` command. The option is primarily used in the western US.
- Allflex/SCR: Resolved an issue where, in the most recent releases, DC305 was not properly calculating cows milked twice in the same milking.
- Boumatic: Corrected a format error that occurred when sending the lactation number through the BMOI integration.
- Boumatic: Added the `\R` switch to the `MSEND` command, allowing you to send lactation numbers, PREG/OPEN date, and PREG status to the Boumatic robots.
- Lactanet: Fixed an issue where records marked as "Deleted" in traceability logs were still being sent to the national database.
- Lely: Fixed an issue that occurred when sending barn names to T4C/Horizon. This issue may have been specific to Italian systems.
- ScotEID: Addressed and fixed an error where an incorrect URL was being directed to the ScotEID traceability system.
- Zoetis Genomics DND Import: Fixed a problem that occurred when loading the Zoetis Herdity items.
- USJersey: Added support for additional trait fields in the US Jersey DNI file import:
  - PTA Gestation Length
  - Health Trait Index
  - PTA Milk Fever
  - PTA Displaced Abomasum
  - PTA Ketosis
  - PTA Mastitis
  - PTA Metritis
  - PTA Retained Placenta

CowCare

- CowCare enhancements are coming your way soon! This release includes several major CowCare enhancements, including the option to run CowCare and DC305 concurrently, an updated dashboard with quick access to herd statistics, and significant speed/usability improvements. These new features will be field tested by a select group of users and will be publicly available in a future release.
- Fixed a problem that occurred when entering dose values on DCCLIENT systems.

PULSE

- Resolved an issue with duplicate animals with the same platform ID.

Web Updater/RS2 Replacement

- Removed an unwanted Cowfile 8 message in the updater. The error was displayed to a subset of users with older cowfiles.

Expand the topic below to learn more about our updated online help content!

Updated Help Topic: Activity Logs

- In the 22.8.0 release notes, we added a new Enhanced Activity Logs topic. We've since expanded the topic to cover all Activity Logging. See **Activity Logs** to learn more!

DairyComp 305 - Version 23.1

Release Date: February 1, 2023

DC305 version 23.1 contains various bug fixes and improvements, including changes for the base program, CowCare, and PULSE. Fixes and enhancements for integrations were a major focus in version 23.1.

Expand the topics below to learn more about the updates in this release:

Base Program

- An issue when using the `SIRES\9` command to import some sire items like PL and PTI has been resolved. The command not working properly was a result of a change made by NAAB with the sire file that DC305 imports.
- We fixed an issue where records sent to the new **Activity Logs** were being assigned incorrect categories.
- The December 2022 Sire files have been created for the UK and Germany.

Integrations

- Afikem: We added support for importing the "Non-specific" AFI alert in the `MILK\Q` alerts import. You can now run this import by adding `\M` to the existing `SEND` command. For example, `SEND\VM`.
- Germany `SEND`: We now allow alternate testing schemes for all LKs, not just Sachsen. You can do this by adding `\M` to the existing `SEND` command. For example, `SEND\VM`.
- Germany `SEND`: We resolved an issue where animal movements were not properly sent to HIT in Cowfile Version 9.
- Lactanet: We resolved an issue where CrossReference and TagRetired events were not always properly sent to DairyTrace.
- Lactanet: A new sire file containing the Decemeber 2022 sire proof data has been posted for Canada.
- UK `SEND`: An issue has been fixed where the `SEND` command used in the UK was generating errors when no premises were defined. Additionally, we clarified the message displayed when escaping the process.
- Zoetis `IMPORTF\D`: Zoetis Herdity support was added in version 22.12.0, but it was not properly loading some of the values. All assigned Herdity is now being imported correctly.

CowCare

- We fixed a problem where post-fresh withdrawal dates were being set for dry protocols with no withdrawals defined.
- We created and deployed a CowCare drug file for Czech Republic.

PULSE

- An issue has been resolved where some reports sent to PULSE for foreign languages, including German, did not properly display the "Totals" in the report footer and affected the PULSE widget display.
- A Cowfile error in the DC305 to PULSE synchronization process was interfering with PULSE uploads. This error was not previously displayed but has now been changed to a visible alert.

PCC Pocket CowCard

- We resolved an issue where some PCC users were receiving incorrect PCC license expiration messages.

Expand the topics below to learn more about new online help content!

New Help Topic: BREDSUM Reports

- BREDSUM in DC305 allows you to examine the effectiveness of your breeding program, including options for generating multiple reproductive statistics and measures. This help topic guides you through running a report, describes a report example, details the multiple command switches, and summarizes the syntax used with the command. See **BREDSUM Reports** to learn more!

New Help Topic: Parlor Reports

- The `PARLOR` command generates a report that summarizes daily milk activity. Data in the Parlor report allows you to find meters and machines that are not functioning properly, identify cows milked in the wrong pens, and monitor employee milking performance. This data can help guide any necessary changes to your milking processes. This help topic walks you through running a Parlor report and details the different sections of the report. See **Parlor Reports** to learn more!

New Help Topic: PCC Command

- Did you know you could create new commands for Pocket CowCard using DC305? See our new **Create a New PCC Command in DC305** FAQ topic to learn more!

DairyComp 305 - Version 22.12.0

Release Date: January 10, 2023

DC305 version 22.12.0 contains various bug fixes and improvements, including changes for the base program, integrations, and CowCare. We continued working on improvements for international traceability projects. Additionally, we have implemented multiple requests from new integration partners. We have also made improvements to our Cowfile 9 project, which continues to be field tested on multiple dairies.

Expand the topics below to learn more about the updates in this release:

Base Program

- We now properly calculate the dead/sold counts in INVOICE when events are logged after the DIED or SOLD event.
- An issue has been resolved where a cryptic and unnecessary message was displayed in the activity log at startup. The message was displayed in herds (primarily non-US) with a different setting for list separators including semicolons instead of commas in CSV lists, and commas instead of decimal points for numeric decimal values.
- By request, all vet codes (except CHECK and ABORT) are now cleared prior to the new vet list being generated. Previously, only the first 16 vet codes were cleared.
- We added a checkbox setting in ALTER Dairy Info to control whether the program should search archive files when looking for ETDAM information in FRESH. This was slowing down FRESH entry in large herds. By default, archive searching for ETDAM is now disabled unless the checkbox is set.
- We fixed an issue where you couldn't define a sire as "sexed" unless the unsexed variant also existed. This only affected dairies not using NAAB codes, primarily in Germany and Italy.
- We fixed an issue that occurred when viewing an EVENTS report and changing the date range using the **Options** button. Previously, the generated report would contain the correct data, but the report header would not properly display the newly selected date range.

Integrations

- Allflex/SCR: When the MSEND detects problems such as duplicate transponders, the conflicts are now set to an alert instead of being printed.
- UK/ScotEID: We resolved an issue where changes for ScotEID caused failures in the standard UK SEND.
  The ScotEID/ScotMoves project is still in field testing and has not been released.
- HeiferPro: When importing data from the HeiferPro import file, it will no longer overwrite existing EID (item #5) items if the import file has a blank value.
- HeiferPro: We've set the CAR to "6" for DIED events imported from HeiferPro.
- AFI: We have added the ability to load AFI activity files on DCCLIENT.
- Zoetis: DairyComp can now save the Teat Length (TL) genomic value from Zoetis import files.
- Zoetis: You can now import Herdity files into DairyComp from Zoetis DND files.
- Germany: Defining alternate test schemes was only available for Sachsen LVK. We now allow alternate schemes for any LKV if the **\M** switch is added to the **SEND** command.
- Lactanet: The ability to define sexed sire options in BRED for Lactanet herds has been removed.
- Boumatic: Lactation number, preg check date, and preg check results have been added to BMOI MSEND.
- Boumatic: DairyComp now allows spaces in the UNIV setup parameter for BMOI integration. For example, "C:\BM open interface\".

CowCare

- We fixed a problem that occurred when editing dosage on the usage screen.
- CowCare creates a CDOSE item used for manual dosages. If there was not room to create the item, DairyComp displayed a blocking dialog. This has been changed to a less obtrusive log entry.
- We added a setting that will display the actual withdrawal days instead of the calculated days on the inspector report. This is only used in some countries.
- You can now change the names of the drugs in CowCare. Additionally, you can now disable the use of certain drugs in protocols without completely removing the drugs.

PULSE

- An issue with Russian and Chinese herds where the calf widget was not displaying properly has been resolved.

DairyComp 305 - Version 22.11.0

Release Date: December 6, 2022

DC305 version 22.11.0 contains various bug fixes and improvements, including changes for the base program, integrations, and CowCare. This release also includes an improvement that speeds up commands such as BREDSUM by as much as 25%. Work continues on cowfile 9 which continues to be field tested on several dairies. Additionally, we made some internal changes for the PULSE integration, however these updates have no visible effect for the users.

Expand the topics below to learn more about the updates in this release:

Base Program

- We fixed the **SIRES** command options "Analysis - Sires of Cows" and "Analysis - Service Sires" to properly show the selected date ranges.
- The Background Refresh options for HTTP compressed and uncompressed in the Server config on DCClient are again operational. (The **Advanced** tab is available when using `SERVER\M`. For some time, attempting to use these options on a Refresh generated a "Server does not support HTTP refreshing" error and the refresh failed.) Cowfile version 9 users should use the uncompressed version because the cowfile is already compressed. Version 9 can use the compressed or uncompressed option. Overall, the background refresh option solves some issues, especially with large herds and those clients with slow or less reliable connections to their server.
- We were notified that stud 664 - Jetstream Genetics is a sexed female designation, and we made that correction.
- We released an updated Portuguese language file.
- We resolved an issue, possibly limited to Russian herds, where event tech teams were wrongly added to new events as they were created.
- We now allow spaces in the file names specified in FILEIN definition files used by `FILEIN\R`.

Integrations

- UK: We fixed the display for item type 134, which is only used in the UK for breed designations.
- SCR/Allflex: We removed the prompting for MTIM (milking times) in the SETMILK installer for SCR, which could cause a "File not Found" error in the milk load.
- SCR/Allflex: The commands that are created automatically with the SETMILK installer for SCR have been fixed.
- Scotland: We implemented the first release of the ScottEID traceability integration for Scotland.

CowCare

- We are now able to verify that all protocols are accounted for when opening CowCare.
- We fixed an issue where CowCare would accept a drug loss in the Inventory page, even if all fields were completed.
- We now allow drug doses between treatments in CowCare.
- We fixed an occasional error when entering purchases into the grid.

Web Updater / RS2 Replacement

- Installing Java is no longer necessary to update DairyComp 305 after this release and the previous 22.9.0 release.

PCC Pocket CowCard

- We added the PCC Device ID to the activity log for all entries made on PCC to allow you to see which particular device was used.

DairyComp 305 - Version 22.10.0

Release Date: November 8, 2022

DC305 version 22.10.0 contains various bug fixes and improvements, including changes for the base program, integrations, and CowCare. Additionally, we've implemented fixes for various milk integrations, imports of genetic indexes, several improvements for Lactanet, and some minor improvements for PULSE and PCC. We continue to field test the new, larger cowfile 9 on several dairies.

Expand the topics below to learn more about the updates in this release:

Base Program

- When one of the daily milk weights for today is zero, it now substitutes the weekly average for that milking in the calculation of the total, instead of the previous method of using yesterday's value for that milking.
- We fixed a problem that occurred when the system reloaded the new activity logs after switching between herds.
- We expanded the command entry size for ALTER-Commands. The system now displays the entire command when entering very long commands.
- We do not allow event remarks with certain characters, such as a backslash (\), because they cause problems with integrations, including PULSE. This same logic has now been added when editing event remarks.
- The use of Item Type #67 (lookup items) in vetlist constraints is now allowed.
- We added a checkbox in ALTER-Items to allow displaying either English or Foreign item names (use for Russian and Chinese herds).

Integrations

- Lactanet: The system now automatically updates the FRESH table to add the dam's ID (REGID) to the resulting calves' dam ID (DREG).
- Lactanet: Fixed an issue where the second calf in a set of twins was not getting the correct REGID.
- Lactanet: FTECH: Removed restrictions on changing the items on CowCard page 1.
- Boumatic: New NEDAP interface for Boumatic milk weights are in kilos. Also added a new `\C` switch to convert pounds, for example `MILK\T1CN`.
- ATA-Index: Resolved an issue where the Index import from ATA was incorrectly assigning some items.
- Lely: Fixed a problem with animals not marked as milkable due to Life Number issues.
- Lely: Fixed a problem with animals being removed from T4C/Horizon due to XID usage.

CowCare

- DC305 now saves the last entered delivery information as the default when adding new purchases.
- We fixed an error message that occurred at program startup, even when CowCare was not installed.
- We added a new "Inventory Quantity Report" that allows you to list inventory, either entirely, or by premise.
- We added the ability to fail approval if no drug delivery document was added.

PULSE

- We fixed a problem with duplicate Platform IDs that could have been caused by animal movements from a heifer grower.

Web Updater / RS2 Replacement

- Installing Java is no longer necessary to update DairyComp 305 after this release and the previous 22.9.0 release.

PCC Pocket CowCard

- We added the PCC Device ID to the activity log for all entries made on PCC to allow you to see which particular device was used.

DairyComp 305 - Version 22.9.0

Release Date: October 11, 2022

test edits

DC305 version 22.9.0 contains various bug fixes and improvements, including changes for the base program, integrations, and PULSE. However, in this release much of the focus was targeted towards fixes for CowCare and the Lely integration. Additional improvements were made to activity logging and web updater to support PCC updating.

A new RFID scanner can now be used to scan your animals with the mobile app. DC305 now supports the Allflex APR600 RFID scanner. For more information, see **APR600 Support Update**.

Expand the topics below to learn more about the updates in this release:

Base Program

- Activity data sent to DC305 through a PULSE integration, such as Allflex HeatTime, was being sent per-cow, which cluttered the activity logs. If the new **Activity Logs** feature is used, these are put into a new "Sensors" activity category, which can optionally be turned off in the configuration settings to keep them from the default activity log view.
- ALTER\8 Edit sire window now shows the sexed code status next to Breed and Stud if either of those entries define a sexed sire. For example, the breed AN determines that it's a Beef sire. This helps minimize confusion when a sexed sire does not have a suffix, and is necessary in countries where NAAB codes are not used.
- We fixed a small problem in COWVAL where the caption for Lactation numbers was duplicated (1, 2, 2 changed to 1, 2, 3).
- We resolved an issue where all of the switches were not properly saved when an EVENTS\R report was created and then re-run.
- 652NR Geno AI sires were improperly being coded as sexed male, but they are sexed female. This has been resolved.
- If you renamed the MILK item to something else, you were not able to rename it back to MILK. This has been resolved.
- We improved the "There is an update ready" notification at the bottom right corner of the screen.
- In some cases, creating and then canceling a new protocol entry was still creating the protocol. This has been resolved.

Integrations

- Lely: We fixed a problem with errors caused by duplicated Life Numbers.
- Lely: We fixed a problem updating the complete T4C records for new animals added.
- Lely: We resolved an issue caused by blank barn names.
- Any integration setup dialogs that create items will now log those item additions in the activity log.
- For the new **Activity Logs**, all integrations (milk loads, milk sends, activity loads) are logged along with the vendor name as Integrations.

CowCare

- We fixed a problem where custom heifer dosages were not reporting correctly.
- We resolved an issue where delivery document IDs were not being assigned in the correct order.
- If the checkbox that says "don't allow approvals with negative quantities" is checked, the system will now properly stop the approval of any treatments when it gets to zero.
- Some treatments were missing from CowCare, which was caused by the user waiting too long (sometimes months) to update CowCare. With this change, CowCare is automatically updated on a daily basis.
- When the CowCare database is resotred from backup, duplicate treatments are no longer being added.

PULSE

- DairyComp and PULSE handled blank sires differently (zero vs UNKNOWN) in some cases. This is now fixed.
- We resolved an issue where deleting a FRESH event in PULSE was causing an error in DairyComp.

Web Updater / RS2 Replacement

- We added support for PCC updating in our new web updater, which makes us close to completing our switch away from Java. The changes are in this version, but won't take effect until a second web update is run.

PCC Pocket CowCard

- The activity log now shows EID values entered from PCC Add Batch commands.

New! DairyComp 305 now supports the Allflex APR600 RFID scanner

In addition to the Allflex AWR300 RFID scanner, DairyComp 305 now also supports the Allflex APR600 RFID scanner scanner, allowing you to scan animals with the mobile app. The APR600 can be paired to your Pocket CowCard for Android device.

See **Connect an Allflex Scanner** to learn more!

DairyComp 305 - Version 22.8.0

Release Date: September 7, 2022

DC305 version 22.8.0 contains various bug fixes and improvements, including changes for the base program, integrations, and PULSE.

One long-awaited improvement is the first release of our enhanced Activity Log. We have made it easier for you to filter and find the entries you need! When enabled, activities and entries are grouped into categories. You can then view activities and entries by category or date, or hide categories from the log. For more information, see **New Help Topic: Enhanced Activity Logs**.

Expand the topics below to learn more about the updates in this release:

Base Program

- We were receiving reports of technician teams being prompted when the event or protocol did not define a team. This issue has now been fixed.
- The updated sire proofs were released as part of version 22.8.
- We fixed a problem where in some cases the event TECH entered on the client was not properly sent to the server.
- We resolved an issue where running the GETCOW**\I** command did not find the DNC file that was placed in the DC305 folder, which required manually changing the default folder selecting the file.
- A bug as been fixed where MONITOR parameters using @MTR (since last MONITOR was run) were not seeing more than four constraints. MONITOR parameters now recognize all six constraints if present.
- A printer is required to be defined in order to run DairyComp. We have improved the detection of a missing printer, which was causing the program to stall if it was unable to detect a printer.
- Running certain batch files within DC305 would periodically write an error message to the activity log. This was determined to be a false error message and has been removed.
- We fixed a bug where the ALTER7 : Protocols command was allowing mapping of the same event to more than one protocol event, or the same item to more than one protocol item.

Integrations

- We added the Jersey Neuropathy (JNS) trait to the Zoetis DNG import.
- The SCIMM (Semex Calf Immunity Index Value) trait has been added to the Semex DNG import.
- We added a new DHI type for AgSource Onfarm herds. This is primarily for FTECH and used only for AgSource herds using . This should not be used for typical AgSource herds using DC305 that are tested with FTECH.
- We fixed a problem where the FTECH import for PC-DART herds was not properly supporting 2-character breed codes.
- The Stature (GTSA) trait has been added to the Zoetis DNG import.
- We fixed various problems with foreign language event names in the DairyMaster integration.
- We improved the rounding of dairy milk weights imported from the SCR integration.

PULSE

- The number of days for saving past worklists sent to PULSE has been reduced. This will free up disk space on customer computers.
- A bug has been fixed where some combinations of XID were not being sent properly to PULSE which blocked further updates.

Web Updater / RS2 Replacement

- We've made various improvements to both the web updater and the RS3 ZOF downloader. At this time, we are unable to go completely Java free. However, the DC305 team continues its work with the PCC team on downloading the necessary updates, which is being developed for DC305 version 22.9.

New Help Topic: Enhanced Activity Logs

When you enable the enhanced Activity Log, you can quickly filter and find the entries you need! Activities and entries are grouped into categories, which can be selected by category, by date, or made visible or invisible in the log. To enable this feature, enter the SETUP command in the command line and go to the **Preferences** tab. Toggle on **Enhanced Logging**.

When you first enable the new Activity Logs, it might take a few minutes to create the Activity Log database using your existing log files. The system will continue to update the default text log files even if you enable or disabled in the enhanced Activity Log.

Additionally, we're saving more details for each entry. In upcoming releases, we plan to add more activity logging features. See **Activity Logs** to learn more!

DairyComp 305 - Version 22.7.0

Release Date: August 4, 2022

DairyComp version 22.7.0 contains various bug fixes and improvements, including changes for CowCare, Integrations, and the base program. This release also includes ongoing fixes and improvements for PULSE integrations and new update process. Several bug fixes and requests from our customers and partners have also been addressed.

As we proceed, we continue to work on the upcoming Cowfile Version 9 with expanded data storage, as well as an enhanced version of activity logging, which will be available in a future release.

Expand the topics below to learn more about the updates in this release:

Base Program

- We fixed a problem where the system would not properly show "B" for beef sires that didn't have a NAAB code. This change fixes type #190 items, as well as **BREDSUM*** (BREDSUM by sexed code).
- We removed the **ECON Income over feed** cost option, which was not being used.
- We deployed a new German language translation file supplied by the German support team.
- Due to an error at the Council of Dairy Cattle Breeding (CDCB), a new USA sire file was received. The correct version has been deployed to customers.
- By request, we added a button in ALTER8 : Sire Table so you can directly go to the Semen Inventory.
- Some customers wanted to remove the ability to enter FRESH if a cow is not pregnant. To achieve this, enter SETUP in the command line, go to the **Parameters** tab, and set the **Minimum DCC to allow FRESH** option to a nonzero value. Note that this blocks FRESH, unlike the existing DC305 option, which is just a warning that can be bypassed.
- When the **EVENTS\2** command was used to list events, the system only displayed the tech for BRED events. The system now properly shows the event tech used for each event listed.
- Resolved an "Out of bounds Exception" error in DC305 that occurred when the system ran the **SAVE** or **STATUS** command for some herds. This was traced to a corrupted temporary file used by CowCare.

CowCare

- The system was not setting the Milk withdrawal date (MKDAT) correctly if you used **DRY** protocols in CowCare and if the protocol was set to add a number of days to the fresh date when the FRESH event occurred. This has been corrected.
- The CowCare module was inadvertently being activated whenever the ALTER7 : Protocols configuration was entered, even if you didn't want to use CowCare. This has been fixed, and this will also clear any accidental CowCare databases that may have been created.

Integrations

- You can now set the time on your reports to show either 24-hour time (14:30) or 12-hour time (2:30 PM). To change the setting, enter **SETUP** in the command line, go to the **Printer** tab, and update the **Show Time On Reports** option.
- We fixed a problem for some dairies where loading Allflex Heatime data would cause the system to lock up DC305 with an "out of bounds" error message.
- We fixed a problem with the Canadian Traceability process on DCCLIENT. If births were entered on the client and a different pen/premise was used, the system did not record premise changes properly on the server Traceability system.
- We fixed a mistake where the system would send the wrong ear tag when users entered the German version of the **SEND** command.
- We fixed a problem with the UK British Cattle Movement Service (BCMS)'s **SEND** command where it incorrectly identified Wagyu crossbred calves.

Web Updater

- The system now updates language (DCLANG) files whenever translations are modified, even if the files are updated between DC305 releases.
- There have been several improvements in the web updater to increase reliability and provide an improved experience.

Expand the topics below to learn more about new online help content!

New Support FAQ: Check the DC305 and PULSE Connection

Did you know you can check the connection status between DairyComp and PULSE directly in DC305? Check out our new FAQ to learn how to check the connection and solve your connectivity issues! See **Check the DC305 and PULSE Connection** to learn more!

New Help Topic: Adjust the Hold Date (HLDAT)

Need to adjust the hold date (HLDAT) for an animal? If you want to schedule a vet check for your animal earlier or later than the current hold date allows, see **Adjust the Hold Date (HLDAT)** to learn how!

New Help Topic: Determine Why DNB Cows are on a Vet List

Is there a Do Not Breed (DNB) animal on your vet list? See **Why are DNB cows on my vet list?** to learn what might have happened and how to fix it.

DairyComp 305 - Version 22.6.0

Release Date: July 6, 2022

DairyComp version 22.6.0 contains various bug fixes and improvements, including changes for PULSE, CowCare, Integrations, and the base program. This release also includes ongoing fixes and improvements for PULSE integrations and new update process. Several bug fixes and requests from our customers and partners have also been addressed.

Improvements continue for expanding storage for cowfiles, enhancing activity logging, and improving the web updater, as well as migrating users to the non-Java version.

As we proceed, we continue to work on the upcoming Cowfile Version 9 with expanded data storage, as well as an enhanced version of activity logging, which will be available in a future release.

One long-awaited improvement in this version is enhanced support for sexed sires for customers who do not use NAAB codes. See **Enhanced Support for Sexed Sires** below for details!

Expand the topics below to learn more about the updates in this release:

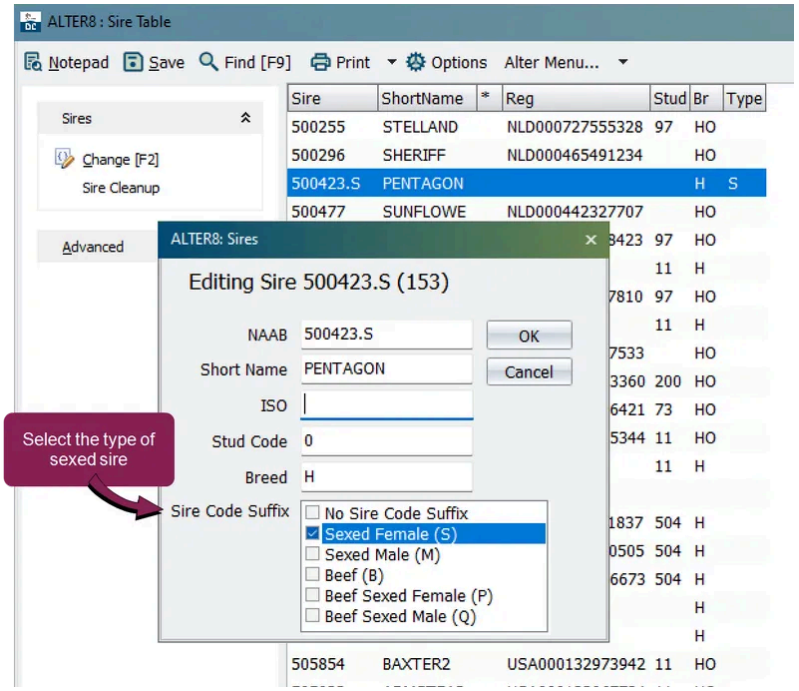
Enhanced Support for Sexed Sires

Customers who do not use NAAB codes can now use the enhanced Sexed Sire feature in DC305 to designate a sire as sexed female, sexed male, and sexed and unsexed beef sires.

For US customers, sexed sires are handled well already, as they are based on NAAB stud codes in the sire names. But NAAB codes are not typically available for our international customers, especially in Europe. To meet the needs of customers who do not use NAAB codes, DC305 now allows you to designate a sire as sexed female, sexed male, and sexed and unsexed beef sires.

The simplest method is to add **.S** to any sire name to designate it as sexed when entering it into DC305. For example **12345** is not sexed and **12345.S** is sexed.The command for the sexed sire would look like this:**ENTER SID=12345.S**

The more advanced method is to edit the sire in the ALTER**8 Sires** Configuration window. To designate a sire as sexed without relying on a NAAB code, you can use the new **Sire Code Suffix** field on the sire record to select the various sire sexed types (a straw, specifically).



See **Using Sexed Sires** for a more thorough explanation of this new feature, as well as detailed instructions!

Base Program

- The MONITOR report would display some values as negative numbers. This overflow was seen in very large herds, and has been fixed.
- The system was not showing the correct calculation for item type #110 (item divided by item). This is now resolved, however, some divided items may contain values that the system won't include in the report. For example, milk weights stored to half unit values.
- Updates for DCSquirrel.exe have been added to all download channels, not just PULSE channels.
- VAS monitors the NAAB stud code list to keep track of any changes, including sexed sire stud codes. This update contains some of these additions, including added support for **designating any bull as sexed semen without using NAAB codes)**.
- The **XID** command was not accepting IDs that had more than 9 digits. This has been fixed.
- An issue where the SIRES importer would occasionally import sire items over critical system items, such as BDAT or FDAT, has been fixed.

CowCare

- Previously, users could only collect treatments data from the previous 15 days. Now, users can go back 180 days to collect treatments data.
- Added the technician name to the Inspector report.
- Removed some prompts that were not applicable in certain countries.
- In some CowCare instances, the system was not showing dates in the user-selected format i.e. in Day/Month/Year or Month/Day/Year format. This is now fixed.

Integrations

- Fixed a problem in the HeiferPro import where some health events were incorrectly imported as PREG.
- When only using milk import files, it can be dificult to quickly determine whether a parlor is rotary or not. To force the setting, we added the **\R** switch support to the **PARLOR** command:
  - \R0 means that the parlor is not a rotary.
  - \R1 means that the parlor is a rotary.
- Fixed an incorrect caption on the setup screen for the SCR integration.
- In some countries (including Morocco), the system now sends fully numeric ISO codes to Delpro.
- Completed more work for the Lactanet integration.

PULSE

- Fixed some errors found in the PPK platform ID import from PULSE, in response to changes in the PULSE API.
- Fixed some issues for cows missing the correct PULSE IDs.

Expand the topics below to learn more about new online help content!

New Help Topic! Using Sexed Sires

Customers who do not use NAAB codes can now use the enhanced Sexed Sire feature in DC305 to designate a sire as sexed female, sexed male, and sexed and unsexed beef sires.

See our new **Using Sexed Sires** topic for help designating any sire as sexed, without relying on NAAB codes!

DairyComp 305 - Version 22.5.0

Release Date: May 31, 2022

DairyComp version 22.5.0 contains various bug fixes and improvements, including changes for PULSE, CowCare, Integrations, Pocket CowCard, and various web updater fixes. We also addressed several bug fixes and requests from our customers and partners.

We continue to work on expanding storage for cowfiles, enhancing activity logging, and improving the web updater, as well as migrating users to the non-Java version.

Expand the topics below to learn more about the updates in this release:

PULSE

- Fixed a Squirrel error message that was caused by a partial, incomplete PULSE install. Protections were put in place to resolve this error.
- Fixed an issue in initial export to PULSE that had a corrupted archive file.
- Continuous improvements are being made to integrations between PULSE and DairyComp for entries made on either system.

CowCare

- Fixed an issue where protocols using the same drug multiple times were not calculating correctly.
- The order of assigning the Delivery Doc to the treatment has been changed.
- CowCare backup files are now included in the daily backup and SAVE\F commands.
- Fixed an issue where the inventory was not displaying properly for some customers.
- CowCare DRY protocols were updated to set correct withdrawal dates to begin when the cow freshens.

Integrations

- The Squirrel companion program, which is used for integrations including Lely and Smartbow, is now automatically updated on client computers when DC305 is updated.
- The UK SEND file now includes the dam's eartag number.

Pocket CowCard

- Applied a hotfix to version 22.4 to address a missing prompt for ID in some PCC worklists.
- You can now use MP3 and WAV files for sounds in PCC. Support for these files is also offered in DC305.

Web Updater

- Fixed failing pConnect nightly backups to PULSE on older, Windows 7 computers.
- Web Updater includes several notable enhancements, including an improved ability to determine if updates are available, and better handling of language and sire files.

General Enhancements and Changes

- Fixed an issue with event entry using the numeric keypad.
- Posted an updated German sire file with recent changes to the DHV numbers.
- Fixed an error in the Russian Translation file.
- Fixed a problem where the Import EIDs manager option was not reading cow IDs exceeding eight digits.
- SIRES options 7 and 8 for analysis now display correct date ranges.
- In the last release, we updated the formula for ECM. In this release, we also added the updated formula to be used in the type 129 projected ECM and relative value ECM items.
- The FTECH SEND summary report now displays IDs longer than six digits.

Expand the topics below to learn more about new online help content!

New Help Topic: Milk Production Over Time!

Need to see your milk production over a period of time? Our new help topic illustrates how DairyComp displays charts and graphs to help you better understand and visualize milk production over time. See **Milk Production Over Time** to learn more!

DairyComp 305 - Version 22.4.0

Release Date: April 27, 2022

DairyComp version 22.4.0 contains various bug fixes and improvements, including changes for PULSE, CowCare, Integrations and various web updater fixes. We also addressed several bug fixes and requests from our customers and partners.

We continue to work on expanding storage for cowfiles, enhancing activity logging, and improving the web updater, as well as migrating users to the non-Java version.

Expand the topics below to learn more about the updates in this release:

PULSE

- We continue to work on issues related to sending complete previous lactation records to PULSE.
- Fixed an issue where the system would display a "Duplicates not allowed" message and block some widget from generating.

CowCare

- We fixed an issue with CowCare reports opening without immediately displaying the animal list. The system now displays the animal list as expected.
- When starting a shipment in CowCare, the default shipment value is now set to zero. In rare cases, CowCare would freeze when CowCare shipments were saved without a quantity. This only occurred when CowCare was force closed during shipment entry.
- Added the ability to adjust the standard drug dosage when entering a protocol. You can now set up the protocol to allow these changes, and the dosage details are then transferred to CowCare.

Integrations

- Lely: Solved an ongoing problem that affected sending PREG/OPEN statuses and PREV events to the Lely T4C system.
- Added support for Canada's secondary traceability system called SimpliTrace. It is primarily used for Western Canadian dairies and is similar to the existing DairyTrace. Our Lactanet partners are now reviewing our support development.
- Added a requested field to the German SEND command (SEND\W and SEND\DW) that indicates whether the calving was a result of an embryo transfer breeding.

Web Updater

- We started updating the back-end destination of the nightly backups. You may notice background messages referring to this change, but the update does not affect your backups.
- Implemented some minor display changes in the web updater process.

General Enhancements and Changes

- Updated Stud 516 to a sexed female stud code, in compliance with the Global Ag Alliance's classification. This affects the type 190 sire sex item (%190.SID.7) for this stud, which is now "S."
- Fixed an issue where the Energy Correct Milk item (ECM, Type 85 with Op 1 of 2) was calculated improperly when either of the component values (PctF and PctP) were set to zero.
  While investigating that, we discovered and implemented newer formula for ECM. The new formula will have a small but statistically significant change on the values reported.
  The formula is:
  `ECM = (0.327 * MilkPounds) + (12.95 * FatPounds) + (7.2 * ProteinPounds)`
- When you update your program, the system will automatically download updated sire files (DCSIRES.xxx) for the USA, Germany, UK, and Italy. The new files include information from the newly-released April 2022 sire proofs.
- Removed the VAS Community button for international users.
- You can now configure client computers to perform automatic backups. To enable this feature, enter the SERVER\M command or go the Advanced Settings tab and check the new “Enable Client Backup Task” box.
- Addressed an issue where the system would enable User Manager after it was disabled. Now, when you disable User Manager, a system message prompts you to keep the existing user list while still setting it to disabled.
- Fixed an issue where the system would resend an event's previous changes. This occurred on DCClient if the user started entering edits for an event, but closed the edits before completing them.
- Fixed the CowCard Page5 PREVLACT display for Russian herds.
- Fixed the Type 122 Week 1 milk average item. Previously, it would incorrectly return the second week's value.
- Log searches in the Activity Log are now sorted from oldest to newest. A previous Activity Log update had changed how log searches were sorted.
- Previously, we created ETBRED events to indicate when an embryo transfer breeding occurred. In a few herds, the system identified some breedings as ETBRED even though no embryo transfer had occurred. We fixed one cause, which occurred whenever an ET flag was incorrectly set during some breedings.
- This can also occur if users misuse the ETDAM item. Do not use the ETDAM item for anything other than an actual donor ID for embryo transfer breeding. It is a system item and DairyComp uses it for that specific purpose.
  In the previous release, we improved the activity log to distinguish between external entries made in DairyComp, PULSE, or iTrans. In this release, the Pocket CowCard label is now available. The entries now include the following labels:
  - D: DairyComp
  - P: PULSE
  - N: iTrans
  - M: Pocket CowCard

Expand the topics below to learn more about new online help content!

New Support FAQ: Update PCC on your Android Device

The PCC app is updated on a regular basis and often includes key enhancements and bug fixes that improve app performance and usability. Most versions of PCC have an in-app updater that automatically installs the latest version of PCC onto your device. If your version of PCC does not automatically download the latest version of PCC, manually download the latest version of PCC. **Before initiating any update, ensure all pending transactions have been delivered to** DairyComp. Please note that your PCC device must be charged to at least 20% before you can download the latest version of PCC.

See **Manually Update PCC on your Android Device** to learn more!

New Support FAQ: Backup PCC Transactions on Android 11+ Devices

PCC offers the option to backup transactions, which comes in handy while your device is offline and unable to send transactions to DC305. Use this feature if your connection is unstable or if your device is failing or crashing for unknown reasons.

See **Backup PCC Transactions** to learn more!

DairyComp 305 - Version 22.3.0

Release Date: March 30, 2022

DairyComp version 22.3.0 contains various bug fixes and improvements, including changes for PULSE, CowCare, Lely, and various web updater fixes. We also addressed several bug fixes and additions requested by customers and partner support.

We continue to work on expanding storage for cowfiles, enhancing activity logging, and improving the web updater, as well as migrating users to the non-Java version.

Expand the topics below to learn more about the updates in this release:

PULSE

- Corrected an error that occurred when a user removed a FRESH event from an animal. An error would display in an animal's data on PULSE if the system could not restore the animal's previous records.
- Added standard item numbers and updated the user interface for SIR3 and SIR4 to support the PULSE genetic planning tool.
- Added the PLATFORM command, which allows users to access all of the DC305-PULSE item links.
- Redirected ZOF uploads from iLoop to PULSE for 10% of all herds (herdcodes that end in "9"). The ZOFs will still go to iLoop at this time. This update may slow nightly backups.
- Improved the PLCLIENT sires tables to ensure that sire names are updated in both DC305 and PULSE if sires are renamed in DC305.
- Fixed an issue where DC305 would not work correctly when a file containing PULSE IDs included values from bad EIDs.
- Corrected an issue where some users would receive an access violation error when they opened PLCLIENT.

CowCare

- Changed the system's default settings so users can't add treatments without drugs or treatments without protocols. You can enable the option to add treatments without drugs or protocols in **CowCare** > **Settings** > **Inventory**.

Integrations

- Lely: Corrected the way we send ABORTS data to Lely's T4C management system to match the way Lely's T4C management system maintains pregnancy statuses.

Web Updater

- Fixed a problem where switching between different cowfiles caused an incorrect expiration message.
- Improved DCUpdater so the system now skips some Curtis steps if Curtis is unresponsive. The system will alert the user if any steps were missed. However, issues must be reported internally to DCUpdater because FetchUpdates will not make any calls to Curtis when this occurs.
- Corrected an issue where the background web downloader window would display in front of the DC305 window.
- Properly handled EULA documents in the web updater.

General Enhancements and Changes

- Fixed an issue where the Selective Dry Cow Therapy install module was failing for Russian herds.
- The User Manager can now assign permissions to specific ALTER features, not just the ALTER command overall. These permissions can be found in a new tab in the User Manager feature.
- Previously, when users created a FRESH event by entering a command on DCCLIENT, the system would not recognize any portion of the command that preceded the FRESH event. Now, the system will support all parts of the FRESH command.
  For example, if a user wrote `COD1=99 EC=1 EDAY`, the system would not recognize the item (`COD1=99`) because it precedes the FRESH event (`EC=1`). Now, the system will properly recognize the item even if it precedes the FRESH event.
- Corrected an issue where in some cases, the iTrans download would cause duplicate events when the event already existed in DC305, but had a protocol.
- Fixed an error where users with very large herds would see an Out of Memory error if they attempted to search the activity logs.
- The system now records changes made using the ALTER9 command (event codes) in the activity log.
- Corrected a translation file error that occurred when users tried to add new items to the TestDays tab on an animal's CowCard.
- Improved the Export to Excel option. Now, users can check the Improve Excel Export box in SETUP to speed up the process.
- Fixed an issue where STF LOAD incorrectly read STF "TOBULL" events as BRED events. This issue affected subsequent PREG events.

DairyComp 305 - Version 22.2.0

Release Date: March 9, 2022

DairyComp version 22.2.0 contains various bug fixes and improvements, including changes for PULSE, CowCare, Lely, and various web updater fixes. We also addressed over a dozen changes and additions requested by customers and partner support.

Expand the topics below to learn more about the updates in this release:

PULSE

- Fixed a problem related to sending Change IDs (XID).
- Resolved an issue where duplicate FRESH events caused unwanted calf ID changes.
- Fixed a problem where PLCLIENT failed to send updates to PULSE when a user logged on to different cowfiles.
- Added activity log labels for incoming PULSE commands. Expand **Activity Logging** to learn more.
- Added new safeguards to prevent accidental animal deletion in PULSE.
- Added a PULSE standard item STOC (semen type of choice) to support the PULSE genetic planning tool.

CowCare

- Added the option to enter and define a drug dosage for protocols when entering protocol events.

Activity Logging

- Improved the activity log to distinguish between external entries made in DairyComp, PULSE, iTrans, or PCC. Previously, the entries were labeled with a “V”. The entries now include the following labels:
  - D: DairyComp
  - P: PULSE
  - N: iTrans
  - M: PCC

  > **NOTE:** This feature is not available in PCC, but it will be available in the next PCC update.

- So, for example, if you see a breeding event in the activity log labeled as “P”, it was entered on PULSE.

Integrations

- InterPuls: Resolved an issue where blank values were occasionally included in the Interpuls milk import.
- Lely: Fixed problems related to duplicate Life Numbers.
- Lely: Updated the way we send ABORT data to better match the way Lely's system resolves OPEN and PREG statuses.

PCC

- Created a simple method to reimport lost PCC transactions. Contact **VAS Support** for more information.

General Enhancements and Changes

- Added a warning when a SOLD or DIED event is entered before the animal's last event.
- Fixed a problem where HeiferPro PREG events were incorrectly labeled as PREV events.
- The loading time for the SCR and SmartBow sensor data pages has been significantly improved.
- Resolved an issue where the CHECK vet code would not clear when a CHECK event was erased.
- Fixed a problem related to the tech remap function.
- Added functionality to support some DHI SENDs on DC305 computers.
- Fixed a problem in DCLAUNCH where the DC305 client did not always update correctly after the DC305 server was updated.
- Fixed an expiration date problem that occasionally affected subscriptions that were temporarily extended.

Expand the topic below to learn more about the new online help content!

New Support FAQ: Connect an AWR300 Scanner

Need to connect an Allflex AWR300 RFID scanner to an Android device for use with the Pocket CowCard app? See **Connect an Allflex Scanner** to learn more!

DairyComp 305 - Version 22.1.0

Release Date: February 4, 2022

DairyComp version 22.1.0 contains various bug fixes and improvements, including changes for PULSE, CowCare, Lely, and various DHI-related fixes. We also addressed over a dozen changes and additions requested by customers and partner support.

Expand the topics below to learn more about the updates in this release:

CowCare

- Fixed a problem in which protocols lost drug mapping after remapping using the `ALTER\7S` command.
- Fixed a problem with deleting unused inventory records.
- Made another significant improvement in CowCare speed.

PULSE

- Fixed a problem where the wrong animals were showing as deleted when a DNC file of imported animals was imported twice.
- The PULSE Dairy ID is now displayed for reference purposes in the PLATFORM command window.
- Various other work was performed to improve data integrity between PULSE and DairyComp.

Integrations

- Beco: Fixed flow rates in Beco parlor reports.
- Made improvement in sending FRESH information to Lely/T4C.
- Standardized the international ID format sent to Lely/T4C.
- Nedap: Fixed heat time and activity items to make gap items work properly.
- ParlorBoss: EID items are now always standardized to numeric.
- ScotMoves: Fixed various issues with the ScotMoves API.
- Lactanet: Fixed regression in Lactanet Traceability.
- Lactanet: Fixed incorrect calf sex for stillborn calves.

Web Updater

- DC Squirrel now properly closes before running the Java updater on non-Platform enabled herds.
- The new (non-Java) updater is the default updater from now on (except for hardlocked versions).

General Enhancements and Changes

- Allow `SETDAY` as a command that can be controlled with the User Manager.
- Handle duplicate BRED problems caused by the user of sire short names in iTrans.
- Fixed Selective Dry Cow install module for Russian herds.
- Fixed German DGTYP item duplication when foreign DCITEMS file is in use.
- Log all changes made in the `ALTER\4` Pens window.
- Fixed previous problem in which FTECH caused an error message upon exiting.
- Allow technician event teams to be deleted through right-clicking on the teams selector box.
- Properly export decimal values in the Save to Excel option.
- Properly save the PEN in ABORT events that start a new lactation.

Expand these additional topics to browse new online help content!

New Support FAQ: Troubleshoot Start-Up Errors

Have you ever had a problem launching DairyComp? Check out our new FAQ for answers to the most common DairyComp start-up problems! See **Troubleshoot Start-Up Errors** to learn more!

DairyComp 305 - Version 21.12.0

Release Date: January 4, 2022

This update is primarily a maintenance release. We've continued to update CowCare and various vendor integrations and improve PULSE integration. We've also made miscellaneous improvements and bug fixes in the main program.

We are completing the final work on the new non-Java Web Updater, which is supported in this version (but is not yet the default).

In the upcoming quarter we will continue to improve the Lely integration, and Cowfile 9 will undergo a thorough beta testing phase. We will also continue to handle various requests from customers and support.

Expand the topics below to learn more about the updates in this release:

CowCare

- CowCare properly removes usages after a SOLD or DIED event.

PCC

- Added support for Scanner Device ID item.

PULSE

- Fixed deletion of FRESH event when ETDAM is not found in cowfile.
- Fixed memory overflow of platform ID import in large herds.

Integrations

- Beco: Added support for Taurus format for Beco.
- Nedap: Revised the pregnancy check result value for NEDAP based on NEDAP requests.
- Lactanet: Fixed Calving Ease format with Lactanet XML Export.
- Lactanet: Ensured REGID item is updated properly in RECEIVE.
- Added support for Scotland ScotMoves Traceability Export.
- Avoid potential hanging if Delpro milk import fails.
- Fixed correcting milk weights (including 4x) in herds when some pens use robot milkers.

Genomics

- DND Import—Import Cholesterol Deficiency (GHCD) values.
- Import Jersey JNSC values.

General Enhancements and Changes

- Support more items for "EVENTS\3 BY..." (e.g., calf technicians).
- Fixed moving technicians between event and breeding teams when they have long names.
- Fixed display cutoff issue in EVENTS LAME\50.
- Reset RPRO if deleting DNB event on heifers.
- Deployed new December 2021 USA and Alta sire files.
- Fixed a problem using ABSORB on some cowfiles.

Expand these additional topics to browse new online help content!

New Support FAQ: Find Unused Animal ID Numbers

Did you know you can search the DairyComp database for ID numbers you're not currently using? You can even search across multiple number ranges and print the results in a report. See **Find Unused Animal ID Numbers** to learn more!

DairyComp 305 - Version 21.11.0

Release Date: 12/14/21

This update contains some continuing work on CowCare, Embryo Transfers, and miscellaneous changes and bug fixes. As always, we continue to work on PULSE integration issues as they arise.

Finally, we've spent a lot of time completing the final work on the new non-Java Web Updater which is being tested in this version.

Expand the topics below to learn more about the updates in this release:

CowCare

- Fixed a problem on the Protocols page where protocols would not display after exiting CowCare
- Introduced a drop-down/auto-populate vet in the Documents tab
- Fixed the date display format to DD/MM/YY in some reports and views

PCC

- Included support for Scanner Device ID

PULSE

- Reduced the size of PLCLient backup files to save disk space
- Limited the PLCLIENT to only send to PULSE from a specific cowfile (to avoid potential problems with LOGON use)

Sires

- Fixed a problem with some sires getting changed from conventional 200 to Sexed 777 in SEMINV
- Updated the Italy sire file
- USA Sire file will be released on 12/15

General Enhancements and Changes

- Lely/DC: Fixed SavePregnancy to update the event in Lely, even if out of sequence
- Lactanet: Revised 'TagReplaced' in DairyComp traceability
- Fixed client task tables from being changed in DC Client when the client task table option is enabled
- Removed old and outdated vet reminders from the Vetlist
- Fixed a problem with the online help menu option selecting the tab links to the old reference guide
- Fixed a problem with improperly importing tech tables in ABSORB
- Fixed missing remark/calf info when a cow is sold on fresh date
- Fixed a problem where CONNECT would not automatically import newly downloaded genomics DNG files
- Fixed a problem where having an ETDAM in the archive file could leave the program logged into that archive file

Expand these additional topics to browse new online help content!

New! Get Started Help Content

Information stored in DC305 is comprehensive and easily accessible. In moments, you can determine whether an animal is fresh or dry, when they changed pens last, and if they're due for a check-up with a veterinarian.

Our new Get Started! section is a great resource for new and experienced users alike. See **Getting Started with DairyComp** to learn more!

New! Vet Procedures Help Content

Our new help topic explains all you need to know about vet codes, generating vet lists, and entering vet exam results. See **Veterinary Procedures** to get started!

New Support FAQ: Remove DNB Event

Need to know how to remove a Do Not Breed (DNB) event from a CowCard. See **Remove a Do Not Breed (DNB) Event** to find out!

New Support FAQ: View Energy Corrected Milk Values

Did you know that Energy Corrected Milk (ECM) is a value that can help you evaluate your herd's productivity and efficiency? Our new FAQ explains this helpful calculation and how you can view it in your reports. See **View Energy Corrected Milk (ECM) Values** to learn more!

New Support FAQ: Common Terms and Commands

The DairyComp online help now includes a quick reference page for commonly used terms and commands. The page also includes handy, downloadable PDFs. See **Common Terms and Commands** to check it out.

DairyComp 305 - Version 21.10.0

Release Date: 11/10/21

For this update, the focus was on making continued improvements to CowCare, Embryo Transfer handling, and importing the genomics files. And while we continue to work on PULSE integration, we've also been working hard to make updating to new releases of DairyComp easier in the future.

Finally, we fixed some bugs and added features requested by customers.

In our next release, we'll have a long-awaited replacement for the aging Java web updater.

CowCare

- Added the ability to import protocols not associated with an event (such as OvSynch)
- Deployed new and updated drug files
- Fixed a bug in the inventory adding process
- Handled a problem maintaining proper premise ID as pens change
- Fixed adding drugs to protocols by going through Alter\7
- Fixed inventory counts for protocols with multiple drugs

Embryo Transfer

We investigated how parentage is assigned to calves based on embryo transfers, whether recorded in DairyComp or in PULSE. Based on that, we fixed a few things and added internal coding of ET breedings as well as better logging for these breedings.

- Fixed setting MGDID and MGSID on calves resulted from embryo
- Fixed wrongly setting DID to zero on calves if the donor is not an active record in the cowfile
- Properly assign donor info to calf if the donor was sold prior to calf being born
- We now log ETBRED breedings as such in the activity log

Pulse

- Fixed a bug where the PULSE syncing would stop due to an error
- We are working on improvements for handling event edits and deletes made on PULSE. This is still in progress awaiting PULSE improvements
- Support importing Fresh Table changes made on PULSE

General Enhancements and Changes

- Fixed problem with some variations of the SIRES\M command to import mating recommendations
- Finished work on the “Type Of Death” item used in Germany
- Support sending DNB to Lely
- We now expose the setting for disabling ID changes in genomic imports, in the Genomics import command. This allows skipping any ID changes (eartags, EIDs, and dam info) from being made by the import
- Allow transferring Protocol details along with Protocols in ALTER\7I import
- We added a setting in SETUP to have a MOVE event created for any PEN change, not just MOVE events. Besides seeing the pen changes on the CowCards, this helps with some of the heifer ranch needs
- Allow Academic versions to access parlor data file
- We added configuration of a “Scan Device ID” item for the PCC refresh, so PCC can send back custom scan IDs (will require future PCC support)
- Fixed bug in Selective Dry Cow Therapy installer
- Fixed erroneous "Duplicate item" message in ALTER\2 caused by deleted items
- Fixed Previous Lactation page display in Russian CowCards
- Store Russian cowfile folder files DCITEMS and DCEVENTS in backups
- We removed the extraneous and repetitive activity log message for failed internet connections

New Reports Help!

The DC305 online help has been updated with new information to help you generate and work with reports, both in the command line and the DC305 menu. See **Reports** and **Command Line** to find out more!

New FAQ: Add a Treatment Protocol

Need to add treatment protocols to DairyComp? See **Add a Treatment Protocol** to learn more!

New FAQ: Toggle Auto Print

Want to toggle the DairyComp Auto Print feature on and off? See **Toggle Auto Print** to learn more!

New FAQ: Assign Tech Team to Events

Did you know you can assign an event to a specific technician (or a group of technicians)? See **Assign Technician Teams to Events** to learn more!

DairyComp 305 - Version 21.9.0

Release Date: 10/13/21

This release contains many changes across the program, with numerous improvements and bug fixes. A lot of work was also done with CowCare.

For PULSE Platform, issues were fixed regarding the FRESH date, as well as some CAR code improvements. Also, we continue to work with the PULSE Platform team to improve the DairyComp to PULSE Platform integration.

Some things with the genomics imports have been fixed and enhanced, including setting (or sometimes *not* setting) DID, MGSID, and other items based on the incoming data, and we made it easier to see these changes.

Also, we are working on improving the Embryo Transfer process, addressing needs for both DairyComp and PULSE Platform.

Finally, as always, we've made many improvements and bug fixes based on requests from customers and the support team.

CowCare Enhancements and Changes

- The multi-premises CowCare problem has been addressed so that CowCare now uses the correct premises when there are multiple premises and premise by event type.
- Fixed the display of the delivery document in the Usage screen. Users now always see the same delivery documents in the same order.
- Changed CowCare so it no longer gets the event/protocol records from the cowfile. The old process was very slow for larger dairies. Now when a user creates an event in DairyComp, a record is created so that CowCare can see the changes without looking into the cowfile. This process, which previously took upwards of 10 minutes, now takes 15 seconds.
- Fixed "Drug Lot" selection on the Inspector Report. The Inspector Report was showing the wrong Drug Lot and Delivery Document in some instances. Also fixed the universal ID on the report.

PULSE Platform Changes

- Fixed a minor issue sending CAR code changes to and from PULSE Platform.
- Fixed a problem that occurred when changing the FRESH date in PULSE Platform.

Genomics Changes

- Several improvements have been made to genomics imports. These include properly setting (or *not* setting) the dam ID, dam reg, maternal grand sire, and sire identifications when the import file says the parentage has changed. Also, logging has been improved and simplified so that now it's easier to see what's been changed by the import, and changes are listed in a separate ImportResults.txt file for later review.
- The optional `\X` switch now allows disabling any parentage changes while still allowing import of the genomic results.

Pocket CowCard Changes

- A problem has been fixed regarding Argentinian and other EIDs starting with zero (0).
- A potential problem has been addressed in which using SETDAY prior to a PCC refresh might have caused the automatic date changes from occurring before the refresh completed.

General Enhancements and Changes

- The US, Canadian, UK, and German sires have been updated with new proofs.
- Germany: Entering a DIED event now prompts for type of death and sends this to the HIT.
- Russia: Commands now properly change when an item name is changed.
- Fixed a problem in some European countries where the breeding technicians could not be changed.
- When an EID (EID, REG1, CREG, etc.) is changed in ENTER, the previous EID is no longer put back into the EID manager.
- Improvements have been made for items shared between DairyComp and PULSE Platform for SmaXtec and SCR.
- Fixed the import of scale weights (TruTest and others) when run on a client.
- Sire item type 190 with an Op2 of 11 now shows the stud name (ALTA, ABS, etc.).
- A minor improvement has been made to the display showing errors or conflicts with items in ALTER.
- The SSF SEND (Agsource, DRMS, Ameliocor, ATA, Canada, etc.) now designates embryo transfer breedings, to allow the DRPCs and CDCB to better track them through the system.
- We improved the `PUTCOW\I` command (the DNC cow transfer) to better detect an internet connection failure. Now it will continue attempting to upload the data until the connection is back up.
- For multi-herd users, we fixed the backup file creation to include the proper setup files from the cowfile folder.
- The `FILEIN\C` command has been improved to properly handle quoted fields in CSV files.
- In the previous release we showed the CAR code description in the CowCard event display for SOLD and DIED. That should have been done for SOLD only, as DIED CAR codes are not always supported. This has now been corrected.
- Fixed a problem in the ALTER-Items command where type 173 did not prompt for all necessary information. Depending on the event, type 173 can show a protocol description, a culture result, or the disposal reason (CAR).

New FAQ: Find Your DairyComp Account and Serial Numbers

Need to locate your DairyComp account number and serial number?

See **Find your DairyComp Account and Serial Numbers** to learn more!

New Help Topic: CowCards

The CowCard is an animal's record in DairyComp and the cornerstone feature of the program; CowCards tell us a great deal about the animal's birth date, sire identification, breeding status, overall health, and much, much more all at a glance. Need some help navigating the many tools and tabs associated with CowCards? See the new **CowCards** reference page to learn more!

New FAQ: Clear CHECK Status

Need to know how to clear the CHECK status from an animal and remove it from a vet list? Let our new FAQ show you how! See **Clear Check (CHCK) Status from an Animal** to learn more.

DairyComp 305 - Version 21.8.0

Release Date: 08/31/21

This release includes significant improvements to CowCare and the PULSE Platform integration, hooks for future embryo transfer capabilities, and overall program performance enhancements. This release also contains several integrations, dozens of bug fixes, and features based on customer requests.

CowCare Enhancements and Changes

- Significantly improved inventory entering.
- Fixed the handling of Shipments vs. Druglots vs. DeliveryDoc.
- Fixed the process for editing drug Units and Route.
- Fixed and simplified (with a checkbox) the CowCare automatic purchase generation.

Cultures Enhancements

- Item type 173 (Remark detail) has been updated to display the Culture Name (such as "S.agalct") when defined with the CULTURE event as the item Op1.

Embryo Transfer Enhancements

- A field is now set in BRED events for embryo implant breedings. For embryos that come from PULSE or from DairyComp, the breeding includes an ETDAM, which is displayed as "ETBRED." The SSF SEND will recognize this and flag the breeding as an embryo transfer in the send file to the DRPC.

PULSE Platform Changes

- Fixed an identification problem in PULSE Platform that occurred when using the PUTCOW command.
- Fixed a problem sending changes to PULSE Platform that occurred when some ALTER tables were modified.

Pocket CowCard Enhancements

- The refresh cache setting (used to speed up PCC refreshes in large herds) is now accessible in the SERVER settings window.

Integrations Enhancements and Changes

- Made various improvements for the Lactanet XML export process.
- Fixed the long lag time in CowCard browsing for SCR activity herds.
- Fixed a problem with Beco milk import caused by a change in the expected Beco file path.
- Fixed a milk import problem for Lely herds using Russian formats.
- Fixed sending submittal data to Zoetis.

General Enhancements and Changes

- Allow defining of the default folder for the GETCOW\I command.
- The August sire proofs for the US have been released and are included in this update.
- A new genomic trait named GRFI (Genomic Residual Feed Intake) has been added to the DNG file.
- Added various foreign translations.
- The program version number now shows in the window when using the STATUS command.
- Events entered with the same event date but with a different protocol are no longer rejected as a duplicate entry.
- Russian herdcodes are now allowable for iTrans.
- Improved ECON\IR projected heifer counts when sexed or male beef semen is used.
- English description CAR codes (e.g., "Low Production") now display for CowCard SOLD events, instead of just numeric CAR Codes.

New Help Topic: Reproduction Codes

Every animal in DairyComp has a Reproduction Code (RC), but do you know their purpose? Did you know than an animal with an RC value of 4 (RC=4) has been bred but does not qualify as "open" or pregnant? See the new **Reproductive Codes** reference page to learn more!

New FAQ: Set Animal Breed

Want to know how to set the breed of the animals on your dairy? **Check out our new FAQ** to learn about the CBRD item, including how to get DC305 to prompt for the breed of new calves during FRESH events.

DairyComp 305 - Version 21.7.0

Release Date: 07/28/21

This release concentrates on bug fixes and feature requests that had been backing up, as well as some important improvements in CowCare, PULSE Platform integration, and speeding up DairyComp overall.

Performance Enhancements

Working toward the new Version 9 cowfile involved changes that caused DairyComp's performance to slow down. This version of DairyComp addresses that issue so that now DairyComp performs as quickly as it ever did in the past.

Additionally, we have sped up the device refreshes to Pocket CowCard, resulting in a noticeable improvement. A further improvement is currently being tested which can speed it up even more, especially for large herds refreshing multiple devices. If you want to test this improvement for yourself, please ask the support team to set this up on your DairyComp system.

Data Integrity and PULSE Platform

- Continued improvements have been made in the synchronization to PULSE Platform, fixing some internal IDs so they correctly synch after XID and restores are performed.
- A problem with CAR codes and vet shortcuts for multi-herd setups has been fixed.
- Some missing activity logging of commands entered in PULSE Platform has been fixed.
- Fixed incoming PULSE Platform entries for countries where commas are the decimal separator—for example, allowing both "3.8" and "3,8" as needed.
- Added Allflex items support for AI flag (HT4AI).
- Added an option to clear all technicians from the TECHs table (`ALTER\14M`)
- Work continues with AgSource to integrate MyDC on PULSE and DairyComp.

CowCare Enhancements

- Added the ability to reconcile inventory quantity values in CowCare.
- Fixed a bug in which CowCare was not properly saving settings after they were changed.
- An issue with the Low inventory highlight has been fixed.
- The setting for using auto-generated purchases has been changed.
- Fixed reports to show the proper drug lot and delivery document.
- More translations for foreign users have been added.
- An updated master drug file is being released in this version, which also fixes the option for viewing drug labels.

Other Fixes and Improvements

- A bug introduced in the last release involving remarks in commands (e.g., Automast commands) and for remarks that present a menu selection has been fixed.
- Support has been added for the SmartISO requirement for Argentina.
- AFI MSEND now allows for longer IDs for the Group and Tag fields in cow2_upda.dat.
- A backend change caused some disruptions to the iLoop file transfer process. This issue has been resolved.
- An issue caused vetcodes in the ALTER command to fail if there was a blank constraint. This issue has been fixed.
- The default EID item can once again be used as a milk transponder item.
- Fixed allowing Bred technician numbers over 128.
- In EVENTS command listings, the PEN now shows the pen as of the event date, not the pen the animal is currently in.
- Support has been added for the following new fields in the AgriTech DNI Index files:
  - PTAT: PTA Type
  - UDC: Udder Composite
  - FLC: Feet and Legs Composite
  - REGST: Registration Status
  - RHPCT: RHA Percent
  - LI: Lineage
  - CLASS: Classification Scores
- Added support for beta-casein A2 (BCA2) test results in Jersey's DNI file.
- An issue caused the CONNECT\IU command (i.e., the nightly backup) to add multiple tasks to the Task Scheduler when connections failed. This issue has been fixed.
- When a calf is born as a result of an ET breeding, the ETDAM item on the calf is automatically set to the donor ID. An option called *Set ETDAM to dam on ET calves* has been added to the ALTER Dairy Info command for customers who want to turn it off.
- Improved automatic adding of items for the Dry Cow Therapy option.
- Removed the ability to accidentally assign a system item (like FDAT or CDAT) to a PCC scan item.

DairyComp 305 - Version 21.6.0

Release Date: 06/28/21

This release primarily addresses several maintenance issues involved in synchronizing DC305 with the PULSE Platform. Significant improvements have been made in keeping data between DC305 and PULSE Platform properly matched. These improvements and fixes are listed below.

DC305 Base Program Changes

- An unexpected expiration message has been removed from PLCLIENT.
- Do Not Breed (DNB) events are now properly written to the activity log when selected in ABORT.
- A problem has been fixed that occurred when clicking the notification icon that appears when a new version is ready to be installed.
- An issue has been fixed that caused ISO IDs from Morocco to display improperly.
- The conflict display of CULTURE result between MOLD and Gram+ Bacillus has been fixed.
- BRED sire selection when using SIR5 (last 5 sires) has been fixed.
- Animal updates in Lely have been fixed.
- A problem with beef withdrawal dates being erroneously set for archived animals has been fixed.

PULSE Platform Changes

- Identification problems caused by using the Change ID (XID) event to change primary IDs has been fixed.
- Problems caused by deleting mistaken SOLD and DIED events have been fixed.
- Problems caused by erasing mistaken FRESH entries have been fixed.
- The movement of cows between cowfiles using GETCOW and PUTCOW commands is now being properly handled.
- The process of applying changes to protocols and other items changed within PULSE Platform has been improved.

CowCare Enhancements

- An issue that caused the Inventory button to disappear has been fixed.
- The delay that occurred when selecting a protocol has been removed.
- An issue with CowCare inventory duplicates has been fixed.
- The speed of the CowCare search process has been significantly improved.
- An issue with subtracting drug lot quantities from the correct drug lot has been fixed.
- Users can now choose both the lot document and the delivery document (instead of just the lot document).
- Text input has been added to drug lots to allow users to update the delivery document at any point, rather than just when a shipment is recorded.
- The method by which users choose drug lots has been improved. Now, a multi-field drop-down is used to help users make a better choice.
- When modifying shipments and/or drug losses, users can define both the drug lot and delivery document (instead of just the drug lot).
- Reports have been changed to use the drug lots delivery document instead of the shipment delivery document. Now, the field from drug lots is the one that gets used and updated. The shipment delivery document is only updated once (upon creation). The following reports were updated:
  - Inspector Report
  - Drug Usage by Delivery Document
  - Purchase/Shipment History

New! CowVal Help Content

The DC305 Reference Guide now includes complete online help content for CowVal, a powerful tool for estimating the value of each adult animal in your herd. Our new comprehensive online help will teach you everything you need to know to get started! See **CowVal (Cow Value)** to learn more.

New! CowCare Help Content

Full online help for CowCare has now been added to the DC305 Reference Guide. CowCare is a dedicated veterinary tool for managing the drugs and treatment protocols for your herd. To check out our easy to use instructions, click **CowCare**!

New FAQ: Manage Disposal Codes

The disposal codes you assign to sold animals can easily be updated as needed. See our **new FAQ** for all you need to know about changing and adding disposal codes!

New FAQ: Fix Client/Server Communication Problems

Having trouble establishing communications between your DC305 client or Pocket CowCard and the DairyComp server? Our new FAQ has some simple steps you can take to try and solve the problem. See **Fix Client/Server Communication Problems** to learn more.

New FAQ: Fix a FRESH Event

Have you mistakenly entered a FRESH event and want to know how to remove it? Let our new FAQ show you the right way to correct this common problem! See **Fix a Fresh Event** to learn more.

New Help Topic: Customize the Menu

We've answered some of your most frequently asked questions about customizing your menu in DairyComp 305! You can add commands to the menu, edit existing commands, or rearrange commands to best fit your dairy's needs. See the new **Menu Customization** reference page to learn more!

New Help Topic: Generate Reports

Find the answers to your **most-asked questions about reports** in one, convenient location: the new **Reports** reference page! Visit the new page to learn how to run a report in the command line, run a report from the menu, or some command line basics!

DairyComp 305 - Version 21.5.0

Release Date: 05/25/21

General Enhancements

- New User Management security lockout: The ability to block the INVOICE command to user levels has been added to the User Management feature. (DC-3057, DCSD-643)
- Improved sorting of event technicians: Users can now control the order in which event technicians are prompted for selection. (DC-3004, DC-1075)
- Increased command length limit: Commands entered into DC305 can now exceed 255 characters. This is helpful when additional characters are needed, such as in ITRANS commands. (DC-2897, DCSD-808)
- New genomic trait added: A new genomic evaluation trait, item name GJNS, has been added to be imported from the DNG file. The description for this trait is "Jersey Neuropathy with Splayed Forelimbs." (DC-2824)

PULSE Platform Enhancements

- Issue involving archives animals: An error occurred in which archived animals were listed as active in the PULSE Platform. This issue has been addressed. (DC-3065)
- Deletion issue: An issue has been corrected that caused problems deleting from PULSE Platform. (DC-3042)
- Data synchronization improvements: Various improvements have been made in synchronizing data between DC305 and PULSE Platform. (DC-3013, DC-2989, DC-2986, DC-2985)
- Fix for damaged PLA/PLB files: Separate users reported damaged PLA/PLB files due to power outages. These issues were investigated and solutions implemented to increase security going forward. (DC-2995, DCSD-902, DC-2990, DCSD-899)
- Data clean-up: A user reported unusual special characters being sent to PULSE Platform. The data required clean-up and this issue has been resolved. (DC-2987, DCSD-891)
- Duplicate animal records: An issue has been addressed involving duplicate animal records on the initial load. (DC-2969, DCSD-880)

CowCare Enhancements

- CowCare timeout setting added: A new setting has been added that allows users to close CowCare after a specified period of inactivity. (DC-3053)
- Inventory adjustment issue: It was reported that entering certain purchases and drug losses erroneously affected inventory for that drug. This issue has been addressed. (DC-3056, DCSD-946)
- Check Past Usages button removed: The **Check Past Usages** button has been removed from the Drug Usage window. (DC-3051)
- Delivery document now editable: Users now have the option to change the delivery document and drug lot from the Drug Usage window. (DC-3025)
- Prescription numbers on drug history reports: A new **Prescription** field has been added to allows users to add prescription numbers to drug history reports. (DC-3024, DC-3018)
- Additions made to Inspector reports: Prescription numbers and delivery document numbers can now be added to Inspector reports. (DC-3023, DC-3022)
- Prescription numbers added for new purchases: Users now have the option of including a prescription number when adding a new purchase. (DC-2919, DCSD-827)
- Inventory start-up issue: An issue has been resolved that caused CowCare inventory to start up slowly. (DC-3002)
- Protocols window change: The **Accept the withdrawal values** checkbox now only appears in the Protocols window when CowCare is enabled. (DC-2922)
- Drug inventory issue addressed: It was reported that a drug loss added to the system did not deduct properly from the drug inventory. This issue has been addressed. (DC-3021, DCSD-926)
- New purchase issue addressed: An issue was reported in which new purchases of a specific drug failed to process correctly. This issue has been addressed. (DC-3019, DCSD-924)
- Protocol editing issue: An issue has been corrected that caused difficulty in editing protocols. (DC-3017, DCSD-919)
- Issue viewing newly added drug lots: A user reported trouble viewing a newly added drug lot. The issue was investigated and addressed to the user's satisfaction. (DC-2838, DCSD-760)

Integrations Enhancements

- Lely API enhancement: Synchronization with the Lely API has been improved. (DC-3060)
- Allflex item mapping enhancement: The item Heat Alert Breeding Window (HTHAI) has been added to the Allflex configuration settings. (DC-3047)
- Hoof Supervisor fixed for Italian herds: A fix has been made to allow Hoof Supervisor data to be imported into Italian herds. (DC-3043)

Pocket CowCard Enhancements

- PCC PIN code validation: DC305 now supports the entry of numeric PIN codes to control who can refresh their devices. This change only applies to PCC Android users and does not affect Windows Mobile users. To see this option, enter `SERVER\3` in the command line to open the Server Configuration window and then select the PCC Pin Codes tab. Look for updates about this feature in the **PCC Release Notes** to learn more. You can also view a video about this feature **here**. (DC-2902, DCSD-422, PCC-880)

Bug Fixes

- Fixed graphing error: An error caused protocols to fail to display in EGRAPH. This error has been fixed. (DC-3067, DCSD-956)
- Corrected technician selection issue: An issue has been fixed that caused problems when trying to choose and move technicians in the Technicians and breeding codes window. (DC-3052, DCSD-945)
- Fixed manual entry of AutoMast Culture results issue: An issue caused the wrong treatment protocol to be assigned to animals when manually entering AutoMast Culture results. This issue has been fixed. (DC-3048, DCSD-944)
- Addressed Bred Hour display problem: An issue has been fixed that caused Bred Hour to fail to display in the activity log. (DC-3039, DCSD-921)
- Fixed GZABT trait loading error: An issue caused the GZABT trait to follow to update when the DND file was loaded from VAS iLoop. This issue has been addressed. (DC-3028, DCSD-930)
- Fixed milk units update issue: An issue has been corrected that caused milk units to fail to update correctly. (DC-3026, DC-2984)
- Corrected item description save problem: An issue caused item descriptions to fail to save in a cowfile version 5. This issue has been corrected. (DC-3016, DCSD-928)
- Addressed issue in LAME graph: An issue has been fixed in which the LAME graph failed to properly show protocols. (DC-3007, DCSD-914)

New Help Topic: Pen Management

We've answered some of your **most frequently asked questions** about working with pens in DairyComp 305! You can add, modify, and delete pens, set up pen capacity, and even move an entire pen of animals to another pen. See the new **Manage Pens** reference page to learn more!

New FAQ: Add Test Day Data

Do you need help loading the test day data for your dairy into DC305? Our new FAQ provides an overview of the process and walks you through the different options available. See **Add Test Day Data** to learn more!

New FAQ: Managing DC305 User Accounts

If you need help adding, editing, or removing your user accounts, or if you're not sure how to define user access levels, check out this new FAQ: **Set Up and Manage Users**

New FAQ: Load EIDs into the EID Manager

Do you have a list of Electronic IDs (EIDs) that you want to add to DairyComp? See the new FAQ to find out how to add your EIDs to your EID manager: **Load Electronic IDs (EID)**

New FAQ: Change Font in Printed Reports

Did you know you can customize the font for your normal and compressed reports? See the new FAQ to find out how to change your font settings, and learn the difference between normal and compressed reports: **Change Font in Printed Reports**

DairyComp 305 - Version 21.4.0

Release Date: 04/08/21

General Enhancements

- SEND\X command update: The SEND\X command now generates a standard set of batch files, regardless of herdcode. These batch files are now correct for uploading to the regional anagraphical system (BDR) for all regions of Italy. (DC-2949, DCSD-847)
- Improved client/server integration between 2x and 3x systems: An improvement has been made to allow DairyComp to more seamlessly interact when sending milk weight data from clients to servers with different time in milk settings (i.e., 2x vs. 3x). (DC-2945, DCSD-838)
- Improved Italian treatment book reports: Reports provided in the Italian treatment book have been modified to improve the accuracy and readability of data. (DC-2920)

Bug Fixes

- Corrected problem of duplicate commands: An issue caused duplicate commands to be uploaded to VAS PULSE Platform. This issue has been resolved. (DC-2974, DCSD-881)
- Fixed GETCOW issue: Addressed an issue that caused an error when using the GETCOW command to retrieve an animal from the archive. (DC-2970, DCSD-851)
- Fixed EVENTS error: A problem has been fixed in which an error message displayed when issuing an EVENTS command. (DC-2968, DCSD-868)
- Addressed FTECH issue: An issue involving milking times with FTECH has been addressed. (DC-2965, DC-2913)
- Corrected lactation data error: An issue caused incorrect lactation data from DairyComp to be uploaded to VAS PULSE Platform. This issue has been corrected. (DC-2958)
- Fixed items anomaly: An issue caused items on CowCards to display intermittently. This issue has been fixed. (DC-2957, DCSD-855)
- Fixed PTA calculation issue: An issue with PTA calculation caused sires to not be in the database. This issue has been resolved. (DC-2956, DCSD-248)
- Repaired twin animal ID issue: An issue has been corrected in which a previously deleted animal ID in DairyComp resulted in a VAS PULSE Platform error. (DC-2935, DCSD-832)
- Fixed CowCare inventory problem: An issue caused CowCare inventory functionality to become disabled. This issue has been fixed. (DC-2876, DCSD-777)
- Fixed CowCare not ready message: An issue has been fixed that caused a "CowCare not ready" message to display when working with DC305 protocols. (DC-2809, DCSD-724)
- Corrected lactation number issue: An issue has been fixed involving the editing of double-digit lactation numbers. (DC-2808, DCSD-724)
- Fixed CowCare inventory totals: An issue has been corrected that caused incorrect inventory totals to display in CowCare. (DC-2575, DCSD-616)

New FAQ: How to Run a Report from the Menu

You may know how to **run reports in the command line**, but did you know that you can also run reports directly from the menu, too? See the new **Run Report from Menu** FAQ to find out how!

New FAQ: Working with Backups

Have you ever wondered how you can manually save a backup, schedule an automatic backup, or even create a backup file in the first place? Then visit the new **Working with Backups** topic to find the answers!

New FAQ: Edit Sire Info

Did you know you can edit your Sire information in your CowCards? See the new FAQ to find out how to enable editing: **Edit Sire Info**!

DairyComp 305 - Version 21.3.0

Release Date: 03/15/21

General Enhancements

- Improved DNL data loading between lactations for Lactanet herds: Loading a new DNL file for a Lactanet herd now clears the data from the previous lactation, removing the need to do so manually. (DC-2708, DCSD-483)
- Updated PODAT logic: The logic involved when uploading the Preg/Open date (PODAT) when a cow is aborted in bullpen has been updated. (DC-2709, DCSD-396)
- Improved communication with Lely integration: The synchronization of data when saving an animal has been improved when using the Lely integration, eliminating the need to first "transfer out" the animal. (DC-2678)

CowCare Enhancements

- CowCare failed to show all premises: It was reported that CowCare failed to show all available premises for a dairy. The issue was traced to a Windows setting and has been resolved. (DC-2857, DCSD-764)
- Lot numbers and sorting: On the Drug Usage page, sorting for the Event column has been improved, and the Lot ID can now be edited. (DC-2801, DCSD-596)
- CowCare drug manufacturer field added: When adding a drug to CowCare, users can now select the drug's manufacturer from a new drop-down menu. This improvement will speed up and improve data entry. (DC-2634, DCSD-617)

PULSE Platform Enhancements

- Missing records in VAS PULSE Platform: An error occurred when attempting to restore Sold/Died animals after reloading herdfiles on VAS PULSE Platform, leading to missing animal records. The system has been updated to address this issue. (DC-2862, DCSD-771)
- VAS PULSE Platform worklists failed to generate: DairyComp failed to properly generate worklists containing animals with Platform IDs that were incorrectly loaded from VAS PULSE Platform. (DC-2861, DCSD-774)

Bug Fixes

- Corrected problem viewing TRACE records: An issue has been resolved that caused the Review Traceabilty tab of the TRACE module to not show current records to be reported. (DC-2870, DCSD-751)
- Corrected wrong registration value suggestion: A problem has been fixed in which DairyComp suggested the wrong registration value when entering new calf data. (DC-2867, DCSD-779)
- Fixed printing errors related to paper sizes: Addressed an issue in which the last version of the dcwin.exe file caused intermittent paper size issues when printing. (DC-2827, DCSD-756)
- Corrected error displaying different breeding technician names: Resolved an inconsistency in the names of breeding technicians displayed by the system between the latest version and previous versions. (DC-2770, DCSD-723)
- Repaired incorrect TRACE module event dates: An issue has been fixed that caused animals entered into DairyComp using the `ADD` command to be recorded in the TRACE module with the wrong event date. (DC-2778, DCSD-732)
- Fixed incorrect milk weights for 2x cows in 3x herd: Incorrect milk weights were reported for cows being milked 2 times daily in a herd where other cows were milked 3 times daily. This calculation error has been fixed. (DC-2783, DCSD-658)
- Fixed incorrectly reported milk weights: A calculation error caused milk weights to be reported incorrectly for herds in Germany. This calculation error has been fixed. (DC-2784, DCSD-548)
- Repaired CLEANUP command data errors: Running the CLEANUP command on DairyComp v7 cowfiles caused errors in some ALTER data elements. The problem was traced to a particular cowfile sorting method and has now been repaired. (DC-2894)

New FAQ: How to Add Commands to the Menu

Did you know your DC305 menu is highly customizable? You can add your most commonly run commands and reports to it so that anyone in your dairy can run them quickly and easily with a couple of mouse clicks! See the new **Add Commands to the Menu** FAQ for instructions!

New FAQ: How to Add New Events to DC305

DairyComp 305 allows you to create and save custom events that are specific to your dairy. See the **Define Custom Events in DC305** FAQ to learn how!

New FAQ: How to Set up Pen Capacity

This is a common task that is easy to perform! See the new FAQ for instructions.

New FAQ: How to Refresh a DairyComp Client

Has your DairyComp client stopped communicating with your DairyComp 305 server? VAS Support is often asked for help with this issue! Check out the solution in the new **Refresh a Client** FAQ!

New FAQ: Confirm that DairyComp is Backing Up to the Cloud

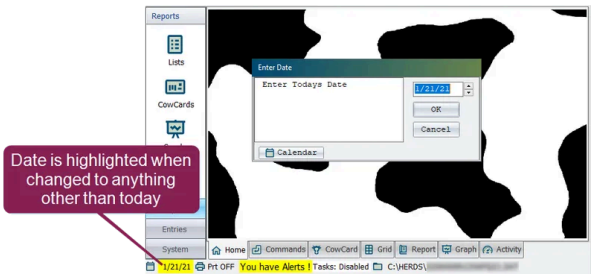
Do you know whether your DC305 data is scheduled for regular back-up? The VAS Support team has some quick steps you can take to be sure! See this new FAQ for more information about this solution, as well as other answers for your most-asked questions about backups: **Backups FAQ**!

DairyComp 305 - Version 21.2.0

Release Date: 01/27/21

General Enhancements

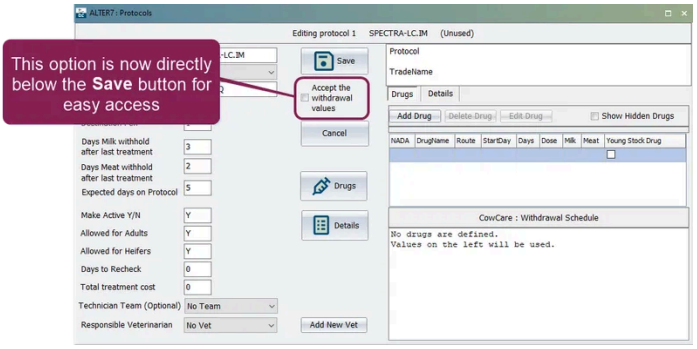
- Improved sire name display in BREDSUM report: We expanded the width of the sire names column in the BREDSUM report so that it does not truncate the names. (DC-2735, DCSD-701)
- Highlight on current DC305 date: When you set the DC305 current date to any day other than today, that date is now highlighted in yellow at the bottom left of the screen as a visual warning that it is not the current date. (DC-2735, DCSD-701)



- Expanded the number of lines in an INVOICE: To accommodate larger herds and multiple sites, we updated DC305 invoices to include more lines in one invoice. (DC-2665, DCSD-671)
- Adjusted SUM column width: We have adjusted the 1st column of the SUM report to fit the full width of the contents (rather than truncating it). (DC-2642, DCSD-356)
- Added CLEANUP command switch for died/sold animals: You can now type `CLEANUP\E` in the command line to clean your archived died/sold animal records. This is a shortcut to running the CLEANUP command and then clicking the **Fix missing Sold/Died Cows** button in the Cleanup dialog box. (DC-2604, DCSD-356)
- GUIDE now available in French: A French translation for the GUIDE is now available. (DC-2604, DCSD-294)

CowCare Enhancement

Usability improvement for editing protocols: When you are editing a CowCare protocol, you can now find the **Accept the withdrawal values** checkbox at the top of the page, directly below the **Save** button.



Lely Integration Enhancements

- Revised processing for transferred animals in T4C: We have updated the system to ensure that animals that are set as "transferred" but are still on the farm are able to be saved via the Save-Animal command. (DC-2604, ISD-180)
- Communication with Taurus prevented for Lely API users: If your dairy has converted to using the Lely API, DC305 will no longer send data to Lely through Taurus. If you want to revert back to sending through Taurus, you can change the setting in `SETMILK\INSTALL`. (DC-2172)

Enhancements for Bull Records

- Updates for adding bulls to events:
  - If a user attempts to add a reproductive event to a bull when it only applies to a female animal (PREG, FRESH, HEAT, etc.), the system now displays a warning prompt that prevents the add. Bulls can still be added to other events that do not impact reproductive status. (DC-2144, DCSD-321)
  - We have updated the system to preserve the RC of an animal when it is added to a DNB event. This ensures that bulls are not mistakenly converted to a heifer in the system if the animal is sold and restored. (DC-2142, DCSD-313)
- Updates for restoring bull records: When restoring the record for a bull that was previously set as SOLD, the system now checks for whether the animal is RC=8 (indicating that it's a bull), and if so, it preserves that setting rather than restoring the animal to RC=0 (indicating that it is a female restored to the herd). (DC-2033, DCSD-269)
- Updates for restoring freemartin records: When restoring the record for a freemartin that was previously set as SOLD, the system now retains the animal's RC=1 setting (NO BRED) instead of converting her to RC=0, which indicates that she can be bred. (DC-1717, DC-1884)

New FAQ: How to Delete a Test Date

VAS Support is often asked how delete a specific test date from an animal's record. Check out the new **Delete a Test Date** FAQ for instructions!

Bug Fixes

- Corrected COWVAL heifer count: Repaired an issue that caused bulls to be included in the COWVAL heifer count. (DC-2742, DCSD-682)
- Repaired CHKFILE report format: Repaired an issue that caused data to display in the wrong columns when adding attributes to the CHKFILE report. (DC-2706, DCSD-699)
- Corrected EGRAPH display when double-clicking to view details: When you double-click on the values in an EGRAPH report, the system now displays the correct detailed data. (DC-2539, DCSD-584)
- Repaired report time format: The system now displays the report time in 12-hour AM/PM format. This fix applies only if you use the SETUP option to show the time on your reports. (DC-2573)
- Repaired date format in the Alter 6 grid: Updated the Alter 6 grid to display dates in the standard DairyComp format, with no leading zeros. For example, January 3, 2021 is now displayed as **1**/**3**/21 rather than **01**/**03**/21. (DC-2688, DCSD-680)

DairyComp 305 - Version 20.11.0

Release Date: 01/04/21

Genomics Enhancements

- Updated and calculations for DNG file import: DC305 has been updated to support the current JPI and JUI formulas.

  > **IMPORTANT:** You must reload your genomics to apply the correct values from these calculations.

- Support for , , and genomic trait imports: We updated DC305 to import the new HLV (Heifer Livability), FS (Feed Saved), and MSP (Milking Speed) genomic evaluation traits that the is adding to the DNG file in December 2020.

Bug Fixes

- Repaired CowCare inventory duplication: The system no longer creates a new inventory item when you create a new protocol. (DC-2630, DCSD-655)
- Repaired "no internet" message: The system no longer displays an incorrect error message saying that the user is offline. (DC-2616, DCSD-652)
- Restored check for milkweights with unsuccessful milkings (Lely Integration): DC305 now properly checks to see if there are milkweights in unsuccessful milkings so that they are not skipped. (DC-2612, ISD-172)
- Fixed lactation card printing issue: When printing lactation cards with Exam\7, the system no longer prints the previous cow's lactation graph on the 2nd cow's card. (DC-2594, DCSD-613)
- Updated the EGRAPH legend: Improve the ability to The legend that describes the colors and items in an EGRAPH now shows proper names when graphing item type 65. (DC-2538, DCSD-599)
- Repaired display of tech name in events: If a technician's name is defined in the DC305 technician table, the tech's name is now properly displayed in events instead of the tech number. (DC-2505, DCSD-590)
- Repaired BULLPEN date for bulls: When a bull is placed into a bullpen, that animal no longer gets an HDAT assigned to it. (DC-2143, DCSD-306)
- Removed unnecessary SEND\X prompts (for Italian herds only): We repaired the SEND\X command to prevent additional prompts. (DC-2640, DCSD-666)
- Updated system logic for sending twin data to the Platform: DC305 now sends all data for twin animals to VAS PULSE Platform, rather than dismissing additional twin animals as duplicates. (DC-2578, DCSD-628)

New FAQ: How Do I Restore the Record for a Sold or Died Animal?

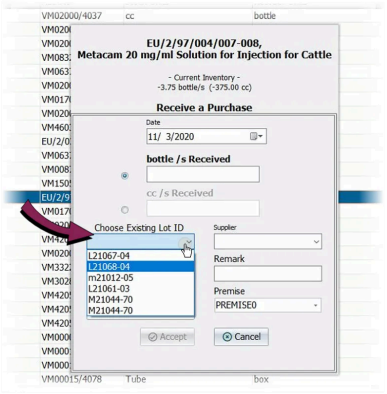
Learn how to restore a record for a SOLD or DIED animal: VAS Support is often asked how to restore the record for an animal that is still on your dairy but has been marked as SOLD or DIED. Check out the new **Restore an Animal Record** FAQ for instructions!

DairyComp 305 - Version 20.10.0

Release Date: 11/11/20

CowCare Enhancements

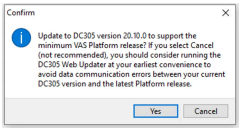
- The CowCare inventory module was updated in the following areas:
  - CowCare inventory totals now round to the nearest tenth. (DC-2530, DCSD-578)
  - Repaired an issue that caused the system to hang when changing inventory values. If you receive an error message when changing inventory values, the system now allows you to close out of the message and accept your updates. (DC-2554 , DCSD-605, DCSD-627)
- Repaired processing error when approving pending changes: When you open CowCare Protocols, approve pending changes, and then exit CowCare, the system no longer gets stuck in a processing loop. It processes your changes and closes properly. (DC-2523, DCSD-594)
- Repaired the Lot ID field: The drop-down menu in the Lot ID is now displayed properly again (DC-2580, DC-2583, DCSD-631).



- Ability to designate an alternate item type for the animal's permanent ID number: To accommodate herds that do not always use item type 5 (EID) to define an animal's ID, we added the ability to specify the animal's permanent ID value as either **EID**, **REG**, or **REG1**. (DC-2581)
- Repaired server-to-client sync on the Protocol table: Repaired an issue that prevented DC305 client machines from receiving server updates on the CowCare Protocol table. (DC-2575, DCSD-616)
- Restored the ability to add drugs to an ad-hoc protocol: When you attempt to add a drug to a user-defined protocol in the Protocols table, the system no longer triggers an error message that prevents you from proceeding. (DC-2555, DCSD-608)

Other Enhancements

- New prompt when a DC305 update is required to support updates in the VAS PULSE Platform: We have improved the message that DC305 displays when an update is required to support the latest VAS PULSE Platform (see below). We have also updated the system to automatically proceed with the update when you select **Yes**.



- Client updates remain in sync with server updates: We updated the DC305 client updater (DCLaunch.exe) to ensure that DC305 client versions are updated when the DC305 server is updated to a new version. (DC-2482, DCSD-563)
- Increased the number of milking schedules in FTECH: FTECH now allows 12 milking schedules instead of 6. (DC-1668)
- Expanded the Lactanet RECEIVE command: The RECEIVE command for Lactanet cowfiles (cowfile type =14) now imports the following additional data (DC-2378, DCSD-483):
  - MEFAT: Current 305 ME Fat
  - MEPRO: Current 305 ME protein
  - STDM: Last test day Standard milk (kg\d)
  - DPD: Dollars per day of life
  - M365: Current 365 day Milk (kg)
  - F365: Current 365 day fat (kg)
  - P365: Current 365 day protein (kg)
  - MVAL: Current lactation milk value

Bug Fixes

- Repaired the ability to edit incorrect Premises ID: Resolved an issue that prevented users from editing incorrect Premises ID for Canadian herds. (DC-2582, DCSD-630)
- Repaired Afi MSEND: The system has been updated to support 3-digit pen numbers when executing an MSEND \H command for the AfiMilk integration. The system response no longer deletes the last digit from the ABORT date. (DC-2532)
- Repaired SUM command for item type 145: When you run a SUM BY command for item type 145, the system now correctly displays the associated technician. (DC-2494, DCSD-574)
- Added support for alternate decimal symbols in the Smartbow/DC305 integration: Updated the system to support regional data values that use alternate decimal formats (for instance, a comma "," instead of a decimal "." symbol). (DC-2525, ISD-160)

New DC305 Online Help!

Welcome! Browse the sections below to learn more about DairyComp 305, as well as what's new in DC305, Pocket CowCard, and FeedWatch (on-premise)!

See the topics below to learn more!

- What's New in DC305 and PCC (this topic): Check here for the latest DC305 and PCC Release Notes.
- **DC305 Support FAQs:** Check out the most Frequently Asked Questions (FAQs) from the VAS Support team!
- **New DC305 Reference Guide:** We'll use this page to post reference topics for commonly used DC305 features. Check out the first one here: **Command Line**!

DairyComp 305 - Version 20.9.0

Release Date: 10/08/20

Enhancements

- Ability to pass decimal dosages to CowCare: When you enter a drug dosage as a decimal in the remark (REM) of an event, CowCare can now receive that value from the DC305 event remark. Previously, CowCare could only receive drug dosages as whole numbers. (DC-2464, DCSD-558)
- Ability to calculate BREDSUM and EGRAPH before the EDAT: By default, BREDSUM and EGRAPH only calculate events that were recorded on an animal's record after its Enrollment Date (EDAT). You can now use the new \K switch for EGRAPH and the \H switch for BREDSUM to include data from before the EDAT. (DC-2407, DCSD-476)
- SDCT tab added to Guide: For users who have SDCT (Selective Dry Cow Therapy) enabled, you will now see a SDCT tab in the Guide. (DC-2267)
- DairyTrace reporting for Canadian dairies: DC305 now allows reporting to the DairyTrace database. (DC-2245, DCSD-387)
- DC305 event edits now synchronize with the Platform: We improved system logic to allow events changed in on-premise DC305 to be updated in the Platform. (DC-1930, DC 1931, DC 1932, DCSD-233, DCSD-234, DCSD-240)
- Lely/DC305 Integration updated to prevent SETMILK date change: For Lely API integrations with DC305, a new \S switch is now available in the MILK command to address the situation where an additional parlor's milk integration imports milk weights. The \S switch prevents milk weights from being imported with today's date until the final shift of the milk parlor for yesterday is completed. (DC-2391, ISD-141)

Bug Fixes

- Repaired ECON\H item mapping: When you run ECON\H and proceed with option 4 (Import Easy Registration File), the item mapping selections (REG, SREG, DREG, etc.) are now visible again. (DC-2501, DCSD-591)
- Repaired ability to edit a protocol description: Restored the ability to edit a protocol description for that protocols that are in use. (DC-2481, DCSD-562)
- Repaired Monitor\C printing: Repaired a bug that prevented the MONITOR report from printing correctly in compressed format. (DC-2472, DCSD-535)
- Repaired missing DC305 IDs in Platform: Improved the DC305-to-Platform initial load to ensure that all DC305 IDs are properly uploaded to the Platform. (DC-2462, DCSD-560)
- Repaired UK sire names: Repaired an issue that caused some incorrect sire names in the UK sires file. (DC-2452, DCSD-550)
- Repaired a TRACE data bug: DC305 now correctly receives TRACE data for animals that are entered through a FRESH event on the client. (DC-1618)
- Repaired an issue for the Boumatic Integration specific to dairies with 4 milking cycles: DC305 now properly loads milk for the 4th milking from Boumatic Robots. (DC-2496, ISD-153)
- Repaired sendpar to afi: Repaired an issue that caused sendpar to cause an error in the afi when animals that were XIDed had the same previous ID. (DC-2490, ISD-577)
- Repaired DC/ICE cow alert (Send to Cow alert was unsuccessful): Repaired an issue that caused all sending in the ICE interface to fail. (DC-2477, ISD-151)

DC305 - Version 20.8.0

Release Date: 09/08/20

New Feature! CowVal 1.5

This DC305 update delivers some exciting enhancements to the CowVal feature!

 For herds that are cross-bred or that contain multiple breeds, we are aware that it was difficult to base a CowVal score on quantity alone. With the CowVal 1.5 update, you'll continue to see details on the quantity of the milk produced, but now when you run COWVAL\F, you'll also receive information on **Milk Fat** and **Milk Protein**.

Adjusting the current CowVal formula to include Protein and Fat benefits farms that would like to use COWVAL to set a score on their cows, as these components are key values in the milk check.

Read below to learn **what changed** and **how to set up CowVal 1.5**.

What Changed?

CowVal 1.5 takes into account the animal's contribution of **Milk Fat** and **Milk Protein**. As you can see in the example to the right, we have added the **Protein Price** and **Fat Price** to give a value of the components that the animal is contributing. We also have added fields for **Lactation Fat** and **Lactation Protein** values to serve as defaults if a cow doesn't have test day data. The **Mature Equivalent** values are based off of data from your herd; with the use of this formula, we can better compare animals in a multi-breed herd.

How to Set Up CowVal 1.5

To use the new CowVal 1.5 feature, enter the command COWVAL\F and then select **Edit Parameters** to access the updated table. The items used are still CWVAL and PGVAL and will be populated with the new formula. To schedule the recalculation of these items, you can use the command **COWVAL\FG**.

Enhancement: Ability to Change CowCare Drug Names

Added the ability to change a drug's name in the CowCare Inventory. (DC-2350, DCSD-469)

Bug Fixes

- GETCOW\I Protocols importing incorrectly: Repaired an issue to ensure that protocol numbers import correctly with GETCOW\I. (DC-2380, DCSD-375)
- Chinese - Item list from Alter\2: Fixed item name issues when an item is edited in Chinese. (DC 2352, DCSD-475)
- DCTEACH - Protocols do not allow editing and not all features are there: Enabled CowCare on DCTeach and repaired an issue to ensure that protocols can be edited. (DC-2351, DCSD-479)
- Inventories not matching between PULSE Platform and On-Premise DC305: Fixed several issues that were allowing for additional cow records in the PULSE Platform because previous lactations were being flagged as a separate cow. (DC-1934, DC-2357, DCSD-231)
- Platform FRESH entry posting duplicates and XIDs to DC305: Repaired an issue that caused XIDs and duplicate calf IDs when entering a FRESH event on the Platform. (DC-2444, DCSD-514)
- CowCare modify contacts error: Repaired a bug that caused an incorrect warning message and sometimes prevented the use of CowCare.
- Printer and Page header issues: Several printing issues were resolved. (DC-2346, DC-2369, DC-2364, DCSD-488, DCSD-489, DCSD-491)

For release notes prior to August 2020, please see the following pages on the VAS website:

- **DairyComp 305 Release Notes Archive**

- **Pocket CowCard Release Notes Archive**

Most of the work we have done this release cycle has been in the development of our new cowfile 9 version. This contains more space for cow items, and events, and we have expanded the allowable number of event codes, protocols, commands, and most of the ALTER options. Progress has been good, and we've made many improvements based on our early feedback. We are starting to release it for early preview to a subset of our customers.

Pocket CowCard

- We now log entries made on PCC separate from typical transactions. They are no longer defined as "V" transactions. Now, PCC entries are tagged with an "M" for "Mobile" in the default activity logs.

2. throtelling aaaaaha

aaaaa

3. parfum

???? wtfff merge

4. wut is this??

parfum

5. is it working?

6. oooookokokokok

7. ffefefe

8. fffefefefefef

9. ???11111

10. wtfffffffeeeeeo

ee

11. rrrrrrrff

12. dedededeed

13. ???

14. 1

Eleganta, performanta si tehnologie de varfEleganta, performanta si tehnologie de varfaaaaaConducerea acestui elegant scuter cu 3 roți este extrem de simplă și intuitivă.

Yamaha Tricity 125aaEleganta, performanta si tehnologie de varf

hello darlinggg

:D

15. 2

newestEleganta, performanta si tehnologie de varf

16. 3

Eleganta, performanta si tehnologie de varfEleganta, performanta si tehnologie de varf??

slow as fkkkkk

17. 4

Eleganta, performanta si tehnologie de varfsome shiznietaaaaaa

Yamaha Tricity 125Conducerea acestui elegant scuter cu 3 roți este extrem de simplă și intuitivă.

18. ma ce puiaa??

Eleganta, performanta si tehnologie de varfai ma?????and still

19. wtf is working so slowooo????

Eleganta, performanta si tehnologie de varfwtf is working so slowooo

heding bleding

20. yoooo??

yoooo??Eleganta, performanta si tehnologie de varf

21. uunnn

Eleganta, performanta si tehnologie de varf

am un head

22. 1234333

Yamaha Tricity 125 agagagagagagagagagaEleganta, performanta si tehnologie de varf

23. rwrfwerf

Eleganta, performanta si tehnologie de varfA

$$int_{0}^{i}nftyx^{2}dx$$

- **ABDAT**
  Abortionwrfwr date
- **ABT?**
  ABT? is the code for "Abort?" Often if a dairy sees a pregnant animal showing signs of heat they may breed her. When this breeding is entered in DairyComp the animal remains pregnant, but this flag is set so that the veterinarian can determine if she is still pregnant to the original breeding or if she has aborted and should be updated to another "bred status."

24. Glossary

- #Yamaha Tricity 125
  305ME305 day mature herd equivalent
- A
  ABDATAbortion date
- ABT?ABT? is the code for "Abort?" Often if a dairy sees a pregnant animal showing signs of heat they may breed her. When this breeding is entered in DairyComp the animal remains pregnant, but this flag is set so that the veterinarian can determine if she is still pregnant to the original breeding or if she has aborted and should be updated to another "bred status."
- acidosisSub-acute ruminal acidosis (SARA) is a digestive disorder caused by low rumen pH levels (below 5.6) and diets high in starch and low in fiber. Dairy cows experiencing SARA often do not exhibit any obvious symptoms, though some may have mild diarrhea, reduced appetite, foamy feces, and reduced rumination (cud-chewing).
- ADDATAbortion Determination Date
- AFAs fed
- AGEAge in months
- AIartificial insemination
- alterCommand entered to "alter" content or settings in DairyComp. Example: ALTER\7
- ARCArchive
- ARDATArchive date
- B
  BDATBirth date
- BFDATBeef withdrawal date
- BLDATBullpen entry date
- blood serumBlood serum testing in dairy cattle is used to diagnose disease or for pregnancy testing.
- BNAMEBarn name
- bred codeBred Code is short for "Breeding Code."
- Brix valueBrix value is based on a system that uses a refractometer to measure colostral antibodies. PULSE accepts values between 14 and 40. Colostrum with a Brix value above 22 is considered optimal. When a Brix value is lower than 22, dairies may choose to supplement with colostrum replacer.
- C
  CALF1Recent identified offspring
- CALF2Previous identified offspring
- CALF3Oldest identified offspring
- CARCondition Affecting Record. CAR codes are used by DHIA to determine the status of a cow's record. This includes reason for disposal as well as reasons for the record not to be used for sire proofs. The DairyComp CAR table includes the 9 standard DHIA codes and allows users to add 7 additional codes to the table.
- Care PackageVAS uses the term "Care Package" to describe the updates that the Platform "packages up" and sends to the mobile app. The Care Package is used to keep the mobile app updated with the most recent on-premise data received by the Platform.
- CBRDCattle breed

- CDATConception date
- CDCBCouncil of Dairy Cattle Breeding is a non-profit organization that calculates and manages genetic evaluations and genomic predictions for dairy cattle.
- CIDRControlled internal drug release
- CLIVCalf livability
- CNTLComputer number
- COD1Wildcard 1 byte item (0-255)
- COD2Wildcard 2 byte item (0-32000)
- CODAWildcard 1 byte item any character
- colostrumColostrum, the first milk produced by a cow after birth, is high in nutrients and antibodies that provide calves initial protection against disease.
- CONFConfirmation
- cost/tonAs-fed cost per ton
- cost/unitAs-fed cost per unit
- cultureCulture events are typically used to identify the source of mastitis and high SCC testday results.
- CVACCCalf vaccination
- CWVALCow value
- cysticCystic ovaries are a reproductive disorder caused by an anovulatory condition in dairy cattle. Ovarian cysts are characterized by large (1 in./2.5 cm) follicles in the animal's ovaries that persist for more than 10 days. Cystic ovaries may lead to infertility or other reproductive issues.
- D
  DBRDDam breed
- DC305DairyComp 305 - VAS Dairy Management Software
- DCCDays carrying calf/pregnant
- DCCPDays carried calf at pregnancy check
- DDATDry date
- DDRYDays dry
- dehornDehorning is the removal of an animal's horn by methods that destroy or remove the keratin-producing cells and structures at the base of the horn.
- dewormDeworming involves administrating chemical solutions (anthelmintics) to protect cattle from various parasites including worms, fluke, cattle ticks, lice, and flies.
- DHIDairy Herd Improvement
- DHIAThe Dairy Herd Improvement Association (DHIA) is a national association that helps dairy producers create and manage records and data about their cows for use in making management decisions. See **http://www.dhia.org/** for more information.
- diarrheaDiarrhea, or scours, occurs when intestinal fluids are not absorbed appropriately in the intestines. Usually these fluids are mostly reabsorbed and only a small amount is passed in the feces. Anything that affects the intestines' ability to absorb fluid may result in diarrhea. Treatment options vary based on the cause of the diarrhea.
- DIDDam identifier
- DIMDays in milk

- displaced abomasumDisplaced abomasum in cattle occurs when the abomasum, also known as the true stomach, which typically resides on the floor of the abdomen, fills with gas and rises to the top of the abdomen, where it is said to be "displaced". Symptoms may include reduced appetite, lower milk yield, reduced rumination, and a distended abdomen.
- DM%Dry Matter Percentage
- DM/HDDry Matter per Head
- DNBDo Not Breed
- DNLStandard file created by a dairy records processing center (DRPC) that includes the latest status information for each animal in the herd.
- DOPNDays open
- DREGDam USDA or REG number
- DRPCDairy Records Processing Center
- dry matterThe dry weight of an ingredient with no mositure.
- DSLHDays since last heat
- DUEDue to freshen
- E
  EAGEEmbryo Age
- EASECalving ease
- EBRDEmbryo Breed
- ECEvent code
- EDATEnrollment date
- EDAYEvent day
- EID15-digit electronic ID number associated with the animal eartag
- embryo flushEmbryos are harvested by being flushed out of a superovulated cow that has already been bred.
- ETEmbryo Transfer
- ETDAMEmbryo transfer dam
- F
  FCMCurrent fat corrected milk
- FDATFresh date
- freemartinA female that is born as a twin or triplet with a bull and may be sterile as a result of exposure to hormones produced by the male in utero.
- FSFeed Saved (genomic trait)
- FWFeedWatch
- G
  GMTGreenwich Mean Time, also known as Coordinated Universal Time (UTC)
- H
  HDATHeat date
- Health IndexScore based on animal age and cost of events to date. The higher the index value, the more likely the animal should be sold.

- Health Index ThresholdSets the lower limit for index values to include for Health Index Analysis. Animals with an index above this value are included.
- HINTHeat interval
- HLVHeifer Livability (genomic trait)
- HPDATHospital date
- I
  ICARInternational Committee for Animal Recording (ICAR) is a global organization focused on the standardization of animal identification, recording, genetic evaluation, and data management.
- IDIdentifier
- INTThe abbreviation INT has several meanings. Depending on the context within this online help, it means either Interval or Internal.
- IOFCIncome Over Feed Cost
- ISOInternational Organization for Standardization, a global organization that promotes commercial and industrial standards.
- IVFIn-Vitro Fertilization. In relation to embryo transfers, IVF occurs when oocytes (eggs) are collected via OPU (ovum pick up), and then in a lab, semen is added to create embryos.
- J
  JohnesJohnes is a contagious, chronic, and incurable infection that affects primarily the small intestine of dairy cattle and other ruminants.
- JPIJersey Performance Index
- JUIJersey Udder Index
- K
  ketosisKetosis is a common ailment that usually occurs in early lactation, when the energy demands of milk production are very high and the cow metabolizes fat stores for energy. Symptoms of ketosis may include reduced milk yield, weight loss, reduced appetite, acetone smell of breath and/or milk, and fever.
- KPIKey Performance Indicator
- KPIsKey Performance Indicators
- L
  LACTLactation number
- lameLameness includes any abnormality which causes an animal to change the way it walks, and can be caused by a range of foot and leg conditions, including hoof ailments, hock damage, bruising, sores, or cuts.
- LSIRLast service sire
- LTDATLast treatment date
- M
  mastitisMastitis is the persistent, inflammatory reaction of the udder tissue due to physical trauma or infection. Symptoms of mastitis include udder swelling, heat, hardness, redness, or pain. The milk may have a watery appearance, flakes, clots, or pus.
- medianThe value separating the higher half from the lower half of a data set.
- MEFACMature equivalent factor
- metritisMetritis is inflammation of the wall of the uterus, and usually occurs within days of calving. Symptoms of metritis are an enlarged uterus and a foul-smelling uterine discharge.

- milk feverMilk fever is a disease characterized by reduced blood calcium levels. It occurs in early lactation, when demand for calcium for colostrum and milk production exceeds the cow's ability to mobilize calcium. "Fever" is a misnomer, as body temperature during the disease is generally not elevated. Milk fever symptoms include tremor in the muscles of the head and limbs until falling to a "sitting" position. Once down, cows may have a dry muzzle, staring eyes, cold legs and ears, constipation, and drowsiness.
- mixerA piece of farm equipment that mixes all the loaded ingredients for a feed recipe. Mobile mixers are most common, but stationary mixers also exist.
- MKDATMilk withdrawal date
- modeThe value that appears most often in a set of data.
- MSPMilking Speed (genomic trait)
- MTAGMetal tag, or USDA tag number for animals in the United States.
- MUNMilk Urea Nitrogen
- N
  NAABNational Association of Animal Breeders. **www.naab-css.org**
- NADANew Animal Drug Application
- O
  OLDIDOld ID
- oocyteAn unfertilized egg.
- OPUOvum Pick Up
- OVSYNCOvulation synchronization
- P
  PCCPocket CowCard
- PCDATPrevious conception date
- PCTFPercent fat
- PCTPPercent protein/solids not fat
- PCUDTPrevious close-up move date
- PDDATPrevious dry date
- PDIMPrevious lactation days in milk
- PDOPNPrevious lactation days open
- PENPen number
- PFDATPrevious fresh date
- PGVALPregnancy value
- pink eyeInfectious bovine keratoconjunctivitis (IBK), more commonly known as pink eye, is a highly contagious bacterial infection of the eye.
- PMILKThe previous testday's milk value.
- PNPrevious pen
- pneumoniaPneumonia is lung inflammation caused by a bacterial or viral infection. Early symptoms may include fever, depression, reduced appetite, nasal and eye discharge, salivation, shallow breathing, and soft coughing.
- PODATPregnant/open date

- PREGPregnant
- protocolA dairy protocols include a series of treatments or tasks that follow a prescribed order and schedule. Protocols may be defined for reproduction purposes, to treat an illness, or for routine vaccinations.
- PSIRCPrevious lactation sire of conception
- PSTRHPermanent string or pen
- PTAPredicted Transmitting Ability
- PTBRDPrevious lactation times bred
- PTOTFPrevious lactation total fat
- PTOTMPrevious lactation total milk
- PTOTPPrevious lactation total protein/solids not fat
- PVETPrevious vet code
- R
  RACRelease Access Code. This code is provided by AgSource and allows PULSE Platform to access your herd database.
- RCReproductive code
- RC=0Reproductive Code = 0. Used for young calves and heifers that have not been bred.
- RC=1Reproductive code = 1 (NO BRED). Used to identify Do Not Breed (DNB) animals.
- RC=2Reproductive code = 2 (FRESH). Used to identify animals that have recently given birth ("fresh").
- RC=3Reproductive code = 3 (OK/OPEN). Used to identify animals that are eligible to breed. These could be fresh animals that were checked and declared ready to breed or a bred animal that was declared open.
- RC=4Reproductive code = 4 (BRED). Used to identify animals that have been bred but not do not qualify for open or pregnant status.
- RC=5Reproductive code = 5 (PREG). Used to identify animals that have been declared pregnant.
- RC=6Reproductive code = 6 (DRY). Used to identify pregnant animals that have stopped milking.
- RC=7Reproductive code = 7 (SLD/DIE). Used to identify any animal that was sold or has died.
- RC=8Reproductive code = 8 (BULLCAF). Used to identify a male animal that was added to DairyComp.
- RCDATRecheck date
- RCONReconfirmation
- recipeA combination of ingredients used to make feed for animals
- REGAnimal registration number
- RELVRelative value %
- REMRemark or comment
- replacerColostrum replacer is a natural or synthetic product that provides nutrients and antibodies to calves when maternal colostrum is unavailable or of poor quality. It's often used when calves don't nurse from their mother within a few hours of birth.
- retained placentaRetained placenta is the failure to expel fetal membranes within 24 hours after parturition. The primary symptom of a retained placental is degenerating, discolored, and ultimately fetid membranes hanging from the vulva.
- RPROReproductive code
- S
  SCCSomatic cell count

- SCDATLast scan date
- SCMTHLast scan method
- scoursDiarrhea in young animals. Scours causes dehydration in calves and is the leading cause of death in calves under one month of age.
- SCPENLast scan pen
- SCTIMLast scan time
- SFSource farm
- SIDSire identifier
- SIR11st choice mating sire
- SIR22nd choice mating sire
- SIR3Sire preference 3
- SIR4Sire preference 4
- SIRCSire of conception
- SSFStandard Send File. This is a text file with animal event and production information used to provide data to a dairy records processing center (DRPC).
- standard deviationA measure that is used to quantify the amount of variation or dispersion of a set of data values.
- STATDHIA (Dairy Herd Improvement Association) status code
- STFStandard Transfer File. This is a text file provided by a data records processing center (DRPC) that contains a list of your animals, including their IDs, reproduction status, and milk testing records. The STF is most commonly used to transfer records from one animal database to another. STF can also be used in PULSE to import animal data.
- STOCsemen type of choice
- SYDATOvsynch enrollment date
- T
  task listA task list in PULSE and the mobile app is a special type of worklist that is automatically generated for MyDC dairies to capture today's tasks for your herd. The Open Tasks list shows tasks from multiple sources, like your Dairy Protocols and integrations with heat and health partners, and helps you complete all required animal activities for the current day. Task lists include all OvSynch protocols, wellness checks, and any other scheduled tasks.
- TBRDTimes bred
- TDATTest date
- TEATX3TEATX3 identifies an animal as having only 3 functional teats, usually due to mastitis, injury, or a physical deformity. TEATX3 animals require special markings to alert parlor staff to apply milking equipment to only three teats.
- techTech is short for Technician.
- THDTotal sick days
- TODAYToday's date
- TOTFTotal fat this lactation
- TOTMTotal milk this lactation
- TOTPTotal protein/solids not fat this lactation
- TPENTestday pen location

- trimDairy cattle typically have their hooves inspected and, if necessary, trimmed every 4–6 months. A strategic hoof-trimming program might evaluate hooves before first calving, between 60 and 150 days in milk, and before dry-off.
- tuberculosisBovine tuberculosis (TB) is an infectious disease that is caused by the bacteria Mycobacterium bovis (M. bovis).
- U
  UTCCoordinated Universal Time, also known as Greenwich Mean Time (GMT)
- V
  varianceA measure of how far each value in the data set is from the mean.
- VAS-specificA data value that originates from the VAS product line.
- VCVet code
- VCPRVetrinary Client-Patient Relationship
- VDATVet check date
- Vet Code 6 = ABT?Vet Code 6 = ABT? Often if a dairy sees a pregnant animal showing signs of heat they may breed her. When this breeding is entered in DairyComp the animal remains pregnant, but this flag is set so that the veterinarian can determine if she is still pregnant to the original breeding or if she has aborted and is now just another "bred status" cow.
- VETCReason for vet check
- VISIDVisual ID or ear tag number
- VWPVoluntary wait period, or the number of days a dairy chooses not to breed a cow after calving.
- W
  weanA wean event indicates that a calf no longer receives milk for feedings.
- weighbackFeed leftover from the day before, which helps dairies track the actual amount of feed the animals consumed.
- worklistA worklist is a structured list of tasks or animals requiring attention, typically used to organize and prioritize work. In PULSE and the mobile app, worklists identify animals that need to be seen by dairy workers or animal health experts for specific reasons, such as pregnancy checks or treatment in a hospital pen.
- X
  XDATWildcard date item
- XIDXID is short for "Change ID", as in changing an animal's ID number.
- XMASTXMAST is a DC305 item type. It indicates the number of times an animal has had mastitis during the current lactation.
- Z
  ZoneThe term "Zone" represents different dairy locations. Platform Zones may be different physical dairy locations (for example, multiple locations across the state or country) or different user-defined locations within a single dairy site (for example, Pens 1-100 are Zone 1, Pens 101-200 are Zone 2, etc.).

25. untitleddd

dddddd

26. first drawer

Code Section Title 1 JS

Responses

27. Markdown-components

Component Usage

Current Component List

```
Note: Most laravel functions should work in the current component
```

```
As an example
```

`@cannot('admin-company-profile') disabled @endcannot`

would work as

`<x-forms.inputs.textbox name="myComponent" placeholder="This is my placeholder" @cannot('admin-company-profile') disabled @endcannot />`

This would apply to @cannot ability to the control.

Component	Component Tag
Textbox	`<x-forms.inputs.textbox />`
Textarea	`<x-forms.inputs.textarea />`
Button	`<x-forms.inputs.button />`
Checkbox	`<x-forms.inputs.checkbox />`

Syntax	Description	Test Text
Header	Title	Here's this
Paragraph	Text	And more

Textbox

Full Example:

`<x-forms.inputs.textbox type="email" id="texbox-id" name="textbox-name" placeholder="{{ __('Enter email address') }}" value="This is a placerholder" disabled ariaLabel="inputGroup-sizing-sm" ariaDescribe="Aria description" prependText="@" appendText="End Text" tabindex="2" cannot="admin-company-profile" />`

Available Options:

Optional:

- `id` : `id` of the input
- `name` : `name` of the input
- `type` : `type` of the input, i.e. `text, email, phone` *default*: `text`

- `value` : `value` of the input by default, can be used for holding old input on fail.
- Example with old input: `value="{{ old('organization_name', $companyProfile['organization_name']) }}"`
- `placeholder` : Placeholder text
- `disabled` : Just needs `disabled` flag added like a normal HTML input.
- `ariaLabel` : `aria-label` for the HTML element.
- `ariaDescribe` : `aria-described-by` for the HTML element.
- `prependText` : Sets the prepended text of a text field, setting it would add the prepend section.
- `appendText` : Sets the appended text of a text field, setting it would add the appended section.
- `tabindex` : Sets the `tabindex` of the element.
- `cannot` : Sets the gate for the `@cannot` of the element. `i.e. cannot="admin-company-profile"`

`<x-forms.inputs.textarea disabled readonly aria-label="test" data-test="data-test-yo" class="form-control description" id="organization-message" name="organization_message" rows="3" maxlength="250" minlength="3" tabindex="3" placeholder="test" style="resize: none;"> {{ old('organization_message', $companyProfile['organization_message']) }} </x-forms.inputs.textarea>`

Available Options:
Uses all standard options of HTML elements.

Optional:

- `id` : `id` of the input
- `name` : `name` of the input
- `value` : `value` of the input by default, can be used for holding old input on fail.
  - Example with old input: `value="{{ old('organization_name', $companyProfile['organization_name']) }}"`
- `placeholder` : Placeholder text.
- `disabled` : Just needs `disabled` flag added like a normal HTML input.
- `readonly` : Just needs `readonly` flag added like a normal HTML input.
- `cols` : Normal HTML cols attribute: *default*: `20`
- `rows` : Normal HTML rows attribute: *default*: `3`
- `noResize` : Disabled resizing of the textarea.
- `tabindex` : Sets the `tabindex` of the element.
- `cannot` : Sets the gate for the `@cannot` of the element. `i.e. cannot="admin-company-profile"`
- `maxlength` : Maximum allowed length of text.
- `minlength` : Minimum allowed length of text.
- yooo
- ooo
- ooo
- hmm
-

Available Options:

Optional:

- `id` : `id` of the input
- `disabled` : Just needs `disabled` flag added like a normal HTML input.
- `tabindex` : Sets the `tabindex` of the element.
- `icon` : The icon you intend to use, in cases of font awesome. `i.e. fa fa-user` would be what is expected.
- `iconPack` : The icon pack you wish to use with font awesome. i.e. `far, fas, fab`
- `link` : The link flag flips buttons to `a href` type buttons, pass the link as normal: `link="http://www.google.com`

Checkbox

Full Example:

Available Options:

Optional:

- `image` : Adds an image before the label.
- `imageHeight` : Adds an height to the image before the label.
- `imageWidth` : Adds an width to the image before the label.
- `label` : Text for the label of the checkbox.

28. Tabele cu liste - slow doc

Test Case ID	**TC-EDITOR-BUTTON-001**
Test Case Description	Verify that "Button" option is correctly displayed in the "Add blocks" dropdown menu with proper styling and shortcut information.
Preconditions	1. User has a document created and opened. 2. User is in edit mode of the document.
Test Steps	1. Navigate to the document. 2. Wait for the document to fully load. 3. Click on an empty block. 4. Type "/" character to trigger the "Add blocks" menu . 5. Wait for the dropdown menu to appear and verify dropdown is visible. 6. Locate the "Button" option in the dropdown list. 7. Verify the "Button" option is displayed with correct styling.
Expected Results	1. Document loads successfully and is ready for input. 2. "/" character triggers the "Add blocks" dropdown menu. 3. Dropdown menu appears and is visible on screen. 4. "Button" option is present in the dropdown list and has correct syling. 5. "Button" option appears in its default, unselected state. 6. "Button" option appears clickable and selectable.
Comments	
Automation Test Case	**Cypress Test File:** **cypress/e2e/EDITOR/EDITOR_Button.cy.ts** **Test Name:** Should display “Button” option correctly in Add blocks dropdown **Test ID:** AUTO-TC-EDITOR-BUTTON-001

Test Case ID	**TC-EDITOR-BUTTON-002**
Test Case Description	Verify that "Button" block can be created and displayed correctly using the "/" menu selection.
Preconditions	1. User has a document created and opened. 2. User is in edit mode of the document.
Test Steps	1. Navigate to the document. 2. Wait for the document to fully load. 3. Click on an empty block. 4. Type "/" character to open the "/" menu. 5. Wait for the dropdown menu to appear and verify dropdown is visible. 6. Locate the "Button" option in the dropdown list and select it. 7. Verify the "Button" block is created
Expected Results	1. Document loads successfully and is ready for input. 2. "/" character triggers the "Add blocks" dropdown menu. 3. Dropdown menu appears and is visible on screen. 4. Clicking "Button" from "Add blocks" menu transforms the block into a "Button" block. 5. Empty "Button" appears with placeholder text. 6. "Button" block is in editable state and ready for text input. 7. User can immediately start typing to replace placeholder text. 8. Document remains in edit mode.
Comments	
Automation Test Case	**Cypress Test File:** cypress/e2e/EDITOR/EDITOR_Button.cy.ts **Test Name:** Should create “Button” block via "/" menu selection **Test ID:** AUTO-TC-EDITOR-BUTTON-002

Test Case ID	**TC-EDITOR-BUTTON-003**
Test Case Description	Verify that "Button" block can be created and displayed correctly using the "(button)" shortcut.
Preconditions	1. User has a document created and opened. 2. User is in edit mode of the document.
Test Steps	1. Navigate to the document. 2. Wait for the document to fully load. 3. Click on an empty block. 4. Type "(button) + space key" to create the "Button" block. 5. Type a space character immediately after "[]". 6 Verify the "Button" block is created
Expected Results	1. Document loads successfully and is ready for input. 2. "(button) + space key" creates a "Button" block. 3. Empty "Button" appears with placeholder text. 4. "Button" block is in editable state and ready for text input. 5. User can immediately start typing to replace placeholder text. 6. Document remains in edit mode.
Comments	
Automation Test Case	**Cypress Test File: cypress/e2e/EDITOR/EDITOR_Button.cy.ts** **Test Name:** Should create “Button” block via “(button)” shortcut **Test ID:** AUTO-TC-EDITOR-BUTTON-003

Test Case ID	**TC-EDITOR-BUTTON-004**
Test Case Description	Verify that a single character can be typed in a "Button" block and displays correctly.
Preconditions	1. User has a document created and opened. 2. User is in edit mode of the document.
Test Steps	1. Navigate to the document. 2. Wait for the document to fully load. 3. Click on an empty block. 4. Create a new "Button" block using "Add Blocks" menu or "(button) + space key" shortcut. 5 Verify the "Button" block is created 6. Type the "Single Character" text in the "Button" block. 7. Verify the "Single Character" text is displayed correctly in the "Button" block.
Expected Results	1. Document loads successfully and is ready for input. 2. "Add Blocks" menu or "(button) + space key" creates a "Button" block. 3. Empty "Button" appears with placeholder text. 4. User can immediately start typing to replace placeholder text in "Button" block. 5. "Button" block accepts the "Single Character" text. 6. "Single Character" text typed replaces the placeholder text. 7. "Button" block maintains its styling. 8. Document remains in edit mode.
Comments	
Automation Test Case	**Cypress Test File:** **cypress/e2e/EDITOR/EDITOR_Button.cy.ts** **Test Name:** Should accept and display single character in “Button” block **Test ID:** AUTO-TC-EDITOR-BUTTON-004

Test Case ID	**TC-EDITOR-BUTTON-005**
Test Case Description	Verify that a "Button" block can be emptied of all text and handles empty state correctly.
Preconditions	1. User has a document created and opened. 2. User is in edit mode of the document.
Test Steps	1. Navigate to the document. 2. Wait for the document to fully load. 3. Click on an empty block. 3. Create a new "Button" block using "Add Blocks" menu or "(button) + space key" shortcut. 5. Verify the "Button" block is created 6. Clear the placeholder text from "Button" block. 7. Verify the empty "Button" block displays correctly.
Expected Results	1. Document loads successfully and is ready for input. 2. "Add Blocks" menu or "(button) + space key" creates a "Button" block. 3. Empty "Button" appears with placeholder text. 4. User can immediately start typing to clear the placeholder text in "Button" block. 5. "Button" block accepts the clearing of the placeholder text. 6. "Button" block maintains its styling. 7. Document remains in edit mode.
Comments	
Automation Test Case	**Cypress Test File:** **cypress/e2e/EDITOR/EDITOR_Button.cy.ts** **Test Name:** Should accept and display empty "Button" block **Test ID:** AUTO-TC-EDITOR-BUTTON-005

Test Case ID	**TC-EDITOR-BUTTON-006**
Test Case Description	Verify that a single word can be typed in a "Button" block and displays correctly.
Preconditions	1. User has a document created and opened. 2. User is in edit mode of the document.
Test Steps	1. Navigate to the document. 2. Wait for the document to fully load. 3. Click on an empty block. 4. Create a new "Button" block using "Add Blocks" menu or "(button) + space key" shortcut. 5. Verify the "Button" block is created. 6. Type a single word text in the "Button" block. 7. Verify the single word text is displayed correctly in the "Button" block.
Expected Results	1. Document loads successfully and is ready for input. 2. "Add Blocks" menu or "(button) + space key" creates a "Button" block. 3. Empty "Button" appears with placeholder text. 4. User can immediately start typing to replace placeholder text in "Button" block. 5. "Button" block accepts the single word text. 6. Single word text typed replaces the placeholder text. 7. "Button" block maintains its styling. 8. Document remains in edit mode.
Comments	
Automation Test Case	**Cypress Test File:** cypress/e2e/EDITOR/EDITOR_Button.cy.ts **Test Name:** Should accept and display single word in "Button" block **Test ID:** AUTO-TC-EDITOR-BUTTON-006

Test Case ID	**TC-EDITOR-BUTTON-007**
Test Case Description	Verify that multiple words can be typed in a "Button" block and displays correctly.
Preconditions	1. User has a document created and opened. 2. User is in edit mode of the document.
Test Steps	1. Navigate to the document. 2. Wait for the document to fully load. 3. Click on an empty block. 4. Create a new "Button" block using "Add Blocks" menu or "(button) + space key" shortcut. 5. Verify the "Button" block is created. 6. Type multiple words text in the "Button" block. 7. Verify the multiple words text is displayed correctly in the "Button" block.
Expected Results	1. Document loads successfully and is ready for input. 2. "Add Blocks" menu or "(button) + space key" creates a "Button" block. 3. Empty "Button" appears with placeholder text. 4. User can immediately start typing to replace placeholder text in "Button" block. 5. "Button" block accepts the multiple words text. 6. Multiple words text typed replaces the placeholder text. 7. "Button" block maintains its styling. 8. Document remains in edit mode.
Comments	
Automation Test Case	**Cypress Test File:** **cypress/e2e/EDITOR/EDITOR_Button.cy.ts** **Test Name:** Should accept and display multiple words in "Button" block **Test ID:** AUTO-TC-EDITOR-BUTTON-007

Test Case ID	**TC-EDITOR-BUTTON-008**
Test Case Description	Verify that special characters can be typed in a "Button" block and displays correctly.
Preconditions	1. User has a document created and opened. 2. User is in edit mode of the document. finalmenteeee
Test Steps	1. Navigate to the document. 2. Wait for the document to fully load. 3. Click on an empty block. 4. Create a new "Button" block using "Add Blocks" menu or "(button) + space key" shortcut. 5. Verify the "Button" block is created. 6. Type special characters text in the "Button" block. 7. Verify the special characters text is displayed correctly in the "Button" block.
Expected Results	1. Document loads successfully and is ready for input. 2. "Add Blocks" menu or "(button) + space key" creates a "Button" block. 3. Empty "Button" appears with placeholder text. 4. User can immediately start typing to replace placeholder text in "Button" block. 5. "Button" block accepts the special characters text. 6. Special characters text typed replaces the placeholder text. 7. "Button" block maintains its styling. 8. Document remains in edit mode.
Comments	
Automation Test Case	**Cypress Test File:** cypress/e2e/EDITOR/EDITOR_Button.cy.ts **Test Name:** Should accept and display special characters in "Button" block **Test ID:** AUTO-TC-EDITOR-BUTTON-008

Test Case ID	**TC-EDITOR-BUTTON-009**
Test Case Description	Verify that leading and trailing spaces can be typed in a "Button" block and displays correctly.
Preconditions	1. User has a document created and opened. 2. User is in edit mode of the document.
Test Steps	1. Navigate to the document. 2. Wait for the document to fully load. 3. Click on an empty block. 4. Create a new "Button" block using "Add Blocks" menu or "(button) + space key" shortcut. 5. Verify the "Button" block is created. 6. Type text with leading and trailing spaces in the "Button" block. 7. Verify the text with leading and trailing spaces is displayed correctly in the "Button" block.
Expected Results	1. Document loads successfully and is ready for input. 2. "Add Blocks" menu or "(button) + space key" creates a "Button" block. 3. Empty "Button" appears with placeholder text. 4. User can immediately start typing to replace placeholder text in "Button" block. 5. "Button" block accepts the text with leading and trailing spaces. 6. Text with leading and trailing spaces typed replaces the placeholder text. 7. "Button" block maintains its styling. 8. Document remains in edit mode.
Comments	
Automation Test Case	**Cypress Test File:** cypress/e2e/EDITOR/EDITOR_Button.cy.ts **Test Name:** Should accept and display leading and trailing spaces in "Button" block **Test ID:** AUTO-TC-EDITOR-BUTTON-009

Test Case ID	**TC-EDITOR-BUTTON-010**
Test Case Description	Verify that long text can be typed in a "Button" block and displays correctly.
Preconditions	1. User has a document created and opened. 2. User is in edit mode of the document.
Test Steps	1. Navigate to the document. 2. Wait for the document to fully load. 3. Click on an empty block. 4. Create a new "Button" block using "Add Blocks" menu or "(button) + space key" shortcut. 5. Verify the "Button" block is created. 6. Type long text in the "Button" block. 7. Verify the long text is displayed correctly in the "Button" block.
Expected Results	1. Document loads successfully and is ready for input. 2. "Add Blocks" menu or "(button) + space key" creates a "Button" block. 3. Empty "Button" appears with placeholder text. 4. User can immediately start typing to replace placeholder text in "Button" block. 5. "Button" block accepts the long text. 6. Long text typed replaces the placeholder text. 7. "Button" block maintains its styling. 8. Document remains in edit mode.
Comments	
Automation Test Case	**Cypress Test File:** **cypress/e2e/EDITOR/EDITOR_Button.cy.ts** **Test Name:** Should accept and display long text in "Button" block **Test ID:** AUTO-TC-EDITOR-BUTTON-010

Test Case ID	**TC-EDITOR-BUTTON-011**
Test Case Description	Verify that very long text can be typed in a "Button" block and displays correctly.
Preconditions	1. User has a document created and opened. 2. User is in edit mode of the document.
Test Steps	1. Navigate to the document. 2. Wait for the document to fully load. 3. Click on an empty block. 4. Create a new "Button" block using "Add Blocks" menu or "(button) + space key" shortcut. 5. Verify the "Button" block is created. 6. Type very long text in the "Button" block. 7. Verify the very long text is displayed correctly in the "Button" block.
Expected Results	1. Document loads successfully and is ready for input. 2. "Add Blocks" menu or "(button) + space key" creates a "Button" block. 3. Empty "Button" appears with placeholder text. 4. User can immediately start typing to replace placeholder text in "Button" block. 5. "Button" block accepts the very long text. 6. Very long text typed replaces the placeholder text. 7. "Button" block maintains its styling. 8. Document remains in edit mode.
Comments	
Automation Test Case	**Cypress Test File:** cypress/e2e/EDITOR/EDITOR_Button.cy.ts **Test Name:** Should accept and display very long text in "Button" block **Test ID:** AUTO-TC-EDITOR-BUTTON-011

Test Case ID	**TC-EDITOR-BUTTON-012**
Test Case Description	Verify that Unicode characters can be typed in a "Button" block and displays correctly.
Preconditions	1. User has a document created and opened. 2. User is in edit mode of the document.
Test Steps	1. Navigate to the document. 2. Wait for the document to fully load. 3. Click on an empty block. 4. Create a new "Button" block using "Add Blocks" menu or "(button) + space key" shortcut. 5. Verify the "Button" block is created. 6. Type Unicode characters text in the "Button" block. 7. Verify the Unicode characters text is displayed correctly in the "Button" block.
Expected Results	1. Document loads successfully and is ready for input. 2. "Add Blocks" menu or "(button) + space key" creates a "Button" block. 3. Empty "Button" appears with placeholder text. 4. User can immediately start typing to replace placeholder text in "Button" block. 5. "Button" block accepts the Unicode characters text. 6. Unicode characters text typed replaces the placeholder text. 7. "Button" block maintains its styling. 8. Document remains in edit mode.
Comments	
Automation Test Case	**Cypress Test File:** **cypress/e2e/EDITOR/EDITOR_Button.cy.ts** **Test Name:** Should accept and display Unicode characters in "Button" block **Test ID:** AUTO-TC-EDITOR-BUTTON-012

Test Case ID	**TC-EDITOR-BUTTON-013**
Test Case Description	Verify that emojis can be typed in a "Button" block and displays correctly.
Preconditions	1. User has a document created and opened. 2. User is in edit mode of the document.
Test Steps	1. Navigate to the document. 2. Wait for the document to fully load. 3. Click on an empty block. 4. Create a new "Button" block using "Add Blocks" menu or "(button) + space key" shortcut. 5. Verify the "Button" block is created. 6. Type emojis text in the "Button" block. 7. Verify the emojis text is displayed correctly in the "Button" block.
Expected Results	1. Document loads successfully and is ready for input. 2. "Add Blocks" menu or "(button) + space key" creates a "Button" block. 3. Empty "Button" appears with placeholder text. 4. User can immediately start typing to replace placeholder text in "Button" block. 5. "Button" block accepts the emojis text. 6. Emojis text typed replaces the placeholder text. 7. "Button" block maintains its styling. 8. Document remains in edit mode.
Comments	
Automation Test Case	**Cypress Test File:** **cypress/e2e/EDITOR/EDITOR_Button.cy.ts** **Test Name:** Should accept and display emojis in "Button" block **Test ID:** AUTO-TC-EDITOR-BUTTON-013

Test Case ID	**TC-EDITOR-BUTTON-014**
Test Case Description	Verify that mixed case text can be typed in a "Button" block and displays correctly.
Preconditions	1. User has a document created and opened. 2. User is in edit mode of the document.
Test Steps	1. Navigate to the document. 2. Wait for the document to fully load. 3. Click on an empty block. 4. Create a new "Button" block using "Add Blocks" menu or "(button) + space key" shortcut. 5. Verify the "Button" block is created. 6. Type mixed case text in the "Button" block. 7. Verify the mixed case text is displayed correctly in the "Button" block.
Expected Results	1. Document loads successfully and is ready for input. 2. "Add Blocks" menu or "(button) + space key" creates a "Button" block. 3. Empty "Button" appears with placeholder text. 4. User can immediately start typing to replace placeholder text in "Button" block. 5. "Button" block accepts the mixed case text. 6. Mixed case text typed replaces the placeholder text. 7. "Button" block maintains its styling. 8. Document remains in edit mode.
Comments	
Automation Test Case	**Cypress Test File:** cypress/e2e/EDITOR/EDITOR_Button.cy.ts **Test Name:** Should accept and display mixed case text in "Button" block **Test ID:** AUTO-TC-EDITOR-BUTTON-014

Test Case ID	**TC-EDITOR-BUTTON-015**
Test Case Description	Verify that numbers can be typed in a "Button" block and displays correctly.
Preconditions	1. User has a document created and opened. 2. User is in edit mode of the document.
Test Steps	1. Navigate to the document. 2. Wait for the document to fully load. 3. Click on an empty block. 4. Create a new "Button" block using "Add Blocks" menu or "(button) + space key" shortcut. 5. Verify the "Button" block is created. 6. Type numbers text in the "Button" block. 7. Verify the numbers text is displayed correctly in the "Button" block.
Expected Results	1. Document loads successfully and is ready for input. 2. "Add Blocks" menu or "(button) + space key" creates a "Button" block. 3. Empty "Button" appears with placeholder text. 4. User can immediately start typing to replace placeholder text in "Button" block. 5. "Button" block accepts the numbers text. 6. Numbers text typed replaces the placeholder text. 7. "Button" block maintains its styling. 8. Document remains in edit mode.
Comments	
Automation Test Case	**Cypress Test File:** **cypress/e2e/EDITOR/EDITOR_Button.cy.ts** **Test Name:** Should accept and display numbers in "Button" block **Test ID:** AUTO-TC-EDITOR-BUTTON-015

Test Case ID	**TC-EDITOR-BUTTON-016**
Test Case Description	Verify that HTML-like characters can be typed in a "Button" block and displays correctly.
Preconditions	1. User has a document created and opened. 2. User is in edit mode of the document.
Test Steps	1. Navigate to the document. 2. Wait for the document to fully load. 3. Click on an empty block. 4. Create a new "Button" block using "Add Blocks" menu or "(button) + space key" shortcut. 5. Verify the "Button" block is created. 6. Type HTML-like characters text in the "Button" block. 7. Verify the HTML-like characters text is displayed correctly in the "Button" block.
Expected Results	1. Document loads successfully and is ready for input. 2. "Add Blocks" menu or "(button) + space key" creates a "Button" block. 3. Empty "Button" appears with placeholder text. 4. User can immediately start typing to replace placeholder text in "Button" block. 5. "Button" block accepts the HTML-like characters text. 6. HTML-like characters text typed replaces the placeholder text. 7. "Button" block maintains its styling. 8. Document remains in edit mode.
Comments	
Automation Test Case	**Cypress Test File:** **cypress/e2e/EDITOR/EDITOR_Button.cy.ts** **Test Name:** Should accept and display HTML-like characters in "Button" block **Test ID:** AUTO-TC-EDITOR-BUTTON-016

Test Case ID	**TC-EDITOR-BUTTON-017**
Test Case Description	Verify that pasted plain text can be displayed correctly in a "Button" block.
Preconditions	1. User has a document created and opened. 2. User is in edit mode of the document.
Test Steps	1. Navigate to the document. 2. Wait for the document to fully load. 3. Click on an empty block. 4. Create a new "Button" block using "Add Blocks" menu or "(button) + space key" shortcut. 5. Verify the "Button" block is created. 6. Copy plain text from an external source. 7. Paste the plain text into the "Button" block. 8. Verify the pasted plain text is displayed correctly in the "Button" block.
Expected Results	1. Document loads successfully and is ready for input. 2. "Add Blocks" menu or "(button) + space key" creates a "Button" block. 3. Empty "Button" appears with placeholder text. 4. User can paste plain text into "Button" block. 5. "Button" block accepts the pasted plain text. 6. Pasted plain text replaces the placeholder text. 7. "Button" block maintains its styling. 8. Document remains in edit mode.
Comments	
Automation Test Case	**Cypress Test File:** cypress/e2e/EDITOR/EDITOR_Button.cy.ts **Test Name:** Should accept and display pasted plain text in "Button" block **Test ID:** AUTO-TC-EDITOR-BUTTON-017

Test Case ID	**TC-EDITOR-BUTTON-018**
Test Case Description	Verify that pasted very long text can be displayed correctly in a "Button" block.
Preconditions	1. User has a document created and opened. 2. User is in edit mode of the document.
Test Steps	1. Navigate to the document. 2. Wait for the document to fully load. 3. Click on an empty block. 4. Create a new "Button" block using "Add Blocks" menu or "(button) + space key" shortcut. 5. Verify the "Button" block is created. 6. Copy very long text from an external source. 7. Paste the very long text into the "Button" block. 8. Verify the pasted very long text is displayed correctly in the "Button" block.
Expected Results	1. Document loads successfully and is ready for input. 2. "Add Blocks" menu or "(button) + space key" creates a "Button" block. 3. Empty "Button" appears with placeholder text. 4. User can paste very long text into "Button" block. 5. "Button" block accepts the pasted very long text. 6. Pasted very long text replaces the placeholder text. 7. "Button" block maintains its styling. 8. Document remains in edit mode.
Comments	
Automation Test Case	**Cypress Test File:** cypress/e2e/EDITOR/EDITOR_Button.cy.ts **Test Name:** Should accept and display pasted very long text in "Button" block **Test ID:** AUTO-TC-EDITOR-BUTTON-018

Test Case ID	**TC-EDITOR-BUTTON-019**
Test Case Description	Verify that "Button" block text persists correctly after browser refresh.
Preconditions	1. User has a document created and opened. 2. User is in edit mode of the document.
Test Steps	1. Navigate to the document. 2. Wait for the document to fully load. 3. Click on an empty block. 4. Create a new "Button" block using "Add Blocks" menu or "(button) + space key" shortcut. 5. Verify the "Button" block is created. 6. Type a text in the "Button" block. 7. Verify the text is displayed correctly in the "Button" block. 8. Refresh the browser page. 9. Wait for the document to fully load after refresh. 10. Verify the "Button" block text is persisted and displayed correctly.
Expected Results	1. Document loads successfully and is ready for input. 2. "Add Blocks" menu or "(button) + space key" creates a "Button" block. 3. Empty "Button" appears with placeholder text. 4. User can type text in "Button" block. 5. Text is saved in the "Button" block. 6. Browser refresh completes successfully. 7. Document loads after refresh with the "Button" block. 8. "Button" block text is persisted and matches the text entered before refresh. 9. Document remains in edit mode.
Comments	
Automation Test Case	**Cypress Test File:** **cypress/e2e/EDITOR/EDITOR_Button.cy.ts** **Test Name:** Should persist "Button" block text after browser refresh **Test ID:** AUTO-TC-EDITOR-BUTTON-019

Test Case ID	**TC-EDITOR-BUTTON-020**
Test Case Description	Verify that keyboard shortcuts (copy, paste, undo, redo) work correctly in a "Button" block.
Preconditions	1. User has a document created and opened. 2. User is in edit mode of the document.
Test Steps	1. Navigate to the document. 2. Wait for the document to fully load. 3. Click on an empty block. 4. Create a new "Button" block using "Add Blocks" menu or "(button) + space key" shortcut. 5. Verify the "Button" block is created. 6. Type text in the "Button" block. 7. Select the text in the "Button" block. 8. Use keyboard shortcut to copy the text. 9. Use keyboard shortcut to paste the text. 10. Use keyboard shortcut to undo the action. 11. Use keyboard shortcut to redo the action. 12. Verify all keyboard shortcuts work correctly in the "Button" block.
Expected Results	1. Document loads successfully and is ready for input. 2. "Add Blocks" menu or "(button) + space key" creates a "Button" block. 3. Empty "Button" appears with placeholder text. 4. User can type text in "Button" block. 5. Text can be selected in "Button" block. 6. Copy keyboard shortcut copies the selected text. 7. Paste keyboard shortcut pastes the copied text. 8. Undo keyboard shortcut reverts the last action. 9. Redo keyboard shortcut reapplies the reverted action. 10. All keyboard shortcuts function correctly in "Button" block. 11. Document remains in edit mode.
Comments	
Automation Test Case	**Cypress Test File:** **cypress/e2e/EDITOR/EDITOR_Button.cy.ts** **Test Name:** Should support keyboard shortcuts in "Button" block [copy, paste, undo, redo] **Test ID:** AUTO-TC-EDITOR-BUTTON-020

Test Case ID	**TC-EDITOR-BUTTON-021**
Test Case Description	Verify that a word can be selected and replaced from "Button" text.
Preconditions	1. User has a document created and opened. 2. User is in edit mode of the document.
Test Steps	1. Navigate to the document. 2. Wait for the document to fully load. 3. Click on an empty block. 4. Create a new "Button" block using "Add Blocks" menu or "(button) + space key" shortcut. 5. Verify the "Button" block is created. 6. Type text containing multiple words in the "Button" block. 7. Select a word from the "Button" text. 8. Type new text to replace the selected word. 9. Verify the word is replaced correctly in the "Button" block.
Expected Results	1. Document loads successfully and is ready for input. 2. "Add Blocks" menu or "(button) + space key" creates a "Button" block. 3. Empty "Button" appears with placeholder text. 4. User can type text in "Button" block. 5. Word can be selected from "Button" text. 6. Selected word is highlighted. 7. Typing new text replaces the selected word. 8. "Button" block maintains its styling. 9. Document remains in edit mode.
Comments	
Automation Test Case	**Cypress Test File:** cypress/e2e/EDITOR/EDITOR_Button.cy.ts **Test Name:** Should allow selecting and replacing word from "Button" text **Test ID:** AUTO-TC-EDITOR-BUTTON-021

Test Case ID	**TC-EDITOR-BUTTON-022**
Test Case Description	Verify that individual characters can be deleted from "Button" text.
Preconditions	1. User has a document created and opened. 2. User is in edit mode of the document.
Test Steps	1. Navigate to the document. 2. Wait for the document to fully load. 3. Click on an empty block. 4. Create a new "Button" block using "Add Blocks" menu or "(button) + space key" shortcut. 5. Verify the "Button" block is created. 6. Type text in the "Button" block. 7. Position the cursor at a specific character in the "Button" text. 8. Use Backspace key to remove individual characters. 9. Verify individual characters are deleted correctly from the "Button" text.
Expected Results	1. Document loads successfully and is ready for input. 2. "Add Blocks" menu or "(button) + space key" creates a "Button" block. 3. Empty "Button" appears with placeholder text. 4. User can type text in "Button" block. 5. Cursor can be positioned at any character in "Button" text. 6. Backspace key deletes the character before the cursor. 7. Characters are removed correctly from "Button" text. 8. "Button" block maintains its styling. 9. Document remains in edit mode.
Comments	
Automation Test Case	**Cypress Test File:** **cypress/e2e/EDITOR/EDITOR_Button.cy.ts** **Test Name:** Should allow deleting individual characters from "Button" text **Test ID:** AUTO-TC-EDITOR-BUTTON-022

Test Case ID	**TC-EDITOR-BUTTON-023**
Test Case Description	Verify that text can be inserted in the middle of a "Button" block.
Preconditions	1. User has a document created and opened. 2. User is in edit mode of the document.
Test Steps	1. Navigate to the document. 2. Wait for the document to fully load. 3. Click on an empty block. 4. Create a new "Button" block using "Add Blocks" menu or "(button) + space key" shortcut. 5. Verify the "Button" block is created. 6. Type text in the "Button" block. 7. Position the cursor in the middle of the "Button" text. 8. Type additional text at the cursor position. 9. Verify the text is inserted correctly in the middle of the "Button" block.
Expected Results	1. Document loads successfully and is ready for input. 2. "Add Blocks" menu or "(button) + space key" creates a "Button" block. 3. Empty "Button" appears with placeholder text. 4. User can type text in "Button" block. 5. Cursor can be positioned in the middle of "Button" text. 6. Typing at the cursor position inserts text in the middle. 7. Existing text is preserved and shifted to accommodate inserted text. 8. "Button" block maintains its styling. 9. Document remains in edit mode.
Comments	
Automation Test Case	**Cypress Test File:** cypress/e2e/EDITOR/EDITOR_Button.cy.ts **Test Name:** Should allow inserting text in middle of "Button" block **Test ID:** AUTO-TC-EDITOR-BUTTON-023

Test Case ID	**TC-EDITOR-BUTTON-024**
Test Case Description	Verify that "Button" block can be indented using Tab key.
Preconditions	1. User has a document created and opened. 2. User is in edit mode of the document.
Test Steps	1. Navigate to the document. 2. Wait for the document to fully load. 3. Click on an empty block. 4. Create a new "Button" block using "Add Blocks" menu or "(button) + space key" shortcut. 5. Type text in the "Button" block. 6. Verify the "Button" block is created. 7. Click on the "Button" block to select it. 8. Press Tab key to indent the "Button" block. 9. Verify the "Button" block is indented correctly.
Expected Results	1. Document loads successfully and is ready for input. 2. "Add Blocks" menu or "(button) + space key" creates a "Button" block. 3. Empty "Button" appears with placeholder text. 4. User can type text in "Button" block. 5. "Button" block can be selected. 6. Tab key indents the "Button" block. 7. "Button" block displays with increased indentation. 8. "Button" block maintains its styling. 9. Document remains in edit mode.
Comments	
Automation Test Case	**Cypress Test File:** cypress/e2e/EDITOR/EDITOR_Button.cy.ts **Test Name:** Should allow indenting "Button" block with Tab key **Test ID:** AUTO-TC-EDITOR-BUTTON-024

Test Case ID	**TC-EDITOR-BUTTON-025**
Test Case Description	Verify that "Button" block can be outdented using Shift+Tab key.
Preconditions	1. User has a document created and opened. 2. User is in edit mode of the document.
Test Steps	1. Navigate to the document. 2. Wait for the document to fully load. 3. Click on an empty block. 4. Create a new "Button" block using "Add Blocks" menu or "(button) + space key" shortcut. 5. Type text in the "Button" block. 6. Verify the "Button" block is created. 7. Indent the "Button" block using Tab key. 8. Click on the "Button" block to select it. 9. Press Shift+Tab key to outdent the "Button" block. 10. Verify the "Button" block is outdented correctly.
Expected Results	1. Document loads successfully and is ready for input. 2. "Add Blocks" menu or "(button) + space key" creates a "Button" block. 3. Empty "Button" appears with placeholder text. 4. User can type text in "Button" block. 5. "Button" block can be indented using Tab key. 6. "Button" block can be selected. 7. Shift+Tab key outdents the "Button" block. 8. "Button" block displays with decreased indentation. 9. "Button" block maintains its styling. 10. Document remains in edit mode.
Comments	
Automation Test Case	**Cypress Test File:** cypress/e2e/EDITOR/EDITOR_Button.cy.ts **Test Name:** Should allow outdenting "Button" block with Shift+Tab key **Test ID:** AUTO-TC-EDITOR-BUTTON-025

Test Case ID	**TC-EDITOR-BUTTON-026**
Test Case Description	Verify that "Internal Link" is displayed as the default tab for default "Button".
Preconditions	1. User has a document created and opened. 2. User is in edit mode of the document.
Test Steps	1. Navigate to the document. 2. Wait for the document to fully load. 3. Click on an empty block. 4. Create a new "Button" block using "Add Blocks" menu or "(button) + space key" shortcut. 5. Verify the "Button" block is created. 6. Type text in the "Button" block. 7. Click on the setting button from "Button" block to open the settings popover. 8. Verify the "Button" settings popover is displayed. 9. Verify "Internal Link" tab is displayed as the default tab.
Expected Results	1. Document loads successfully and is ready for input. 2. "Add Blocks" menu or "(button) + space key" creates a "Button" block. 3. Empty "Button" appears with placeholder text. 4. User can type text in "Button" block. 5. Text is displayed in the "Button" block. 6. Clicking on setting button from "Button" block opens the settings popover. 7. "Button" settings popover is displayed. 8. "Internal Link" tab is visible and active by default. 9. "Internal Link" tab is the selected tab. 10. "Button" block maintains its styling. 11. Document remains in edit mode.
Comments	
Automation Test Case	**Cypress Test File:** **cypress/e2e/EDITOR/EDITOR_Button.cy.ts** **Test Name:** Should display "Internal Link" as the default tab for default "Button" **Test ID:** AUTO-TC-EDITOR-BUTTON-026

Test Case ID	**TC-EDITOR-BUTTON-027**
Test Case Description	Verify that "External Link" default tab is displayed correctly for default "Button".
Preconditions	1. User has a document created and opened. 2. User is in edit mode of the document.
Test Steps	1. Navigate to the document. 2. Wait for the document to fully load. 3. Click on an empty block. 4. Create a new "Button" block using "Add Blocks" menu or "(button) + space key" shortcut. 5. Verify the "Button" block is created. 6. Type text in the "Button" block. 7. Click on the setting button from "Button" block to open the settings popover. 8. Verify the "Button" settings popover is displayed. 9. Click on the "External Link" tab. 10. Verify the "External Link" tab is displayed correctly.
Expected Results	1. Document loads successfully and is ready for input. 2. "Add Blocks" menu or "(button) + space key" creates a "Button" block. 3. Empty "Button" appears with placeholder text. 4. User can type text in "Button" block. 5. Text is displayed in the "Button" block. 6. Clicking on setting button from "Button" block opens the settings popover. 7. "Button" settings popover is displayed. 8. "External Link" tab is visible in the settings popover. 9. Clicking "External Link" tab switches to the "External Link" tab. 10. "External Link" tab displays correctly with all its options. 11. "Button" block maintains its styling. 12. Document remains in edit mode. 13. deep in the rabbit hole
Comments	
Automation Test Case	**Cypress Test File:** cypress/e2e/EDITOR/EDITOR_Button.cy.ts **Test Name:** Should display "External Link" default tab correctly for default "Button" **Test ID:** AUTO-TC-EDITOR-BUTTON-027

Test Case ID	**TC-EDITOR-BUTTON-028**
Test Case Description	Verify that the text changes from empty "Button" to Button when selecting first document in "Internal Link" tab.
Preconditions	1. User has a document created and opened. 2. User is in edit mode of the document. 3. At least one document exists in the workspace.
Test Steps	1. Navigate to the document. 2. Wait for the document to fully load. 3. Click on an empty block. 4. Create a new "Button" block using "Add Blocks" menu or "(button) + space key" shortcut. 5. Verify the "Button" block is created. 6. Type text in the "Button" block. 7. Clear the text from "Button" block to make it empty. 8. Click on the setting button from "Button" block to open the settings popover. 9. Verify the "Button" settings popover is displayed. 10. Verify "Internal Link" tab is displayed. 11. Select a document in the "Recent Docs" section. 12. Verify the "Button" text changes from empty to Button.
Expected Results	1. Document loads successfully and is ready for input. 2. "Add Blocks" menu or "(button) + space key" creates a "Button" block. 3. Empty "Button" appears with placeholder text. 4. User can type text in "Button" block. 5. Text is displayed in the "Button" block. 6. Text can be cleared from "Button" block. 7. "Button" block is empty after clearing text. 8. Clicking on setting button from "Button" block opens the settings popover. 9. "Button" settings popover is displayed. 10. "Internal Link" tab is displayed. 11. Documents are available in the "Recent Docs" section. 12. Document can be selected from the "Recent Docs" section. 13. "Button" text changes from empty to Button after document selection. 14. "Button" block maintains its styling. 15. Document remains in edit mode.
Comments	
Automation Test Case	**Cypress Test File:** cypress/e2e/EDITOR/EDITOR_Button.cy.ts **Test Name:** Should change the text from empty "Button" to Button when selecting first document in "Internal Link" tab **Test ID:** AUTO-TC-EDITOR-BUTTON-028

Test Case ID	**TC-EDITOR-BUTTON-029**
Test Case Description	Verify that the text changes from default "Button" to Button when selecting first document in "Internal Link" tab.
Preconditions	1. User has a document created and opened. 2. User is in edit mode of the document. 3. At least one document exists in the workspace.
Test Steps	1. Navigate to the document. 2. Wait for the document to fully load. 3. Click on an empty block. 4. Create a new "Button" block using "Add Blocks" menu or "(button) + space key" shortcut. 5. Verify the "Button" block is created with default "Button" text. 6. Click on the setting button from "Button" block to open the settings popover. 7. Verify the "Button" settings popover is displayed. 8. Verify "Internal Link" tab is displayed. 9. Select a document in the "Recent Docs" section. 10. Verify the "Button" text changes from typed text to Button.
Expected Results	1. Document loads successfully and is ready for input. 2. "Add Blocks" menu or "(button) + space key" creates a "Button" block. 3. Empty "Button" appears with placeholder text showing default "Button" text. 4. Clicking on setting button from "Button" block opens the settings popover. 5 "Button" settings popover is displayed. 6. "Internal Link" tab is displayed. 7. Documents are available in the "Recent Docs" section. 8. Document can be selected from the "Recent Docs" section. 9. "Button" text changes from placeholder text to Button after document selection. 10. "Button" block maintains its styling. 11. Document remains in edit mode.
Comments	
Automation Test Case	**Cypress Test File:** cypress/e2e/EDITOR/EDITOR_Button.cy.ts **Test Name:** Should change the text from default "Button" to Button when selecting first document in "Internal Link" tab **Test ID:** AUTO-TC-EDITOR-BUTTON-029

Test Case ID	**TC-EDITOR-BUTTON-030**
Test Case Description	Verify that the text does not change from filled "Button" to Button when selecting first document in "Internal Link" tab.
Preconditions	1. User has a document created and opened. 2. User is in edit mode of the document. 3. At least one document exists in the workspace.
Test Steps	1. Navigate to the document. 2. Wait for the document to fully load. 3. Click on an empty block. 4. Create a new "Button" block using "Add Blocks" menu or "(button) + space key" shortcut. 5. Verify the "Button" block is created. 6. Type custom text in the "Button" block to fill it. 7. Click on the setting button from "Button" block to open the settings popover. 8. Verify the "Button" settings popover is displayed. 9. Verify "Internal Link" tab is displayed. 10. Select a document in the "Recent Docs" section. 11. Verify the "Button" text does not change and remains as the custom filled text.
Expected Results	1. Document loads successfully and is ready for input. 2. "Add Blocks" menu or "(button) + space key" creates a "Button" block. 3. Empty "Button" appears with placeholder text. 4. User can type custom text in "Button" block. 5. Custom text replaces the placeholder text. 6. Clicking on setting button from "Button" block opens the settings popover. 7. "Button" settings popover is displayed. 8. "Internal Link" tab is displayed. 9. Documents are available in the "Recent Docs" section. 10. Document can be selected from the "Recent Docs" section. 11. "Button" text does not change and remains as the custom filled text after document selection. 12. "Button" block maintains its styling. 13. Document remains in edit mode.
Comments	
Automation Test Case	**Cypress Test File:** cypress/e2e/EDITOR/EDITOR_Button.cy.ts **Test Name:** Should not change the text from filled "Button" to Button when selecting first document in "Internal Link" tab **Test ID:** AUTO-TC-EDITOR-BUTTON-030

Test Case ID	**TC-EDITOR-BUTTON-031**
Test Case Description	Verify that "Heading" can be selected for "Set anchor" option when having a document selected in "Internal Link" tab.
Preconditions	1. User has a document created and opened. 2. User is in edit mode of the document. 3. At least one document exists in the workspace. 4. Selected document has at least one "Heading" block.
Test Steps	1. Navigate to the document. 2. Wait for the document to fully load. 3. Click on an empty block. 4. Create a new "Button" block using "Add Blocks" menu or "(button) + space key" shortcut. 5. Verify the "Button" block is created. 6. Type text in the "Button" block. 7. Click on the setting button from "Button" block to open the settings popover. 8. Verify the "Button" settings popover is displayed. 9. Verify "Internal Link" tab is displayed. 10. Select a document in the "Recent Docs" section. 11. Locate the "Set anchor" dropdown in the "Internal Link" tab. 12. Select a "Heading" from the "Set anchor" dropdown. 13. Verify the "Heading" is selected in the dropdown for "Set anchor" option.
Expected Results	1. Document loads successfully and is ready for input. 2. "Add Blocks" menu or "(button) + space key" creates a "Button" block. 3. Empty "Button" appears with placeholder text. 4. User can type text in "Button" block. 5. Text is displayed in the "Button" block. 6. Clicking on setting button from "Button" block opens the settings popover. 7. "Button" settings popover is displayed. 8. "Internal Link" tab is displayed. 9. Documents are available in the "Recent Docs" section. 10. Document can be selected from the "Recent Docs" section. 11. "Set anchor" dropdown is available in the "Internal Link" tab. 12. "Heading" options are available in the "Set anchor" dropdown. 13. "Heading" can be selected from the "Set anchor" dropdown. 14. Selected "Heading" is displayed in the "Set anchor" dropdown. 15. "Button" block maintains its styling. 16. Document remains in edit mode.
Comments	
Automation Test Case	**Cypress Test File:** cypress/e2e/EDITOR/EDITOR_Button.cy.ts **Test Name:** Should allow selecting "Heading" for "Set anchor" option when having a document select in "Internal Link" tab **Test ID:** AUTO-TC-EDITOR-BUTTON-031

Test Case ID	**TC-EDITOR-BUTTON-032**
Test Case Description	Verify that "Heading" can be removed for "Set anchor" option when having a document selected in "Internal Link" tab.
Preconditions	1. User has a document created and opened. 2. User is in edit mode of the document. 3. At least one document exists in the workspace. 4. Selected document has at least one "Heading" block. 5. A "Heading" is already selected in "Set anchor" option.
Test Steps	1. Navigate to the document. 2. Wait for the document to fully load. 3. Click on an empty block. 4. Create a new "Button" block using "Add Blocksu e" menu or "(button) + space key" shortcut. 5. Verify the "Button" block is created. 6. Type text in the "Button" block. 7. Click on the setting button from "Button" block to open the settings popover. 8. Verify the "Button" settings popover is displayed. 9. Verify "Internal Link" tab is displayed. 10. Select a document in the "Recent Docs" section. 11. Locate the "Set anchor" dropdown in the "Internal Link" tab. 12. Select a "Heading" from the "Set anchor" dropdown. 13. Remove the selected "Heading" from the "Set anchor" dropdown. 14. Verify the "Heading" is removed from "Set anchor" dropdown.
Expected Results	1. Document loads successfully and is ready for input. 2. "Add Blocks" menu or "(button) + space key" creates a "Button" block. 3. Empty "Button" appears with placeholder text. 4. User can type text in "Button" block. 5. Text is displayed in the "Button" block. 6. Clicking on setting button from "Button" block opens the settings popover. 7. "Button" settings popover is displayed. 8. "Internal Link" tab is displayed. 9. Documents are available in the "Recent Docs" section. 10. Document can be selected from the "Recent Docs" section. 11. "Set anchor" dropdown is available in the "Internal Link" tab. 12. "Heading" can be selected from the "Set anchor" dropdown. 13. Selected "Heading" is displayed in the "Set anchor" dropdown. 14. Selected "Heading" can be removed from the "Set anchor" dropdown using the remove button. 15. "Set anchor" dropdown is cleared after removing "Heading". 16. "Button" block maintains its styling. 17. Document remains in edit mode.
Comments	
Automation Test Case	**Cypress Test File:** cypress/e2e/EDITOR/EDITOR_Button.cy.ts **Test Name:** Should allow removing "Heading" for "Set anchor" option when having a document select in "Internal Link" tab **Test ID:** AUTO-TC-EDITOR-BUTTON-032

Test Case ID	**TC-EDITOR-BUTTON-033**
Test Case Description	Verify that "Open in new tab" switch can be turned off or on from "Internal Link" tab.
Preconditions	1. User has a document created and opened. 2. User is in edit mode of the document. 3. At least one document exists in the workspace.
Test Steps	1. Navigate to the document. 2. Wait for the document to fully load. 3. Click on an empty block. 4. Create a new "Button" block using "Add Blocks" menu or "(button) + space key" shortcut. 5. Verify the "Button" block is created. 6. Type text in the "Button" block. 7. Click on the setting button from "Button" block to open the settings popover. 8. Verify the "Button" settings popover is displayed. 9. Verify "Internal Link" tab is displayed. 10. Select a document in the "Recent Docs" section. 11. Locate the "Open in new tab" switch in the "Internal Link" tab. 12. Toggle the "Open in new tab" switch to on. 13. Verify the "Open in new tab" switch is turned on. 14. Toggle the "Open in new tab" switch to off. 15. Verify the "Open in new tab" switch is turned off.
Expected Results	1. Document loads successfully and is ready for input. 2. "Add Blocks" menu or "(button) + space key" creates a "Button" block. 3. Empty "Button" appears with placeholder text. 4. User can type text in "Button" block. 5. Text is displayed in the "Button" block. 6. Clicking on setting button from "Button" block opens the settings popover. 7. "Button" settings popover is displayed. 8. "Internal Link" tab is displayed. 9. Documents are available in the "Recent Docs" section. 10. Document can be selected from the "Recent Docs" section. 11. "Open in new tab" switch is available in the "Internal Link" tab. 12. "Open in new tab" switch can be toggled to on. 13. "Open in new tab" switch displays as on when toggled. 14. "Open in new tab" switch can be toggled to off. 15. "Open in new tab" switch displays as off when toggled. 16. "Button" block maintains its styling. 17. Document remains in edit mode.
Comments	
Automation Test Case	**Cypress Test File:** cypress/e2e/EDITOR/EDITOR_Button.cy.ts **Test Name:** Should allow "Open in new tab" switch turn to off or on from "Internal Link" tab **Test ID:** AUTO-TC-EDITOR-BUTTON-033

Test Case ID	**TC-EDITOR-BUTTON-034**
Test Case Description	Verify that "Show as snippet" switch can be turned on or off from "Internal Link" tab.
Preconditions	1. User has a document created and opened. 2. User is in edit mode of the document. 3. At least one document exists in the workspace.
Test Steps	1. Navigate to the document. 2. Wait for the document to fully load. 3. Click on an empty block. 4. Create a new "Button" block using "Add Blocks" menu or "(button) + space key" shortcut. 5. Verify the "Button" block is created. 6. Type text in the "Button" block. 7. Click on the setting button from "Button" block to open the settings popover. 8. Verify the "Button" settings popover is displayed. 9. Verify "Internal Link" tab is displayed. 10. Select a document in the "Recent Docs" section. 11. Locate the "Show as snippet" switch in the "Internal Link" tab. 12. Toggle the "Show as snippet" switch to on. 13. Verify the "Show as snippet" switch is turned on. 14. Toggle the "Show as snippet" switch to off. 15. Verify the "Show as snippet" switch is turned off.
Expected Results	1. Document loads successfully and is ready for input. 2. "Add Blocks" menu or "(button) + space key" creates a "Button" block. 3. Empty "Button" appears with placeholder text. 4. User can type text in "Button" block. 5. Text is displayed in the "Button" block. 6. Clicking on setting button from "Button" block opens the settings popover. 7. "Button" settings popover is displayed. 8. "Internal Link" tab is displayed. 9. Documents are available in the "Recent Docs" section. 10. Document can be selected from the "Recent Docs" section. 11. "Show as snippet" switch is available in the "Internal Link" tab. 12. "Show as snippet" switch can be toggled to on. 13. "Show as snippet" switch displays as on when toggled. 14. "Show as snippet" switch can be toggled to off. 15. "Show as snippet" switch displays as off when toggled. 16. "Button" block maintains its styling. 17. Document remains in edit mode.
Comments	
Automation Test Case	**Cypress Test File:** cypress/e2e/EDITOR/EDITOR_Button.cy.ts **Test Name:** Should allow "Show as snippet" switch turn to on or off from "Internal Link" tab **Test ID:** AUTO-TC-EDITOR-BUTTON-034

Test Case ID	**TC-EDITOR-BUTTON-035**
Test Case Description	Verify that the selected document can be removed from "Internal Link" tab "Button".
Preconditions	1. User has a document created and opened. 2. User is in edit mode of the document. 3. At least one document exists in the workspace.
Test Steps	1. Navigate to the document. 2. Wait for the document to fully load. 3. Click on an empty block. 4. Create a new "Button" block using "Add Blocks" menu or "(button) + space key" shortcut. 5. Verify the "Button" block is created. 6. Type text in the "Button" block. 7. Click on the setting button from "Button" block to open the settings popover. 8. Verify the "Button" settings popover is displayed. 9. Verify "Internal Link" tab is displayed. 10. Select a document in the "Recent Docs" section. 11. Verify the document is selected. 12. Remove the selected document from the "Internal Link" tab. 13. Verify the selected document is removed.
Expected Results	1. Document loads successfully and is ready for input. 2. "Add Blocks" menu or "(button) + space key" creates a "Button" block. 3. Empty "Button" appears with placeholder text. 4. User can type text in "Button" block. 5. Text is displayed in the "Button" block. 6. Clicking on setting button from "Button" block opens the settings popover. 7. "Button" settings popover is displayed. 8. "Internal Link" tab is displayed. 9. Documents are available in the "Recent Docs" section. 10. Document can be selected from the "Recent Docs" section. 11. Selected document is displayed in the "Internal Link" tab. 12. Selected document can be removed from the "Internal Link" tab "Recent Docs" section using remove button. 13. Document selection is cleared after removal. 14. "Button" block maintains its styling. 15. Document remains in edit mode.
Comments	
Automation Test Case	**Cypress Test File:** cypress/e2e/EDITOR/EDITOR_Button.cy.ts **Test Name:** Should allow removing the selected document from "Internal Link" tab Button **Test ID:** AUTO-TC-EDITOR-BUTTON-035

Test Case ID	**TC-EDITOR-BUTTON-036**
Test Case Description	Verify that "No docs found." message is displayed when searching invalid document in input from "Internal Link" tab.
Preconditions	1. User has a document created and opened. 2. User is in edit mode of the document.
Test Steps	1. Navigate to the document. 2. Wait for the document to fully load. 3. Click on an empty block. 4. Create a new "Button" block using "Add Blocks" menu or "(button) + space key" shortcut. 5. Verify the "Button" block is created. 6. Type text in the "Button" block. 7. Click on the setting button from "Button" block to open the settings popover. 8. Verify the "Button" settings popover is displayed. 9. Verify "Internal Link" tab is displayed. 10. Locate the search docs input field in the "Internal Link" tab. 11. Type an invalid document name in the search docs input field. 12. Verify the "No docs found." message is displayed.
Expected Results	1. Document loads successfully and is ready for input. 2. "Add Blocks" menu or "(button) + space key" creates a "Button" block. 3. Empty "Button" appears with placeholder text. 4. User can type text in "Button" block. 5. Text is displayed in the "Button" block. 6. Clicking on setting button from "Button" block opens the settings popover. 7. "Button" settings popover is displayed. 8. "Internal Link" tab is displayed. 9. Search docs input field is available in the "Internal Link" tab. 10. User can type in the search docs input field. 11. Invalid document name can be entered in the search docs input field. 12. "No docs found." message is displayed when searching for invalid document. 13. "Button" block maintains its styling. 14. Document remains in edit mode.
Comments	
Automation Test Case	**Cypress Test File:** cypress/e2e/EDITOR/EDITOR_Button.cy.ts **Test Name:** Should display "No docs found." when searching invalid document in input from "Internal Link" tab **Test ID:** AUTO-TC-EDITOR-BUTTON-036

Test Case ID	**TC-EDITOR-BUTTON-037**
Test Case Description	Verify that correct https, http and mailto URLs can be added to data in url input from "External Link" tab.
Preconditions	1. User has a document created and opened. 2. User is in edit mode of the document.
Test Steps	1. Navigate to the document. 2. Wait for the document to fully load. 3. Click on an empty block. 4. Create a new "Button" block using "Add Blocks" menu or "(button) + space key" shortcut. 5. Verify the "Button" block is created. 6. Type text in the "Button" block. 7. Click on the setting button from "Button" block to open the settings popover. 8. Verify the "Button" settings popover is displayed. 9. Click on the "External Link" tab. 10. Locate the url input field in the "External Link" tab. 11. Type a correct https URL in the url input field. 12. Verify the https URL is accepted. 13. Clear the url input field. 14. Type a correct http URL in the url input field. 15. Verify the http URL is accepted. 16. Clear the url input field. 17. Type a correct mail address in the url input field. 18. Verify the mailto URL is accepted.
Expected Results	1. Document loads successfully and is ready for input. 2. "Add Blocks" menu or "(button) + space key" creates a "Button" block. 3. Empty "Button" appears with placeholder text. 4. User can type text in "Button" block. 5. Text is displayed in the "Button" block. 6. Clicking on setting button from "Button" block opens the settings popover. 7. "Button" settings popover is displayed. 8. "External Link" tab is displayed. 9. Url input field is available in the "External Link" tab. 10. User can type in the url input field. 11. Correct https URL is accepted in the url input field. 12. Correct http URL is accepted in the url input field. 13. Correct mail address is accepted in the url input field. 14. All valid URL formats are accepted without error. 15. "Button" block maintains its styling. 16. Document remains in edit mode.
Comments	
Automation Test Case	**Cypress Test File:** cypress/e2e/EDITOR/EDITOR_Button.cy.ts **Test Name:** Should allow adding correct https, http and mailto to data in url input from "External Link" tab **Test ID:** AUTO-TC-EDITOR-BUTTON-037

Test Case ID	**TC-EDITOR-BUTTON-038**
Test Case Description	Verify that "URL is not valid" message is displayed when inserting invalid data in https, http and mailto url input from "External Link" tab.
Preconditions	1. User has a document created and opened. 2. User is in edit mode of the document.
Test Steps	1. Navigate to the document. 2. Wait for the document to fully load. 3. Click on an empty block. 4. Create a new "Button" block using "Add Blocks" menu or "(button) + space key" shortcut. 5. Verify the "Button" block is created. 6. Type text in the "Button" block. 7. Click on the setting button from "Button" block to open the settings popover. 8. Verify the "Button" settings popover is displayed. 9. Click on the "External Link" tab. 10. Locate the url input field in the "External Link" tab. 11. Type an invalid https URL in the url input field. 12. Verify the "URL is not valid" message is displayed. 13. Clear the url input field. 14. Type an invalid http URL in the url input field. 15. Verify the "URL is not valid" message is displayed. 16. Clear the url input field. 17. Type an invalid mailto mail address in the url input field. 18. Verify the "URL is not valid" message is displayed.
Expected Results	1. Document loads successfully and is ready for input. 2. "Add Blocks" menu or "(button) + space key" creates a "Button" block. 3. Empty "Button" appears with placeholder text. 4. User can type text in "Button" block. 5. Text is displayed in the "Button" block. 6. Clicking on setting button from "Button" block opens the settings popover. 7. "Button" settings popover is displayed. 8. "External Link" tab is displayed. 9. Url input field is available in the "External Link" tab. 10. User can type in the url input field. 11. Invalid https URL triggers "URL is not valid" message. 12. Invalid http URL triggers "URL is not valid" message. 13. Invalid mailto mail address triggers "URL is not valid" message. 14. "URL is not valid" message is displayed for all invalid URL formats. 15. "Button" block maintains its styling. 16. Document remains in edit mode.
Comments	
Automation Test Case	**Cypress Test File:** cypress/e2e/EDITOR/EDITOR_Button.cy.ts **Test Name:** Should display "URL is not valid" when inserting invalid data in https, http and mailto url input from "External Link" tab **Test ID:** AUTO-TC-EDITOR-BUTTON-038

Test Case ID	**TC-EDITOR-BUTTON-039**
Test Case Description	Verify that apply, copy, open in new tab options can be used in url input from "External Link" tab.
Preconditions	1. User has a document created and opened. 2. User is in edit mode of the document.
Test Steps	1. Navigate to the document. 2. Wait for the document to fully load. 3. Click on an empty block. 4. Create a new "Button" block using "Add Blocks" menu or "(button) + space key" shortcut. 5. Verify the "Button" block is created. 6. Type text in the "Button" block. 7. Click on the setting button from "Button" block to open the settings popover. 8. Verify the "Button" settings popover is displayed. 9. Click on the "External Link" tab. 10. Locate the url input field in the "External Link" tab. 11. Type a valid URL in the url input field. 12. Locate the apply option in the url input section. 13. Click on the apply option. 14. Verify the apply option works correctly. 15. Locate the copy option in the url input section. 16. Click on the copy option. 17. Verify the copy option works correctly. 18. Locate the open in new tab option in the url input section. 19. Click on the open in new tab option. 20. Verify the open in new tab option works correctly.
Expected Results	1. Document loads successfully and is ready for input. 2. "Add Blocks" menu or "(button) + space key" creates a "Button" block. 3. Empty "Button" appears with placeholder text. 4. User can type text in "Button" block. 5. Text is displayed in the "Button" block. 6. Clicking on setting button from "Button" block opens the settings popover. 7. "Button" settings popover is displayed. 8. "External Link" tab is displayed. 9. Url input field is available in the "External Link" tab. 10. User can type valid URL in the url input field. 11. Apply option is available in the url input section. 12. Apply option can be clicked and works correctly. 13. Copy option is available in the url input section. 14. Copy option can be clicked and works correctly. 15. Open in new tab option is available in the url input section. 16. Open in new tab option can be clicked and works correctly. 17. All options function as expected. 18. "Button" block maintains its styling. 19. Document remains in edit mode.
Comments	

Test Case ID	**TC-EDITOR-BUTTON-039**
Automation Test Case	**Cypress Test File:** cypress/e2e/EDITOR/EDITOR_Button.cy.ts **Test Name:** Should allow using apply, copy, open in new tab in url input from "External Link" tab **Test ID:** AUTO-TC-EDITOR-BUTTON-039

Test Case ID	**TC-EDITOR-BUTTON-040**
Test Case Description	Verify that "Open in new tab" switch can be turned off or on from "External Link" tab.
Preconditions	1. User has a document created and opened. 2. User is in edit mode of the document.
Test Steps	1. Navigate to the document. 2. Wait for the document to fully load. 3. Click on an empty block. 4. Create a new "Button" block using "Add Blocks" menu or "(button) + space key" shortcut. 5. Verify the "Button" block is created. 6. Type text in the "Button" block. 7. Click on the setting button from "Button" block to open the settings popover. 8. Verify the "Button" settings popover is displayed. 9. Click on the "External Link" tab. 10. Locate the "Open in new tab" switch in the "External Link" tab. 11. Toggle the "Open in new tab" switch to on. 12. Verify the "Open in new tab" switch is turned on. 13. Toggle the "Open in new tab" switch to off. 14. Verify the "Open in new tab" switch is turned off.
Expected Results	1. Document loads successfully and is ready for input. 2. "Add Blocks" menu or "(button) + space key" creates a "Button" block. 3. Empty "Button" appears with placeholder text. 4. User can type text in "Button" block. 5. Text is displayed in the "Button" block. 6. Clicking on setting button from "Button" block opens the settings popover. 7. "Button" settings popover is displayed. 8. "External Link" tab is displayed. 9. "Open in new tab" switch is available in the "External Link" tab. 10. "Open in new tab" switch can be toggled to on. 11. "Open in new tab" switch displays as on when toggled. 12. "Open in new tab" switch can be toggled to off. 13. "Open in new tab" switch displays as off when toggled. 14. "Button" block maintains its styling. 15. Document remains in edit mode.
Comments	
Automation Test Case	**Cypress Test File:** cypress/e2e/EDITOR/EDITOR_Button.cy.ts **Test Name:** Should allow "Open in new tab" switch turn to off or on from "External Link" tab **Test ID:** AUTO-TC-EDITOR-BUTTON-040

Test Case ID	**TC-EDITOR-BUTTON-041**
Test Case Description	Verify that "Add nofollow tag" switch can be turned on or off from "External Link" tab.
Preconditions	1. User has a document created and opened. 2. User is in edit mode of the document.
Test Steps	1. Navigate to the document. 2. Wait for the document to fully load. 3. Click on an empty block. 4. Create a new "Button" block using "Add Blocks" menu or "(button) + space key" shortcut. 5. Verify the "Button" block is created. 6. Type text in the "Button" block. 7. Click on the setting button from "Button" block to open the settings popover. 8. Verify the "Button" settings popover is displayed. 9. Click on the "External Link" tab. 10. Locate the "Add nofollow tag" switch in the "External Link" tab. 11. Toggle the "Add nofollow tag" switch to on. 12. Verify the "Add nofollow tag" switch is turned on. 13. Toggle the "Add nofollow tag" switch to off. 14. Verify the "Add nofollow tag" switch is turned off.
Expected Results	1. Document loads successfully and is ready for input. 2. "Add Blocks" menu or "(button) + space key" creates a "Button" block. 3. Empty "Button" appears with placeholder text. 4. User can type text in "Button" block. 5. Text is displayed in the "Button" block. 6. Clicking on setting button from "Button" block opens the settings popover. 7. "Button" settings popover is displayed. 8. "External Link" tab is displayed. 9. "Add nofollow tag" switch is available in the "External Link" tab. 10. "Add nofollow tag" switch can be toggled to on. 11. "Add nofollow tag" switch displays as on when toggled. 12. "Add nofollow tag" switch can be toggled to off. 13. "Add nofollow tag" switch displays as off when toggled. 14. "Button" block maintains its styling. 15. Document remains in edit mode.
Comments	nu e lucru usor sa scrii aici jos, dar si cand incepi, rupee
Automation Test Case	**Cypress Test File:** cypress/e2e/EDITOR/EDITOR_Button.cy.ts **Test Name:** Should allow "Add nofollow tag" switch turn to on or off from "External Link" tab **Test ID:** AUTO-TC-EDITOR-BUTTON-041

29. un mic document

instant feedback

wohooooooo

JS JS

Responses

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	aoooo	a
	a	and still

Get Cakes

Get a cake by its ID

GET https://api.cakes.com

Request

BODY PARAMETERS

id	String	required

ID of the cake to get

JS

```
var myHeaders = new Headers();
myHeaders.append("Accept", "application/json");
myHeaders.append("Content-Type", "application/json");

var raw = JSON.stringify({
   "id": "string"
});

var requestOptions = {
   method: 'GET',
   headers: myHeaders,
   body: raw,
   redirect: 'follow'
};

fetch("https://api.cakes.com", requestOptions)
   .then(response => response.text())
   .then(result => console.log(result))
   .catch(error => console.log('error', error));
```

Responses 200

```
{
  "name": "Cake's name",
}
```

Code Section Title JS

Responses

Get Cakes

Get a cake by its ID

GET https://api.cakes.com

Request

BODY PARAMETERS

id	String	required

ID of the cake to get

JS

```
var myHeaders = new Headers();
myHeaders.append("Accept", "application/json");
myHeaders.append("Content-Type", "application/json");

var raw = JSON.stringify({
   "id": "string"
});

var requestOptions = {
   method: 'GET',
   headers: myHeaders,
   body: raw,
   redirect: 'follow'
};

fetch("https://api.cakes.com", requestOptions)
   .then(response => response.text())
   .then(result => console.log(result))
   .catch(error => console.log('error', error));
```

Responses 200

```
{
  "name": "Cake's name",
}
```

JS

30. small table

aaa

31. swagger

0.0.1-beta OAS 3.1

GitBook API

The GitBook API

Terms of service

API Support - Website
Send email to API Support

Servers

{host}/v1

Computed URL: `https://api.gitbook.com/v1`

Server variables

host https://api.gitbook.com

Authorize

organizations

The Organizations API provides a robust way to handle the administrative structure of your GitBook workspace. By creating and configuring organizations, you can group multiple users, spaces, and collections, simplifying your permission management and fostering efficient collaboration for teams of any size.

{% openapi-schemas spec="gitbook" schemas="Organization" grouped="false" %} The Organization object {% endopenapi-schemas %}

GET `/orgs` Get the list of organizations for the currently authenticated user

GET `/orgs/{organizationId}` Get an organization by its ID

PATCH `/orgs/{organizationId}` Update an organization

GET /orgs/{organizationId}/audit-event-actions List organization audit event actions

GET /orgs/{organizationId}/audit-events List organization audit events

GET /orgs/{organizationId}/audit-events/{auditEventId} Get an organization audit event

GET /orgs/{organizationId}/styleguides List all style guides in an organization

GET /orgs/{organizationId}/styleguide-templates List all built-in style guide templates

DELETE /orgs/{organizationId}/link-invites/{inviteId} Deletes an organization invite.

POST `/orgs/{organizationId}/join` Join an organization

GET `/orgs/{organizationId}/search` Search content in an organization

GET `/orgs/{organizationId}/agent-instructions` Get Docs agent instructions for an organization

PUT `/orgs/{organizationId}/agent-instructions` Update Docs agent instructions for an organization

GET `/email-domains/{emailDomain}/orgs` Get all organizations by email domain

organization-members

Organization members can be managed through this API, which lets you invite and manage users under a particular organization. You can define roles and permissions to ensure your team has the right level of access.

GET `/orgs/{organizationId}/members` List all organization members

GET `/orgs/{organizationId}/members/{userId}` Get an organization member by its ID

PATCH `/orgs/{organizationId}/members/{userId}` Update an organization member

DELETE `/orgs/{organizationId}/members/{userId}`
Remove an organization member or request an organization admin to do it

POST `/orgs/{organizationId}/ping` Update an organization member last seen at

POST `/orgs/{organizationId}/members/{userId}/sso` Set a user as an SSO member of an organization

GET /orgs/{organizationId}/members/{userId}/spaces List an organization member space permissions

GET /orgs/{organizationId}/members/{userId}/teams List all organization member teams

organization-invites

Use this API to create and revoke invitations for new members. By automating invite flows, you can maintain a cohesive onboarding experience for collaborators and speed up team expansion.

POST /orgs/{organizationId}/invites Invite users in an organization

POST /orgs/{organizationId}/invites/{inviteId} Join an organization with an invite

GET /orgs/{organizationId}/link-invites List organization invites

POST `/orgs/{organizationId}/link-invites` Create an organization invite

GET `/orgs/{organizationId}/link-invites/{inviteId}` Get an organization by its ID

PATCH `/orgs/{organizationId}/link-invites/{inviteId}` Update an organization invite

organization-ask

Enhance your team's knowledge base with the Organization AI ask endpoint, which allows you to query AI models trained on your organization's GitBook content for quick, intelligent responses.

POST `/orgs/{organizationId}/ask` Ask a question in an organization

GET `/orgs/{organizationId}/ask/questions` List recommended questions to ask in an organization

GET `/orgs/{organizationId}/ask/questions/stream`
List recommended questions to ask in an organization (streamed)

GET /orgs/{organizationId}/ask/stream Ask a question in an organization (streamed)

sites

The Docs Sites API lets you programmatically manage published documentation sites within your organization. You can list and update all sites created under a specific organization, making it easy to audit or interact with site metadata at scale.

{% openapi-schemas spec="gitbook" schemas="Site" grouped="false" %} The Site object {% endopenapi-schemas %}

GET /orgs/{organizationId}/sites List all documentation sites in an organization

POST /orgs/{organizationId}/sites Create a new documentation site in an organization

GET /orgs/{organizationId}/sites/{siteId} Get a documentation site by its ID

PATCH /orgs/{organizationId}/sites/{siteId} Update the properties of a documentation site

DELETE **/orgs/{organizationId}/sites/{siteId}** Delete a site

GET **/orgs/{organizationId}/sites/{siteId}/adaptive-schema**
Get the visitor attributes JSON schema for an adaptive content site

PUT **/orgs/{organizationId}/sites/{siteId}/adaptive-schema**
Update the visitor attributes JSON schema for an adaptive content site

GET **/orgs/{organizationId}/sites/{siteId}/adaptive-schema/template-conditions**
List condition templates for adaptive content expressions in a site

GET **/orgs/{organizationId}/sites/{siteId}/published**
Get the full published profile of a site including structure and customization

POST **/orgs/{organizationId}/sites/{siteId}/publish** Publish a site to make it publicly accessible

POST **/orgs/{organizationId}/sites/{siteId}/unpublish** Take a site offline by unpublishing it

PATCH **/orgs/{organizationId}/sites/{siteId}/structure/sort**
Move a site space, section, or section group to a new position

GET **/orgs/{organizationId}/sites/{siteId}/integration-scripts**
List custom scripts injected into a site's published pages

GET **/orgs/{organizationId}/sites/{siteId}/integrations** List third-party integrations enabled on a site

POST **/orgs/{organizationId}/sites/{siteId}/search** Full-text search across all content in a site

POST **/orgs/{organizationId}/sites/{siteId}/template** Apply the default documentation template to a site

POST /orgs/{organizationId}/sites/{siteId}/styleguide Create or retrieve the style guide space for a site

site-share-links

Manage the lifecycle of share links for your published sites. This includes generating new links for external sharing and revoking or updating existing ones.

{% openapi-schemas spec="gitbook" schemas="ShareLink" grouped="false" %} The ShareLink object {% endopenapi-schemas %}

GET /orgs/{organizationId}/sites/{siteId}/share-links List all private share links for a site

POST /orgs/{organizationId}/sites/{siteId}/share-links Create a private share link for a site

PATCH /orgs/{organizationId}/sites/{siteId}/share-links/{shareLinkId}
Update a private share link for a site

DELETE /orgs/{organizationId}/sites/{siteId}/share-links/{shareLinkId} Deletes a share link

site-structure

Provides a complete overview of how content is organized on a site. With this API, you can discover page nesting, identify sections, and reorder site elements as needed.

{% openapi-schemas spec="gitbook" schemas="SiteStructure" grouped="false" %} The SiteStructure object {% endopenapi-schemas %}

GET `/orgs/{organizationId}/sites/{siteId}/structure` Get the full navigation structure of a site

site-publishing-auth

Configure the credentials or tokens required to publish documentation externally. This helps ensure your site is consistently kept up to date.

{% openapi-schemas spec="gitbook" schemas="SitePublishingAuth" grouped="false" %} The SitePublishingAuth object {% endopenapi-schemas %}

GET `/orgs/{organizationId}/sites/{siteId}/publishing/auth`
Get the published content authentication configuration for a site

PATCH `/orgs/{organizationId}/sites/{siteId}/publishing/auth`
Update the published content authentication configuration for a site

POST `/orgs/{organizationId}/sites/{siteId}/publishing/auth/regenerate`
Regenerate the private key for a site's published content authentication

site-preview

Quickly generate a preview of how your site's content and layout will appear once published, allowing for final checks and refinement prior to going live.

GET `/orgs/{organizationId}/sites/{siteId}/publishing/preview`
Generate a temporary preview URL for a site's published content

site-customization

Update your site's branding, styling, and layout to match your organization's identity. This includes theming elements like color palette, logos, and more.

{% openapi-schemas spec="gitbook" schemas="SiteCustomizationSettings" grouped="false" %} The SiteCustomizationSettings object {% endopenapi-schemas %}

GET `/orgs/{organizationId}/sites/{siteId}/customization`
Get the branding and visual customization settings for a site

PUT `/orgs/{organizationId}/sites/{siteId}/customization`
Update the branding and visual customization settings for a site

GET `/orgs/{organizationId}/sites/{siteId}/site-spaces/{siteSpaceId}/customization`
Get the customization overrides for a site space

PATCH `/orgs/{organizationId}/sites/{siteId}/site-spaces/{siteSpaceId}/customization`
Override branding and customization settings for a specific site space

DELETE `/orgs/{organizationId}/sites/{siteId}/site-spaces/{siteSpaceId}/customization`
Delete a site space customization settings

site-agent-settings

Configure how site issue remediation should behave and provide site-specific instructions for the editing and topic analyst agents.

{% openapi-schemas spec="gitbook" schemas="SiteAgentSettings" grouped="false" %} The SiteAgentSettings object {% endopenapi-schemas %}

GET `/orgs/{organizationId}/sites/{siteId}/agent-settings` Get the AI agent configuration for a site

PUT `/orgs/{organizationId}/sites/{siteId}/agent-settings` Update the AI agent configuration for a site

site-spaces

Associate or dissociate your organization's spaces to keep your content organized. This is particularly useful for larger organizations with numerous spaces.

{% openapi-schemas spec="gitbook" schemas="SiteSpace" grouped="false" %} The SiteSpace object {% endopenapi-schemas %}

POST `/orgs/{organizationId}/sites/{siteId}/site-spaces` Add a space to a site as a content source

GET `/orgs/{organizationId}/sites/{siteId}/site-spaces` List all spaces linked to a site as content sources

PATCH **/orgs/{organizationId}/sites/{siteId}/site-spaces/{siteSpaceId}**
Update a space linked to a site

DELETE **/orgs/{organizationId}/sites/{siteId}/site-spaces/{siteSpaceId}** Delete a site space

POST **/orgs/{organizationId}/sites/{siteId}/site-spaces/{siteSpaceId}/duplicate**
Duplicate a space in a site

POST ~~**/orgs/{organizationId}/sites/{siteId}/site-spaces/{siteSpaceId}/move**~~
Move a site space to a new position. (Deprecated) use sortSiteStructure instead.

Warning: Deprecated

site-sections

Sections help partition your site's content at the top level. They can be modified, deleted, or reorganized to reflect your site's changing structure.

{% openapi-schemas spec="gitbook" schemas="SiteSection" grouped="false" %} The SiteSection object {% endopenapi-schemas %}

POST **/orgs/{organizationId}/sites/{siteId}/sections**
Add a new navigation section to a site backed by a space

GET `/orgs/{organizationId}/sites/{siteId}/sections` List all navigation sections in a site

PATCH `/orgs/{organizationId}/sites/{siteId}/sections/{siteSectionId}`
Update a navigation section in a site

DELETE `/orgs/{organizationId}/sites/{siteId}/sections/{siteSectionId}` Delete a site section

POST ~~`/orgs/{organizationId}/sites/{siteId}/sections/{siteSectionId}/move`~~
Move a site section to a new position. (Deprecated) use sortSiteStructure instead.

Warning: Deprecated

site-section-groups

Section groups let you bundle multiple top-level sections together, offering additional structuring capabilities and simplifying navigation for your readers.

{% openapi-schemas spec="gitbook" schemas="SiteSectionGroup" grouped="false" %} The SiteSectionGroup object {% endopenapi-schemas %}

GET `/orgs/{organizationId}/sites/{siteId}/section-groups`
List all section groups in a site's navigation structure

POST **/orgs/{organizationId}/sites/{siteId}/section-groups**
Add a section group to a site's navigation structure

PATCH **/orgs/{organizationId}/sites/{siteId}/section-groups/{siteSectionGroupId}**
Update a section group in a site's navigation structure

DELETE **/orgs/{organizationId}/sites/{siteId}/section-groups/{siteSectionGroupId}**
Delete a site section group

POST ~~**/orgs/{organizationId}/sites/{siteId}/section-groups/{siteSectionGroupId}/move**~~
Move a site section group to a new position. (Deprecated) use sortSiteStructure instead.

Warning: Deprecated

site-redirects

Keep your site's content fresh without breaking old links. This API allows you to create and manage redirection rules.

{% openapi-schemas spec="gitbook" schemas="SiteRedirect" grouped="false" %} The SiteRedirect object {% endopenapi-schemas %}

POST **/orgs/{organizationId}/sites/{siteId}/redirects** Create a URL redirect rule for a site

PUT `/orgs/{organizationId}/sites/{siteId}/redirects`
Create, update, delete, or publish site redirect rules in bulk

GET `/orgs/{organizationId}/sites/{siteId}/redirects` List all URL redirect rules configured for a site

PATCH `/orgs/{organizationId}/sites/{siteId}/redirects/{siteRedirectId}`
Update a URL redirect rule for a site

DELETE `/orgs/{organizationId}/sites/{siteId}/redirects/{siteRedirectId}` Delete a site redirect

GET `/orgs/{organizationId}/sites/{siteId}/redirect` Resolve a site redirect rule by its source path

Manage Model Context Protocol (Mcp) servers used by your site.

site-mcp-servers

{% openapi-schemas spec="gitbook" schemas="SiteMcpServer" grouped="false" %} The SiteMcpServer object {% endopenapi-schemas %}

GET `/orgs/{organizationId}/sites/{siteId}/mcp-servers` List all MCP servers configured for a site

POST `/orgs/{organizationId}/sites/{siteId}/mcp-servers` Add a new MCP server configuration to a site

GET `/orgs/{organizationId}/sites/{siteId}/mcp-servers/{siteMcpServerId}`
Get an MCP server configuration for a site by its ID

PATCH `/orgs/{organizationId}/sites/{siteId}/mcp-servers/{siteMcpServerId}`
Update an MCP server configuration for a site

DELETE `/orgs/{organizationId}/sites/{siteId}/mcp-servers/{siteMcpServerId}`
Delete a site MCP server

site-channels

Manage the channels used as origins for questions and answers in your site ask data.

{% openapi-schemas spec="gitbook" schemas="SiteChannel" grouped="false" %} The SiteChannel object {% endopenapi-schemas %}

GET `/orgs/{organizationId}/sites/{siteId}/channels` List all GitBook Agent channels for a site

POST `/orgs/{organizationId}/sites/{siteId}/channels` Create a new GitBook Agent channel for a site

GET `/orgs/{organizationId}/sites/{siteId}/channels/{siteChannelId}`
Get a GitBook Agent channel for a site by its ID

PATCH `/orgs/{organizationId}/sites/{siteId}/channels/{siteChannelId}`
Update a GitBook Agent channel for a site

DELETE `/orgs/{organizationId}/sites/{siteId}/channels/{siteChannelId}`
Delete a GitBook Agent channel from a site

site-ads

Manage the advertisement strategy within your docs. You can specify ad placements, track usage, and adjust settings to best fit your organization's needs.

POST `/orgs/{organizationId}/sites/{siteId}/ads` Update the advertising settings for a site

GET `/ads/sites` List all the sites with ads configured

PATCH `/ads/sites/{siteId}` Update the Ads configuration for a site

site-permissions

Invite, remove, or update users and teams permissions for a site. This provides a way to tightly control collaboration and visibility among your teammates.

POST `/orgs/{organizationId}/sites/{siteId}/permissions` Invite a user or a team to a site

GET `/orgs/{organizationId}/sites/{siteId}/permissions/teams` List an org team's permission in a site

PATCH `/orgs/{organizationId}/sites/{siteId}/permissions/teams/{teamId}`
Update an org team's permission in a site

DELETE `/orgs/{organizationId}/sites/{siteId}/permissions/teams/{teamId}`
Remove an org team from a site



site-insights

This API delivers insights about how visitors interact with your site, including page views and user engagement, helping you measure and optimize your content strategy.

POST `/orgs/{organizationId}/sites/{siteId}/agent-feedback` Submit agent feedback for a site



POST `/orgs/{organizationId}/sites/{siteId}/insights/events` Track site events



POST `/orgs/{organizationId}/sites/{siteId}/insights/events/aggregate`
Query a site's analytics events



GET `/orgs/{organizationId}/sites/{siteId}/insights/visitor-segments` List a site visitor segments



site-ai

Build advanced conversational AI experiences within your docs site that go beyond basic Q&A.

POST `/orgs/{organizationId}/sites/{siteId}/ai/response` Generate an AI response in a site

site-ask

Give your users a way to ask content-aware AI queries that are scoped entirely to the site's published documents.

POST `/orgs/{organizationId}/sites/{siteId}/ask` Ask a question in a site

GET `/orgs/{organizationId}/sites/{siteId}/ask/questions` List recommended questions to ask in a site

site-context

Manage the contextual records and topics used by your site to power AI experiences and insights.

{% openapi-schemas spec="gitbook" schemas="ContextRecord,ContextConnection,SiteTopic,SiteFinding,SiteFindingPage" grouped="false" %} The Site Context objects {% endopenapi-schemas %}

GET `/orgs/{organizationId}/sites/{siteId}/context-records` List all context records

PUT `/orgs/{organizationId}/sites/{siteId}/context-records` Create or update context records

GET `/orgs/{organizationId}/sites/{siteId}/context-records/{siteContextRecordId}`
Get a context record

GET `/orgs/{organizationId}/sites/{siteId}/scans` List all site scans

GET `/orgs/{organizationId}/sites/{siteId}/scans/{siteScanId}` Get a site scan by ID

GET `/orgs/{organizationId}/sites/{siteId}/findings` List all site context findings

GET `/orgs/{organizationId}/sites/{siteId}/findings/{siteFindingId}` Get a site finding by ID

PATCH `/orgs/{organizationId}/sites/{siteId}/findings/{siteFindingId}` Update a site finding

GET **/orgs/{organizationId}/sites/{siteId}/findings/{siteFindingId}/change-requests**
List change requests linked to a site finding

POST **/orgs/{organizationId}/sites/{siteId}/findings/{siteFindingId}/change-requests**
Process a site finding into change requests

GET **/orgs/{organizationId}/sites/{siteId}/findings/{siteFindingId}/pages**
List pages linked to a site finding

GET **/orgs/{organizationId}/sites/{siteId}/findings/{siteFindingId}/questions**
List questions linked to a site finding

GET **/orgs/{organizationId}/sites/{siteId}/findings/{siteFindingId}/records**
List records linked to a site finding

GET **/orgs/{organizationId}/sites/{siteId}/stats/findings**
Get aggregate statistics about the findings identified on a site

GET `/orgs/{organizationId}/sites/{siteId}/context-connections` List all context connections

POST `/orgs/{organizationId}/sites/{siteId}/context-connections` Create a context connection

GET `/orgs/{organizationId}/sites/{siteId}/context-connections/{siteContextConnectionId}`
Get a context connection

PATCH `/orgs/{organizationId}/sites/{siteId}/context-connections/{siteContextConnectionId}`
Update a context connection

DELETE `/orgs/{organizationId}/sites/{siteId}/context-connections/{siteContextConnectionId}`
Delete a context connection

POST **/orgs/{organizationId}/sites/{siteId}/context-connections/{siteContextConnectionId}/sync**
Trigger a sync for a context connection



POST **/orgs/{organizationId}/sites/{siteId}/context-connections/{siteContextConnectionId}/test**
Test a context connection's stored credentials



GET **/orgs/{organizationId}/sites/{siteId}/topics** List all topics



GET **/orgs/{organizationId}/sites/{siteId}/topics/{siteTopicId}** Get a topic



PATCH **/orgs/{organizationId}/sites/{siteId}/topics/{siteTopicId}** Update a topic



DELETE **/orgs/{organizationId}/sites/{siteId}/topics/{siteTopicId}/findings**
Delete all findings for a topic



site-questions

Inspect the canonical questions asked on your site, the generated answers linked to each question, and the sources used for each answer.

{% openapi-schemas spec="gitbook" schemas="SiteQuestion,SiteQuestionAnswer,SiteQuestionAnswerWithResponse,SiteQuestionAnswerSource" grouped="false" %} The Site Questions objects {% endopenapi-schemas %}

GET `/orgs/{organizationId}/sites/{siteId}/questions`
List the questions visitors asked a site's Ask AI assistant

GET `/orgs/{organizationId}/sites/{siteId}/questions/{siteQuestionId}`
Get a single Ask AI question by ID

GET `/orgs/{organizationId}/sites/{siteId}/questions/{siteQuestionId}/sources`
List the documentation sources used to answer a question

GET `/orgs/{organizationId}/sites/{siteId}/question-stats`
Get aggregate Ask AI question statistics for a site

GET `/orgs/{organizationId}/sites/{siteId}/answers` List the answers a site's Ask AI assistant generated

GET **/orgs/{organizationId}/sites/{siteId}/answers/{siteQuestionAnswerId}**
Get a single Ask AI answer by ID

GET **/orgs/{organizationId}/sites/{siteId}/answers/{siteQuestionAnswerId}/thread**
Get the conversation thread for an Ask AI answer

GET **/orgs/{organizationId}/sites/{siteId}/answers/{siteQuestionAnswerId}/sources**
List the documentation sources cited for an answer

collections

Collections let you bundle multiple spaces under a unified entity, making large-scale content easier to handle. You can sort content by subject, department, or any grouping logic.

{% openapi-schemas spec="gitbook" schemas="Collection" grouped="false" %} The Collection object {% endopenapi-schemas %}

GET **/collections/{collectionId}** Get a collection by its ID

PATCH **/collections/{collectionId}** Update a collection

DELETE `/collections/{collectionId}` Delete a collection

GET `/collections/{collectionId}/spaces` List all collection spaces

POST `/collections/{collectionId}/move` Move a collection to a new position.

POST `/collections/{collectionId}/transfer` Transfer a collection

GET `/orgs/{organizationId}/collections` List all collections

POST `/orgs/{organizationId}/collections` Create a collection

collection-permissions

Control which users and teams have access to a collection's spaces. This ensures only the right individuals can view or modify sensitive content.

POST `/collections/{collectionId}/permissions` Invite to a collection

GET `/collections/{collectionId}/permissions/teams` List an org team's permission in collection

PATCH `/collections/{collectionId}/permissions/teams/{teamId}`
Update an org team's permission in a collection

DELETE `/collections/{collectionId}/permissions/teams/{teamId}` Remove an org team from a collection

GET `/collections/{collectionId}/permissions/users` List collection user permissions

PATCH `/collections/{collectionId}/permissions/users/{userId}` Update a collection user permission

DELETE `/collections/{collectionId}/permissions/users/{userId}` Remove a user from a collection

spaces

Spaces are containers for your documentation or knowledge base content. Use this API to create new spaces, manage existing ones, and delete or archive spaces you no longer need.

{% openapi-schemas spec="gitbook" schemas="Space" grouped="false" %} The Space object {% endopenapi-schemas %}

GET `/spaces/{spaceId}` Get full details of a space by its ID

PATCH `/spaces/{spaceId}` Update a space's title, icon, or settings

DELETE `/spaces/{spaceId}` Delete a space

POST `/spaces/{spaceId}/duplicate` Create a full copy of a space

POST `/spaces/{spaceId}/restore` Restore a recently deleted space from the trash

POST `/spaces/{spaceId}/move` Move a space to a different collection or position

GET `/orgs/{organizationId}/spaces` List all spaces in an organization

POST `/orgs/{organizationId}/spaces` Create a new documentation space in an organization

POST `/orgs/{organizationId}/sites/{siteId}/site-spaces/{siteSpaceId}/duplicate`
Duplicate a space in a site

space-content

Handle your space content programmatically by creating, updating, or listing pages and files. Ideal for bulk operations or synchronizing with external systems.

GET `/spaces/{spaceId}/search` Full-text search across all pages in a space

GET `/spaces/{spaceId}/content` Get the current published content revision of a space

POST `/spaces/{spaceId}/content/template` Apply a content template to populate a space with initial pages

GET `/spaces/{spaceId}/content/pages` List all pages in a space with their hierarchy and metadata

GET `/spaces/{spaceId}/content/files` List all uploaded files and assets in a space

GET `/spaces/{spaceId}/content/files/{fileId}` Get a specific uploaded file from a space by its ID

GET **/spaces/{spaceId}/content/page/{pageId}** Get a single page from a space by its ID

GET **/spaces/{spaceId}/content/page/{pageId}/meta-links**
Get navigation metadata links for a page (previous, next, parent)

GET **/spaces/{spaceId}/content/path/{pagePath}** Get a page from a space by its URL path

GET **/spaces/{spaceId}/content/reusable-contents/{reusableContentId}**
Get a reusable content block from a space by its ID

POST **/spaces/{spaceId}/content/computed/document**
Compute and render a document from a structured content source

POST **/spaces/{spaceId}/content/computed/revision**
Compute and render a full revision from a structured content source

GET **/spaces/{spaceId}/documents/{documentId}** Get a raw document from a space by its document ID

GET **/spaces/{spaceId}/revisions/{revisionId}** Get a specific historical revision of a space

GET **/spaces/{spaceId}/revisions/{revisionId}/changes**
Get semantic content changes introduced by a revision

GET **/spaces/{spaceId}/revisions/{revisionId}/pages** List all pages in a specific historical revision of a space

GET **/spaces/{spaceId}/revisions/{revisionId}/files** List all files (images, assets) in a specific space revision

GET **/spaces/{spaceId}/revisions/{revisionId}/files/{fileId}**
Get a specific file from a space revision by its file ID

GET **/spaces/{spaceId}/revisions/{revisionId}/page/{pageId}**
Get a page from a specific historical revision by its page ID

GET **/spaces/{spaceId}/revisions/{revisionId}/page/{pageId}/document**
Get the raw document body of a page in a historical revision

GET **/spaces/{spaceId}/revisions/{revisionId}/path/{pagePath}**
Get a page from a specific historical revision by its URL path

GET **/spaces/{spaceId}/revisions/{revisionId}/page/{pageId}/meta-links**
List all meta links (prev/next navigation) for a page in a revision

GET **/spaces/{spaceId}/revisions/{revisionId}/reusable-contents/{reusableContentId}**
Get a reusable content block from a historical revision by its ID

GET **/spaces/{spaceId}/revisions/{revisionId}/reusable-contents/{reusableContentId}/document**
Get the document body of a reusable content block in a historical revision

GET **/spaces/{spaceId}/pdf** Get a temporary URL to download a space or page as PDF

space-comments

Comments are a powerful way to gather feedback on your documentation. Use this API to post, list, update, or delete comments and keep conversations organized.

{% openapi-schemas spec="gitbook" schemas="Comment" grouped="false" %} The Comment object {% endopenapi-schemas %}

GET **/spaces/{spaceId}/comments** List all top-level comments posted on a space

POST **/spaces/{spaceId}/comments** Post a new comment on a space or a specific page

GET **/spaces/{spaceId}/comments/{commentId}** Get a single comment from a space by its ID

DELETE **/spaces/{spaceId}/comments/{commentId}** Delete a space comment

PUT **/spaces/{spaceId}/comments/{commentId}** Update the body or status of a space comment

POST **/spaces/{spaceId}/comments/{commentId}/replies** Post a reply to an existing space comment

GET **/spaces/{spaceId}/comments/{commentId}/replies/{commentReplyId}**
Get a single reply to a space comment by its ID

PUT **/spaces/{spaceId}/comments/{commentId}/replies/{commentReplyId}**
Update the body of a reply to a space comment

DELETE **/spaces/{spaceId}/comments/{commentId}/replies/{commentReplyId}**
Delete a space comment reply

GET /spaces/{spaceId}/commenters List all users who have posted comments in a space

space-embeds

Automatically fetch metadata or previews for embedded resources such as videos, images, or external docs, enabling richer content experiences in your space.

GET /spaces/{spaceId}/embed Resolve a URL to an oEmbed object within a space

space-permissions

Give your collaborators the right level of access for specific spaces, or assign entire teams to your spaces and streamline the process of granting or revoking access at scale, without dealing with individual user roles.

POST /spaces/{spaceId}/permissions Invite a user or a team to a space

PATCH /spaces/{spaceId}/permissions/teams/{teamId} Update an org team's permission in a space

DELETE /spaces/{spaceId}/permissions/teams/{teamId} Remove an org team from a space

GET `/spaces/{spaceId}/permissions/users` List space user permissions

PATCH `/spaces/{spaceId}/permissions/users/{userId}` Update space user permissions

DELETE `/spaces/{spaceId}/permissions/users/{userId}` Remove a space user

GET `/spaces/{spaceId}/permissions/teams` List an org team's permission in a space

GET `/spaces/{spaceId}/permissions/aggregate` List all space users permissions

GET `/collections/{collectionId}/permissions/aggregate` List all collections users permissions

space-integrations

This API handles the registration and removal of integrations, automating how data flows between GitBook and your chosen external services.

GET `/spaces/{spaceId}/integrations` List all third-party integrations enabled on a space

GET `/spaces/{spaceId}/integration-blocks` List all custom content blocks provided by integrations in a space

space-git

Manage the linkage between your GitBook space and external Git repositories, enabling commits, merges, and pull requests directly tied to your documentation.

POST `/spaces/{spaceId}/git/import` Pull content into a space from a connected Git repository

POST `/spaces/{spaceId}/git/export` Push space content to a connected Git repository

GET `/spaces/{spaceId}/git/info` Get the Git Sync configuration and status for a space

change-requests

This API helps you keep your space clean by letting contributors propose changes, review them, and then merge or discard as needed.

{% openapi-schemas spec="gitbook" schemas="ChangeRequest" grouped="false" %} The ChangeRequest object {% endopenapi-schemas %}

POST `/spaces/{spaceId}/change-requests` Create a new change request in a space

GET `/spaces/{spaceId}/change-requests` List all change requests for a space

GET `/spaces/{spaceId}/change-requests/{changeRequestId}` Get a change request by its ID

PATCH `/spaces/{spaceId}/change-requests/{changeRequestId}`
Update a change request's subject, description, or status

POST `/spaces/{spaceId}/change-requests/{changeRequestId}/merge`
Merge a change request into the space's live content

POST **/spaces/{spaceId}/change-requests/{changeRequestId}/update**
Sync a change request with the latest live space content

GET **/spaces/{spaceId}/change-requests/{changeRequestId}/pdf**
Get a temporary URL to download a change request's content as PDF

GET **/orgs/{organizationId}/change-requests** List all change requests across an entire organization

change-request-content

Retrieve or update the pages and files tied to an open change request. This lets you preview alterations and merge them when ready.

GET **/spaces/{spaceId}/change-requests/{changeRequestId}/content**
Get the latest content revision of a change request

POST **/spaces/{spaceId}/change-requests/{changeRequestId}/content**
Apply a batch of content changes to a change request

GET **/spaces/{spaceId}/change-requests/{changeRequestId}/content/pages**
List all pages in a change request as a flat list

GET **/spaces/{spaceId}/change-requests/{changeRequestId}/content/files**
List all files (images/attachments) in a change request

GET **/spaces/{spaceId}/change-requests/{changeRequestId}/content/files/{fileId}**
Get a specific file in a change request by its ID

GET **/spaces/{spaceId}/change-requests/{changeRequestId}/content/page/{pageId}**
Get a page in a change request by its ID

GET **/spaces/{spaceId}/change-requests/{changeRequestId}/content/page/{pageId}/meta-links**
Get navigation meta-links (prev/next/parent) for a change request page

GET **/spaces/{spaceId}/change-requests/{changeRequestId}/content/reusable-contents/{reusableContentId}**
Get a reusable content block in a change request by its ID

GET **/spaces/{spaceId}/change-requests/{changeRequestId}/changes**
List semantic content changes in a change request vs its base

GET **/spaces/{spaceId}/change-requests/{changeRequestId}/content/path/{pagePath}**
Get a page in a change request by its URL path

change-request-contributors

Quickly access the full list of collaborators and their contributions within a change request for better traceability and communication.

{% openapi-schemas spec="gitbook" schemas="UserContributor" grouped="false" %} The UserContributor object {% endopenapi-schemas %}

GET **/spaces/{spaceId}/change-requests/{changeRequestId}/contributors**
List all users who have made edits to a change request

change-request-reviewers

Ensure quality by requesting and tracking reviewer feedback in your GitBook flow. This endpoint helps orchestrate the entire review cycle.

{% openapi-schemas spec="gitbook" schemas="ChangeRequestRequestedReviewer" grouped="false" %} The ChangeRequestRequestedReviewer object {% endopenapi-schemas %}

GET **/spaces/{spaceId}/change-requests/{changeRequestId}/requested-reviewers**
List all users requested to review a change request

POST **/spaces/{spaceId}/change-requests/{changeRequestId}/requested-reviewers**
Send review requests to users for a change request

DELETE `/spaces/{spaceId}/change-requests/{changeRequestId}/requested-reviewers/{userId}`
Remove a reviewer from a change request

change-request-comments

This API powers the inline discussion around any new or updated documentation. Participate in comment threads and resolve them after reaching consensus.

{% openapi-schemas spec="gitbook" schemas="Comment" grouped="false" %} The Comment object {% endopenapi-schemas %}

GET `/spaces/{spaceId}/change-requests/{changeRequestId}/comments`
List all top-level comments in a change request

POST `/spaces/{spaceId}/change-requests/{changeRequestId}/comments`
Post a new comment on a change request

GET `/spaces/{spaceId}/change-requests/{changeRequestId}/comments/{commentId}`
Get a single comment from a change request by its ID

DELETE `/spaces/{spaceId}/change-requests/{changeRequestId}/comments/{commentId}`
Delete a change request comment

PUT **/spaces/{spaceId}/change-requests/{changeRequestId}/comments/{commentId}**
Update the content or status of a change request comment

GET **/spaces/{spaceId}/change-requests/{changeRequestId}/comments/{commentId}/replies**
List all replies to a change request comment

POST **/spaces/{spaceId}/change-requests/{changeRequestId}/comments/{commentId}/replies**
Post a reply to a change request comment

GET **/spaces/{spaceId}/change-requests/{changeRequestId}/comments/{commentId}/replies/{commentReplyId}**
Get a single reply to a change request comment

PUT **/spaces/{spaceId}/change-requests/{changeRequestId}/comments/{commentId}/replies/{commentReplyId}**
Update the content of a change request comment reply

DELETE **/spaces/{spaceId}/change-requests/{changeRequestId}/comments/{commentId}/replies/{commentReplyId}**
Delete a change request comment reply

GET `/spaces/{spaceId}/change-requests/{changeRequestId}/commenters`
List all users who have commented in a change request

analytics

Gather data-driven insights on how users interact with your spaces, pages, or entire site. Analytics can highlight trends and guide future content improvements.

translations

The Translations API provides ways to localize your content into various languages. It supports custom strings, default language settings, and more.

GET `/orgs/{organizationId}/translations` List all the translations

POST `/orgs/{organizationId}/translations` Create a translation

GET `/orgs/{organizationId}/translations/{translationId}` Get a translation by its ID

PUT `/orgs/{organizationId}/translations/{translationId}` Update a translation

DELETE /orgs/{organizationId}/translations/{translationId} Delete a translation

POST /orgs/{organizationId}/translations/{translationId}/run Run a translation again

translation-languages

Enable or disable specific languages, configure default text direction, or adjust advanced translation settings to ensure clarity for your global audience.

{% openapi-schemas spec="gitbook" schemas="TranslationLanguageSettings" grouped="false" %}
The TranslationLanguageSettings object {% endopenapi-schemas %}

imports

The Imports API provides allows you to import content into GitBook.

GET /org/{organizationId}/imports List the import runs of an organization

POST /org/{organizationId}/imports Import content into a space from a website

GET /org/{organizationId}/imports/{importRunId} Get an import run

POST /org/{organizationId}/imports/{importRunId}/cancel Cancel an import run

glossary

Define terms and specify their translations for different languages to ensure consistent wording.

{% openapi-schemas spec="gitbook" schemas="GlossaryEntry" grouped="false" %} The GlossaryEntry object {% endopenapi-schemas %}

GET /orgs/{organizationId}/translations-glossary List glossary entries

PUT /orgs/{organizationId}/translations-glossary Update glossary entries

GET /orgs/{organizationId}/translations-glossary/{glossaryEntryId} Get a glossary entry by its ID

integrations

Expand the capabilities of GitBook by connecting it with various external platforms—CRM, finding trackers, or CI/CD pipelines—through standardized integration endpoints.

GET `/integrations` List all public integrations

GET `/integrations/{integrationName}` Get an integration by its name

POST `/integrations/{integrationName}` Publish an integration

DELETE `/integrations/{integrationName}` Unpublish an integration

GET `/integrations/{integrationName}/installations` List all integration installations

POST `/integrations/{integrationName}/installations` Install an integration

GET /integrations/{integrationName}/events List all integration events

GET /integrations/{integrationName}/events/{eventId} Get an integration event by its ID

GET /integrations/{integrationName}/spaces List all integration space installations

GET /integrations/{integrationName}/sites List all integration site installations

PUT /integrations/{integrationName}/dev Enable integration dev mode

DELETE /integrations/{integrationName}/dev Disable integration dev mode

GET `/integrations/{integrationName}/render` Render an integration UI with GET method

POST `/integrations/{integrationName}/render` Render an integration UI with POST method

POST `/integrations/{integrationName}/tasks` Queue an integration task

GET `/integrations/{integrationName}/installations/{installationId}`
Get an integration installation by its ID

PATCH `/integrations/{integrationName}/installations/{installationId}`
Update an integration installation

DELETE `/integrations/{integrationName}/installations/{installationId}` Uninstall an integration

POST `/integrations/{integrationName}/installations/{installationId}/tokens`
Create an integration installation API token

GET `/integrations/{integrationName}/installations/{installationId}/spaces`
List all space integration installations

GET `/integrations/{integrationName}/installations/{installationId}/spaces/{spaceId}`
Get an integration space installation

PATCH `/integrations/{integrationName}/installations/{installationId}/spaces/{spaceId}`
Update an integration space installation

DELETE `/integrations/{integrationName}/installations/{installationId}/spaces/{spaceId}`
Uninstall an integration from a space

GET `/integrations/{integrationName}/installations/{installationId}/sites`
List all site integration installations

POST `/integrations/{integrationName}/installations/{installationId}/sites`
Install an integration on a site

GET `/integrations/{integrationName}/installations/{installationId}/sites/{siteId}`
Get an integration site installation

PATCH `/integrations/{integrationName}/installations/{installationId}/sites/{siteId}`
Update an integration site installation

DELETE `/integrations/{integrationName}/installations/{installationId}/sites/{siteId}`
Uninstall an integration from a site

GET `/orgs/{organizationId}/integrations`
List all public integrations along with private ones trusted by the specific org.

GET **/orgs/{organizationId}/integrations/{integrationName}/installation_status**
Get the status of an integration

GET **/orgs/{organizationId}/installations** List all integration installations

GET **/orgs/{organizationId}/integrations/installations-status** List all integration statuses

GET **/orgs/{organizationId}/sites/{siteId}/integration-scripts**
List custom scripts injected into a site's published pages

GET **/orgs/{organizationId}/sites/{siteId}/integrations** List third-party integrations enabled on a site

urls

Manage official endpoints, direct deep links, or short links for your content. This allows you to keep track of multiple custom URLs or vanity links under one system.

GET **/urls/content** Resolve a URL to a content (space, collection, page)

GET **/urls/embed** Resolve a URL to an embed

GET ~~**/urls/published**~~ Resolve a URL of a published content.

Warning: Deprecated

POST **/urls/published** Resolve a URL of a published content.

openapi

The OpenAPI endpoints let you integrate your existing or newly generated OpenAPI definitions into GitBook. This includes uploading, updating, and retrieving specs.

{% openapi-schemas spec="gitbook" schemas="OpenAPISpec" grouped="false" %} The OpenAPISpec object {% endopenapi-schemas %}

GET **/orgs/{organizationId}/openapi** List all OpenAPI spec

POST **/orgs/{organizationId}/openapi** Create an OpenAPI spec

GET /orgs/{organizationId}/openapi/{specSlug} Get an OpenAPI spec by its slug

PUT /orgs/{organizationId}/openapi/{specSlug} Create or update an OpenAPI spec

PATCH /orgs/{organizationId}/openapi/{specSlug} Update OpenAPI spec visibility

DELETE /orgs/{organizationId}/openapi/{specSlug} Delete an OpenAPI spec

openapi-versions

Keep a history of your OpenAPI specs, enabling you to compare different versions, revert, or maintain multiple concurrent versions for testing or documentation.

{% openapi-schemas spec="gitbook" schemas="OpenAPISpecVersion" grouped="false" %} The OpenAPISpecVersion object {% endopenapi-schemas %}

GET /orgs/{organizationId}/openapi/{specSlug}/versions List all OpenAPI spec versions

GET **/orgs/{organizationId}/openapi/{specSlug}/versions/latest** Get the latest OpenAPI spec version

GET **/orgs/{organizationId}/openapi/{specSlug}/versions/latest/content**
Get the latest OpenAPI spec version content

GET **/orgs/{organizationId}/openapi/{specSlug}/versions/latest/content/raw**
Get the raw content of the latest OpenAPI spec version

GET **/orgs/{organizationId}/openapi/{specSlug}/versions/{versionId}**
Get an OpenAPI spec version by its ID

GET **/orgs/{organizationId}/openapi/{specSlug}/versions/{versionId}/content**
Get an OpenAPI spec version content by its ID

custom-fonts

Upload and manage custom fonts for branding or aesthetic purposes. Once added, fonts can be applied to your spaces or sites to achieve a unique look.

{% openapi-schemas spec="gitbook" schemas="CustomizationFontDefinition" grouped="false" %} The CustomizationFontDefinition object {% endopenapi-schemas %}

GET `/orgs/{organizationId}/fonts` List all custom fonts

PUT `/orgs/{organizationId}/fonts` Create a custom font

GET `/orgs/{organizationId}/fonts/{fontId}` Get a custom font by its ID

POST `/orgs/{organizationId}/fonts/{fontId}` Update a custom font

DELETE `/orgs/{organizationId}/fonts/{fontId}` Delete a custom font

billing Centralize billing activities here, including updating payment methods, adjusting subscriptions, or reviewing invoices. Simplify how you track and control costs.

hive Hive is a collaborative layer over your GitBook data, designed to streamline knowledge sharing, cross-project tasks, and reduce duplicate efforts among your teammates.

subdomains

Provide a branded subdomain for each organization to create a consistent user experience. This API supports subdomain creation, DNS checks, and more.

{% openapi-schemas spec="gitbook" schemas="Subdomain" grouped="false" %} The Subdomain object {% endopenapi-schemas %}

GET **/subdomains/{subdomain}** Get a subdomain

users

The Users API allows you to fetch data about GitBook users, including the authenticated account or other team members by ID. This is crucial for customizing permissions, personalizing content, or establishing user-specific flows.

{% openapi-schemas spec="gitbook" schemas="User" grouped="false" %} The User object {% endopenapi-schemas %}

GET **/user** Get profile of authenticated user

POST **/user/notifications/token** Create a JWT to access the in-app notifications service

GET **/users/{userId}** Get a user by its ID

PATCH **/users/{userId}** Update a user by its ID

teams

Teams offer a convenient way to assign roles and access to multiple users at once. This helps maintain large-scale projects more efficiently by reducing overhead in user-by-user management.

{% openapi-schemas spec="gitbook" schemas="Team" grouped="false" %} The Team object {% endopenapi-schemas %}

GET `/orgs/{organizationId}/teams` List all teams

PUT `/orgs/{organizationId}/teams` Create a team

GET `/orgs/{organizationId}/teams/{teamId}` Get a team

PATCH `/orgs/{organizationId}/teams/{teamId}` Update a team

DELETE `/orgs/{organizationId}/teams/{teamId}` Delete a team

team-members

Easily add or remove users from teams, as well as fine-tune their specific roles within a team to ensure secure, well-organized collaboration.

{% openapi-schemas spec="gitbook" schemas="TeamMember" grouped="false" %} The TeamMember object {% endopenapi-schemas %}

PUT `/orgs/{organizationId}/teams/{teamId}/members` Updates members of a team

GET `/orgs/{organizationId}/teams/{teamId}/members` List all team members

PUT `/orgs/{organizationId}/teams/{teamId}/members/{userId}` Add a team member

DELETE `/orgs/{organizationId}/teams/{teamId}/members/{userId}` Delete a team member

sso

Tie GitBook into your corporate identity management and authentication providers (like SAML or OAuth). This centralizes user authentication and improves security.

{% openapi-schemas spec="gitbook" schemas="Subdomain" grouped="false" %} The Subdomain object {% endopenapi-schemas %}

GET `/orgs/{organizationId}/saml` List all SAML providers

POST `/orgs/{organizationId}/saml` Create a new SAML provider

GET `/orgs/{organizationId}/saml/{samlProviderId}` Get a SAML provider by its ID

PATCH `/orgs/{organizationId}/saml/{samlProviderId}` Update a SAML provider

DELETE `/orgs/{organizationId}/saml/{samlProviderId}` Delete a SAML provider

GET `/orgs/{organizationId}/sso` List all SSO provider login infos

storage

Whether you're hosting images, documents, or other assets, Storage endpoints allow you to integrate those files into your documentation and spaces seamlessly.

POST `/orgs/{organizationId}/storage/upload` Create a signed URL to upload a file

custom-hostnames

Extend your brand identity by mapping personalized domain names to your docs. This can help unify your documentation site with your existing company properties.

{% openapi-schemas spec="gitbook" schemas="CustomHostname" grouped="false" %} The CustomHostname object {% endopenapi-schemas %}

GET `/custom-hostnames/{hostname}` Get a custom hostname

PATCH `/custom-hostnames/{hostname}` Revalidate a custom hostname DNS

DELETE `/custom-hostnames/{hostname}` Remove a custom hostname

system

Use these endpoints to monitor the overall health of GitBook's infrastructure or to retrieve version information for debugging and compliance purposes.

GET `/` Get API information

critical

GET `/user` Get profile of authenticated user

GET `/users/{userId}` Get a user by its ID

PATCH `/users/{userId}` Update a user by its ID

GET `/spaces/{spaceId}` Get full details of a space by its ID

GET `/spaces/{spaceId}/comments` List all top-level comments posted on a space

GET `/spaces/{spaceId}/commenters` List all users who have posted comments in a space

GET **/spaces/{spaceId}/change-requests/{changeRequestId}/commenters**
List all users who have commented in a change request

GET **/orgs** Get the list of organizations for the currently authenticated user

GET **/orgs/{organizationId}** Get an organization by its ID

GET **/orgs/{organizationId}/members/{userId}** Get an organization member by its ID

GET **/orgs/{organizationId}/integrations/installations-status** List all integration statuses

GET **/orgs/{organizationId}/sites** List all documentation sites in an organization

GET `/orgs/{organizationId}/sites/{siteId}/site-spaces` List all spaces linked to a site as content sources

change-requests-reviews

GET `/spaces/{spaceId}/change-requests/{changeRequestId}/reviews`
List all formal reviews submitted for a change request

POST `/spaces/{spaceId}/change-requests/{changeRequestId}/reviews`
Submit an approve or request-changes review for a change request

GET `/spaces/{spaceId}/change-requests/{changeRequestId}/reviews/{reviewId}`
Get a specific review on a change request by its ID

change-request-conversations

GET `/spaces/{spaceId}/change-requests/{changeRequestId}/conversations`
List AI agent conversations associated with a change request

PATCH `/spaces/{spaceId}/change-requests/{changeRequestId}/conversations/{conversationId}`
Update an AI agent conversation on a change request

DELETE `/spaces/{spaceId}/change-requests/{changeRequestId}/conversations/{conversationId}`
Delete an agent conversation

space-comment

GET `/spaces/{spaceId}/comments/{commentId}/replies` List all replies to a comment in a space

default

POST `/integrations/{integrationName}/installations/{installationId}/spaces`
Install an integration on a space

agents

GET `/orgs/{organizationId}/agent-instructions` Get Docs agent instructions for an organization

PUT `/orgs/{organizationId}/agent-instructions` Update Docs agent instructions for an organization

git

GET `/orgs/{organizationId}/sites/{siteId}/spaces/git/installations`
List the Git Sync installations for a site and its spaces

POST `/git/installations` Install a Git Sync provider on a target

GET `/git/installations/{installationId}` Get a Git Sync installation

PATCH `/git/installations/{installationId}` Update a Git Sync installation configuration

DELETE `/git/installations/{installationId}` Uninstall a Git Sync installation

GET **/git/installations/{installationId}/github/repos**
List GitHub repositories available for a Git Sync installation

GET **/git/installations/{installationId}/github/repos/{accountName}/{repositoryName}/branches**
List GitHub repository branches available for a Git Sync installation

GET **/git/installations/{installationId}/github/repos/{accountName}/{repositoryName}/file**
Get a file from a GitHub repository for a Git Sync installation

GET **/git/installations/{installationId}/gitlab/projects**
List GitLab projects available for a Git Sync installation

GET **/git/installations/{installationId}/gitlab/projects/{projectId}/branches**
List GitLab project branches available for a Git Sync installation

GET **/git/installations/{installationId}/gitlab/projects/{projectId}/file**
Get a file from a GitLab project for a Git Sync installation

site-users

GET **/orgs/{organizationId}/sites/{siteId}/permissions/aggregate** List all sites users permissions

GET **/orgs/{organizationId}/sites/{siteId}/permissions/users** List site user permissions

PATCH **/orgs/{organizationId}/sites/{siteId}/permissions/users/{userId}**
Update site user permissions

DELETE **/orgs/{organizationId}/sites/{siteId}/permissions/users/{userId}** Remove a site user

Schemas

ApiInformation > Expand all `object`

User › Expand all `object`

UserTokenInfo › Expand all `object`

APITemporaryToken › Expand all `object`

List › Expand all `object`

APITokenLabel `string` `≤ 50 characters`

Timestamp `string` `date-time`

UserAPIToken › Expand all `object`

UserAPITokenExtended › Expand all `(any & object)`

URL `string` `uri` `≤ 2048 characters`

EntityId › Expand all `string` `matches ^[a-zA-Z0-9_-]+$`

SpaceTitle › Expand all `string` `≤ 50 characters`

Emoji › Expand all `string` `emoji` `≤ 50 characters`

ContentVisibility › Expand all `string`

SpaceEditMode › Expand all `string`

MergeRulesConfigurationInherit › Expand all `object`

Expression › Expand all `string` `[0, 1024] characters`

MergeRule › Expand all `(object | object | object | object | object)`

MergeRulesConfigurationRules › Expand all `object`

MergeRulesConfigurationNone › Expand all `object`

MergeRulesStandaloneConfiguration › Expand all `(any | any)`

MergeRulesSpaceConfiguration › Expand all `(any | any)`

TranslationLanguage › Expand all `string`

GitSyncInstallationStatus › Expand all `string`

GitSyncProvider › Expand all `string`

GitSyncOperationState › Expand all `string`

GitSyncOperationDirection › Expand all `string`

GitSyncOperationErrorAction › Expand all `object`

GitSyncState › Expand all `object`

ContentImportSource › Expand all `(object | object)`

ContentImportTarget › Expand all `object`

ContentImportRun › Expand all `object`

Custom backend for authenticated access › Expand all `object`

Integration backend for authenticated access › Expand all `object`

VisitorAuth › Expand all `(any | (any & object))`

MemberRole › Expand all `string`

MemberRoleOrGuest › Expand all `(any | null)`

DefaultLevel › Expand all `(any | string)`

Space › Expand all `object`

SpacePointer › Expand all `object`

CollectionPointer › Expand all `object`

ContentPosition › Expand all `object`

IntegrationBlockMarkdown › Expand all `(object)`

IntegrationBlock › Expand all `object`

Embed › Expand all `(object & (object | object | object))`

SearchResultScore › Expand all `number` `≥ 0`

SearchSectionResult › Expand all `object`

SearchPageResult › Expand all `object`

UpdateSpaceGitInfo › Expand all `object`

ImportGitRepository › Expand all `object`

ExportToGitRepository › Expand all `object`

InviteUsersAndTeams › Expand all `object | (object | object)`

UserContentPermission › Expand all `object`

OrganizationTeamTitle › Expand all `string` `[1, 64] characters`

OrganizationTeam › Expand all `object`

Icon › Expand all `string` `icon` `≤ 50 characters`

RevisionPageBase › Expand all `object`

MarkdownDocument › Expand all `object`

DocumentMarkBold › Expand all `object`

DocumentMarkItalic › Expand all `object`

DocumentMarkCode › Expand all `object`

DocumentMarkKeyboard › Expand all `object`

DocumentMarkStrikethrough › Expand all `object`

DocumentTextColor › Expand all `string`

DocumentMarkColor › Expand all `object`

DocumentMarkSuperscript › Expand all `object`

DocumentMarkSubscript › Expand all `object`

DocumentTextMark › Expand all `(any | any | any | any | any | any | any | any)`

DocumentTextLeaf › Expand all `object`

DocumentText › Expand all `object`

ContentRefURL › Expand all `object`

ContentRefFile › Expand all `object`

DocumentInlineImage › Expand all `object`

ContentRefPage › Expand all `object`

ContentRefAnchor › Expand all `object`

ContentRefUser › Expand all `object`

ContentRefCollection › Expand all `object`

ContentRefSpace › Expand all `object`

ContentRefReusableContent › Expand all `object`

ContentRefTag › Expand all `object`

ContentRefOpenAPI › Expand all `object`

ContentRef › Expand all `(any | any | any | any | any | any | any | any | any | any)`

DocumentInlineLink › Expand all `object`

DocumentInlineEmoji › Expand all `object`

DocumentInlineIcon › Expand all `object`

DocumentInlineExpression › Expand all `object`

DocumentInlineMath › Expand all `object`

DocumentBlockParagraph › Expand all `object`

DocumentInline › Expand all `(any | any | any | any | any | any | any | any | any)`

TextAlignment › Expand all `string`

DocumentBlockHeading › Expand all `object`

DocumentBlocksEssentials › Expand all `(any | any | any | any | any | any)`

DocumentInlineAnnotation › Expand all `object`

DocumentBlockCodeLine › Expand all `object`

DocumentBlockCode › Expand all `object`

DocumentBlockEmbed › Expand all `object`

PlainObject › Expand all `object`

ContentKitDefaultAction › Expand all `(object | object | object | object | object)`

ContentKitAction › Expand all `(object | any)`

DocumentBlockIntegration › Expand all `object`

DocumentBlockHint › Expand all `object`

DocumentBlockQuote › Expand all `object`

DocumentBlockMath › Expand all `object`

DocumentTableViewGrid › Expand all `object`

DocumentTableViewCards › Expand all `object`

CardsImageObjectFit › Expand all `string`

DocumentTableImageRecord › Expand all `(any | any | object)`

DocumentTableRecord › Expand all `object`

DocumentTableDefinitionBase › Expand all `object`

VerticalAlignment › Expand all `string`

DocumentTableDefinitionText › Expand all `(any & object)`

DocumentTableDefinitionNumber › Expand all `(any & object)`

DocumentTableDefinitionCheckbox › Expand all `(any & object)`

DocumentTableDefinitionFiles › Expand all `(any & object)`

DocumentTableDefinitionUsers › Expand all `(any & object)`

DocumentTableDefinitionRating › Expand all `(any & object)`

DocumentTableSelectOption › Expand all `object`

DocumentTableDefinitionSelect › Expand all `(any & object)`

DocumentTableDefinitionContentRef › Expand all `(any & object)`

DocumentTableDefinitionImage › Expand all `(any & object)`

DocumentTableDefinition › Expand all `(any | any | any | any | any | any | any | any | any)`

DocumentFragment › Expand all `object`

DocumentBlockTable › Expand all `object`

DocumentBlockListItem › Expand all `object`

DocumentBlockListOrdered › Expand all `object`

DocumentBlockListUnordered › Expand all `object`

DocumentBlockListTasks › Expand all `object`

DocumentBlockDivider › Expand all `object`

DocumentBlockPrompt › Expand all `object`

DocumentBlocksTopLevels › Expand all `(any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any)`

DocumentBlockIf › Expand all `object`

Length › Expand all `(number | object)`

DocumentBlockImage › Expand all `object`

DocumentBlockImages > Expand all `object`

DocumentBlockFile > Expand all `object`

DocumentBlockDrawing > Expand all `object`

DocumentBlockReusableContent > Expand all `object`

DocumentBlockExpandable > Expand all `object`

DocumentBlockContentRef > Expand all `object`

DocumentBlockTabsItem > Expand all `object`

DocumentBlockTabs > Expand all `object`

OpenAPIOperationPointer > Expand all `object`

DocumentBlockOpenAPI > Expand all `object`

DocumentBlockOpenAPIOperation > Expand all `object`

OpenAPISchemasPointer > Expand all `object`

DocumentBlockOpenAPISchemas > Expand all `object`

OpenAPIWebhookPointer > Expand all `object`

DocumentBlockOpenAPIWebhook > Expand all `object`

DocumentBlockStepperStep > Expand all `object`

DocumentBlockStepper > Expand all `object`

DocumentBlockColumn > Expand all `object`

DocumentBlockColumns > Expand all `object`

DocumentBlockUpdate > Expand all `object`

DocumentBlockUpdates > Expand all `object`

DocumentBlock > Expand all `(any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any)`

DocumentInlineMention › Expand all `object`

DocumentAction › Expand all `object | (object | object | object)`

DocumentInlineButton › Expand all `object`

JSONDocument › Expand all `object`

Document › Expand all `(any | object | object)`

RevisionPageSlug › Expand all `string` `[0, 100] characters`

RevisionPageDocument › Expand all `(any & any & object & (object | object))`

RevisionPageLink › Expand all `(any & object)`

OpenAPISpecVisibility › Expand all `string`

ComputedContentDependencyOpenAPI › Expand all `object`

ComputedContentSourceOpenAPIBase › Expand all `object`

ComputedContentSourceRevisionOpenAPI › Expand all `(any & object)`

TranslationRef › Expand all `object`

TranslationResult › Expand all `object`

ComputedContentDependencyTranslation › Expand all `object`

ComputedContentSourceRevisionTranslation › Expand all `object`

ComputedContentDependency › Expand all `object`

ComputedContentDependencySpace › Expand all `object`

ComputedContentDependencyResolved › Expand all `(any | any | any)`

ComputedContentSourceIntegration › Expand all `object`

ComputedContentSourceRevision › Expand all `(any | any | any)`

RevisionPageComputed › Expand all `(any & object)`

GitSyncBlob › Expand all `object`

RevisionPageLayoutOptionsWidth › Expand all `string`

RevisionPageLayoutOptionsCoverSize › Expand all `string`

RevisionPageLayoutOptionsCoverMask › Expand all `string`

RevisionPageLayoutOptions › Expand all `object`

RevisionPageDocumentCoverTextColor › Expand all `string`

RevisionPageDocumentCover › Expand all `object`

VariableValue › Expand all `(string | number | boolean)`

Variables › Expand all `object`

RevisionPageMetaLinkTarget › Expand all `(any | any)`

RevisionPageMetaLinks › Expand all `object`

RevisionPageTag › Expand all `object`

ComputedContentSourceDocumentOpenAPI › Expand all `(any & object)`

ComputedContentSourceDocumentTranslation › Expand all `object`

ComputedContentSourceDocument › Expand all `(any | any | any)`

RevisionPageGroup › Expand all `(any & object)`

RevisionPage › Expand all `(any | any | any | any)`

RevisionFile › Expand all `object`

RevisionReusableContent › Expand all `(object & (object | object))`

RevisionTag › Expand all `(object & (object | object))`

GitSyncCommit › Expand all `object`

RevisionBase › Expand all `object`

RevisionTypeEdits › Expand all `(any & object)`

ChangeRequestStatus › Expand all `string`

ChangeRequestSubject › Expand all `string` `[0, 100] characters`

ChangeRequestLinkTitle › Expand all `string` `≤ 128 characters`

ChangeRequestLinkInput › Expand all `object`

ChangeRequestLinkExpanded › Expand all `(object | object)`

ChangeRequestLink › Expand all `(any & object)`

ChangeRequestLinks › Expand all `array<any>` `≤ 10 items`

ChangeRequest › Expand all `object`

RevisionTypeMerge › Expand all `(any & object)`

RevisionTypeRollback › Expand all `(any & object)`

RevisionTypeUpdate › Expand all `(any & object)`

RevisionTypeComputed › Expand all `(any & object)`

Revision › Expand all `(any | any | any | any | any)`

SpaceTemplateParams › Expand all `object`

ApplySpaceTemplate › Expand all `object`

ChangeRequestOrderBy › Expand all `string`

ChangeRequestReviewStatus › Expand all `string`

EmojiReaction › Expand all `object`

EmojiReactions › Expand all `array<any>`

UserContributor › Expand all `object`

TableCellTarget › Expand all `object`

Comment › Expand all `(object & (object | object))`

ChangeRequestReview › Expand all `object`

Team › Expand all `object`

ChangeRequestRequestedReviewer › Expand all `object | (object & object | (object | object))`

AgentConversation › Expand all `object`

PostCommentSchema › Expand all `object`

UpdateCommentSchema › Expand all `object`

CommentReply › Expand all `object`

PostCommentReplySchema › Expand all `object`

ChangeRequestUserContributor › Expand all `(any & object)`

RevisionPageUpdate › Expand all `object`

ChangeRequestContentChangeUpdatePage › Expand all `(any & object)`

ChangeRequestContentChangeInsertPage › Expand all `(any & object)`

ChangeRequestContentChangeDeletePage › Expand all `object`

ChangeRequestContentChangeRevertPage › Expand all `object`

ChangeRequestContentChangeInsertFiles › Expand all `object`

ChangeRequestContentChange › Expand all `(any | any | any | any | any)`

ChangeRequestContentUpdatePageRef › Expand all `object`

ChangeRequestContentUpdateInsertedPage › Expand all `object`

ChangeRequestContentUpdateUpdatedPage › Expand all `object`

ChangeRequestContentUpdateDeletedPage › Expand all `object`

ChangeRequestContentUpdateChange › Expand all `(any | any | any)`

ChangeRequestContentUpdate › Expand all `object`

RevisionPageType › Expand all `string`

ChangedRevisionPage › Expand all `object`

RevisionSemanticChangePageCreated › Expand all `object`

ChangeAttributeString › Expand all `object`

ChangeAttributeRevisionPageDocumentCover › Expand all `object`

RevisionPageLayoutPreset › Expand all `string`

RevisionPageLayout › Expand all `(any | any)`

ChangeAttributeRevisionPageLayout › Expand all `object`

ChangeAttributeVariables › Expand all `object`

RevisionPageDocumentChangeAttributes › Expand all `object` `≥ 1 properties`

RevisionPageGroupChangeAttributes › Expand all `object` `≥ 1 properties`

ChangeAttributeContentReference › Expand all `object`

RevisionPageLinkChangeAttributes › Expand all `object` `≥ 1 properties`

RevisionSemanticChangePageEdited › Expand all `object`

RevisionSemanticChangePageDeleted › Expand all `object`

RevisionSemanticChangePageMoved › Expand all `object`

ChangedRevisionFile › Expand all `object`

RevisionSemanticChangeFileCreated › Expand all `object`

ChangeAttributeNumber › Expand all `object`

RevisionFileImageDimensions › Expand all `object`

ChangeAttributeRevisionFileImageDimensions › Expand all `object`

RevisionFileChangeAttributes › Expand all `object` `≥ 1 properties`

RevisionSemanticChangeFileEdited › Expand all `object`

RevisionSemanticChangeFileDeleted › Expand all `object`

ChangeAttributeVariable › Expand all `object`

RevisionSemanticChangeVariablesEdited › Expand all `object`

ChangedRevisionReusableContent › Expand all `object`

RevisionSemanticChangeReusableContentCreated › Expand all `object`

RevisionSemanticChangeReusableContentDeleted › Expand all `object`

RevisionReusableContentChangeAttributes › Expand all `object` `≥ 1 properties`

RevisionSemanticChangeReusableContentEdited › Expand all `object`

ChangedRevisionTag › Expand all `object`

RevisionSemanticChangeTagCreated › Expand all `object`

RevisionSemanticChangeTagDeleted › Expand all `object`

RevisionTagChangeAttributes › Expand all `object` `≥ 1 properties`

RevisionSemanticChangeTagEdited › Expand all `object`

RevisionSemanticChange › Expand all `(any | any | any | any | any | any | any | any | any | any | any | any | any | any)`

RevisionSemanticChanges › Expand all `object`

UpdateCommentReplySchema › Expand all `object`

OrganizationMember › Expand all `object`

IntegrationTitle › Expand all `string` `[2, 30] characters`

IntegrationDescription › Expand all `string` `≤ 100 characters`

IntegrationSummary › Expand all `string` `≤ 2048 characters`

IntegrationTarget › Expand all `string`

IntegrationVisibility › Expand all `string`

IntegrationScope › Expand all `string`

IntegrationScopes › Expand all `array<any>`

IntegrationCategory › Expand all `string`

IntegrationCategories › Expand all `array<any>`

IntegrationBlocks › Expand all `array<any>`

IntegrationConfigurationComponent › Expand all `object`

IntegrationContentSource › Expand all `object`

IntegrationPropertyTitle › Expand all `string` `[2, 50] characters`

IntegrationConfigurationSchema › Expand all `object`

IntegrationConfiguration › Expand all `(any | any)`

IntegrationConfigurations › Expand all `object`

IntegrationExternalLinks › Expand all `array<object>` `≤ 5 items`

OrganizationTitle › Expand all `string` `[2, 255] characters` `matches \S.*\S`

OrganizationEmailDomains › Expand all `array<string>`

OrganizationHostname › Expand all `string` `[3, 32] characters`

OrganizationType › Expand all `string`

OrganizationUseCase › Expand all `string`

OrganizationCommunityType › Expand all `string`

SitePointer › Expand all `object`

OrganizationDefaultContent › Expand all `(any)`

BillingProduct › Expand all `string`

BillingInterval › Expand all `string`

OrganizationPricePair › Expand all `object`

OrganizationPricing › Expand all `object`

BillingMeterAddon › Expand all `object`

BillingCreditsBundle › Expand all `string`

OrganizationBilling › Expand all `object`

BillingTrialStatus › Expand all `string`

BlockSource › Expand all `string`

BlockReason › Expand all `string` `[1, 255] characters`

Organization › Expand all `object`

IntegrationContentSecurityPolicy › Expand all `(string | object)`

Integration › Expand all `object`

SpaceIntegrationBlocks › Expand all `array<object>`

CollectionTitle › Expand all `string` `≤ 50 characters`

CollectionDescription › Expand all `string` `[0, 100] characters`

Collection › Expand all `object`

IntegrationSecrets › Expand all `object` `≤ 20 properties`

PublishIntegration › Expand all `object`

IntegrationInstallationStatus › Expand all `string`

IntegrationInstallationSpaceSelection › Expand all `string`

IntegrationInstallationSiteSelection › Expand all `string`

IntegrationInstallationConfiguration › Expand all `object`

IntegrationInstallationExternalIds › Expand all `array<string>` `≤ 5 items`

OrganizationTarget › Expand all `object`

IntegrationInstallationTarget › Expand all `(any)`

IntegrationNetwork › Expand all `object`

IntegrationInstallation › Expand all `object`

BaseEvent › Expand all `object`

InstallationEvent › Expand all `(any & object)`

InstallationSetupEvent › Expand all `(any & object)`

InstallationDeletedEvent › Expand all `(any & object)`

SpaceEvent › Expand all `(any & object)`

SpaceInstallationSetupEvent › Expand all `(any & object)`

SpaceInstallationDeletedEvent › Expand all `(any & object)`

SiteEvent › Expand all `(any & object)`

SiteInstallationSetupEvent › Expand all `(any & object)`

SiteInstallationDeletedEvent › Expand all `(any & object)`

EventVisitor › Expand all `object`

SiteViewEvent › Expand all `(any & object)`

SpaceContentUpdatedEvent › Expand all `(any & object)`

SpaceGitSyncCompletedEvent › Expand all `(any & object)`

SpaceGitSyncStartedEvent › Expand all `(any & object)`

SpaceVisibilityUpdatedEvent › Expand all `(any & object)`

TaskEvent › Expand all `(any & object)`

FetchRequest › Expand all `object`

FetchEvent › Expand all `(any & object)`

FetchPublishedScriptEvent › Expand all `(any & object)`

FetchVisitorAuthenticationEvent › Expand all `(any & object)`

ContentKitContextBase › Expand all `object`

ContentKitContextConfigurationAccount › Expand all `(any & object)`

ContentKitContextConfigurationSpace › Expand all `(any & object)`

ContentKitContextConfigurationSite › Expand all `(any & object)`

ContentKitContextConfigurationContentSource › Expand all `(any & object)`

ContentKitContextDocument › Expand all `(any & object)`

ContentKitContext › Expand all `(any | any | any | any | any)`

UIRenderEvent › Expand all `((any | any | any) & object)`

ContentComputeEvent › Expand all `(any & object)`

ContentComputeDocumentEvent › Expand all `(any & object)`

ContentComputeRevisionEvent › Expand all `(any & object)`

PageFeedbackRating › Expand all `string`

PageFeedbackEvent › Expand all `(any & object)`

Event › Expand all `(any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any)`

IntegrationEvent › Expand all `object`

IntegrationEventLog › Expand all `object`

IntegrationEventTrace › Expand all `object`

IntegrationContentInstallationBase › Expand all `object`

IntegrationSpaceInstallation › Expand all `(any & object)`

SiteType › Expand all `string`

SiteTitle › Expand all `string` `[2, 128] characters`

CustomizationThemedURL › Expand all `object`

CustomizationFavicon › Expand all `(object | object | object)`

SiteHostname › Expand all `string` `≤ 512 characters` `matches ^([a-z0-9]([a-z0-9-]{0,61}[a-z0-9])?[.]){2,}[a-z0-9][a-z0-9-]{0,61}[a-z0-9]$`

SiteBasename › Expand all `string` `[1, 100] characters`

SiteProxyOrigin › Expand all `string` `≤ 512 characters` `matches ^([\w-]+\.)*[\w-]+\.[a-zA-Z]{2,}(\/[\w-]+)+$`

SiteProxy › Expand all `object`

SiteVisibility › Expand all `string`

SiteAdaptiveContent › Expand all `object`

SiteAdsTopic › Expand all `string`

SiteAds › Expand all `(object | object | object | object)`

SiteFeatureKey › Expand all `string`

SiteCustomizationFeature › Expand all `string`

SiteFeature › Expand all `object`

Site › Expand all `object`

IntegrationSiteInstallation › Expand all `(any & object)`

ContentKitIcon › Expand all `string`

ContentKitConfirm › Expand all `object`

ContentKitButton › Expand all `object`

ContentKitTextInput › Expand all `object`

ContentKitDescendantElement › Expand all `(any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any)`

ContentKitHStack › Expand all `object`

ContentKitVStack › Expand all `object`

ContentKitBox › Expand all `object`

ContentKitDivider › Expand all `object`

ContentKitDynamicBinding › Expand all `object`

ContentKitWebFrame › Expand all `object`

ContentKitCodeBlock › Expand all `object`

ContentKitMarkdown › Expand all `object`

ContentKitText › Expand all `object`

ContentKitURL › Expand all `object`

ContentKitLink › Expand all `object`

ContentKitImage › Expand all `object`

ContentKitInlineElement › Expand all `(any | any | any)`

ContentKitCard › Expand all `object`

ContentKitBuiltInSource › Expand all `object`

ContentKitSelectOption › Expand all `object`

ContentKitSelect › Expand all `object`

ContentKitSwitch › Expand all `object`

ContentKitRadio › Expand all `object`

ContentKitCheckbox › Expand all `object`

ContentKitInput › Expand all `object`

ContentKitHint › Expand all `object`

ContentKitStepperStep › Expand all `object`

ContentKitBlockControl › Expand all `object`

ContentKitBlock › Expand all `object`

ContentKitModal › Expand all `object`

ContentKitStepper › Expand all `object`

ContentKitConfiguration › Expand all `object`

ContentKitRootElement › Expand all `(any | any | any)`

ContentKitRenderOutputElement › Expand all `object`

ContentKitRenderOutputComplete › Expand all `object`

ContentKitRenderOutput › Expand all `object | (any | any)`

RenderIntegrationUI › Expand all `object`

UpdateIntegrationInstallation › Expand all `object`

UpdateIntegrationSpaceInstallation › Expand all `object`

UpdateIntegrationSiteInstallation › Expand all `object`

CreateOrganization › Expand all `object`

SiteSectionTitle › Expand all `string` `[2, 128] characters`

LocalizedString128 › Expand all `object`

SiteSectionDescription › Expand all `string` `[0, 256] characters`

LocalizedString256 › Expand all `object`

SiteSectionPath › Expand all `string` `[1, 100] characters`

SiteSpacePath › Expand all `string` `[1, 100] characters`

SiteSpace › Expand all `object`

SiteSection › Expand all `object`

SiteSectionGroupTitle › Expand all `string` `[1, 100] characters`

SiteSectionGroup › Expand all `object`

SiteStructure › Expand all `(object | object)`

OrganizationAllSite › Expand all `object`

OrganizationAllCollection › Expand all `object`

OrganizationAllSpace › Expand all `object`

OrganizationAllContent › Expand all `object`

AuditEventAction › Expand all `object`

AuditEventActor › Expand all `object`

AuditEventTarget › Expand all `object`

AuditEvent › Expand all `object`

AuditEventDetails › Expand all `(any & object)`

OrganizationStyleguide › Expand all `object`

OrganizationStyleguides › Expand all `object`

StyleguideTemplate › Expand all `object`

StyleguideTemplates › Expand all `object`

MemberContentPermission › Expand all `object`

MemberSitePermission › Expand all `object`

TeamMemberRole › Expand all `string`

TeamMember › Expand all `object`

OrganizationTeamMember › Expand all `object`

UpdateMembersInOrganizationTeam › Expand all `object`

Email › Expand all `string` `email`

InviteUsersToOrganization › Expand all `object`

InviteLinkToCollection › Expand all `object`

InviteLinkToSpace › Expand all `object`

InviteLinkToOrganization › Expand all `object`

CreateInviteToOrganization › Expand all `object`

CreateInviteToSpace › Expand all `object`

CreateInviteToCollection › Expand all `object`

CreateOrganizationInvite › Expand all `(any | any | any)`

OrganizationInviteLink › Expand all `object | (any | any | any)`

SubscriptionChanges › Expand all `object`

BillingCoupon › Expand all `string` `[1, 500] characters`

BillingMeter › Expand all `string`

UpgradeOrganizationBilling › Expand all `object`

BillingInvoiceSummaryLine › Expand all `object`

BillingInvoiceAdjustment › Expand all `object`

BillingCreditsTotals › Expand all `object`

BillingInvoicePreview › Expand all `object`

BillingUpgrade › Expand all `(object | object | object | object | object)`

MigrateOrganizationParameters › Expand all `object`

Error › Expand all `object`

BillingDiscount › Expand all `object`

SitePageviews › Expand all `object`

BillingPortal › Expand all `object`

BillingSwitchAction › Expand all `string`

BillingMeterUsage › Expand all `object`

SearchSpaceResult › Expand all `object`

CreateSpace › Expand all `(object & (object | (object | object | object)))`

InstalledIntegrationTarget › Expand all `(object | object | object)`

InstalledIntegration › Expand all `object`

SAMLProviderLabel `string` `[1, 30] characters`

SAMLProviderEntityID `string` `≤ 1024 characters`

SAMLProviderCertificate `string` `≤ 10000 characters`

SAMLProviderStatus › Expand all `string`

OrganizationSAMLProvider › Expand all `object`

OrganizationSSOProviderLogin › Expand all `object`

OrganizationUsageSpaces › Expand all `object`

OrganizationUsageCollections › Expand all `object`

OrganizationUsageSites › Expand all `object | (object | object)`

OrganizationUsageTeams › Expand all `object`

OrganizationUsageMembers › Expand all `object`

OrganizationUsageTeamMembers › Expand all `object`

OrganizationUsage › Expand all `object`

SearchAIQuery › Expand all `object`

Page source › Expand all `object`

Site context record source › Expand all `object`

SearchAIAnswerSource › Expand all `(any | any)`

SearchAIAnswer › Expand all `object`

SearchAIRecommendedQuestions › Expand all `object`

SearchAIRecommendedQuestionStream › Expand all `object`

SearchAIAnswerStream › Expand all `object`

OpenAPISpecSlug › Expand all `string` `[1, 100] characters` `matches ^[a-zA-Z0-9]+(?:-[a-zA-Z0-9]+)*$`

OpenAPISpecProcessingState › Expand all `any`

OpenAPISpecProcessingErrorCode › Expand all `any`

OpenAPIErrorObject › Expand all `object`

OpenAPISpec › Expand all `object`

OpenAPISpecSource › Expand all `(object | object)`

OpenAPISpecVersion › Expand all `object`

OpenAPISpecContent › Expand all `object`

OpenAPISpecRawContent › Expand all `object`

OrganizationAgentInstructions › Expand all `object`

TranslationStatus › Expand all `string`

TranslationSource › Expand all `object`

Translation › Expand all `object`

GlossaryTranslations › Expand all `object`

GlossaryEntry › Expand all `object`

GlossaryBatchOperation › Expand all `(object | object | object)`

StorageFileMetadata › Expand all `object`

StorageUploadKind › Expand all `string`

StorageUploadURL › Expand all `object`

FontFamily › Expand all `string` `[1, 50] characters`

FontWeight › Expand all `integer` `[1, 1000]`

FontSource › Expand all `object`

FontFace › Expand all `object`

CustomizationFontDefinitionInput › Expand all `object`

CustomizationFontDefinition › Expand all `(any & object)`

StorageFileKey › Expand all `string` `[1, 512] characters`

SitePublishOperationPreviewResponse › Expand all `(object | object | object | object)`

GitSyncInstallationPriority › Expand all `string`

GitSyncInstallationSetupCommon › Expand all `object`

GitSyncInstallationSetupGitHub › Expand all `object`

GitSyncInstallationSetupGitLab › Expand all `object`

GitSyncInstallationSetup › Expand all `(any & (any | any))`

GitSyncInstallationTarget › Expand all `(object | object)`

GitSyncInstallationProvider › Expand all `string`

GitRepositoryConnection › Expand all `object`

GitRepositoryRef › Expand all `object`

GitSyncRoot › Expand all `object`

GitSyncInstallation › Expand all `(any & object)`

SiteAdaptiveDeterministicJSONSchemaPrimitives › Expand all `(object | object)`

SiteAdaptiveJSONSchemaPrimitives › Expand all `(any | object | object)`

SiteAdaptiveJSONSchemaClaimsProperties › Expand all `(any | object | object)`

SiteAdaptiveJSONSchema › Expand all `object`

SiteAdaptiveSchema › Expand all `object`

SiteAdaptiveTemplateCondition › Expand all `object`

CustomizationTheme › Expand all `string`

Color `string` `matches ^#(?:[0-9a-fA-F]{3}){1,2}$`

CustomizationThemedColor › Expand all `object`

CustomizationTint › Expand all `object`

CustomizationCorners › Expand all `string`

CustomizationDepth › Expand all `string`

CustomizationLinksStyle › Expand all `string`

CustomizationDefaultFont › Expand all `string`

CustomizationFont › Expand all `(any | any)`

CustomizationDefaultMonospaceFont › Expand all `string`

CustomizationMonospaceFont › Expand all `(any | any)`

CustomizationBackground › Expand all `deprecated` `string`

CustomizationIconsStyle › Expand all `string`

CustomizationCodeTheme › Expand all `string`

CustomizationThemedCodeTheme › Expand all `object`

CustomizationSidebarBackgroundStyle › Expand all `string`

CustomizationSidebarListStyle › Expand all `string`

CustomizationSearchStyle › Expand all `string`

CustomizationLocale › Expand all `deprecated` `string`

CustomizationHeaderPreset › Expand all `deprecated` `string`

LocalizedString › Expand all `object`

CustomizationContentLinkTitle `string` `≤ 64 characters`

LocalizedString64 › Expand all `object`

CustomizationContentLink › Expand all `object`

CustomizationHeaderItem › Expand all `object`

CustomizationFooterGroup › Expand all `object`

CustomizationAnnouncementMessage › Expand all `string` `[2, 128] characters`

CustomizationAnnouncement › Expand all `object`

CustomizationDefaultThemeMode › Expand all `string`

CustomizationAIMode › Expand all `string`

CustomizationAIGreeting › Expand all `string` `≤ 256 characters`

CustomizationSuggestedQuestion `string` `[3, 64] characters`

CustomizationSuggestedQuestions › Expand all `array<any>` `≤ 5 items`

CustomizationAIInstructions › Expand all `string` `≤ 10000 characters`

CustomizationPageActionType › Expand all `string`

SiteExternalLinksTarget › Expand all `string`

SiteSocialAccountPlatform › Expand all `string`

SiteSocialAccountHandle › Expand all `string` `[1, 128] characters`

SiteSocialAccount › Expand all `object`

SiteSocialAccounts › Expand all `array<any>` `≤ 10 items`

SiteCustomizationSettingsBase › Expand all `object`

SiteCustomizationSettings › Expand all `(any & object)`

SiteIntegrationScript › Expand all `object`

PublishedContentSite › Expand all `object`

ShareLinkName › Expand all `string` `[0, 50] characters`

ShareLink › Expand all `object`

SiteStructureItemPointer › Expand all `object`

SiteStructureItemMovePosition › Expand all `object`

Site Structure Item › Expand all `object | (any | any | any)`

BillingOperationPreviewResponse › Expand all `(object | object | object)`

SiteUpgradeReason › Expand all `string | (any | any | string)`

SitePublishingAuth › Expand all `((any | any) & object)`

SitePublishingAuthUpdate › Expand all `((any | any) & object)`

SiteCustomizationSettingsInput › Expand all `(any)`

SiteSearchScope › Expand all `(object | object | object | object)`

SearchRecordResult › Expand all `object`

AgentGoal › Expand all `string` `≤ 1024 characters`

SiteInsightsSession › Expand all `object`

ContextRecordType › Expand all `string`

ContextConnector › Expand all `(string | string)`

ContextRecordTitle › Expand all `string` `[1, 256] characters`

ContextRecordDescription › Expand all `string` `≤ 512 characters`

ContextRecord › Expand all `object`

ContextRecordInput › Expand all `object`

SiteScanStatus › Expand all `string`

SiteScanFindings › Expand all `object`

SiteScan › Expand all `object`

SiteFindingStatus › Expand all `string`

SiteFindingType › Expand all `string`

SiteFindingSeverity › Expand all `string`

SiteTriageFilterQuestions › Expand all `string`

SiteTriageFilterConnections › Expand all `string` `matches ^connection:.+$`

SiteFindingOrderBy › Expand all `string`

SiteFindingTitle › Expand all `string` `≤ 256 characters`

SiteRedirectSourcePath › Expand all `string` `≤ 512 characters` `matches ^\/(?!\*)(?!.*\*.+)(?:[A-Za-z0-9\-._~+]|%[0-9A-Fa-f]{2})+(?:\/(?:[A-Za-z0-9\-._~+]|%[0-9A-Fa-f]{2})+)*(?:\/\*|\*)?$`

SiteRedirectDestinationSiteSection › Expand all `object`

SiteRedirectDestinationSiteSpace › Expand all `object`

SiteRedirectDestinationPage › Expand all `object`

SiteRedirectDestinationExternal › Expand all `object`

SiteRedirectDestination › Expand all `(any | any | any | any)`

SiteRedirectInputDestinationPath › Expand all `object`

SiteRedirectInputDestination › Expand all `(any | any)`

SiteFindingBrokenLinkAction › Expand all `object`

SiteFinding › Expand all `object`

SiteFindingPage › Expand all `object`

SiteQuestionType › Expand all `string`

SiteQuestionStatsFeedback › Expand all `object`

SiteQuestionStatsAnswered › Expand all `object`

SiteQuestionStatsRelevance › Expand all `object`

SiteQuestionStatsTypes › Expand all `object`

SiteQuestionStatsChannelTypes › Expand all `object`

SiteQuestionStatsChannels › Expand all `object`

SiteQuestionStats › Expand all `object`

SiteQuestion › Expand all `object`

SiteFindingStatsStatuses › Expand all `object`

SiteFindingStatsSeverities › Expand all `object`

SiteFindingStatsConnectors › Expand all `object`

SiteFindingStats › Expand all `object`

ContextConnectionLabel › Expand all `string` `[0, 128] characters`

ContextConnectionFilter › Expand all `string` `[0, 1024] characters`

ContextConnectionStatus › Expand all `string`

ContextConnectionFailureReason › Expand all `string`

ContextSearchBoost › Expand all `string`

ContextUsageSettings › Expand all `object`

YoutubeChannelId › Expand all `string` `matches ^UC[A-Za-z0-9_-]{22}$`

YoutubeChannelName › Expand all `string` `matches ^@[A-Za-z0-9._-]{3,100}$`

YoutubeChannelPattern › Expand all `(any | any)`

ContextConnectorSetup › Expand all `(object | object | object | object | object | object | object | object | object | object | object | object | object | object | object | object)`

ContextConnection › Expand all `(object & any)`

ContextConnectionTestResult › Expand all `object`

SiteTopicUsageSettings › Expand all `object`

SiteTopic › Expand all `object`

SiteQuestionAnswerRelevance › Expand all `string`

SiteCoreChannelType › Expand all `string`

SiteConfigurableChannelType › Expand all `string`

SiteChannelType › Expand all `(any | any)`

SiteQuestionAnswerResolution › Expand all `string`

SiteQuestionAnswerSourceBase › Expand all `object`

SiteQuestionAnswerSourcePage › Expand all `(any & object)`

SiteQuestionAnswerSourceRecord › Expand all `(any & object)`

SiteQuestionAnswerSource › Expand all `(any | any)`

SiteQuestionAnswerHelpfulness › Expand all `string`

SiteQuestionAnswer › Expand all `object`

AIMessageRole › Expand all `string`

AIMessageStepStartCondition › Expand all `string`

AIToolCallGetPageContent › Expand all `object`

AIToolCallGetRecordContent › Expand all `object`

AIToolCallGetPages › Expand all `object`

AIToolCallGetReusableContents › Expand all `object`

Page result › Expand all `object`

Site context record result › Expand all `object`

AIToolCallSearchResult › Expand all `(any | any)`

AIToolCallSearch › Expand all `object`

AIToolCallEditPage › Expand all `object`

AIToolCallCreatePage › Expand all `object`

AIToolCallDeletePage › Expand all `object`

AIToolCallRenamePage › Expand all `object`

AIToolCallMovePage › Expand all `object`

AIToolCallListModifiedPages › Expand all `object`

AIToolCallGetPageDiff › Expand all `object`

AIToolCallCreateReusableContent › Expand all `object`

AIToolCallEditReusableContent › Expand all `object`

AIToolCallGetReusableContent › Expand all `object`

AIToolCallGetVariables › Expand all `object`

AIToolCallUpdateVariables › Expand all `object`

AIToolCallGetTags › Expand all `object`

AIToolCallUpdateTags › Expand all `object`

AIToolCallCreateChangeRequest › Expand all `object`

AIToolCallGetChangeRequestDetails › Expand all `object`

AIToolCallSetChangeRequestDetails › Expand all `object`

AIToolCallArchiveChangeRequest › Expand all `object`

AIToolCallComment › Expand all `object`

AIToolCallReplyToComment › Expand all `object`

AIToolCallGetComments › Expand all `object`

AIToolCallSubmitChangeRequestReview › Expand all `object`

AIToolCallStartContentImport › Expand all `object`

AIToolCallCheckContentImport › Expand all `object`

AIToolCallMCP › Expand all `object`

AIToolCallOtherSummary › Expand all `object`

AIToolCallOther › Expand all `object`

AIToolCall › Expand all `(any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any)`

AIMessageStepPhase › Expand all `string`

Timerange › Expand all `object`

AIAttachmentImage › Expand all `object`

AIAttachmentFile › Expand all `object`

AIAttachmentImportFile › Expand all `object`

AIAttachment › Expand all `(any | any | any)`

AIMessageContext › Expand all `object`

AIMessageStep › Expand all `object`

AIMessageTask › Expand all `(object | object | object)`

AIMessageResponseMetadata › Expand all `object`

AIMessage › Expand all `object`

SiteQuestionAnswerWithResponse › Expand all `(any & object)`

SiteSpaceCustomizationSettings › Expand all `(any & object)`

SiteSectionGroupPointer › Expand all `object`

SiteSectionGroupMovePosition › Expand all `object`

SiteSectionPointer › Expand all `object`

SiteSectionMovePosition › Expand all `object`

SiteSpacePointer › Expand all `object`

SiteSpaceMovePosition › Expand all `object`

InviteSiteUsersAndTeams › Expand all `object | (object | object)`

OrganizationPointer › Expand all `object`

UserSitePermissionSiteOrigin › Expand all `object`

UserSitePermissionOrigin › Expand all `(any | any | any)`

UserSitePermission › Expand all `object`

UserSitePermissionOverride › Expand all `object`

TeamSitePermissionOverride › Expand all `object`

AIMessageInput › Expand all `object`

AIModel › Expand all `string`

AIToolDefinition › Expand all `object`

AIToolCallResult › Expand all `object`

AIStreamResponseStart › Expand all `object`

AIStreamResponseStepStart › Expand all `object`

AIStreamResponseFinish › Expand all `object`

AIStreamResponseDocument › Expand all `object`

AIStreamResponseObject › Expand all `object`

AIStreamResponseToolCall › Expand all `object`

AIStreamResponseToolCallPending › Expand all `object`

AIStreamResponseFollowupSuggestion › Expand all `object`

AIStreamResponseAttachment › Expand all `object`

AIStreamResponseCompaction › Expand all `object`

AIStreamResponse › Expand all `(any | any | any | any | any | any | any | any | any | any)`

SiteSettingsScanTopics › Expand all `string`

SiteSettingsFindingChangeRequests › Expand all `string`

SiteAgentSettingsInput › Expand all `object`

SiteAgentSettings › Expand all `(object & any)`

SiteInsightsEventSession › Expand all `(any & object)`

SiteInsightsDisplayContext › Expand all `string`

SiteInsightsEventLocation › Expand all `object`

SiteInsightsEventBase › Expand all `object`

SiteInsightsEventPageView › Expand all `(any & object)`

SiteInsightsEventPageMarkdownRequest › Expand all `(any & object)`

SiteInsightsEventSearchOpen › Expand all `(any & object)`

SiteInsightsEventSearchTypeQuery › Expand all `(any & object)`

SiteInsightsEventSearchOpenResult › Expand all `(any & object)`

SiteInsightsEventPagePostFeedback › Expand all `(any & object)`

SiteInsightsEventPagePostFeedbackComment › Expand all `(any & object)`

SiteInsightsEventAgentFeedback › Expand all `(any & object)`

SiteInsightsEventAskQuestion › Expand all `(any & object)`

SiteInsightsEventAskView › Expand all `(any & object)`

SiteInsightsEventAskRateResponse › Expand all `(any & object)`

SiteInsightsLinkPosition › Expand all `string`

SiteInsightsEventLinkClick › Expand all `(any & object)`

SiteInsightsEventAPIClientOpen › Expand all `(any & object)`

SiteInsightsEventAPIClientRequest › Expand all `(any & object)`

SiteInsightsTrademarkPlacement › Expand all `string`

SiteInsightsEventTrademarkClick › Expand all `(any & object)`

SiteInsightsAdPlacement › Expand all `string`

SiteInsightsAd › Expand all `object`

SiteInsightsEventAdClick › Expand all `(any & object)`

SiteInsightsEventAdDisplay › Expand all `(any & object)`

SiteInsightsLLMSVariant › Expand all `string`

SiteInsightsEventLLMSRequest › Expand all `(any & object)`

SiteInsightsEventMCPRequest › Expand all `(any & object)`

SiteInsightsEventRSSRequest › Expand all `(any & object)`

SiteInsightsEvent › Expand all `(any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any)`

SiteInsightsQueryDateTimeColumn › Expand all `object`

SiteInsightsQueryEventsColumn › Expand all `(any | object | object | object | object | object | object | object | object | object | object | object | object | object | object | object | object | object | object | object | object | object | object | object | object | object | object | object | object | object | object | object | object | object | object | object | object | object | object | object | object | object | object | object | object | object | object | object)`

SiteInsightsEventType › Expand all `string`

SiteInsightsVisitorBrowser › Expand all `string`

SiteInsightsVisitorDevice › Expand all `string`

SiteInsightsVisitorOS › Expand all `string`

SiteInsightsVisitorBot › Expand all `string | null`

SiteInsightsPageNotFoundType › Expand all `string`

SiteInsightsQueryEventsValues › Expand all `(object | object | object | object | object | object | object | object | object | object | object | object | object | object | object | object | object | object | object | object | object | object | object | object | object | object | object | object | object | object | object | object | object | object | object | object | object | object | object | object | object | object | object | object | object | object | object | object)`

SiteInsightsQueryOperator › Expand all `string`

SiteInsightsQueryEventsFilter › Expand all `(any & object)`

SiteInsightsQueryRangePreset › Expand all `string`

SiteInsightsQueryRangeCustom › Expand all `object`

SiteInsightsQueryRange › Expand all `(any | any)`

SiteInsightsQueryEventsAggregation › Expand all `object`

SiteInsightsQueryEventsAggregationResult › Expand all `object`

SiteInsightsVisitorSegment › Expand all `object`

SiteAdsStats › Expand all `object`

SiteRedirect › Expand all `object`

SiteMcpServerName › Expand all `string` `[1, 100] characters`

SiteMcpServerTransport › Expand all `string`

SiteMcpServerHeaders › Expand all `object`

SiteMcpServer › Expand all `object`

GenericChannelPattern › Expand all `string` `matches ^[a-zA-Z0-9_\*-]+$`

GitHubRepositoryPattern › Expand all `string` `matches ^[a-zA-Z0-9._*-]+\/[a-zA-Z0-9._*-]+$`

SiteChannelSetup › Expand all `(object | object | object | object)`

SiteChannelStatus › Expand all `string`

SiteChannelRole › Expand all `string`

SiteChannel › Expand all `(any & object)`

Subdomain › Expand all `object`

CustomHostnameDnsStatus › Expand all `string`

CustomHostnameSslStatus › Expand all `string`

CustomHostnameErrorStatus › Expand all `string`

CustomHostnameStatus › Expand all `string | (any | any | any)`

CustomHostname › Expand all `object`

UnsplashImage › Expand all `object`

HiveAccessToken › Expand all `object`

APIIntercomMessengerToken › Expand all `object`

SignedURL › Expand all `object`

PurgeCDNCacheContext › Expand all `object`

CloudflareHostnameStatus › Expand all `string`

CloudflareHostnameTLSStatus › Expand all `string`

CloudflareHostnameTLSValidationMethod › Expand all `string`

CloudflareHostnameTLSCertificate › Expand all `object`

CloudflareHostnameTLSValidationError › Expand all `object`

CloudflareHostnameTLSInfo › Expand all `object`

CustomDomainInfo › Expand all `object`

FirebaseUserInfo › Expand all `object`

UserBackOfficeInfo › Expand all `object`

BlockContext › Expand all `object`

UserImpersonationInfo › Expand all `object`

UserImpersonation › Expand all `object | (any & object)`

UserOrganizationsTeamsPermissions › Expand all `object`

UserOrganizationsPermissions › Expand all `object`

UserCollectionsPermissions › Expand all `object`

UserSpacesPermissions › Expand all `object`

_index › Expand all `object`

OrganizationBillingDateOverride › Expand all `(boolean | any)`

OrganizationBillingNumericOverride › Expand all `integer` `≥ 0`

OrganizationBillingPercentageOverride › Expand all `number` `[0, 100]`

OrganizationBillingOverrides › Expand all `object`

BackOfficeSite › Expand all `(any & object)`

PublishedContentRedirect › Expand all `(object | object)`

Site Content › Expand all `object`

PublishedSiteContentLookup › Expand all `(any | any)`

SiteVisitorPayload › Expand all `object`

GitSyncGitHubRepository › Expand all `object`

GitSyncBranch › Expand all `object`

GitSyncRepositoryFile › Expand all `object`

GitSyncGitLabProject › Expand all `object`

SHA256 `string` `64 characters`

SpaceTrackPageView › Expand all `object`

SiteTrackPageView › Expand all `(object & (object | object))`

UpdateContentPublishingAuth › Expand all `object`

GitBookUsers › Expand all `string`

ContentLocationRevisionContext › Expand all `object`

ContentLocationChangeRequestContext › Expand all `object`

ContentLocationFile › Expand all `object`

ContentLocationURL › Expand all `object`

ContentLocationPageAnchor › Expand all `object`

ContentLocationPageNode › Expand all `object`

ContentLocationPage › Expand all `object`

ContentLocationUser › Expand all `object`

ContentLocationCollection › Expand all `object`

ContentLocationSpace › Expand all `object`

ContentLocationReusableContent › Expand all `object`

ContentLocationOpenAPI › Expand all `object`

ContentLocation › Expand all `(any | any | any | any | any | any | any | any)`

SpaceTemplate › Expand all `object`

ComputedContentSource › Expand all `(any | any)`

InputPageBase › Expand all `(object & (object | object))`

InputPageDocument › Expand all `(any & object)`

InputPageLink › Expand all `(any & object)`

InputPageComputed › Expand all `(any & object)`

InputPageGroup › Expand all `(any & object)`

InputPage › Expand all `(any | any | any | any)`

InputFile › Expand all `object`

RevisionSemanticChangeType › Expand all `string`

GitSyncOperationStage › Expand all `string`

GitSyncSpaceOperation › Expand all `object`

GitSyncOperation › Expand all `deprecated` `(any)`

GitSyncSiteOperation › Expand all `object`

GitSyncSiteStructureSectionGroup › Expand all `object`

GitSyncSiteStructureSpace › Expand all `object`

GitSyncSiteStructureSection › Expand all `object`

GitSyncSiteStructureNode › Expand all `(any | any | any)`

GitSyncSiteStructure › Expand all `array<any>`

GitSyncSiteConfig › Expand all `object`

IntegrationEnvironmentSpaceInstallation › Expand all `(any & object)`

IntegrationEnvironmentSiteInstallation › Expand all `(any & object)`

IntegrationEnvironment › Expand all `object`

SpaceIntegrationScript › Expand all `object`

ContentComputeDocumentEventResponse › Expand all `object`

ContentComputeRevisionEventResponse › Expand all `object`

BillingStatus › Expand all `string`

APIIntegrationScope › Expand all `string`

APIScope › Expand all `(any | any)`

ContentAPIBaseToken › Expand all `object`

SpaceAPIToken › Expand all `(any & object)`

CollectionAPIToken › Expand all `(any & object)`

SiteAPIToken › Expand all `(any & object)`

ContentAPITokenPayload › Expand all `(any | any | any)`

APIChannelSpaceInfo › Expand all `object`

APIChannelSpaceContent › Expand all `object`

APIChannelSpaceGitInfo › Expand all `object`

APIChannelSpacePublishingAuth › Expand all `object`

APIChannelSpacePublishingCustomization › Expand all `object`

APIChannelSpaceIntegrations › Expand all `object`

APIChannelUserAPITokens › Expand all `object`

APIChannelUserOrganizations › Expand all `object`

APIChannelUserProfile › Expand all `object`

APIChannelChangeRequest › Expand all `object`

APIChannelChangeRequests › Expand all `object`

APIChannelChangeRequestReviews › Expand all `object`

APIChannelCollection › Expand all `object`

APIChannelCollectionPublishingCustomization › Expand all `object`

APIChannelOrganizationInfo › Expand all `object`

APIChannelOrganizationAgentData › Expand all `object`

APIChannelOrganizationInviteLinks › Expand all `object`

APIChannelOrganizationMembers › Expand all `object`

APIChannelOrganizationMember › Expand all `object`

APIChannelOrganizationSAML › Expand all `object`

APIChannelOrganizationTeams › Expand all `object`

APIChannelOrganizationTeam › Expand all `object`

APIChannelOrganizationTeamMembers › Expand all `object`

APIChannelOrganizationTeamMember › Expand all `object`

APIChannelOrganizationSpaces › Expand all `object`

APIChannelOrganizationCollections › Expand all `object`

APIChannelOrganizationIntegrations › Expand all `object`

APIChannelOrganizationInstallations › Expand all `object`

APIChannelOrganizationSites › Expand all `object`

APIChannelOrganizationOpenAPISpecs › Expand all `object`

APIChannelOrganizationTranslations › Expand all `object`

APIChannelOrganizationTranslationsGlossary › Expand all `object`

APIChannelOrganizationCustomFonts › Expand all `object`

APIChannelOrganizationAgentInstructions › Expand all `object`

APIChannelOrganizationChangeRequests › Expand all `object`

APIChannelSpaceComments › Expand all `object`

APIChannelChangeRequestComments › Expand all `object`

APIChannelCommentInfo › Expand all `object`

APIChannelCommentReplies › Expand all `object`

APIChannelIntegration › Expand all `object`

APIChannelIntegrationInstallation › Expand all `object`

APIChannelIntegrationSpaceInstallation › Expand all `object`

APIChannelIntegrationSpaceInstallations › Expand all `object`

APIChannelIntegrationSiteInstallation › Expand all `object`

APIChannelIntegrationSiteInstallations › Expand all `object`

APIChannelPublishedContentSite › Expand all `object`

APIChannelSiteRedirects › Expand all `object`

APIChannelSite › Expand all `object`

APIChannelSiteChannels › Expand all `object`

APIChannelSiteContext › Expand all `object`

APIChannelSiteCustomization › Expand all `object`

APIChannelSiteAgentSettings › Expand all `object`

APIChannelSiteIntegrations › Expand all `object`

APIChannelSiteSpace › Expand all `object`

APIChannelSiteSpaceCustomization › Expand all `object`

APIChannelSiteStructure › Expand all `object`

APIChannelSiteAdaptiveSchema › Expand all `object`

APIChannelSitePublishingAuth › Expand all `object`

APIChannelSiteShareLinks › Expand all `object`

APIChannelSiteShareLink › Expand all `object`

APIChannelSiteMcpServers › Expand all `object`

APIChannelSiteMcpServer › Expand all `object`

APIChannelSiteSection › Expand all `object`

APIChannelCustomHostname › Expand all `object`

APIChannelGitSyncInstallation › Expand all `object`

APIChannelGitSyncOperation › Expand all `object`

APIChannelGitSyncSiteOperation › Expand all `object`

APIChannelOpenAPISpec › Expand all `object`

APIChannelSubdomain › Expand all `object`

APIChannelTranslation › Expand all `object`

APIChannelTranslationRun › Expand all `object`

APIChannelImportRun › Expand all `object`

APIChannel › Expand all `(any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any | any)`

APIChannelTranslationRunData › Expand all `object`

APIChannelImportRunData › Expand all `object`

APIChannelGitSyncOperationData › Expand all `object`

APIChannelGitSyncSiteOperationData › Expand all `object`

APIChannelMutationData › Expand all `object`

APIChannelData › Expand all `(any | any | any | any | any)`

CustomizationThemeMode › Expand all `string`

SiteAdaptiveDeterministicJSONSchemaClaimsProperties › Expand all `(any | object)`

SiteAdsStatus › Expand all `string`

SiteQuestionAnswerSourceType › Expand all `string`

Seat › Expand all `object`

AgentStreamMessages › Expand all `object`

AgentStreamMessageResponse › Expand all `object`

AgentStatus › Expand all `string`

AgentActivity › Expand all `object`

AgentQuestionOption › Expand all `object`

AgentPendingQuestion › Expand all `object`

AgentState › Expand all `object`

AgentStreamState › Expand all `object`

AgentStreamRPC › Expand all `object`

AgentStream › Expand all `(any | any | any | any)`

MergeRulesEvaluationContext › Expand all `object`

LocalizedContentRef › Expand all `object`

RequestSpaceTrackPageView › Expand all `any`

RequestSiteTrackPageView › Expand all `any`

RequestPublishIntegration › Expand all `any`

RequestUpdateIntegrationInstallation › Expand all `any`

RequestUpdateIntegrationSpaceInstallation › Expand all `any`

RequestUpdateIntegrationSiteInstallation › Expand all `any`

RequestUpgradeOrganizationBilling › Expand all `any`

RequestInviteUsersToOrganization › Expand all `any`

RequestImportGitRepository › Expand all `any`

RequestExportToGitRepository › Expand all `any`

RequestCreateSpace › Expand all `any`

RequestRenderIntegrationUI › Expand all `any`

RequestUpdateContentPublishingAuth › Expand all `any`

RequestCreateOrganization › Expand all `any`

RequestUpdateSpaceGitInfo › Expand all `any`

RequestPurgeCDNCacheContext › Expand all `any`

DocumentTextBackgroundColor › Expand all `any`

SpaceVisitorAuth › Expand all `any`

SpaceVisitorAuthCustomBackend › Expand all `any`

SpaceVisitorAuthIntegrationBackend › Expand all `any`

IngegrationPropertyTitle › Expand all `any`

UserPermissions › Expand all `any`

SiteRedirectDestinationSpace › Expand all `any`

OpenAPISpecSourceURL › Expand all `any`

32. scalar

ia sa vedem aici

aand still moves better

v0.0.1-beta OAS 3.0.3

GitBook API

API Support Terms of Service

The GitBook API

Server

{host}/v1

host: https://api.gitbook.com

Authentication Required user

Bearer Token : Token

Client Libraries

Shell Ruby Node.js PHP Python More

```
Shell Curl
```

organizations

The Organizations API provides a robust way to handle the administrative structure of your GitBook workspace. By creating and configuring organizations, you can group multiple users, spaces, and collections, simplifying your permission management and fostering efficient collaboration for teams of any size.

{% openapi-schemas spec="gitbook" schemas="Organization" grouped="false" %}
The Organization object
{% endopenapi-schemas %}

Operations

```
   GET /orgs
   GET /orgs/{organizationId}
 PATCH /orgs/{organizationId}
DELETE /orgs/{organizationId}/link-invites/{invite]
  POST /orgs/{organizationId}/join
   GET /orgs/{organizationId}/search
   GET /orgs/{organizationId}/agent-instructions
   PUT /orgs/{organizationId}/agent-instructions
   GET /email-domains/{emailDomain}/orgs
```

Get the list of organizations for the currently authenticated user

Query Parameters

`page` string

GET /orgs Shell Curl

Identifier of the page results to fetch.

`limit` number · min: 0 · max: 1000

The number of results per page

Responses

`200`

`items` array Organization[] required

+ Show Child Attributes

`count` number

Total count of objects in the list

`next` object

+ Show Child Attributes

▶ Test Request

200 Show Schema


```
{
  "next": {
    "page": "string"
  },
  "count": 1,
  "items": [
    {
      "object": "organization",
      "id": "string",
      "title": "string",
      "createdAt": "2026-08-17T06:46:23.125Z",
      "emailDomains": [
        "string"
      ],
      "hostname": "string",
      "type": "business",
      "useCase": "internalDocs",
      "communityType": "nonProfit",
      "defaultRole": "admin",
      "defaultContent": {
        "type": "site",
        "site": "string"
      },
      "sso": true,
      "ai": true,
      "inviteLinks": true,
      "plan": "free_2024",
      "billing": {
        "interval": "monthly",
        "endDate": "2026-08-17T06:46:23.125Z",
        "hasPaymentFailed": true,
        "isScheduledToCancel": true,
```


Get an organization by its ID

Path Parameters

`organizationId` string required

The unique id of the organization

GET /orgs/{organizationId} Shell Curl

```
curl 'https://api.gitbook.com/v1/orgs/{organizatio
  --header 'Authorization: Bearer YOUR_SECRET_TOKE
```

▶ Test Request

200 404 Show Schema


```
{
  "object": "organization",
  "id": "string",
  "title": "string",
  "createdAt": "2026-08-17T06:46:23.125Z",
  "emailDomains": [
    "string"
  ],
  "hostname": "string",
  "type": "business",
  "useCase": "internalDocs",
  "communityType": "nonProfit",
  "defaultRole": "admin",
```


Responses

`200` object

`createdAt` string · date-time required

the date-time notation as defined by RFC 3339, section 5.6, for example, 2017-07-21T17:32:28Z

`emailDomains` array string[] required

`id` string required

Unique identifier for the organization

`inviteLinks` boolean required

If true, invite links are enabled for this organization.

`mergeRules` required

One of MergeRulesConfigurationRules

The merge rules are composed of individual rules that must all pass.

`rules` array object[] required

+ Show Child Attributes

`type` enum const: rules required

└ `rules`

`object` enum const: organization required

Type of Object, always equals to "organization"

└ `organization`

`permissions` object required

The set of permissions for the organization

+ Show Child Attributes

`plan` string · enum required

Name of the product

- `free_2024`
- `plus_2024`
- `pro_2024`
- `enterprise_2024`
- `community_2024`
- `free`
- `plus`
- `pro`
- `internal`

`title` string · min length: 2 · max length: 255 required

Name of the organization

`trial` object required

+ Show Child Attributes

`type` string · enum required

- `business`


```
"defaultContent": {
  "type": "site",
  "site": "string"
},
"sso": true,
"ai": true,
"inviteLinks": true,
"plan": "free_2024",
"billing": {
  "interval": "monthly",
  "endDate": "2026-08-17T06:46:23.125Z",
  "hasPaymentFailed": true,
  "isScheduledToCancel": true,
  "pricing": {
    "members": {
      "plus_2024": {
        "monthly": 0,
        "yearly": 0
      },
      "pro_2024": {
        "monthly": 0,
        "yearly": 0
      }
    },
    "sites": {
      "trial": {
        "status": "not_applicable",
        "endDate": "2026-08-17T06:46:23.125Z",
        "daysLeft": 0
      },
      "monthly": 0,
      "blocked": {
        "source": "backoffice",
        "reason": "string"
      }
    },
    "usageAddons": {
      "discountPercent": 1,
      "discountEndDate": "2026-08-17T06:46:23.125Z"
    }
  },
  "urls": {
    "location": "https://example.com",
    "app": "https://example.com",
    "logo": "https://example.com"
  }
}
```


OK

– community

urls object required

URLs associated with the object

+ Show Child Attributes

ai boolean

If true, the organization is configured to use all our AI features.

billing object

+ Show Child Attributes

blocked object

If the organization is blocked, information about the block will appear here

+ Show Child Attributes

communityType string · enum

- nonProfit
- openSource
- education

customHostname string

Custom hostname linked to this organization

defaultContent object

The default content for the organization

+ Show Child Attributes

defaultRole

One of MemberRole

string · enum

"The role of a member in an organization.
"admin": Can administrate the content: create, delete spaces, ...
"create": Can create content.
"review": Can review content.
"edit": Can edit the content (live or change requests).
"comment": Can access the content and its discussions.
"read": Can access the content, but cannot update it in any way.

- admin
- create


```
  },
  "trial": {
    "status": "notapplicable",
    "count": 1,
    "endDate": "2026-08-17T06:46:23.125Z",
    "decision": "downgrade"
  },
  "customHostname": "string",
  "blocked": {
    "source": "backoffice",
    "reason": "string"
  },
  "internal_billingMigration": {
    "deadline": "2026-08-17T06:46:23.125Z",
    "discountPercent": 1,
    "discountEndDate": "2026-08-17T06:46:23.125Z"
  },
  "permissions": {
    "view": true,
    "access": true,
    "admin": true,
    "ownTeam": true,
    "createContent": true,
    "createOpenAPISpec": true,
    "ingestConversations": true,
    "viewBilling": true,
    "listMembers": true,
    "listTeams": true,
    "listIntegrations": true,
    "listInstallations": true,
    "installIntegration": true
  }
}
```


OK

- edit
- review
- comment
- read

`hostname` string · min length: 3 · max length: 32

Default hostname for the organization's public content, e.g. .gitbook.io

`internal_billingMigration` object

+ Show Child Attributes

`sso` boolean

Whether SSO is enforced organization-wide

`useCase` string · enum

- internalDocs
- docsSite
- audienceControlledSite
- productDocs
- teamKnowledgeBase
- designSystem
- openSourceDocs
- notes
- other

`404` object

`error` object required

+ Show Child Attributes

33. Slow as fck

ab The supports querying using the SQL syntax that follows ANSI SQL standards. > pot sa scriu cate tot tot lent sa iti traiasca tot mai repejora parca se misca mai greutz si aici e futmuiala fut

scris pe qa2 dupa scalar merge mai binesss

merge

scris pe qa3

aabcdefabcdabcabcabcdeababcdabcdtot ca pulaabcabcabcdeababcdeabcdefg abcdefg

Ocient SQL Syntax abcdabcdeabyooooooand still pot sa abcd omfg ce repede scrie...

This code block shows the general syntax to perform SQL querying in and the order in which commands should go. and still tot merge greuts pot sa scriu a b cdefg a b cd

For specific descriptions and syntax for the commands, see the respective SQL statement sections on this page. omg meaaammm mergi ma? e mult e ca pula de am scris ceva parca si asta se misca intr-un mare felll mt boy. mister pister e mult e greu zici ca se fute

sa-ti bagi pulenca abia se misca esti bine mai boss? abia tragi de tine ma parca se misca

Syntax

SQL

```
[ WITH ... ]
SELECT ...
    [ EXCEPT(...) ]
[ FROM ...
    [ JOIN ... ] ]
[ WHERE ... ]
[ GROUP BY ...
    [ HAVING ... ] ]
[ ORDER BY ... ]
[ LIMIT ... ]
[ OFFSET ... ]
[ INTERSECT ... ]
[ EXCEPT ... ]
[ UNION ... ] ]
[ USING ... ]
[ TRACE ... ]
[ TAG ... ]
```

Default Schema

Ocient identifies every table using a database and schema. For example, the fully qualified path to the `movies` table is `cinema.adventure.movies`, where `cinema` is the database and `adventure` is the schema.

When you do not fully qualify a table name, the Ocient System uses a default schema. When you first log into the system, the default schema is your fully qualified username. You can change the default schema using the **SET SCHEMA** command.

Querying SQL Statement Reference

Ocient supports the following SQL statements.

WITH

Assigns a name to a common table expression, allowing an auxiliary query to be used in the main query. This is helpful for breaking down complex queries into smaller parts.

Syntax

```SQL
WITH
    <cte_name> [ ( <cte_column> [ ,... ] ) ]
    AS ( <sub_query> )
<select_query>
```

Parameters

Parameter	Description
`<cte_name>`	A name for the common table expression populated with the result set from the `sub_query` statement.
`<cte_column>`	Optional. This is a list of column names for common table expressions populated with the `sub_query` result set. If no column names are provided, the column names are the same as the table referenced in the `sub_query` statement.
`<sub_query>`	An auxiliary query that collects data for a common table expression. `sub_query` can use regular query commands, including ORDER BY, LIMIT, OFFSET, UNION, INTERSECT, EXCEPT, WHERE, GROUP BY, and HAVING. See the respective SQL statement reference sections for usage rules.
`<select_query>`	The main SELECT query. Note that the `FROM` statement in the main `SELECT` query must also include the `cte_name` if the query uses its values.

Example

In this example, the subquery calculates the average budget for all rows in the `movies` table. The main query uses that average to find all movies that spent more.

SQL

```sql
WITH avg_budget_table (average_budget) AS (
    SELECT AVG(budget)
    FROM movies
)
SELECT title,
    budget,
    revenue
FROM movies,
    avg_budget_table
WHERE budget > avg_budget_table.average_budget;
```

Output

title	budget	revenue
CGI Why	237000000	2787965087
Titania	200000000	1845034188
Merchandise Vehicle 5	200000000	1066969703
The Tentpole	220000000	1519557910
Pirates of Palm Springs	140000000	655011224
Spyman 16	200000000	1108561013
Frigid	150000000	1274219009
Fury 7	190000000	1506249360
Superhero 23	250000000	1084939099
Triassic World	150000000	1513528810
Iron Chef 3	200000000	1215439994
The Last Airman	150000000	318502923

SELECT

Initiates a query statement or a subquery clause within other statements.

You can query the data of tables where you have the SELECT privilege.

For information on using SELECT as a subquery for filtering or ordering results, see the **WHERE** and **HAVING** sections.

For information on using SELECT as a subquery for a common table expression, see the **WITH** section.

Syntax

```sql
SELECT [ ALL | DISTINCT ]
    [ * [ EXCEPT ( column_name [ , ... ] ) ]
    | <select_list_entry> [ , ... ] ]
    [ <from_clause> ]
```

Parameters

Parameter	Description
`ALL`	`SELECT` and `SELECT ALL` are both the same. Returns all valid data rows from the database that meet the criteria of your query.
`DISTINCT`	`SELECT DISTINCT` returns only unique rows that do not match other rows based on the criteria of your query.
`*`	Returns all columns from the specified tables in the result set for the query.
`EXCEPT`	When used with `*`, `EXCEPT` allows specific columns to be excluded from the query results.
`column_name`	The name of one or more columns from the specified table that you want to exclude (using `EXCEPT`) from your query results.

<select_list_entry>

The `select_list_entry` defines a column or expression to include in your query result set.

Syntax

```sql
<select_list_entry> ::=
    column_name | expression [ AS new_name ]
```

Parameters

Parameter	Description
`column_name`	The name of one or more columns from the specified table that you want to include in your query results.
`expression`	One or more expressions that you want to include in your query results. Expressions can be any combination of literal values, column names, arithmetic expressions, parentheses, and function calls.
`new_name`	An alias, treated as an identifier, for an alternative name for the column or the results of the expression.

<from_clause>

For information on the `<from_clause>`, see the **FROM** documentation.

Examples

Using SELECT *

This example uses `SELECT *` to return all the columns in the `movies` table.

SQL

```
SELECT * FROM movies LIMIT 5;
```

Output

movie_id	title	budget	popularity	release_date	revenue	runtime	movie_status	vote_average	vote_count
211672	Minnows	74000000	875.581305	2015-06-17	1156730962	91	Released	6.40	4571
24	Billy the Killy	30000000	79.754966	2003-10-10	180949000	111	Released	7.70	4949
19995	CGI Why	237000000	150.437577	2009-12-10	2787965087	162	Released	7.20	11800
37724	Spyman 16	200000000	93.004993	2012-10-25	1108561013	143	Released	6.90	7604
24428	The Tentpole	220000000	144.448633	2012-04-25	1519557910	143	Released	7.40	11776

Using SELECT * EXCEPT

This example uses `SELECT * EXCEPT` to exclude certain columns from the result set.

SQL

```
SELECT *
EXCEPT (movie_id, runtime, vote_average, vote_count)
FROM movies
LIMIT 5;
```

Output

title	budget	release_date	revenue
Swords & Scabbards	94000000	2003-12-01	1118888979
Billy the Killy	30000000	2003-10-10	180949000
Merchandise Vehicle 5	200000000	2010-06-16	1066969703
CGI Why	237000000	2009-12-10	2787965087
Space Odyssey 6000	10500000	1968-04-10	68700000

Using Lateral Column Aliases

Ocient SQL queries support lateral column aliases, meaning you can immediately reuse aliases for calculations in the same query as new inputs. Hence, you can simplify queries that normally require subqueries and common table expressions.

These examples use the `products` table with these columns:

- `product_id` — Product identifier as an integer
- `product_name` — Product name as a string
- `price` — Price as a floating point number

Create this table using the `CREATE TABLE` SQL statement.

SQL

```
CREATE TABLE products (
    product_id INT,
    product_name VARCHAR(100),
    price DECIMAL(10, 2)
    );
```

Insert four records into the `products` table.

SQL

```
INSERT INTO products (product_id, product_name, price) VALUES
    (1, 'Laptop', 1000.00),
    (2, 'Tablet', 500.00),
    (3, 'Smartphone', 800.00),
    (4, 'Monitor', 300.00);
```

Create a query to determine prices after discounts and taxes by using a common table expression subquery `DiscountedPrices`. Use the `WITH` keyword to create the subquery.

```sql
WITH DiscountedPrices AS (
    SELECT
        product_id,
        product_name,
        price,
        price * 0.90 AS discounted_price,
        price * 0.90 * 1.05 AS total_price_after_tax
    FROM
        products
)
SELECT
    product_id,
    product_name,
    price,
    discounted_price,
    total_price_after_tax
FROM
    DiscountedPrices;
```

Lateral aliases allow the same calculations to be packaged in a single query.

This simpler query is essentially the same as the longer common table expression example, but the logic is condensed because you can reference the `discounted_price` alias immediately to calculate the `total_price_after_tax` value in the same query.

```sql
SELECT
    product_id,
    product_name,
    price,
    price * 0.90 AS discounted_price,
    discounted_price * 1.05 AS total_price_after_tax
FROM
    products;
```

FROM

Specifies the table or view to use in a `SELECT` statement.

Syntax

```sql
<select_clause> FROM
    { table_name | ( <sub_query> ) } [ ,... ]
    [ <join_clause> [ ,... ] ]
```

Parameters

Parameter	Description
`<select_clause>`	A query statement using the `SELECT` SQL statement. For details, see the **SELECT** section.
`table_name`	The names of one or more tables or views that you want to query. If you specify multiple tables in the `FROM` list, separated by commas, the effect is the same as if you explicitly perform a **CROSS JOIN** on all of those sources.
`<sub_query>`	One or more subqueries using the `SELECT` SQL statement. A subquery generates a table from which the `select_clause` query references data. Each subquery must be enclosed in parentheses with an optional correlation name. For details, see the **SELECT** section.
`<join_clause>`	A `JOIN` clause used to retrieve data from two or more tables for your query. For details, see the **JOIN** section.

JOIN

Combines rows from multiple tables so they can be accessed by a query.

Syntax

SQL

```
<select_query>
    FROM <table_reference1> <join_operation> <table_reference2>
        ON table1_column <boolean_operator> table2_column
```

Parameter

Parameter	Description
`<select_query>`	A valid `SELECT` query. For details, see **SELECT**.
`<table_reference1>`	Either a table name or a full `SELECT` in parentheses `table_reference1` takes precedence for returning rows for `LEFT OUTER JOIN`, `SEMI JOIN`, and `ANTI JOIN`. For specific rules, see **Types of Join Operations**.
`<table_reference2>`	Either a table name or a full `SELECT` in parentheses function. `table_reference2` takes precedence for returning rows for `RIGHT OUTER JOIN`. For specific rules, see **Types of Join Operations**.
`table1_column`	A column from either `table_reference` The `JOIN` operation uses this column to match rows with `table2_column` to combine data for the result set.
`<boolean_operator>`	Join conditions can use any Boolean expression, including `=`, `!=`, `<`, `>`, `=>`, and `<=`
`table2_column`	A column from the `table_reference` not used for `table1_column` The `JOIN` operation uses this column to match rows based on the `table1_column` to combine data for the result set.

Types of Join Operations (`<join_operation>`)

Ocient supports the following types of `JOIN` operations.

Syntax

SQL

```
<join_operation> ::=
    { INNER JOIN
    | LEFT [ OUTER ] JOIN
    | RIGHT [ OUTER ] JOIN
    | FULL [ OUTER ] JOIN
    | CROSS JOIN
    | SEMI JOIN
    | ANTI JOIN }
```

JOIN Type Descriptions

JOIN Type	Description
`INNER JOIN`	Returns all rows that exist in both tables. This join type is the default type of join.
`LEFT OUTER JOIN`	Returns all rows from the first table regardless of whether there are matching rows in the second table. `LEFT JOIN` performs the same operation as `LEFT OUTER JOIN`.
`RIGHT OUTER JOIN`	Returns all rows from the second table regardless of whether there are matching rows in the first table. `RIGHT JOIN` performs the same operation as `RIGHT OUTER JOIN`.
`FULL OUTER JOIN`	Returns all matched and unmatched rows. `FULL JOIN` performs the same operation as `FULL OUTER JOIN`.
`CROSS JOIN`	Returns the Cartesian product of the joined tables. Each row in the first table is joined with all rows in the second table. The result set contains the number of rows in the first table multiplied by the number of rows in the second table.
`SEMI JOIN`	Returns the rows from the first table that have at least one match in the second table. No columns from the second table are available in the query.
`ANTI JOIN`	Returns the rows from the first table that have no matches in the second table. No columns from the second table are available in the query.

By default, `JOIN` statements that involve subqueries can operate laterally if necessary. This behavior allows subqueries to reference joined columns from the preceding items included in the `FROM` clause.

For example, both parts of this join operation use subqueries that reference table `x`. The `LATERAL` keyword is optional; the join operation acts the same regardless of whether it is included.

```
SELECT * FROM
    (
    SELECT
        1 AS cx1,
        2 AS cx2) AS x
INNER JOIN LATERAL (
    SELECT
        x.cx1 AS cy1,
        x.cx2 AS cy2) AS y
ON
    x.cx1 = y.cy1;
```

Lateral joins are primarily useful when a cross-referenced column is necessary for computing the rows to join. A common application is providing an argument value for a set-returning function.

Examples

test to see how it behaves mama mama

These examples join two tables:

- `games` — A table of video game titles and their genre_ids. Note that some games have a NULL value assigned to their genre_id.

game_name	genre_id
Star Battle 6000	9
Dwarf Simulator	NULL
2002 Futbol	11
Space Attack!	9
Fantasy Fool	8
Blasto the Squirrel	5
Trucker Quest	7
Block, Stack, and Cry!	6
Basketball Day	11
Pizza Mutant	1
Italian Plumber	5
Zombies!	1
Space Ninjas	12
Moon Mayor	10
Spreadsheet Hero	NULL
Zoom Tycoon	12
Porch Poacher	6

- `genre` — A table of video game genres, which are identified by IDs.

genre_name	id
Racing	7
Puzzle	6
Adventure	2
Simulation	10
Shooter	9
Misc	4
Action	1
Sports	11
Role-Playing	8
Platform	5
Strategy	12
Fighting	3

INNER JOIN

This example uses an `INNER JOIN` operation to capture only the rows that exist in both tables. Games with NULL values for their `genre_id` are eliminated from the result set.

SQL

```sql
SELECT game_name,
    genre_name
FROM video_games.game
    INNER JOIN video_games.genre ON game.genre_id = genre.id;
```

Output

game_name	genre_name
Fantasy Fool	Role-Playing
Blasto the Squirrel	Platform
Italian Plumber	Platform
Porch Poacher	Puzzle
Space Ninjas	Strategy
Basketball Day	Sports
2002 Futbol	Sports
Moon Mayor	Simulation
Block, Stack, and Cry!	Puzzle
Zombies!	Action
Pizza Mutant	Action
Space Attack!	Shooter
Trucker Quest	Racing
Zoom Tycoon	Strategy

LEFT OUTER JOIN

This example uses a `LEFT OUTER JOIN` operation to capture all rows from the left table (game), even if they have no matching row in the right table (genre).

SQL

```sql
SELECT game_name,
    genre_name
FROM video_games.game
    LEFT OUTER JOIN video_games.genre ON game.genre_id = genre.id;
```

Output

game_name	genre_name
Fantasy Fool	Role-Playing
Space Ninjas	Strategy
Zoom Tycoon	Strategy
Zombies!	Action
Pizza Mutant	Action
Trucker Quest	Racing
Blasto the Squirrel	Platform
2002 Futbol	Sports
Basketball Day	Sports
Italian Plumber	Platform
Block, Stack, and Cry! :)	Puzzle
Star Battle 6000	Shooter
Dwarf Simulator	NULL
Moon Mayor	Simulation
Porch Poacher	Puzzle
Spreadsheet Hero	NULL
Space Attack!	Shooter

RIGHT OUTER JOIN

This example uses a `RIGHT OUTER JOIN` operation to capture all rows from the right table (genre), even if they have no matching row in the left table (game).

SQL

```sql
SELECT game_name,
    genre_name
FROM video_games.game
    RIGHT OUTER JOIN video_games.genre ON game.genre_id = genre.id;
```

Output

game_name	genre_name
NULL	Adventure
Trucker Quest	Racing
Pizza Mutant	Action
Moon Mayor	Simulation
Fantasy Fool	Role-Playing
Space Attack!	Shooter
NULL	Misc
Star Battle 6000	Shooter
Space Ninjas	Strategy
Porch Poacher	Puzzle
Block, Stack, and Cry!	Puzzle
Blasto the Squirrel	Platform
Italian Plumber	Platform
Zoom Tycoon	Strategy
NULL	Fighting
Zombies!	Action
2002 Futbol	Sports
Basketball Day	Sports

FULL OUTER JOIN

This example uses a `FULL OUTER JOIN` operation to capture all rows from both tables, even if they do not match.

SQL

```sql
SELECT game_name,
    genre_name
FROM video_games.game
    FULL OUTER JOIN video_games.genre ON game.genre_id = genre.id;
```

Output

game_name	genre_name
Basketball Day	Sports
2002 Futbol	Sports
Zombies!	Action
Blasto the Squirrel	Platform
Moon Mayor	Simulation
Trucker Quest	Racing
NULL	Misc
Star Battle 6000	Shooter
Space Attack!	Shooter
Spreadsheet Hero	NULL
NULL	Adventure
NULL	Fighting
Italian Plumber	Platform
Pizza Mutant	Action
Dwarf Simulator	NULL
Fantasy Fool	Role-Playing
Block, Stack, and Cry!	Puzzle
Space Ninjas	Strategy
Zoom Tycoon	Strategy
Porch Poacher	Puzzle

CROSS JOIN

This example uses a `CROSS JOIN` operation to capture every possible combination of rows from both tables, regardless of whether they match. Note that unlike other `JOIN` operations, `CROSS JOIN` does not require an `ON` statement.

SQL

```sql
SELECT game_name,
    genre_name
FROM video_games.genre
    CROSS JOIN video_games.game;
```

Output

> As the result set for this CROSS JOIN example is more than 200 rows, the results are abbreviated.

genre_name	genre_id
Spreadsheet Hero	Role-Playing
Spreadsheet Hero	Misc
Spreadsheet Hero	Sports
Spreadsheet Hero	Platform
Spreadsheet Hero	Strategy
Spreadsheet Hero	Shooter
Spreadsheet Hero	Fighting
Spreadsheet Hero	Action
Spreadsheet Hero	Simulation
Spreadsheet Hero	Racing
Spreadsheet Hero	Puzzle
Spreadsheet Hero	Adventure
Space Attack!	Role-Playing
Space Attack!	Misc
Space Attack!	Sports
Space Attack!	Platform
Space Attack!	Strategy
Space Attack!	Shooter
Space Attack!	Fighting
Space Attack!	Action
Space Attack!	Simulation
Space Attack!	Racing
Space Attack!	Puzzle
Space Attack!	Adventure
...	...

SEMI JOIN

This example uses a `SEMI JOIN` operation to capture genre names that have at least one match in the games table. Rows are only included once, even if there are multiple matches.

SQL

```
SELECT genre_name,
    id
FROM video_games.genre
    SEMI JOIN video_games.game ON genre.id = game.genre_id;
```

Output

genre_name	genre_id
Simulation	10
Shooter	9
Racing	7
Strategy	12
Puzzle	6
Platform	5
Action	1
Sports	11
Role-Playing	8

ANTI JOIN

This example uses an `ANTI JOIN` operation to capture any rows in the game table that do not match any rows in the genre table.

SQL

```
SELECT game_name
FROM video_games.game
    ANTI JOIN video_games.genre ON game.genre_id = genre.id;
```

Output

game_name
Spreadsheet Hero
Dwarf Simulator

WHERE

Filters rows based on a specified condition.

Syntax

```sql
<select_query>
    WHERE { column_name <filter_condition> filter_value |
    [ NOT ] EXISTS ( <sub_query> ) }
```

Parameters

Parameter	Description
`<select_query>`	A valid `SELECT` query.
`column_name`	A column used for grouping that is evaluated by the `filter_condition`.
`filter_value`	A value used to evaluate the specified `column_name`. For details, see the **<filter_condition>** section.
`<sub_query>`	A subquery with a filter condition that follows the `EXISTS` clause. For details, see the **EXISTS** section.

<filter_condition>

A logical combination of predicates used to evaluate the referenced `column_name` based on the `filter_value`.

Syntax

```sql
<filter_condition> ::=
  { =
    | ==
    | <>
    | !=
    | [ NOT ] EQUALS
    | <
    | <=
    | >
    | >=
    | [ NOT ] IN
    | [ NOT ] LIKE
    | [ NOT ] SIMILAR TO
    | BETWEEN
    | FOR SOME
    | FOR ALL
    | IS [ NOT ] NULL
    | IS [ NOT ] DISTINCT FROM
  }
```

Definitions

Operator	Description	Example
`=`, `==`, `EQUALS`	Equal to.	`Author = 'Alcott'`
`<>`, `!=`	Not equal to	`Dept <> 'Sales'`
`>`	Greater than	`Hire_Date > '2012-01-31'`
`<`	Less than	`Bonus < 50000.00`
`>=`	Greater than or equal	`Dependents >= 2`
`<=`	Less than or equal	`Rate <= 0.05`
`[ NOT ] LIKE`	Begins with a character pattern to match. The pattern is enclosed in parentheses and can include the wildcard characters `%`, representing zero, one or multiple characters, and `_` representing a single character. To have a literal `%` or `_` that does not act as a wildcard on the right-hand side of a `LIKE` or `NOT LIKE` expression, put a backslash before the character.	`Full_Name LIKE 'Will%'`
`[ NOT ] SIMILAR TO`	For usage information, see the **SIMILAR TO Operator** section.	`'abc' SIMILAR TO 'abc'`
`BETWEEN value1 AND value2`	Requires two values. The filter evaluates to TRUE if the specified column is within the range between the two values. `BETWEEN` bounds are inclusive. Values can be times, numbers, or strings.	`Sales BETWEEN 1000 AND 5000`
`FOR_SOME()`	Evaluates an array to determine if at least one value meets the filter criteria. In the example, the `FOR_SOME()` operator would return all rows of the column `col_int_array` where at least one value is greater than 10. For details, see **Array Filters**.	`FOR_SOME(col_int_array) > 10` `FOR_SOME(col_int_array) > 10`

`FOR_ALL()`	Evaluates all values of an array to determine if all meet the filter criteria.
	In the example, the `FOR_ALL()` operator would return any rows of the column `col_int_array` where all values are greater than 10.
	For details, see **Array Filters**.
		`FOR_ALL(col_int_array) > 10`
		
		`FOR_ALL(col_int_array) = 1`

`[ NOT ] IN`	Equal to one of multiple possible values	`DeptCode IN (101, 103, 209)`
`IS [ NOT ] NULL`	Compare to `NULL` (missing data)	`Address IS NOT NULL`
`IS [ NOT ] DISTINCT FROM`	Compares the equality of two expressions for a Boolean result, including comparisons that involve `NULL` values. This operator ensures reliable comparisons in scenarios where `NULL` values need to be treated as significant data points. Normally, `NULL = NULL` evaluates to `false` because `NULL` represents an unknown value. However, the statement `a IS NOT DISTINCT FROM b` treats `NULL` as a comparable value	`Debt IS NOT DISTINCT FROM Receivables`

Operator	Description	Example
	and returns `true` when both values are `NULL` or when `a = b`. Inversely, `a IS DISTINCT FROM b` returns `true` if the values are different or if one value is `NULL` while the other is not `NULL`.	

EXISTS

An `EXISTS` clause used in a `WHERE` statement evaluates if a subquery returns any rows.

For each row that the database computes in the outer query, if the subquery returns at least one row, the `EXISTS` clause evaluates to `true`. In this outcome, the outer query returns its row.

If the subquery returns zero rows, the `EXISTS` clause evaluates to `false`, and the outer query excludes those rows.

The `NOT EXISTS` clause performs the opposite Boolean logic. In this case, the outer query returns rows only when the subquery has no matches.

Examples

These examples use two tables, one for company departments and the other for employees who are assigned to those departments.

Create the `departments` table for department data.

SQL

```sql
CREATE TABLE departments (
    id INT,
    name VARCHAR(50)
);
```

Create the `employees` table for employee data.

SQL

```sql
CREATE TABLE employees (
    id INT,
    name VARCHAR(50),
    department_id INT
);
```

Insert department data for three departments, `HR`, `IT`, and `Marketing`, into the `departments` table.

SQL

```sql
INSERT INTO departments (id, name) VALUES
    (1, 'HR'),
    (2, 'IT'),
    (3, 'Marketing');
```

Insert employee data for four employees, `Alice`, `Bob`, `Charlie`, and `David`, into the `employees` table.

SQL

```sql
INSERT INTO employees (id, name, department_id) VALUES
    (1, 'Alice', 1),
    (2, 'Bob', 2),
    (3, 'Charlie', 2),
    (4, 'David', 4);
```

Find Employees Belonging to an Existing Department

This example uses an `EXISTS` clause to find any names from the `employees` table who are assigned to a department listed in the `departments` table.

SQL

```sql
SELECT name
FROM employees AS e
WHERE EXISTS (
    SELECT *
    FROM departments AS d
    WHERE e.department_id = d.id
);
```

The query returns all employees except `David`, who is assigned to a department that does not exist in the `departments` table.

Output

Text

```
Bob
Charlie
Alice
```

Find Departments That Have Employees

This query returns departments that have at least one employee. The subquery uses `SELECT 1` to check whether any matching rows exist in the `employees` table. The output is the same if the query uses `SELECT *` instead.

SQL

```sql
SELECT name
FROM departments AS d
WHERE EXISTS (
    SELECT 1
    FROM employees AS e
    WHERE e.department_id = d.id
);
```

The query results exclude the `Marketing` department because no employees belong to it.

Output

Text

```
HR
IT
```

Filter Departments Based on an Uncorrelated Table

In this example, the outer query filters the `departments` table where `id != 3` (excluding the `Marketing` department). The subquery checks if there is at least one employee with a department identifier less than `4`.

The query is uncorrelated because the subquery does not reference the `departments` table.

SQL

```sql
SELECT *
FROM departments d
WHERE d.id != 3
AND EXISTS (
    SELECT *
    FROM employees e
    WHERE e.department_id < 4
);
```

Output

Text

```
HR
IT
```

Find Employees Without a Valid Department

This example uses a `NOT EXISTS` clause. The example returns only employees who are assigned to a department identifier `department_id` not listed in the `departments` table.

SQL

```sql
SELECT name
FROM employees AS e
WHERE NOT EXISTS (
    SELECT *
    FROM departments AS d
    WHERE e.department_id = d.id
);
```

Output: `David`

SIMILAR TO Operator

`SIMILAR TO` is a keyword that extends the `LIKE` operator, adding more features for match filtering including many metacharacters used in regular expressions.

`%` and `_` both act as wildcard operators, but other supported metacharacters match traditional regular expressions.

Syntax

```SQL
WHERE string1 SIMILAR TO string2
```

This table describes the metacharacters supported by the `SIMILAR TO` keyword.

Metacharacter	Description
`%`	Repeated wildcard, matches any characters zero or more times. Equivalent usage to `LIKE`.
`_`	Wildcard, matches exactly one character. Equivalent usage to `LIKE`.
`|`	Alteration, meaning either of two alternatives (`a|b` represents `a` or `b`).
`*`	Repetition of zero or more times.
`+`	Repetition of one or more times.
`?`	Repetition of zero or one times.
`{m}`	Repetition of exactly `m` times.
`{m,n}`	Repetition between `m` and `n` times (inclusive).
`{m,}`	Repetition of at least `m` times.
`()`	Logical grouping.
`[]`	A character class, equivalent to character classes in regular expressions. Example: `[a-z]` is any lowercase English letter.
`^`	Beginning of the line anchor and the negation in character classes.
`$`	End of the line anchor.

`SIMILAR TO` also supports escaping these metacharacters with `\` and certain escape sequences supported by C family languages.

Metacharacter	Description
`\a`	The alert/bell character.
`\b`	The backspace character.
`\B`	A single `\` character. Equivalent to `\\`.
`\cX`	The character with the same five lower order bits as `X` with all zeros as higher order bits.
`\e`	The character with the numeric value 27, Esc.
`\f`	Form feed.
`\n`	Newline.
`\r`	Carriage return.
`\t`	Horizontal tab.
`\uwxyz`	`wxyz` represents four hexadecimal digits, including two characters: one with numeric value `wx`, and one with numeric value `yz`.
`\Uabcdefgh`	`abcdefgh` represents eight hexadecimal digits, including four characters: numeric value `ab`, numeric value `cd`, numeric value `ef`, and numeric value `gh`.
`\v`	Vertical tab.
`\xd....`	`d` is any number of hexadecimal digits. If the number of digits is odd, a 0 is added to the left of the sequence. Numeric characters with values represented by every group of two symbols from `d`.
`\0`	NULL character 0.
`\xy`	`xy` are octal digits that represent the character with the numeric value `xy`.
`\xyz`	`xyz` are octal digits that represent the character with the numeric value `xyz`. If `x` is greater than or equal to `4`, the database returns two characters: the numeric value `1` and the numeric value of the lower 8 bits of `xyz`.
`\d`	Matches any digit.
`\s`	Matches any whitespace.
`\w`	Matches any alphanumeric character or `_`.
`\D`	Matches any non-digit.
`\S`	Matches any non-whitespace.
`\W`	Matches any non-alphanumeric that is also not `_`.
`\A`	The beginning of a line. Equivalent to `^`.
`\m`, `\M`, or `\y`	The boundary of a word. Equivalent to `\b` in normal regular expressions.
`\Y`	Any position that is not the boundary of a word.
`\Z`	The end of a line. Equivalent to `$` in normal regular expressions.

Metacharacter	Description
`\*`	The star character.
`\+`	The plus character.
`\?`	The question mark character.

- The database ignores any `\` metacharacter that does not precede a metacharacter (including `\`) or an escape sequence in the metacharacter table.
- Invalid expressions (unpreceded quantifiers, unclosed parentheses, etc.) result in query errors.
- The database does not recognize the `.` character as a metacharacter, unlike the behavior in traditional regular expressions.
- The database applies escape metacharacters that apply to string literals. To match a string containing a single `'\'`, you might need to use `'\\\\'`.

Examples

SQL

```
'abc' SIMILAR TO 'abc'          true
'abc' SIMILAR TO 'a'            false
'abc' SIMILAR TO '%(b|d)%'      true
'abc' SIMILAR TO '(b|c)%'       false
'-abc-' SIMILAR TO '%\mabc\M%'  true
'xabcy' SIMILAR TO '%\mabc\M%'  false
```

Array Filters

A filter expression can use the functions `FOR_SOME()` and `FOR_ALL()` to apply a predicate against all values of an input array.

Array filter functions have the following rules:

- They can only evaluate array types.
- They can go on either the left or right side of a boolean comparison expression, but not both sides at the same time.
- They must directly use a boolean comparison operator.
- They cannot use the `SOME` and `ALL` SQL keywords.

Filter Behavior with Empty Arrays

Array filter functions have unique behavior when evaluating empty arrays.

- `FOR_ALL()` evaluates an empty array as `TRUE`.
- `FOR_SOME()` evaluates an empty array as `FALSE`.

If empty arrays must be evaluated for a different result, you can use the `ARRAY_LENGTH` function to specify a minimum array length. For example, this statement would evaluate an array as `TRUE` only if it is not empty and all values matched `%ocient%`:

```sql
ARRAY_LENGTH(array_col) > 0 AND FOR_ALL(array_col) LIKE '%ocient%
```

For details about array functions, see the **Array Functions and Operators** page.

Filter Behavior with NULL rows

Filtering with array functions can have different outcomes depending on whether the array row is NULL or if the values contained in the array are NULL.

If `FOR_SOME()` or `FOR_ALL()` evaluate a NULL row (the row itself is NULL, not that the array contains NULL values), then the result is always `FALSE`.

To check an array for the presence of NULL values, you must use the `IS NULL` operator. For example:

```sql
FOR_SOME(array_col) IS NULL
```

Array comparison operators, such as `@>`, `<@`, and `&&` do not adhere to Boolean logic for NULL values. For details, see the **Array Functions and Operators** page.

GROUP BY

Groups rows with the same values into summary rows, based on a specified aggregate function.

Syntax

```sql
SELECT <select_list_clause> FROM table_name
    GROUP BY { column_name | expression | integer } [ , ... ]
    [ HAVING <filter_condition> ]
```

Parameters

Parameter	Description
`<select_list_clause>`	A list of one or more columns for the `SELECT` query. To use `GROUP BY` to summarize the query result set, at least one of the columns in `column_list` must include an aggregate function, such as `SUM()`, `COUNT()`, or `MAX()`. For a list of supported functions, see the **Aggregate Functions** page.
`table_name`	The table to use for the query.
`column_name`	The name of one or more columns to use to group the result set. If you specify multiple columns, the result set is grouped by each unique combination of values from the columns.
`expression`	Any combination of literal values, column names, arithmetic expressions, parentheses, and function calls.
`integer`	An integer representing the position of the columns referenced in the `column_list`. The first position starts at `1`.
`<filter_condition>`	A `HAVING` clause that filters the aggregated groups based on a specified condition. For details, see the **<filter_condition>** section.

Example

This example uses a movie database to calculate the total amount spent on movie production per year.

SQL

```sql
SELECT YEAR(release_date),
    SUM(budget)
FROM movies
GROUP BY 1
ORDER BY 1 ASC;
```

Output

year(release_date)	sum(budget)
1968	10500000
1979	31500000
1981	18000000
1982	28000000
1992	14000000
1997	200000000
2003	264000000
2009	237000000
2010	350000000
2012	670000000
2013	350000000
2015	414000000

HAVING

Filters aggregated rows based on a specified condition.

`HAVING` operates in a `GROUP BY` statement by setting a filter for the rows to be aggregated and grouped.

For information on using `GROUP BY` in a query statement, see **GROUP BY**.

Syntax

```SQL
GROUP BY column_name HAVING <filter_condition>
```

Parameters

Parameter	Description
`column_name`	A column used for grouping that is evaluated by the `filter_condition`.
`<filter_condition>`	A logical combination of boolean predicates. For information on supported logical predicates, see **<filter_condition>**.

Example

This example calculates the total amount spent on movie production per year. The `HAVING` clause filters out any rows that do not have a sum of at least $100 million.

```sql
SELECT YEAR(release_date),
    SUM(budget)
FROM movies
GROUP BY 1
HAVING SUM(budget) > 100000000
ORDER BY 1 ASC;
```

Output

year(release_date)	sum(budget)
1997	200000000
2003	264000000
2009	237000000
2010	350000000
2012	670000000
2013	350000000
2015	414000000

ORDER BY

Sorts the result set in ascending or descending order based on one or more specified columns.

If you specify multiple columns, they are sorted hierarchically from left to right.

Syntax

```sql
ORDER BY { column_position | column_name } [ ASC | DESC ]
    [ NULLS FIRST | NULLS LAST ] [ , ... ]
```

Parameters

Parameter	Data Type	Description
`column_position`	Integer	The position of a column to be used for the `ORDER BY` sorting. Column positions start at `1`.
`column_name`	String	The name of a column to be used for the `ORDER BY` sorting.
`ASC | DESC`	String	Optional. Specifies whether to sort the column in ascending (`ASC`) or descending (`DESC`) order. If unspecified, defaults to `ASC`.
`NULLS FIRST | NULLS LAST`	String	Optional. `NULLS FIRST` means null values go at the start of the result set. `NULLS LAST` means null values go at the end of the result set. If unspecified, defaults to `NULLS FIRST`.

Example

In this example, the `ORDER BY` statement orders the movies from newest to oldest.

SQL

```sql
SELECT release_date, title
FROM movies
ORDER BY release_date DESC;
```

Output

release_date	title
2015-06-17	Minnows
2015-06-09	Triassic World
2015-04-01	Fury 7
2013-11-27	Frigid
2013-04-18	Iron Chef 3
2012-10-25	Spyman 16
2012-07-16	Superhero 23
2012-04-25	The Tentpole
2010-06-30	The Last Airman
2010-06-16	Merchandise Vehicle 5
2009-12-10	CGI Why
2003-12-01	Swords & Scabbards
2003-10-10	Billy the Killy
2003-07-09	Pirates of Palm Springs
1997-11-18	Titania
1992-08-07	Bang Bang Western
1982-06-25	Blade Walker
1981-06-12	Raiders of the Jungle Temple
1979-08-15	Apocalypse None
1968-04-10	Space Odyssey 6000

LIMIT

Limits the number of returned rows from a query to a specified amount.

The returned rows are nondeterministic unless you use an **ORDER BY** clause.

Syntax

SQL

```
<select_query> LIMIT limit_number
```

Parameters

Parameter	Description
`<select_query>`	A valid `SELECT` query.
`limit_number`	The number of rows to return from the query, specified as a positive integer or any constant scalar expression that evaluates to a positive integer.

Examples

Limit Returned Rows Using a Number

This example uses `LIMIT` to restrict the number of returned movie titles to only three.

SQL

```
SELECT title FROM movies LIMIT 3;
```

Output

SQL

```
Minnows
CGI Why
Billy the Killy
```

Limit Returned Rows Using an Expression

The `LIMIT` SQL statement can also accept expressions. This query uses the `1+2` expression with the `sys.dummy` table to create a table of three incrementing integers. For details, see **Generate Tables Using sys.dummy**.

SQL

```
SELECT c1 FROM sys.dummy10 LIMIT 1+2;
```

Output

SQL

```
1
2
3
```

OFFSET

Skips a specified number of rows from the result set.

The returned rows are nondeterministic unless you use an **ORDER BY** clause.

Syntax

SQL

```
<select_query> OFFSET offset_number
```

Parameters

Parameter	Description
`<select_query>`	A valid SELECT query.
`offset_number`	The number of rows to skip when returning results from the query, specified as a positive integer or any constant scalar expression that evaluates to a positive integer.

Examples

Skip Rows From the Result Set Using a Number

In this example, the `ORDER BY` statement orders the results chronologically. As a result, the `OFFSET` clause removes the oldest six movies from the result set.

SQL

```
SELECT release_date,
    title
FROM movies
ORDER BY release_date OFFSET 6;
```

Output

release_date	title
2003-07-09	Pirates of Palm Springs
2003-10-10	Billy the Killy
2003-12-01	Swords & Scabbards
2009-12-10	CGI Why
2010-06-16	Merchandise Vehicle 5
2010-06-30	The Last Airman
2012-04-25	The Tentpole
2012-07-16	Superhero 23
2012-10-25	Spyman 16
2013-04-18	Iron Chef 3
2013-11-27	Frigid
2015-04-01	Fury 7
2015-06-09	Triassic World
2015-06-17	Minnows

Skip Rows From the Result Set Using an Expression

The `OFFSET` SQL statement can also accept expressions. This query uses the expression `3+4` with the `sys.dummy` table to create a column of incrementing integers by skipping the first seven out of 10 rows. For details, see **Generate Tables Using sys.dummy**.

SQL

```
SELECT c1 FROM sys.dummy10 OFFSET 3+4;
```

Output

SQL

```
8
9
10
```

INTERSECT

Returns any rows that match between two separate `SELECT` queries. To use `INTERSECT`, the two queries must be compatible, meaning they must return the same number of columns and have similar data types.

By default, the SQL statement eliminates duplicate rows unless the query includes the optional `ALL` keyword. Using the `DISTINCT` keyword is the same as this default behavior.

Syntax

SQL

```
<select_query1> INTERSECT [ ALL | DISTINCT ] <select_query2>
```

Parameters

Parameter	Description
`<select_query1>`	A valid SELECT query.
`<select_query2>`	A valid SELECT query.

Example

This example has two `SELECT` queries with an `INTERSECT` statement. The full query retrieves movies that had a budget of at least $200 million, but also earned more than $1 billion in revenues.

SQL

```
SELECT *
FROM movies
WHERE revenue > 1000000000
INTERSECT
SELECT *
FROM movies
WHERE budget > 20000000;
```

Output

movie_id	title	budget	popularity	release_date	revenue	runtime	movie_status	vote_average	vote_count
597	Titania	200000000	100.025899	1997-11-18	1845034188	194	Released	7.5	7562
19995	CGI Why	237000000	150.437577	2009-12-10	2787965087	162	Released	7.2	11800
49026	Superhero 23	250000000	112.31295	2012-07-16	1084939099	165	Released	7.6	9106
10193	Merchandise Vehicle 5	200000000	59.995418	2010-06-16	1066969703	103	Released	7.6	4597
211672	Minnows	74000000	875.581305	2015-06-17	1156730962	91	Released	6.4	4571
122	Swords & Scabbards	94000000	123.630332	2003-12-01	1118888979	201	Released	8.1	8064
37724	Spyman 16	200000000	93.004993	2012-10-25	1108561013	143	Released	6.9	7604
109445	Frigid	150000000	165.125366	2013-11-27	1274219009	102	Released	7.3	5295
168259	Furious 7	190000000	102.322217	2015-04-01	1506249360	137	Released	7.3	4176
68721	Iron Chef 3	200000000	77.68208	2013-04-18	1215439994	130	Released	6.8	8806
135397	Triassic World	150000000	418.708552	2015-06-09	1513528810	124	Released	6.5	8662
24428	The Tentpole	220000000	144.448633	2012-04-25	1519557910	143	Released	7.4	11776

EXCEPT

The `EXCEPT` keyword returns the result set of a first `SELECT` query minus any matching rows from a second `SELECT` query.

`EXCEPT` requires the two queries to be compatible, meaning they must return the same number of columns and have similar data types. By default, the result set eliminates duplicate rows unless the query includes the optional `ALL` keyword. Using the `DISTINCT` keyword is the same as this default behavior.

The `EXCEPT` keyword can also be used to exclude specific columns from a `SELECT *` query. For information on that alternate usage, see the **SELECT** syntax and example.

Syntax

SQL

```
<select_query1> EXCEPT [ ALL | DISTINCT ] <select_query2>
```

Parameters

Parameter	Description
`<select_query1>`	A valid SELECT query that is compared to `select_query2`. The results of an EXCEPT statement are the rows in `select_query1` that do not match any row in `select_query2`.
`<select_query2>`	A valid SELECT query that is compared to `select_query1`.

Example

In this example, the first `SELECT` statement queries all rows in the `movies` table. The `EXCEPT` clause and the second `SELECT` statement eliminate from the results any rows with movies that had a budget greater than `20000000`.

SQL

```sql
SELECT *
FROM movies
EXCEPT
SELECT *
FROM movies
WHERE budget > 20000000;
```

Output

title	budget	popularity	release_date	revenue	runtime	movie_status	vote_average	vote_count
Bang Bang Western	14000000	37.380435	1992-08-07	159157447	131	Released	7.7	1113
Space Odyssey 6000	10500000	86.201184	1968-04-10	68700000	149	Released	7.9	2998
Raiders of the Jungle Temple	18000000	68.159596	1981-06-12	389925971	115	Released	7.7	3854

UNION

Returns the combined result set of two or more `SELECT` queries.

By default, `UNION` eliminates duplicate rows from the result set unless you specify the `ALL` keyword. Using the `DISTINCT` keyword is the same as this default behavior.

Syntax

SQL

```sql
<select_query1> UNION [ ALL | DISTINCT ] <select_query2> [ ... ]
```

Parameters

Parameter	Data Type	Description
`select_query1`	String	A valid `SELECT` query that is combined with `select_query2`.
`select_query2`	String	A valid `SELECT` query that is combined with `select_query1`.

Example

This example uses `UNION` to merge two separate queries for identical columns into the same result set.

SQL

```sql
SELECT title,
    popularity,
    vote_average
FROM movie
WHERE popularity > 800
UNION
SELECT title,
    popularity,
    vote_average
FROM movies.movie
WHERE vote_average > 7.5;
```

Output

title	popularity	vote_average
Raiders of the Jungle Temple	68.159596	7.7
Minnows	875.581305	6.4
Apocalypse None	49.973462	8
Superhero 23	112.31295	7.6
Billy the Killy	79.754966	7.7
Bang Bang Western	37.380435	7.7
Blade Walker	94.056131	7.9
Swords & Scabbards	123.630332	8.1
Merchandise Vehicle 5	59.995418	7.6
Space Odyssey 6000	86.201184	7.9

USING

Overrides various system configurations for processing a specified query.

The `USING` keyword is required for only the first query override, not for subsequent ones.

For descriptions of the supported query configurations, see the parameter table below.

Syntax

SQL

```
<select_query>
USING
    [ SCHEDULING_PRIORITY = priority_value ]
    [ MAX_ROWS_RETURNED = max_rows ]
    [ MAX_ELAPSED_TIME = max_elapsed_time ]
    [ MAX_TEMP_DISK_USAGE = max_temp_disk_usage ]
    [ CACHE_MAX_TIME = cache_max_time ]
    [ CACHE_MAX_BYTES = cache_max_bytes ]
    [ SERVICE CLASS service_class ]
```

Parameters

Parameter	Description
`<select_query>`	A valid `SELECT` query.
`priority_value`	An optional clause that specifies the priority at which the query should run. The priority value is a floating point number, which indicates the priority compared to the other queries. The priority value does not specify any percentage of resources that the query takes or any specific degree of difference between queries. If unspecified, defaults to `SCHEDULING_PRIORITY = 1.0`.
`max_rows`	An optional clause that limits the number of rows returned by a query. If a query exceeds this number of rows, the system kills it. For example, `max_rows_returned = 10` kills any queries returning more than ten rows.
`max_elapsed_time`	An optional clause that limits how long a query can run. If a query exceeds this time limit in seconds, the system kills it. For example, `max_elapsed_time = 10` kills any queries taking longer than 10 seconds.
`max_temp_disk_usage`	An optional clause that limits the percentage of temporary disk used by a query. If a query exceeds this temporary disk limit, the system kills it. For example, `max_temp_disk_usage = 10` kills any queries taking more than 10% of temporary disk space.
`cache_max_time`	An optional clause that affects whether a specified query uses results from the cache rather than executing the query. If there is a cached result with the same query text, executed less than `cache_max_time` seconds ago, the database uses that cached result. The default value is 0, and thus by default, the database does not return any cached results. The cache considers all SQL Nodes, and if a potential cached result is only available on a different SQL Node, the database redirects the query to that node. If you specify the force attribute on the connection, which disables load balancing and redirection, the database considers only cached results on the current node.
`cache_max_bytes`	An optional clause that controls whether the database stores the results of any specified query in the cache. The system stores the results of all queries executed using a service class specifying this attribute in the cache if the result size is smaller than this value. You can determine the size of a result set in bytes by querying the `bytes_returned` field of the `completed_queries` virtual table. The default value is 0, and thus by default, the database does not cache any results. The database caches results in memory on the SQL Nodes. These results are not cached if there is insufficient memory available.
`service_class`	An optional clause at the end of a query that sets a specific service class to run that query. For details, see **CREATE SERVICE CLASS**.

Example

```sql
SELECT * FROM sys.dummy10
USING
    SCHEDULING_PRIORITY = 1.0
    MAX_ROWS_RETURNED = 10
    MAX_ELAPSED_TIME = 10
    MAX_TEMP_DISK_USAGE = 10;
```

Output

```sql
c1
-----------
1
2
3
4
5
6
7
8
9
10
```

TRACE

An optional clause that executes the query, but discards the original result set. Instead, `TRACE` returns a result set of tracing data that describe the execution of the query.

Append the `TRACE` SQL statement to the end of a query. The statement can include optional parameters to control its frequency and level of detail.

To understand the results of this statement, see **TRACE Results**.

> Trace queries have the same effect to the workload as a query run without the clause.

> Contact Ocient Support for guidance in using the TRACE SQL statement.

Syntax

```sql
<select_query> TRACE
    [ FREQUENCY frequency_int ]
    [ RESOLUTION resolution_int ]
```

Parameters

Parameter	Description
`<select_query>`	A valid `SELECT` query.
`frequency_int`	Controls how often the database samples trace events during query execution in milliseconds. If unspecified, defaults to 500 milliseconds.
`resolution_int`	Determines the level of detail captured for a trace or event. If the resolution of a trace is greater than the resolution of an event, the database records the event. If unspecified, defaults to 100 milliseconds.

TRACE Results

Each row of the trace output provides some information about what an operator instance has done in the time between the previous trace sample and the most current sample.

Column	Description
`plan_parent_id`	The UUID of the parent of the operator instance in the query plan. If an operator has multiple parents, this field specifies the UUID of one of the parents.
`plan_op_id`	The UUID of the operator in the query plan.
`operator_type`	The type of operator that the database uses to sample trace events.
`node_id`	The UUID of the node where this operator executes.
`code_id`	The identifier of the VM core where this operator instance executes. Core identifiers are unique for each node.
`op_id`	The identifier of the operator instance. Identifiers are unique for each node.
`time`	The time in milliseconds when the database collects the information for the trace event relative to the start of the query.
`group`	Group related trace events together.
`sample`	The sample of trace event data. For possible values, see the following table.
`value`	The value of trace event data.

Sample and Value Columns

The `sample` and `value` columns describe what occurred in a given trace period.

Sample	Description
`ROWS_IN`	The number of rows an operator instance has read from its children operators.
`ROWS_OUT`	The number of rows the operator instance returns.
`BLOOM_FILTERED_ROWS`	The number of rows that this operator instance discards by using Bloom filters.
`SCHEDULE_CYCLE`	The number of cycles in the schedule for this operator instance.
`OOM_CYCLE`	The number of out-of-memory cycles in the schedule for this operator.
`INITIALIZE`	The time when the database initializes the operator.
`FINALIZE`	The time when the database finalizes the operator.

Example

SQL

```
SELECT * FROM sys.dummy10 TRACE;
```

Output

plan_parent_id	plan_op_id	operator_type	node_id	core_id	op_id	time	group	sample	value
77041d2b-f7ca-49d5-a3f5-4b75b0782ed1	498690cf-4a9b-4c1f-affa-417f31fddc2d	RENAME_OPERATOR	08ca7b05-1e4d-455f-9f46-2174ed048d33	4	8441	0	xg::db::vm::operators::operatorTraceEvents	ROWS_IN	1
77041d2b-f7ca-49d5-a3f5-4b75b0782ed1	498690cf-4a9b-4c1f-affa-417f31fddc2d	RENAME_OPERATOR	08ca7b05-1e4d-455f-9f46-2174ed048d33	4	8441	0	xg::db::vm::operators::operatorTraceEvents	ROWS_OUT	1
77041d2b-f7ca-49d5-a3f5-4b75b0782ed1	498690cf-4a9b-4c1f-affa-417f31fddc2d	RENAME_OPERATOR wtfffff	08ca7b05-1e4d-455f-9f46-2174ed048d33	4	8441	0	xg::db::vm::operators::operatorTraceEvents	BLOOM_FILTERED_ROWS	0

TAG

An optional clause that adds one or more tags to the SQL query. You can also add tags to a common table expression in the `WITH` clause. After you define tags, you can find them in the `sys.queries` and `sys.completed_queries` system catalog tables.

Syntax

SQL

```
<select_query> <tag> [ ... ]

<tag> ::= TAG <tag_identifier>
```

Parameters

Parameter	Description
`<select_query>`	A valid `SELECT` query.
`tag_identifier`	Identifier of the tag for the query. Enclose the identifier in double quotes if it contains any special characters, such as spaces.

Examples

SQL Query with One Tag

Select the count of a table with one row and tag the query with the name `count1`.

SQL

```
SELECT COUNT(*) FROM sys.dummy1 TAG count1;
```

SQL Query with Multiple Tags

Select the device model and tag this query with two names `device_model` and `phones`.

SQL

```
SELECT device_model
FROM system.adtech_flat
LIMIT 1
TAG device_model
TAG phones;
```

Common Table Expression with One Tag

Define a common table expression with the `average_budget` tag. You can also add another tag for the whole query `overall_budget`.

SQL

```
WITH avg_budget_table (average_budget) AS (
    SELECT AVG(budget)
    FROM movies
    TAG average_budget
)
SELECT title,
    budget,
    revenue
FROM movies,
    avg_budget_table
WHERE budget > avg_budget_table.average_budget
TAG overall_budget;
```

String Literals and Escape Sequences

All string literals in SQL statements must be enclosed in single quotes. To use a single quote within a string, you can use another single quote as an escape, `''`.

For other escape sequences, include an `e` character before the string literal, i.e., before the opening single quote. This directs the system to recognize escape sequences in the string literal. This means:

- All single `\` characters in the string now escape themselves.
- Any subsequent character after the `\` is also escaped if it matches an escape sequence (see the table).

If you use escape sequences, be prepared that you might need to alter strings that include `\`, such as directory paths.

Supported Escape Sequences

Escape Sequence	Description
`''`	Single quotation mark
`\"`	Double quotation mark
`\n`	Newline character
`\r`	Carriage return character
`\f`	Form feed character (i.e. page break)
`\b`	Backspace
`\\`	Backslash
`\t`	Tab

Examples

These examples show how the system interprets strings with and without escape sequences.

String Without an Escape Sequence

This example selects the simple string literal `'\my\directory\path'` that does not use escape sequences.

SQL

```sql
SELECT '\my\directory\path';
```

Output: `\my\directory\path`

String With an Escape Sequence

This example selects the simple string literal `'\my\directory\path'` and uses an escape sequence. The result omits the backslashes.

SQL

```sql
SELECT e'\my\directory\path';
```

Output: `mydirectorypath`

String With an Escape Sequence to Retain the Backslashes

This example uses the `'\\my\\directory\\path'` string with an escape sequence to include backslashes in the result.

SQL

```
SELECT e'\\my\\directory\\path';
```

Output: `\my\directory\path`

Escape Sequences with Regular Expressions

> Be careful using escape sequences with strings that also use regular expressions. Escape sequences in SQL syntax override the escape sequences of regular expressions.

In this example, the **REGEXP_SUBSTR** function uses the regular expression `\w+` to match any word characters.

SQL

```
SELECT REGEXP_SUBSTR(
    'abcdefghijklmnopqrstuvwxyz',
    '\w+'
    );
```

Output: `abcdefghijklmnopqrstuvwxyz`

The function behaves differently if the regular expression is an escape sequence because it overrides the `\` character. The regular expression searches only for the character `w`.

SQL

```
SELECT REGEXP_SUBSTR(
    'abcdefghijklmnopqrstuvwxyz',
    e'\w+'
    );
```

Output: `w`

Related Links

SQL Reference

Data Control Language (DCL) Statement Reference

Data Definition Language (DDL) Statement Reference

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Milk Producer	Produtor de leite
Total Heifer	Total de novilha
Total Heifers	Total de novilhas
% Abortions	% Perda de Prenhez
% Abortions LCTGRP 0	% Perda de Prenhez LACT 0
% Abortions LCTGRP 1	% Perda de Prenhez LACT 1
% Abortions LCTGRP 2	% Perda de Prenhez LACT 2
% Abortions LCTGRP 3	% Perda de Prenhez LACT 3+
% Calves Sold	% Bezerras Vendidas
% Calves Sold LCTGRP 1	% Bezerras Vendidas LACT 1
% Calves Sold LCTGRP 2	% Bezerras Vendidas LACT 2
% Calves Sold LCTGRP 3	% Bezerras Vendidas LACT 3+
% Calving Ease Score > 1	% Partos com Escore > 1
% Calving Ease Score > 1 LCTGRP 1	% Partos com Escore > 1 LACT 1
% Calving Ease Score > 1 LCTGRP 2	% Partos com Escore > 1 LACT 2
% Calving Ease Score > 1 LCTGRP 3	% Partos com Escore > 1 LACT 3+
% Calving Ease Score > 2	% Partos com Escore > 2
% Calving Ease Score > 2 LCTGRP 1	% Partos com Escore > 2 LACT 1
% Calving Ease Score > 2 LCTGRP 2	% Partos com Escore > 2 LACT 2
% Calving Ease Score > 2 LCTGRP 3	% Partos com Escore > 2 LACT 3+
% Calving Ease Score > 3	% Partos com Escore > 3
% Calving Ease Score > 3 LCTGRP 1	% Partos com Escore > 3 LACT 1
% Calving Ease Score > 3 LCTGRP 2	% Partos com Escore > 3 LACT 2
% Calving Ease Score > 3 LCTGRP 3	% Partos com Escore > 3 LACT 3+
% Calving Mortality	% Natimortos
% Calving Mortality Female	% Natimortos em Fêmeas
% Calving Mortality Female LCTGRP 1	% Natimortos em Fêmeas LACT 1
% Calving Mortality Female LCTGRP 2	% Natimortos em Fêmeas LACT 2
% Calving Mortality Female LCTGRP 3	% Natimortos em Fêmeas LACT 3+
% Calving Mortality LCTGRP 1	% Natimortos LACT 1
% Calving Mortality LCTGRP 2	% Natimortos LACT 2
% Calving Mortality LCTGRP 3	% Natimortos LACT 3+

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% Calving Mortality Male	% Natimortos em Machos
% Calving Mortality Male LCTGRP 1	% Natimortos em Machos LACT 1
% Calving Mortality Male LCTGRP 2	% Natimortos em Machos LACT 2
% Calving Mortality Male LCTGRP 3	% Natimortos em Machos LACT 3+
% Chronic SCC	% Vacas Crônicas
Beef Producer	Produtor de carne
% Chronic SCC LCTGRP 1	% Vacas Crônicas LACT 1
% Chronic SCC LCTGRP 2	% Vacas Crônicas LACT 2
% Chronic SCC LCTGRP 3	% Vacas Crônicas LACT 3+
% Colostrum Brix <25	% Colostro Brix < 25
% Colostrum Brix >=28	% Colostro Brix >= 28
% Colostrum Brix 25-27	% Colostro Brix = 25-27
% Colostrum by Bottle	% Colostragens Fornecimento por Mamadeira
% Colostrum by Dam	% Colostragens Fornecimento na Mãe
% Colostrum by Tube	% Colostragens Fornecimento por Sonda
% Colostrum Fresh Enriched	% Colostro Fresco Enriquecido
% Colostrum Fresh Maternal	% Colostro Fresco Materno
% Colostrum Fresh Pooled	% Colostro Fresco Misturado
% Colostrum Fresh Unknown	% Colostro Fresco Origem Desconhecida
% Colostrum Frozen Enriched	% Colostro Descongelado Enriquecido
% Colostrum Frozen Maternal	% Colostro Descongelado Materno
% Colostrum Frozen Pooled	% Colostro Descongelado Misturado
% Colostrum Frozen Unknown	% Colostro Descongelado Origem Desconhecida
% Colostrum Method Unknown	% Colostragens Método Desconhecido
% Colostrum Pasteurized Enriched	% Colostro Pasteurizado Enriquecido
% Colostrum Pasteurized Maternal	% Colostro Pasteurizado Materno
% Colostrum Pasteurized Pooled	% Colostro Pasteurizado Misturado
% Colostrum Pasteurized Unknown	% Colostro Pasteurizado Origem Desconhecida
% Colostrum Replacer Enriched	% Colostro em Pó Enriquecido
% Colostrum Replacer Maternal	% Colostro em Pó Materno
% Colostrum Replacer Pooled	% Colostro em Pó Misturado
% Colostrum Replacer Unknown	% Colostro em Pó Origem Desconhecida

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% Colostrum UnKnown Enriched	% Colostro Desconhecido Enriquecido
% Colostrum UnKnown Maternal	% Colostro Desconhecido Materno
% Colostrum UnKnown Pooled	% Colostro Desconhecido Misturado
% Colostrum UnKnown Unknown	% Colostro Desconhecido Desconhecido
% Cows with Days Open > 100	% Vacas com Dias em Aberto > 100
% Cows with Days Open > 150	% Vacas com Dias em Aberto > 150
% Cows with Days Open > 200	% Vacas com Dias em Aberto > 200
% Cured Infection	% Vacas Curadas
% Cured Infection LCTGRP 1	% Vacas Curadas LACT 1
% Cured Infection LCTGRP 2	% Vacas Curadas LACT 2
% Cured Infection LCTGRP 3	% Vacas Curadas LACT 3+
% Cured over Dry Period	% Vacas Curadas no Período Seco
% Died Cows	% Mortalidade Vacas
% Died Cows LCTGRP 1	% Mortalidade Vacas LACT 1
% Died Cows LCTGRP 2	% Mortalidade Vacas LACT 2
% Died Cows LCTGRP 3	% Mortalidade Vacas LACT 3+
% Died Transition Cows	% Mortalidade no Pós-Parto
% Died Transition Cows LCTGRP 1	% Mortalidade no Pós-Parto LACT 1
% Died Transition Cows LCTGRP 2	% Mortalidade no Pós-Parto LACT 2
% Died Transition Cows LCTGRP 3	% Mortalidade no Pós-Parto LACT 3+
% Females Born	% Fêmeas Nascidas
% Females Born LCTGRP 0	% Fêmeas Nascidas LACT 0
% Females Born LCTGRP 1	% Fêmeas Nascidas LACT 1
% Females Born LCTGRP 2	% Fêmeas Nascidas LACT 2
% Females Born LCTGRP 3	% Fêmeas Nascidas LACT 3+
% Fresh Cow New Infection	% Vacas com Nova Infecção no Pós-Parto
% Healthy over Dry Period	% Vacas Saudáveis no Período Seco
% Heifers with Days Open > 17 Months	% Novilhas com Dias em Aberto > 17 Meses
% High SCC	% Vacas CCS Alta
% High SCC Fresh Test	% Vacas CCS Alta no Pós-Parto
% Lameness	% Lesão de Casco
% Lameness LCTGRP 1	% Lesão de Casco LACT 1

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% Lameness LCTGRP 2	% Lesão de Casco LACT 2
% Lameness LCTGRP 3	% Lesão de Casco LACT 3+
% Males Born	% Machos Nascidos
% Mastitis	% Mastite
% Mastitis LCTGRP 1	% Mastite LACT 1
% Mastitis LCTGRP 2	% Mastite LACT 2
% Mastitis LCTGRP 3	% Mastite LACT 3+
% New Infections	% Vacas com Nova Infecção
% New Infections LCTGRP 1	% Vacas com Nova Infecção LACT 1
% New Infections LCTGRP 2	% Vacas com Nova Infecção LACT 2
% New Infections LCTGRP 3	% Vacas com Nova Infecção LACT 3+
% Pneumonia	% Pneumonia
% Pneumonia < 180 Days Old	% Pneumonia < 180 Dias
% Pneumonia < 35 Days Old	% Pneumonia < 35 Dias
% Pneumonia < 7 Days Old	% Pneumonia < 7 Dias
% Pneumonia < 90 Days Old	% Pneumonia < 90 Dias
% Pneumonia LCTGRP 1	% Pneumonia LACT 1
% Pneumonia LCTGRP 2	% Pneumonia LACT 2
% Pneumonia LCTGRP 3	% Pneumonia LACT 3+
% Serum Protein < 8.9	% Brix Sérico < 8,9
% Serum Protein >= 9.4	% Brix Sérico >= 9,4
% Serum Protein 8.9-9.3	% Brix Sérico 8,9-9,3
% Sold and Died Cows	% Descarte + Morte Vacas
% Sold and Died Cows LCTGRP 1	% Descarte + Morte Vacas LACT 1
% Sold and Died Cows LCTGRP 2	% Descarte + Morte Vacas LACT 2
% Sold and Died Cows LCTGRP 3	% Descarte + Morte Vacas LACT 3+
% Sold and Died Transition Cows	% Descarte e Mortalidade no Pós-Parto
% Sold and Died Transition Cows LCTGRP 1	% Descarte e Mortalidade no Pós-Parto LACT 1
% Sold and Died Transition Cows LCTGRP 2	% Descarte e Mortalidade no Pós-Parto LACT 2
% Sold and Died Transition Cows LCTGRP 3	% Descarte e Mortalidade no Pós-Parto LACT 3+
% Sold Cows	% Descarte Vacas
% Sold Cows LCTGRP 1	% Descarte Vacas LACT 1

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% Sold Cows LCTGRP 2	% Descarte Vacas LACT 2
% Sold Cows LCTGRP 3	% Descarte Vacas LACT 3+
% Sold Transition Cows	% Descarte no Pós-Parto
% Sold Transition Cows LCTGRP 1	% Descarte no Pós-Parto LACT 1
% Sold Transition Cows LCTGRP 2	% Descarte no Pós-Parto LACT 2
% Sold Transition Cows LCTGRP 3	% Descarte no Pós-Parto LACT 3+
% Survival 365 Days	% Sobrevivência aos 365 Dias
% Survival 90 Days	% Sobrevivência aos 90 Dias
% Transition Displaced Abomasum	% Deslocamento de Abomaso
% Transition Displaced Abomasum LCTGRP 1	% Deslocamento de Abomaso LACT 1
% Transition Displaced Abomasum LCTGRP 2	% Deslocamento de Abomaso LACT 2
% Transition Displaced Abomasum LCTGRP 3	% Deslocamento de Abomaso LACT 3+
% Transition Ketosis	% Cetose
% Transition Ketosis LCTGRP 1	% Cetose LACT 1
% Transition Ketosis LCTGRP 2	% Cetose LACT 2
% Transition Ketosis LCTGRP 3	% Cetose LACT 3+
% Transition Mastitis	% Mastite no Pós-Parto
% Transition Mastitis LCTGRP 1	% Mastite no Pós-Parto LACT 1
% Transition Mastitis LCTGRP 2	% Mastite no Pós-Parto LACT 2
% Transition Mastitis LCTGRP 3	% Mastite no Pós-Parto LACT 3+
% Transition Metritis	% Metrite
% Transition Metritis LCTGRP 1	% Metrite LACT 1
% Transition Metritis LCTGRP 2	% Metrite LACT 2
% Transition Metritis LCTGRP 3	% Metrite LACT 3+
% Transition Milk Fever	% Hipocalcemia
% Transition Milk Fever LCTGRP 1	% Hipocalcemia LACT 1
% Transition Milk Fever LCTGRP 2	% Hipocalcemia LACT 2
% Transition Milk Fever LCTGRP 3	% Hipocalcemia LACT 3+
% Transition Retained Placenta	% Retenção de Placenta
% Transition Retained Placenta LCTGRP 1	% Retenção de Placenta LACT 1
% Transition Retained Placenta LCTGRP 2	% Retenção de Placenta LACT 2
% Transition Retained Placenta LCTGRP 3	% Retenção de Placenta LACT 3+

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% Twinning	% Partos Gemelares
% Twinning LCTGRP 1	% Partos Gemelares LACT 1
% Twinning LCTGRP 2	% Partos Gemelares LACT 2
% Twinning LCTGRP 3	% Partos Gemelares LACT 3+
12-Month % Calves Sold	% Bezerras Vendidas Últ. 12 Meses
12-Month % Calves Sold LCTGRP 1	% Bezerras Vendidas Últ. 12 Meses LACT 1
12-Month % Calves Sold LCTGRP 2	% Bezerras Vendidas Últ. 12 Meses LACT 2
12-Month % Calves Sold LCTGRP 3	% Bezerras Vendidas Últ. 12 Meses LACT 3+
12-Month % Calving Ease Score > 1	% Partos com Escore > 1 Últ. 12 Meses
12-Month % Calving Ease Score > 1 LCTGRP 1	% Partos com Escore > 1 Últ. 12 Meses LACT 1
12-Month % Calving Ease Score > 1 LCTGRP 2	% Partos com Escore > 1 Últ. 12 Meses LACT 2
12-Month % Calving Ease Score > 1 LCTGRP 3	% Partos com Escore > 1 Últ. 12 Meses LACT 3+
12-Month % Calving Ease Score > 2	% Partos com Escore > 2 Últ. 12 Meses
12-Month % Calving Ease Score > 2 LCTGRP 1	% Partos com Escore > 2 Últ. 12 Meses LACT 1
12-Month % Calving Ease Score > 2 LCTGRP 2	% Partos com Escore > 2 Últ. 12 Meses LACT 2
12-Month % Calving Ease Score > 2 LCTGRP 3	% Partos com Escore > 2 Últ. 12 Meses LACT 3+
12-Month % Calving Ease Score > 3	% Partos com Escore > 3 Últ. 12 Meses
12-Month % Calving Ease Score > 3 LCTGRP 1	% Partos com Escore > 3 Últ. 12 Meses LACT 1
12-Month % Calving Ease Score > 3 LCTGRP 2	% Partos com Escore > 3 Últ. 12 Meses LACT 2
12-Month % Calving Ease Score > 3 LCTGRP 3	% Partos com Escore > 3 Últ. 12 Meses LACT 3+
12-Month % Calving Mortality Female	% Natimortos em Fêmeas Últ. 12 Meses
12-Month % Calving Mortality Female LCTGRP 1	% Natimortos em Fêmeas Últ. 12 Meses LACT 1
12-Month % Calving Mortality Female LCTGRP 2	% Natimortos em Fêmeas Últ. 12 Meses LACT 2
12-Month % Calving Mortality Female LCTGRP 3	% Natimortos em Fêmeas Últ. 12 Meses LACT 3+
12-Month % Calving Mortality LCTGRP 1	% Natimortos Últ. 12 Meses LACT 1
12-Month % Calving Mortality LCTGRP 2	% Natimortos Últ. 12 Meses LACT 2
12-Month % Calving Mortality LCTGRP 3	% Natimortos Últ. 12 Meses LACT 3+
12-Month % Calving Mortality Male	% Natimortos em Machos Últ. 12 Meses
12-Month % Calving Mortality Male LCTGRP 1	% Natimortos em Machos Últ. 12 Meses LACT 1
12-Month % Calving Mortality Male LCTGRP 2	% Natimortos em Machos Últ. 12 Meses LACT 2
12-Month % Calving Mortality Male LCTGRP 3	% Natimortos em Machos Últ. 12 Meses LACT 3+
12-Month % Diarreah < 180 Days Old	% Diarreia < 180 Dias Últ. 12 Meses

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12-Month % Diarreah < 35 Days Old	% Diarreia < 35 Dias Últ. 12 Meses
12-Month % Diarreah < 7 Days Old	% Diarreia < 7 Dias Últ. 12 Meses
12-Month % Diarreah < 90 Days Old	% Diarreia < 90 Dias Últ. 12 Meses
12-Month % Females Born	% Fêmeas Nascidas Últ. 12 Meses
12-Month % Females Born LCTGRP 0	% Fêmeas Nascidas Últ. 12 Meses LACT 0
12-Month % Females Born LCTGRP 1	% Fêmeas Nascidas Últ. 12 Meses LACT 1
Average Dry Period Length	Média de Período Seco
12-Month % Females Born LCTGRP 2	% Fêmeas Nascidas Últ. 12 Meses LACT 2
12-Month % Females Born LCTGRP 3	% Fêmeas Nascidas Últ. 12 Meses LACT 3+
12-Month % Males Born	% Machos Nascidos Últ. 12 Meses
12-Month % Pneumonia < 180 Days Old	% Pneumonia < 180 Dias Últ. 12 Meses
12-Month % Pneumonia < 35 Days Old	% Pneumonia < 35 Dias Últ. 12 Meses
12-Month % Pneumonia < 7 Days Old	% Pneumonia < 7 Dias Últ. 12 Meses
12-Month % Pneumonia < 90 Days Old	% Pneumonia < 90 Dias Últ. 12 Meses
12-Month % Twinning	% Partos Gemelares Últ. 12 Meses
12-Month % Twinning LCTGRP 1	% Partos Gemelares Últ. 12 Meses LACT 1
12-Month % Twinning LCTGRP 2	% Partos Gemelares Últ. 12 Meses LACT 2
12-Month % Twinning LCTGRP 3	% Partos Gemelares Últ. 12 Meses LACT 3+
12-Month Actual VWP Cows	PEV Real Últ. 12 Meses
12-Month Average DIM	DEL Médio no Controle Últ. 12 Meses
12-Month Average DIM LCTGRP 1	DEL Médio no Controle LACT 1 Últ. 12 Meses
12-Month Average DIM LCTGRP 2	DEL Médio no Controle LACT 2 Últ. 12 Meses
12-Month Average DIM LCTGRP 3	DEL Médio no Controle LACT 3+ Últ. 12 Meses
12-Month Average Peak DIM	Média de DEL ao Pico Últ. 12 Meses
12-Month Average Peak DIM LCT = 1	Média de DEL ao Pico LACT 1 Últ. 12 Meses
12-Month Average Peak DIM LCT > 1	Média de DEL ao Pico LACT 2+ Últ. 12 Meses
12-Month Average Peak Milk Weight	Média de Pico de Produção Últ. 12 Meses
12-Month Average Peak Milk Weight LCT = 1	Média de Pico de Produção LACT 1 Últ. 12 Meses
12-Month Average Peak Milk Weight LCT > 1	Média de Pico de Produção LACT 2+ Últ. 12 Meses
12-Month Average Pregnancy Risk Cows	Taxa de Prenhez Últ. 12 Meses
12-Month Average Pregnancy Risk LCTGRP 0	Taxa de Prenhez LACT 0 Últ. 12 Meses
12-Month Average Pregnancy Risk LCTGRP 1	Taxa de Prenhez LACT 1 Últ. 12 Meses

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12-Month Average Pregnancy Risk LCTGRP 2	Taxa de Prenhez LACT 2 Últ. 12 Meses
12-Month Average Pregnancy Risk LCTGRP 3	Taxa de Prenhez LACT 3+ Últ. 12 Meses
12-Month Average Replacement Age at Conception	Média de Idade na Concepção das Novilhas Últ. 12 Meses
12-Month Conception Risk at First Service Cows	Taxa de Concepção no 1º Serviço de Vacas Últ. 12 Meses
12-Month Conception Risk Cows	Taxa de Concepção de Vacas Últ. 12 Meses
12-Month Insemination Risk Cows	Taxa de Serviço Últ. 12 Meses
12-Month Insemination Risk LCTGRP 0	Taxa de Serviço LACT 0 Últ. 12 Meses
12-Month Insemination Risk LCTGRP 1	Taxa de Serviço LACT 1 Últ. 12 Meses
12-Month Insemination Risk LCTGRP 2	Taxa de Serviço LACT 2 Últ. 12 Meses
12-Month Insemination Risk LCTGRP 3	Taxa de Serviço LACT 3+ Últ. 12 Meses
12-Month Replacement Mortality %	% Mortalidade da Recria Últ. 12 Meses
12-Month Replacement Mortality % < 60 Days	% Mortes da Recria até 60 dias Últ. 12 Meses
12-Month Replacement Mortality % >180 Days	% Mortes da Recria > 180 dias Últ. 6 Meses
12-Month Replacement Mortality % 61-180 Days	% Mortes da Recria 61-180 dias Últ. 12 Meses
12-Month Services per Conception Cows	Serviços por Concepção Vacas Últ. 12 Meses
12-Month Survival % 365 Days	Sobrevivência aos 365 Dias Últ. 12 Meses
12-Month Survival % 90 Days	Sobrevivência aos 90 Dias Últ. 12 Meses
12-Month Total Females Born	Total de Fêmeas Nascidas Últ. 12 Meses
12-Month Total Females Born LCTGRP 0	Nº Fêmeas Nascidas Últ. 12 Meses LACT 0
12-Month Total Females Born LCTGRP 1	Nº Fêmeas Nascidas Últ. 12 Meses LACT 1
12-Month Total Females Born LCTGRP 2	Nº Fêmeas Nascidas Últ. 12 Meses LACT 2
12-Month Total Females Born LCTGRP 3	Nº Fêmeas Nascidas Últ. 12 Meses LACT 3+
12-Month Total Males Born	Nº Machos Nascidos Últ. 12 Meses
1-Month Actual VWP Cows	PEV Real Vacas
1-Month Actual VWP LCTGRP 0	PEV Real LACT 0
1-Month Actual VWP LCTGRP 1	PEV Real LACT 1
1-Month Actual VWP LCTGRP 2	PEV Real LACT 2
1-Month Actual VWP LCTGRP 3	PEV Real LACT 3+
1-Month Average Replacement Age at Conception	Média de Idade na Concepção das Novilhas
3-Month Actual VWP Cows	PEV Real Últ. 3 Meses
3-Month Average Pregnancy Risk Cows	Taxa de Prenhez Últ. 3 Meses
3-Month Average Replacement Age at Conception	Média de Idade na Concepção das Novilhas Últ. 3 Meses

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3-Month Conception Risk at First Service Cows	Taxa de Concepção no 1º Serviço de Vacas Últ. 3 Meses
3-Month Conception Risk Cows	Taxa de Concepção de Vacas Últ. 3 Meses
3-Month Insemination Risk Cows	Taxa de Serviço Últ. 3 Meses
3-Month Replacement Mortality %	% Mortalidade da Recria Últ. 3 Meses
3-Month Replacement Mortality % < 60 Days	% Mortes da Recria até 60 dias Últ. 3 Meses
3-Month Replacement Mortality % >180 Days	% Mortes da Recria > 180 dias Últ. 3 Meses
3-Month Replacement Mortality % 61-180 Days	% Mortes da Recria 61-180 dias Últ. 3 Meses
3-Month Services per Conception Cows	Serviços por Concepção Vacas Últ. 3 Meses
3-Month Survival % 365 Days	Sobrevivência aos 365 Dias Últ. 3 Meses
3-Month Survival % 90 Days	Sobrevivência aos 90 Dias Últ. 3 Meses
6-Month Actual VWP Cows	PEV Real Últ. 6 Meses
6-Month Average Pregnancy Risk Cows	Taxa de Prenhez Últ. 6 Meses
6-Month Average Replacement Age at Conception	Média de Idade na Concepção das Novilhas Últ. 6 Meses
6-Month Conception Risk at First Service Cows	Taxa de Concepção no 1º Serviço de Vacas Últ. 6 Meses
6-Month Conception Risk Cows	Taxa de Concepção de Vacas Últ. 6 Meses
6-Month Insemination Risk Cows	Taxa de Serviço Últ. 6 Meses
6-Month Replacement Mortality %	% Mortalidade da Recria Últ. 6 Meses
6-Month Replacement Mortality % < 60 Days	% Mortes da Recria até 60 dias Últ. 6 Meses
6-Month Replacement Mortality % >180 Days	% Mortes da Recria > 180 dias Últ. 6 Meses
6-Month Replacement Mortality % 61-180 Days	% Mortes da Recria 61-180 dias Últ. 6 Meses
6-Month Services per Conception Cows	Serviços por Concepção Vacas Últ. 6 Meses
6-Month Survival % 365 Days	Sobrevivência aos 365 Dias Últ. 6 Meses
6-Month Survival % 90 Days	Sobrevivência aos 90 Dias Últ. 6 Meses
Average 305ME Milk	Média de Produção 305EM
Average 305ME Milk LCTGRP 1	Média de Produção 305EM LACT 1
Average 305ME Milk LCTGRP 2	Média de Produção 305EM LACT 2
Average 305ME Milk LCTGRP 3	Média de Produção 305EM LACT 3+
Average Birth Weight	Média de Peso ao Nascimento
Average Calving Interval	Média de Intervalo entre Partos
Average Calving Interval LCTGRP 2	Média de Intervalo entre Partos LACT 2
dry	Seca
Heat	Cio

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Average Calving Interval LCTGRP 3	Média de Intervalo entre Partos LACT 3+
Average Colostrum Volume	Média de Volume de Colostro
Average Daily Milk Weight	Média Diária de Produção
Average Daily Milk Weight LCTGRP 1	Média Diária de Produção LACT 1
Average Daily Milk Weight LCTGRP 2	Média Diária de Produção LACT 2
Average Daily Milk Weight LCTGRP 3	Média Diária de Produção LACT 3+
Average Days in Close Up	Média de Dias no Pré-Parto
Average Days in Close Up LCTGRP 0	Média de Dias no Pré-Parto LACT 0
Average Days in Close Up LCTGRP 1	Média de Dias no Pré-Parto LACT 1
Average Days in Close Up LCTGRP 2	Média de Dias no Pré-Parto LACT 2
Average Days in Close Up LCTGRP 3	Média de Dias no Pré-Parto LACT 3+
Average DIM	DEL Médio no Controle
Average DIM LCTGRP 1	DEL Médio no Controle LACT 1
Average DIM LCTGRP 2	DEL Médio no Controle LACT 2
Average DIM LCTGRP 3	DEL Médio no Controle LACT 3+
Average Dry Period Length LCTGRP 1	Média de Período Seco LACT 1
Average Dry Period Length LCTGRP 2	Média de Período Seco LACT 2
Average Dry Period Length LCTGRP 3	Média de Período Seco LACT 3+
Average Energy Corrected Milk	Média de Produção Corrigida para Energia
Average Energy Corrected Milk LCTGRP 1	Média de Produção Corrigida para Energia LACT 1
Average Energy Corrected Milk LCTGRP 2	Média de Produção Corrigida para Energia LACT 2
Average Energy Corrected Milk LCTGRP 3	Média de Produção Corrigida para Energia LACT 3+
Average Fat	Média de Gordura
Average Fat Corrected Milk 3.5%	Média de Produção Corrigida para Gordura 3,5%
Average Fat Corrected Milk 3.5% LCTGRP 1	Média de Produção Corrigida para Gordura 3,5% LACT 1
Average Fat Corrected Milk 3.5% LCTGRP 2	Média de Produção Corrigida para Gordura 3,5% LACT 2
Average Fat Corrected Milk 3.5% LCTGRP 3	Média de Produção Corrigida para Gordura 3,5% LACT 3+
Average Fat Corrected Milk 4%	Média de Produção Corrigida para Gordura 4%
Average Fat Corrected Milk 4% LCTGRP 1	Média de Produção Corrigida para Gordura 4% LACT 1
Average Fat Corrected Milk 4% LCTGRP 2	Média de Produção Corrigida para Gordura 4% LACT 2
Average Fat Corrected Milk 4% LCTGRP 3	Média de Produção Corrigida para Gordura 4% LACT 3+
Average Fat LCTGRP 1	Média de Gordura LACT 1

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Average Fat LCTGRP 2	Média de Gordura LACT 2
Average Fat LCTGRP 3	Média de Gordura LACT 3+
Average First Breeding Age	Média de Idade ao 1º Serviço
Average First Breeding DIM	Média de DEL ao 1º Serviço
Average First Breeding DIM LCTGRP 1	Média de DEL ao 1º Serviço LACT 1
Average First Breeding DIM LCTGRP 2	Média de DEL ao 1º Serviço LACT 2
Average First Breeding DIM LCTGRP 3	Média de DEL ao 1º Serviço LACT 3+
Average Fresh Test DIM	Média de DEL no 1º Controle
Average Fresh Test DIM LCTGRP 1	Média de DEL no 1º Controle LACT 1
Average Fresh Test DIM LCTGRP 2	Média de DEL no 1º Controle LACT 2
Average Fresh Test DIM LCTGRP 3	Média de DEL no 1º Controle LACT 3+
Average Fresh Test Weight	Média de Produção no 1º Controle
Average Fresh Test Weight LCTGRP 1	Média de Produção no 1º Controle LACT 1
Average Fresh Test Weight LCTGRP 2	Média de Produção no 1º Controle LACT 2
Average Fresh Test Weight LCTGRP 3	Média de Produção no 1º Controle LACT 3+
Average Gestation Length	Período Médio de Gestação
Average Gestation Length LCTGRP 1	Período Médio de Gestação LACT 1
Average Gestation Length LCTGRP 2	Período Médio de Gestação LACT 2
Average Gestation Length LCTGRP 3	Período Médio de Gestação LACT 3+
Average Heat Interval	Intervalo Médio entre Serviços
Average Heat Interval LCTGRP 0	Intervalo Médio entre Serviços LACT 0
Average Heat Interval LCTGRP 1	Intervalo Médio entre Serviços LACT 1
Average Heat Interval LCTGRP 2	Intervalo Médio entre Serviços LACT 2
Average Heat Interval LCTGRP 3	Intervalo Médio entre Serviços LACT 3+
Average Lactose	Média de Lactose
Average Lactose LCTGRP 1	Média de Lactose LACT 1
Average Lactose LCTGRP 2	Média de Lactose LACT 2
Average Lactose LCTGRP 3	Média de Lactose LACT 3+
Average ME Fat	Média de Gordura EM
Average ME Fat LCTGRP 1	Média de Gordura EM LACT 1
Average ME Fat LCTGRP 2	Média de Gordura EM LACT 2
Average ME Fat LCTGRP 3	Média de Gordura EM LACT 3+

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Average ME Milk	Média de Produção 305EM
Average ME Milk LCTGRP 1	Média de Produção 305EM LACT 1
Average ME Milk LCTGRP 2	Média de Produção 305EM LACT 2
Average ME Milk LCTGRP 3	Média de Produção 305EM LACT 3+
Average ME Protein	Média de Proteína EM
Average ME Protein LCTGRP 1	Média de Proteína EM LACT 1
Average ME Protein LCTGRP 2	Média de Proteína EM LACT 2
Average ME Protein LCTGRP 3	Média de Proteína EM LACT 3+
Average ME Solids not Fat	Média de Extrato Seco Desengordurado EM
Average ME Solids not Fat LCTGRP 1	Média de Extrato Seco Desengordurado EM LACT 1
Average ME Solids not Fat LCTGRP 2	Média de Extrato Seco Desengordurado EM LACT 2
Average ME Solids not Fat LCTGRP 3	Média de Extrato Seco Desengordurado EM LACT 3+
Average Milk Urea Nitrogen	Média de Nitrogênio Ureico
Average Milk Urea Nitrogen LCTGRP 1	Média de Nitrogênio Ureico LACT 1
Average Milk Urea Nitrogen LCTGRP 2	Média de Nitrogênio Ureico LACT 2
Average Milk Urea Nitrogen LCTGRP 3	Média de Nitrogênio Ureico LACT 3+
Average Milk Weight	Média de Produção no Controle
Average Milk Weight LCTGRP 1	Média de Produção no Controle LACT 1
Average Milk Weight LCTGRP 2	Média de Produção no Controle LACT 2
Average Milk Weight LCTGRP 3	Média de Produção no Controle LACT 3+
Average Projected 305 Milk	Produção Corrigida 305 Dias
Average Projected 305 Milk LCTGRP 1	Produção Corrigida 305 Dias LACT 1
Average Projected 305 Milk LCTGRP 2	Produção Corrigida 305 Dias LACT 2
Average Projected 305 Milk LCTGRP 3	Produção Corrigida 305 Dias LACT 3+
Average Protein	Média de Proteína
Average Protein LCTGRP 1	Média de Proteína LACT 1
Average Protein LCTGRP 2	Média de Proteína LACT 2
Average Protein LCTGRP 3	Média de Proteína LACT 3+
Average Replacement CDG 60 Days	GMD Atual aos 60 Dias
Average Replacement Weight 30 Days	Peso Médio aos 30 Dias
Average Replacement Weight 60 Days	Peso Médio aos 60 Dias
Average Replacement Weight First Breeding	Peso Médio ao 1º Serviço

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Average Replacement Weight First Calving	Peso Médio ao 1º Parto
Average Replacement Weight Wean	Peso Médio à Desmama
Average SCC	Média de CCS
Average SCC LCTGRP 1	Média de CCS LACT 1
Average SCC LCTGRP 2	Média de CCS LACT 2
Average SCC LCTGRP 3	Média de CCS LACT 3+
Average Second Breeding DIM	Média de DEL ao 2º Serviço
Average Second Breeding DIM LCTGRP 1	Média de DEL ao 2º Serviço LACT 1
Average Second Breeding DIM LCTGRP 2	Média de DEL ao 2º Serviço LACT 2
Average Second Breeding DIM LCTGRP 3	Média de DEL ao 2º Serviço LACT 3+
Average Serum Protein	Média de Proteína/Brix Sérico
Average Solids not Fat	Média de Extrato Seco Desengordurado
Average Solids not Fat LCTGRP 1	Média de Extrato Seco Desengordurado LACT 1
Average Solids not Fat LCTGRP 2	Média de Extrato Seco Desengordurado LACT 2
Average Solids not Fat LCTGRP 3	Média de Extrato Seco Desengordurado LACT 3+
Average Third Breeding DIM	Média de DEL ao 3º Serviço
Average Third Breeding DIM LCTGRP 1	Média de DEL ao 3º Serviço LACT 1
Average Third Breeding DIM LCTGRP 2	Média de DEL ao 3º Serviço LACT 2
Average Third Breeding DIM LCTGRP 3	Média de DEL ao 3º Serviço LACT 3+
Average Week 4 Milk Weight	Média de Produção na 4ª Semana
Average Week 4 Milk Weight LCTGRP 1	Média de Produção na 4ª Semana LACT 1
Average Week 4 Milk Weight LCTGRP 2	Média de Produção na 4ª Semana LACT 2
Average Week 4 Milk Weight LCTGRP 3	Média de Produção na 4ª Semana LACT 3+
Average Weekly DIM	DEL Médio
Average Weekly DIM LCTGRP 1	DEL Médio LACT 1
Average Weekly DIM LCTGRP 2	DEL Médio LACT 2
Average Weekly DIM LCTGRP 3	DEL Médio LACT 3+
Colostrum Brix Average	Média de Brix do Colostro
Conception Risk at First Service Cows	Taxa de Concepção no 1º Serviço de Vacas
Conception Risk at First Service LCTGRP 0	Taxa de Concepção no 1º Serviço LACT 0
Conception Risk at First Service LCTGRP 1	Taxa de Concepção no 1º Serviço LACT 1
Conception Risk at First Service LCTGRP 2	Taxa de Concepção no 1º Serviço LACT 2

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Conception Risk at First Service LCTGRP 3	Taxa de Concepção no 1º Serviço LACT 3+
Conception Risk Cows	Taxa de Concepção de Vacas
Conception Risk LCTGRP 0	Taxa de Concepção LACT 0
Conception Risk LCTGRP 1	Taxa de Concepção LACT 1
Conception Risk LCTGRP 2	Taxa de Concepção LACT 2
Conception Risk LCTGRP 3	Taxa de Concepção LACT 3+
Diarreah % < 180 Days Old	% Diarreia < 180 Dias
Diarreah % < 35 Days Old	% Diarreia < 35 Dias
Diarreah % < 7 Days Old	% Diarreia < 7 Dias
Diarreah % < 90 Days Old	% Diarreia < 90 Dias
Females Born LCTGRP 0	Nº Fêmeas Nascidas LACT 0
Females Born LCTGRP 1	Nº Fêmeas Nascidas LACT 1
Females Born LCTGRP 2	Nº Fêmeas Nascidas LACT 2
Females Born LCTGRP 3	Nº Fêmeas Nascidas LACT 3+
Heifers with Days Open > 17 Months	Novilhas com Dias em Aberto > 17 Meses
Inventory % Milking Cows	% Vacas em Lactação
Inventory % Pregnant Cows	% Vacas Prenhas
Inventory Cows	Nº Vacas
Inventory Cows LCTGRP 1	Nº Vacas LACT 1
Inventory Cows LCTGRP 2	Nº Vacas LACT 2
Inventory Cows LCTGRP 3	Nº Vacas LACT 3+
Inventory Dry Cows	Nº Vacas Secas
Inventory Females	Nº Fêmeas
Inventory Heifers	Nº Novilhas
Inventory Heifers >12 Months	Nº Novilhas > 12 Meses
Inventory Heifers 0-3 Months	Nº Novilhas 0-3 Meses
Inventory Heifers 3-6 Months	Nº Novilhas 3-6 Meses
Inventory Heifers 6-9 Months	Nº Novilhas 6-9 Meses
Inventory Heifers 9-12 Months	Nº Novilhas 9-12 Meses
Inventory Males	Nº Machos
Inventory Milking Cows	Nº Vacas em Lactação
Inventory Pregnant Cows	Nº Vacas Prenhas

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IOFC Feed Cost AI Pen	Custo de Alimentação dos Lotes de IA (RMCA)
IOFC Feed Cost Bull Pen	Custo de Alimentação dos Lotes de Touro (RMCA)
IOFC Feed Cost Calf Pen	Custo de Alimentação dos Lotes de Bezerras (RMCA)
IOFC Feed Cost Dry Pen	Custo de Alimentação dos Lotes de Vacas Secas (RMCA)
IOFC Feed Cost Heifer Pen	Custo de Alimentação dos Lotes de Recria (RMCA)
IOFC Feed Cost Hospital Pen	Custo de Alimentação dos Lotes de Hospital (RMCA)
IOFC Feed Cost Milking Pen	Custo de Alimentação dos Lotes de Vacas em Lactação (RMCA)
IOFC Feed Cost Undefined Pen	Custo de Alimentação dos Lotes Indefinidos (RMCA)
IOFC Feed Cost User Pen	Custo de Alimentação dos Lotes do Usuário (RMCA)
IOFC Milk Price	Preço do Leite RMCA
IOFC Milk Weight Daily Milkings	Peso do Leite - Pesagem Diária (RMCA)
IOFC Milk Weight Daily Milkings AI Pen	Produção Diária dos Lotes de IA (RMCA)
IOFC Milk Weight Daily Milkings Bull Pen	Produção Diária dos Lotes de Touro (RMCA)
IOFC Milk Weight Daily Milkings Calf Pen	Produção Diária dos Lotes de Bezerras (RMCA)
IOFC Milk Weight Daily Milkings Dry Pen	Produção Diária dos Lotes de Vacas Secas (RMCA)
IOFC Milk Weight Daily Milkings Heifer Pen	Produção Diária dos Lotes de Recria (RMCA)
IOFC Milk Weight Daily Milkings Hospital Pen	Produção Diária dos Lotes de Hospital (RMCA)
IOFC Milk Weight Daily Milkings Milking Pen	Produção Diária dos Lotes de Vacas em Lactação (RMCA)
IOFC Milk Weight Daily Milkings Undefined Pen	Produção Diária dos Lotes Indefinidos (RMCA)
IOFC Milk Weight Daily Milkings User Pen	Produção Diária dos Lotes do Usuário (RMCA)
IOFC Milk Weight Manual Entry	Peso do Leite - Entrada Manual (RMCA)
IOFC Milk Weight Test Days	Peso do Leite - Controle Mensal (RMCA)
IOFC Milk Weight Test Days AI Pen	Produção no Controle Leiteiro dos Lotes de IA (RMCA)
IOFC Milk Weight Test Days Bull Pen	Produção no Controle Leiteiro dos Lotes de Touro (RMCA)
IOFC Milk Weight Test Days Calf Pen	Produção no Controle Leiteiro dos Lotes de Bezerras (RMCA)
IOFC Milk Weight Test Days Dry Pen	Produção no Controle Leiteiro dos Lotes de Vacas Secas (RMCA)
IOFC Milk Weight Test Days Heifer Pen	Produção no Controle Leiteiro dos Lotes de Recria (RMCA)
IOFC Milk Weight Test Days Hospital Pen	Produção no Controle Leiteiro dos Lotes de Hospital (RMCA)
IOFC Milk Weight Test Days Milking Pen	Produção no Controle Leiteiro dos Lotes de Vacas em Lactação (RMCA)
IOFC Milk Weight Test Days Undefined Pen	Produção no Controle Leiteiro dos Lotes Indefinidos (RMCA)
IOFC Milk Weight Test Days User Pen	Produção no Controle Leiteiro dos Lotes do Usuário (RMCA)

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IOFC Value Daily Milkings	RMCA - Pesagem Diária
IOFC Value Daily Milkings AI Pen	Valor de RMCA pela Produção Diária dos Lotes de IA
IOFC Value Daily Milkings Bull Pen	Valor de RMCA pela Produção Diária dos Lotes de Touro
IOFC Value Daily Milkings Calf Pen	Valor de RMCA pela Produção Diária dos Lotes de Bezerras
IOFC Value Daily Milkings Dry Pen	Valor de RMCA pela Produção Diária dos Lotes de Vacas Secas
Timed AI	IA em Tempo Fixo
IOFC Value Daily Milkings Heifer Pen	Valor de RMCA pela Produção Diária dos Lotes de Recria
IOFC Value Daily Milkings Hospital Pen	Valor de RMCA pela Produção Diária dos Lotes de Hospital
IOFC Value Daily Milkings Milking Pen	Valor de RMCA pela Produção Diária dos Lotes de Vacas em Lactação
IOFC Value Daily Milkings Undefined Pen	Valor de RMCA pela Produção Diária dos Lotes Indefinidos
IOFC Value Daily Milkings User Pen	Valor de RMCA pela Produção Diária dos Lotes do Usuário
IOFC Value Manual Entry	RMCA - Entrada Manual
IOFC Value Test Days	RMCA - Controle Mensal
IOFC Value Test Days AI Pen	Valor de RMCA pelo Controle Leiteiro dos Lotes de IA
IOFC Value Test Days Bull Pen	Valor de RMCA pelo Controle Leiteiro dos Lotes de Touro
IOFC Value Test Days Calf Pen	Valor de RMCA pelo Controle Leiteiro dos Lotes de Bezerras
IOFC Value Test Days Dry Pen	Valor de RMCA pelo Controle Leiteiro dos Lotes de Vacas Secas
IOFC Value Test Days Heifer Pen	Valor de RMCA pelo Controle Leiteiro dos Lotes de Recria
IOFC Value Test Days Hospital Pen	Valor de RMCA pelo Controle Leiteiro dos Lotes de Hospital
IOFC Value Test Days Milking Pen	Valor de RMCA pelo Controle Leiteiro dos Lotes de Vacas em Lactação
IOFC Value Test Days Undefined Pen	Valor de RMCA pelo Controle Leiteiro dos Lotes Indefinidos
IOFC Value Test Days User Pen	Valor de RMCA pelo Controle Leiteiro dos Lotes do Usuário
Projected Calving Interval	Intervalo entre Partos Projetado
Projected Calving Interval LCTGRP 1	Intervalo entre Partos Projetado LACT 1
Projected Calving Interval LCTGRP 2	Intervalo entre Partos Projetado LACT 2
Projected Calving Interval LCTGRP 3	Intervalo entre Partos Projetado LACT 3+
Replacement Mortality %	% Mortalidade da Recria
Replacement Mortality % < 60 Days	% Mortes da Recria até 60 dias
Replacement Mortality % > 180 Days	% Mortes da Recria > 180 dias
Replacement Mortality % 61-180 Days	% Mortes da Recria 61-180 dias
Services per Conception Cows	Serviços por Concepção Vacas

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Services per Conception LCTGRP 0	Serviços por Concepção Vacas LACT 0
Services per Conception LCTGRP 1	Serviços por Concepção Vacas LACT 1
Services per Conception LCTGRP 2	Serviços por Concepção Vacas LACT 2
Services per Conception LCTGRP 3	Serviços por Concepção Vacas LACT 3+
Total Births	Total de Nascimentos
Total Births LCTGRP 0	Total de Nascimentos LACT 0
Total Births LCTGRP 1	Total de Nascimentos LACT 1
Total Births LCTGRP 2	Total de Nascimentos LACT 2
Total Births LCTGRP 3	Total de Nascimentos LACT 3+
Total Females Born	Total de Fêmeas Nascidas
Total Males Born	Total de Machos Nascidos
Lactation	Lactação
Lactations	Lactações
DIM	DEL
PEN	CORR
Testdays	Controle leiteiro
Trim	Desbaste
Closeup	Pré-parto
Close up	Pré-parto
Herd	Rebanho
Daughters Needed to Freshen Annually	Nascimentos de fêmeas necessários por ano
Estimated Daughters To Freshen Annually	Nascimentos de fêmeas estimados por ano
Daughters Needed to Freshen Monthly	Nascimentos de fêmeas necessários por mês
Estimated Daughters To Freshen Monthly	Nascimentos de fêmeas estimados por mês
Daughters needed to freshen in the first year	Nascimentos de fêmeas necessários no primeiro ano
Total daughters needed to freshen	Total de nascimentos de fêmeas necessários
Apply	Aplicar
Projected 305 Production	Produção de leite projetada para 305 dias
Dam's Lactations	Lactação Materna
Pregnant	Prenha
Days Carried Calf	Dias com cria
DNB	Animais com código reprodutivo REJEITADO

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Do Not Breed	Animais com código reprodutivo REJEITADO
Animals with Reoccuring Lameness	Animais com claudicação recorrente
overdue cows that need to be evaluated	Animais cujo parto ainda não foi registrado e precisam ser avaliados
Overdue Animals	Animais sem parto registrado
Animals in Hospital Pen	Animais no curral hospitalar
Animals currently in the Hospital pen	Animais atualmente no curral hospitalar
Problem Breeders	Animais problemáticos
PINKEYE	Conjuntivite
reproductive	Reprodutivo
Cow Breeding Worksheet	Planilha de trabalho reprodutivo em vacas
Heifer Breeding Worksheet	Planilha de trabalho reprodutivo em novilhas
Reproduction Status by Fresh Date	Estado reprodutivo por data de parto
Current distribution of reproduction status by fresh date	Distribuição atual do estado reprodutivo por data de parto
Breeding age heifers and their current reproduction status	Novilhas em idade reprodutiva e seu estado reprodutivo atual
Cow Vet Marker List	Lista de vacas marcadas para exame veterinário
Heifer Vet Marker List	Lista de novilhas marcadas para exame veterinário
Find Cows to Dry Off	Lista de vacas para secagem
List of cows to dry off	Listagem de vacas que devem ser secas
PNEU	Pneumonia
Projected Calves to Be Born by Calf Gender & Quant	Projeção da quantidade de nascimentos por sexo
Summary of calves due to be born over the next (__) days by calf gender & quantity	Resumo da quantidade de bezerros que nascerão nos próximos (__) dias, dividido por sexo
Summary of current animal inventory distribution by reproduction status	Resumo da distribuição atual dos animais do rebanho por estado reprodutivo
Herd Inventory Summary	Resumo do inventário do rebanho
parentage	Genealogia
MyDC	MyDC
testday	Controle leiteiro
Dam	Materno
Sire	Touro
Maternal	Materno
Worklists	Listas de Trabalho

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Sold	Vendidas
Sexed Female	Fêmea sexada
Beef Sexed Female	Fêmea sexada para carne
Sum	Somar
TODO	Por Fazer
Vet	Veterinário
Enter	Inserir
On Farm	Na Fazenda
Confirmed Pregnancies	Prenhezes confirmadas
Recipient Sold or Died	Receptora Vendida/Morta
cowcard	Ficha do animal
Preg	Prenha
TD	Transferência direta
VIT	Vitrificado
owner	Proprietário
Import Animals in Batch	Importar animais em lote
Add Embryo	Adicionar embrião
Add event	Adicionar evento
Add	Adicionar
AF	AF
AF Cost/Ton	Custo AF/Ton
Calf	Bezerro(a)
HEIFER CALF	Bezerra
FeedWatch	FeedWatch
FeedComp	FeedComp
First Choice	Primeira opção
Third Choice	Terceira opção
Healthy	Saudável
Not Healthy	Não saudável
lb	lb
Location	Localização
Search by	Buscar por

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AVG	média
Animal ID	ID do Animal
Herd Code	Código do Rebanho
HerdCode	Código do Rebanho
Yes, Proceed	Sim, Continuar
Vet List	Lista de veterinários
VetList	Lista de veterinários
Vet Code	Código veterinário
VetCode	Código veterinário
ParlorBoss	ParlorBoss
NM$	NM$
lbs	lbs
DM	MS
BC	BC
BD	BD
BDAT	BDAT
SNF	SNF
LAC	LAC
AUS	AUS
BFDAT	BFDAT
PTAT	PTAT

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Milk Producer	Produtor de leite
Total Heifer	Total de novilha
Total Heifers	Total de novilhas
% Abortions	% Perda de Prenhez
% Abortions LCTGRP 0	% Perda de Prenhez LACT 0
% Abortions LCTGRP 1	% Perda de Prenhez LACT 1
% Abortions LCTGRP 2	% Perda de Prenhez LACT 2
% Abortions LCTGRP 3	% Perda de Prenhez LACT 3+
% Calves Sold	% Bezerras Vendidas
% Calves Sold LCTGRP 1	% Bezerras Vendidas LACT 1
% Calves Sold LCTGRP 2	% Bezerras Vendidas LACT 2
% Calves Sold LCTGRP 3	% Bezerras Vendidas LACT 3+
% Calving Ease Score > 1	% Partos com Escore > 1
% Calving Ease Score > 1 LCTGRP 1	% Partos com Escore > 1 LACT 1
% Calving Ease Score > 1 LCTGRP 2	% Partos com Escore > 1 LACT 2
% Calving Ease Score > 1 LCTGRP 3	% Partos com Escore > 1 LACT 3+
% Calving Ease Score > 2	% Partos com Escore > 2
% Calving Ease Score > 2 LCTGRP 1	% Partos com Escore > 2 LACT 1
% Calving Ease Score > 2 LCTGRP 2	% Partos com Escore > 2 LACT 2
% Calving Ease Score > 2 LCTGRP 3	% Partos com Escore > 2 LACT 3+
% Calving Ease Score > 3	% Partos com Escore > 3
% Calving Ease Score > 3 LCTGRP 1	% Partos com Escore > 3 LACT 1
% Calving Ease Score > 3 LCTGRP 2	% Partos com Escore > 3 LACT 2
% Calving Ease Score > 3 LCTGRP 3	% Partos com Escore > 3 LACT 3+
% Calving Mortality	% Natimortos
% Calving Mortality Female	% Natimortos em Fêmeas
% Calving Mortality Female LCTGRP 1	% Natimortos em Fêmeas LACT 1
% Calving Mortality Female LCTGRP 2	% Natimortos em Fêmeas LACT 2
% Calving Mortality Female LCTGRP 3	% Natimortos em Fêmeas LACT 3+
% Calving Mortality LCTGRP 1	% Natimortos LACT 1
% Calving Mortality LCTGRP 2	% Natimortos LACT 2
% Calving Mortality LCTGRP 3	% Natimortos LACT 3+

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% Calving Mortality Male	% Natimortos em Machos
% Calving Mortality Male LCTGRP 1	% Natimortos em Machos LACT 1
% Calving Mortality Male LCTGRP 2	% Natimortos em Machos LACT 2
% Calving Mortality Male LCTGRP 3	% Natimortos em Machos LACT 3+
% Chronic SCC	% Vacas Crônicas
Beef Producer	Produtor de carne
% Chronic SCC LCTGRP 1	% Vacas Crônicas LACT 1
% Chronic SCC LCTGRP 2	% Vacas Crônicas LACT 2
% Chronic SCC LCTGRP 3	% Vacas Crônicas LACT 3+
% Colostrum Brix <25	% Colostro Brix < 25
% Colostrum Brix >=28	% Colostro Brix >= 28
% Colostrum Brix 25-27	% Colostro Brix = 25-27
% Colostrum by Bottle	% Colostragens Fornecimento por Mamadeira
% Colostrum by Dam	% Colostragens Fornecimento na Mãe
% Colostrum by Tube	% Colostragens Fornecimento por Sonda
% Colostrum Fresh Enriched	% Colostro Fresco Enriquecido
% Colostrum Fresh Maternal	% Colostro Fresco Materno
% Colostrum Fresh Pooled	% Colostro Fresco Misturado
% Colostrum Fresh Unknown	% Colostro Fresco Origem Desconhecida
% Colostrum Frozen Enriched	% Colostro Descongelado Enriquecido
% Colostrum Frozen Maternal	% Colostro Descongelado Materno
% Colostrum Frozen Pooled	% Colostro Descongelado Misturado
% Colostrum Frozen Unknown	% Colostro Descongelado Origem Desconhecida
% Colostrum Method Unknown	% Colostragens Método Desconhecido
% Colostrum Pasteurized Enriched	% Colostro Pasteurizado Enriquecido
% Colostrum Pasteurized Maternal	% Colostro Pasteurizado Materno
% Colostrum Pasteurized Pooled	% Colostro Pasteurizado Misturado
% Colostrum Pasteurized Unknown	% Colostro Pasteurizado Origem Desconhecida
% Colostrum Replacer Enriched	% Colostro em Pó Enriquecido
% Colostrum Replacer Maternal	% Colostro em Pó Materno
% Colostrum Replacer Pooled	% Colostro em Pó Misturado
% Colostrum Replacer Unknown	% Colostro em Pó Origem Desconhecida

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% Colostrum UnKnown Enriched	% Colostro Desconhecido Enriquecido
% Colostrum UnKnown Maternal	% Colostro Desconhecido Materno
% Colostrum UnKnown Pooled	% Colostro Desconhecido Misturado
% Colostrum UnKnown Unknown	% Colostro Desconhecido Desconhecido
% Cows with Days Open > 100	% Vacas com Dias em Aberto > 100
% Cows with Days Open > 150	% Vacas com Dias em Aberto > 150
% Cows with Days Open > 200	% Vacas com Dias em Aberto > 200
% Cured Infection	% Vacas Curadas
% Cured Infection LCTGRP 1	% Vacas Curadas LACT 1
% Cured Infection LCTGRP 2	% Vacas Curadas LACT 2
% Cured Infection LCTGRP 3	% Vacas Curadas LACT 3+
% Cured over Dry Period	% Vacas Curadas no Período Seco
% Died Cows	% Mortalidade Vacas
% Died Cows LCTGRP 1	% Mortalidade Vacas LACT 1
% Died Cows LCTGRP 2	% Mortalidade Vacas LACT 2
% Died Cows LCTGRP 3	% Mortalidade Vacas LACT 3+
% Died Transition Cows	% Mortalidade no Pós-Parto
% Died Transition Cows LCTGRP 1	% Mortalidade no Pós-Parto LACT 1
% Died Transition Cows LCTGRP 2	% Mortalidade no Pós-Parto LACT 2
% Died Transition Cows LCTGRP 3	% Mortalidade no Pós-Parto LACT 3+
% Females Born	% Fêmeas Nascidas
% Females Born LCTGRP 0	% Fêmeas Nascidas LACT 0
% Females Born LCTGRP 1	% Fêmeas Nascidas LACT 1
% Females Born LCTGRP 2	% Fêmeas Nascidas LACT 2
% Females Born LCTGRP 3	% Fêmeas Nascidas LACT 3+
% Fresh Cow New Infection	% Vacas com Nova Infecção no Pós-Parto
% Healthy over Dry Period	% Vacas Saudáveis no Período Seco
% Heifers with Days Open > 17 Months	% Novilhas com Dias em Aberto > 17 Meses
% High SCC	% Vacas CCS Alta
% High SCC Fresh Test	% Vacas CCS Alta no Pós-Parto
% Lameness	% Lesão de Casco
% Lameness LCTGRP 1	% Lesão de Casco LACT 1

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% Lameness LCTGRP 2	% Lesão de Casco LACT 2
% Lameness LCTGRP 3	% Lesão de Casco LACT 3+
% Males Born	% Machos Nascidos
% Mastitis	% Mastite
% Mastitis LCTGRP 1	% Mastite LACT 1
% Mastitis LCTGRP 2	% Mastite LACT 2
% Mastitis LCTGRP 3	% Mastite LACT 3+
% New Infections	% Vacas com Nova Infecção
% New Infections LCTGRP 1	% Vacas com Nova Infecção LACT 1
% New Infections LCTGRP 2	% Vacas com Nova Infecção LACT 2
% New Infections LCTGRP 3	% Vacas com Nova Infecção LACT 3+
% Pneumonia	% Pneumonia
% Pneumonia < 180 Days Old	% Pneumonia < 180 Dias
% Pneumonia < 35 Days Old	% Pneumonia < 35 Dias
% Pneumonia < 7 Days Old	% Pneumonia < 7 Dias
% Pneumonia < 90 Days Old	% Pneumonia < 90 Dias
% Pneumonia LCTGRP 1	% Pneumonia LACT 1
% Pneumonia LCTGRP 2	% Pneumonia LACT 2
% Pneumonia LCTGRP 3	% Pneumonia LACT 3+
% Serum Protein < 8.9	% Brix Sérico < 8,9
% Serum Protein >= 9.4	% Brix Sérico >= 9,4
% Serum Protein 8.9-9.3	% Brix Sérico 8,9-9,3
% Sold and Died Cows	% Descarte + Morte Vacas
% Sold and Died Cows LCTGRP 1	% Descarte + Morte Vacas LACT 1
% Sold and Died Cows LCTGRP 2	% Descarte + Morte Vacas LACT 2
% Sold and Died Cows LCTGRP 3	% Descarte + Morte Vacas LACT 3+
% Sold and Died Transition Cows	% Descarte e Mortalidade no Pós-Parto
% Sold and Died Transition Cows LCTGRP 1	% Descarte e Mortalidade no Pós-Parto LACT 1
% Sold and Died Transition Cows LCTGRP 2	% Descarte e Mortalidade no Pós-Parto LACT 2
% Sold and Died Transition Cows LCTGRP 3	% Descarte e Mortalidade no Pós-Parto LACT 3+
% Sold Cows	% Descarte Vacas
% Sold Cows LCTGRP 1	% Descarte Vacas LACT 1

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% Sold Cows LCTGRP 2	% Descarte Vacas LACT 2
% Sold Cows LCTGRP 3	% Descarte Vacas LACT 3+
% Sold Transition Cows	% Descarte no Pós-Parto
% Sold Transition Cows LCTGRP 1	% Descarte no Pós-Parto LACT 1
% Sold Transition Cows LCTGRP 2	% Descarte no Pós-Parto LACT 2
% Sold Transition Cows LCTGRP 3	% Descarte no Pós-Parto LACT 3+
% Survival 365 Days	% Sobrevivência aos 365 Dias
% Survival 90 Days	% Sobrevivência aos 90 Dias
% Transition Displaced Abomasum	% Deslocamento de Abomaso
% Transition Displaced Abomasum LCTGRP 1	% Deslocamento de Abomaso LACT 1
% Transition Displaced Abomasum LCTGRP 2	% Deslocamento de Abomaso LACT 2
% Transition Displaced Abomasum LCTGRP 3	% Deslocamento de Abomaso LACT 3+
% Transition Ketosis	% Cetose
% Transition Ketosis LCTGRP 1	% Cetose LACT 1
% Transition Ketosis LCTGRP 2	% Cetose LACT 2
% Transition Ketosis LCTGRP 3	% Cetose LACT 3+
% Transition Mastitis	% Mastite no Pós-Parto
% Transition Mastitis LCTGRP 1	% Mastite no Pós-Parto LACT 1
% Transition Mastitis LCTGRP 2	% Mastite no Pós-Parto LACT 2
% Transition Mastitis LCTGRP 3	% Mastite no Pós-Parto LACT 3+
% Transition Metritis	% Metrite
% Transition Metritis LCTGRP 1	% Metrite LACT 1
% Transition Metritis LCTGRP 2	% Metrite LACT 2
% Transition Metritis LCTGRP 3	% Metrite LACT 3+
% Transition Milk Fever	% Hipocalcemia
% Transition Milk Fever LCTGRP 1	% Hipocalcemia LACT 1
% Transition Milk Fever LCTGRP 2	% Hipocalcemia LACT 2
% Transition Milk Fever LCTGRP 3	% Hipocalcemia LACT 3+
% Transition Retained Placenta	% Retenção de Placenta
% Transition Retained Placenta LCTGRP 1	% Retenção de Placenta LACT 1
% Transition Retained Placenta LCTGRP 2	% Retenção de Placenta LACT 2
% Transition Retained Placenta LCTGRP 3	% Retenção de Placenta LACT 3+

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% Twinning	% Partos Gemelares
% Twinning LCTGRP 1	% Partos Gemelares LACT 1
% Twinning LCTGRP 2	% Partos Gemelares LACT 2
% Twinning LCTGRP 3	% Partos Gemelares LACT 3+
12-Month % Calves Sold	% Bezerras Vendidas Últ. 12 Meses
12-Month % Calves Sold LCTGRP 1	% Bezerras Vendidas Últ. 12 Meses LACT 1
12-Month % Calves Sold LCTGRP 2	% Bezerras Vendidas Últ. 12 Meses LACT 2
12-Month % Calves Sold LCTGRP 3	% Bezerras Vendidas Últ. 12 Meses LACT 3+
12-Month % Calving Ease Score > 1	% Partos com Escore > 1 Últ. 12 Meses
12-Month % Calving Ease Score > 1 LCTGRP 1	% Partos com Escore > 1 Últ. 12 Meses LACT 1
12-Month % Calving Ease Score > 1 LCTGRP 2	% Partos com Escore > 1 Últ. 12 Meses LACT 2
12-Month % Calving Ease Score > 1 LCTGRP 3	% Partos com Escore > 1 Últ. 12 Meses LACT 3+
12-Month % Calving Ease Score > 2	% Partos com Escore > 2 Últ. 12 Meses
12-Month % Calving Ease Score > 2 LCTGRP 1	% Partos com Escore > 2 Últ. 12 Meses LACT 1
12-Month % Calving Ease Score > 2 LCTGRP 2	% Partos com Escore > 2 Últ. 12 Meses LACT 2
12-Month % Calving Ease Score > 2 LCTGRP 3	% Partos com Escore > 2 Últ. 12 Meses LACT 3+
12-Month % Calving Ease Score > 3	% Partos com Escore > 3 Últ. 12 Meses
12-Month % Calving Ease Score > 3 LCTGRP 1	% Partos com Escore > 3 Últ. 12 Meses LACT 1
12-Month % Calving Ease Score > 3 LCTGRP 2	% Partos com Escore > 3 Últ. 12 Meses LACT 2
12-Month % Calving Ease Score > 3 LCTGRP 3	% Partos com Escore > 3 Últ. 12 Meses LACT 3+
12-Month % Calving Mortality Female	% Natimortos em Fêmeas Últ. 12 Meses
12-Month % Calving Mortality Female LCTGRP 1	% Natimortos em Fêmeas Últ. 12 Meses LACT 1
12-Month % Calving Mortality Female LCTGRP 2	% Natimortos em Fêmeas Últ. 12 Meses LACT 2
12-Month % Calving Mortality Female LCTGRP 3	% Natimortos em Fêmeas Últ. 12 Meses LACT 3+
12-Month % Calving Mortality LCTGRP 1	% Natimortos Últ. 12 Meses LACT 1
12-Month % Calving Mortality LCTGRP 2	% Natimortos Últ. 12 Meses LACT 2
12-Month % Calving Mortality LCTGRP 3	% Natimortos Últ. 12 Meses LACT 3+
12-Month % Calving Mortality Male	% Natimortos em Machos Últ. 12 Meses
12-Month % Calving Mortality Male LCTGRP 1	% Natimortos em Machos Últ. 12 Meses LACT 1
12-Month % Calving Mortality Male LCTGRP 2	% Natimortos em Machos Últ. 12 Meses LACT 2
12-Month % Calving Mortality Male LCTGRP 3	% Natimortos em Machos Últ. 12 Meses LACT 3+
12-Month % Diarreah < 180 Days Old	% Diarreia < 180 Dias Últ. 12 Meses

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12-Month % Diarreah < 35 Days Old	% Diarreia < 35 Dias Últ. 12 Meses
12-Month % Diarreah < 7 Days Old	% Diarreia < 7 Dias Últ. 12 Meses
12-Month % Diarreah < 90 Days Old	% Diarreia < 90 Dias Últ. 12 Meses
12-Month % Females Born	% Fêmeas Nascidas Últ. 12 Meses
12-Month % Females Born LCTGRP 0	% Fêmeas Nascidas Últ. 12 Meses LACT 0
12-Month % Females Born LCTGRP 1	% Fêmeas Nascidas Últ. 12 Meses LACT 1
Average Dry Period Length	Média de Período Seco
12-Month % Females Born LCTGRP 2	% Fêmeas Nascidas Últ. 12 Meses LACT 2
12-Month % Females Born LCTGRP 3	% Fêmeas Nascidas Últ. 12 Meses LACT 3+
12-Month % Males Born	% Machos Nascidos Últ. 12 Meses
12-Month % Pneumonia < 180 Days Old	% Pneumonia < 180 Dias Últ. 12 Meses
12-Month % Pneumonia < 35 Days Old	% Pneumonia < 35 Dias Últ. 12 Meses
12-Month % Pneumonia < 7 Days Old	% Pneumonia < 7 Dias Últ. 12 Meses
12-Month % Pneumonia < 90 Days Old	% Pneumonia < 90 Dias Últ. 12 Meses
12-Month % Twinning	% Partos Gemelares Últ. 12 Meses
12-Month % Twinning LCTGRP 1	% Partos Gemelares Últ. 12 Meses LACT 1
12-Month % Twinning LCTGRP 2	% Partos Gemelares Últ. 12 Meses LACT 2
12-Month % Twinning LCTGRP 3	% Partos Gemelares Últ. 12 Meses LACT 3+
12-Month Actual VWP Cows	PEV Real Últ. 12 Meses
12-Month Average DIM	DEL Médio no Controle Últ. 12 Meses
12-Month Average DIM LCTGRP 1	DEL Médio no Controle LACT 1 Últ. 12 Meses
12-Month Average DIM LCTGRP 2	DEL Médio no Controle LACT 2 Últ. 12 Meses
12-Month Average DIM LCTGRP 3	DEL Médio no Controle LACT 3+ Últ. 12 Meses
12-Month Average Peak DIM	Média de DEL ao Pico Últ. 12 Meses
12-Month Average Peak DIM LCT = 1	Média de DEL ao Pico LACT 1 Últ. 12 Meses
12-Month Average Peak DIM LCT > 1	Média de DEL ao Pico LACT 2+ Últ. 12 Meses
12-Month Average Peak Milk Weight	Média de Pico de Produção Últ. 12 Meses
12-Month Average Peak Milk Weight LCT = 1	Média de Pico de Produção LACT 1 Últ. 12 Meses
12-Month Average Peak Milk Weight LCT > 1	Média de Pico de Produção LACT 2+ Últ. 12 Meses
12-Month Average Pregnancy Risk Cows	Taxa de Prenhez Últ. 12 Meses
12-Month Average Pregnancy Risk LCTGRP 0	Taxa de Prenhez LACT 0 Últ. 12 Meses
12-Month Average Pregnancy Risk LCTGRP 1	Taxa de Prenhez LACT 1 Últ. 12 Meses

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12-Month Average Pregnancy Risk LCTGRP 2	Taxa de Prenhez LACT 2 Últ. 12 Meses
12-Month Average Pregnancy Risk LCTGRP 3	Taxa de Prenhez LACT 3+ Últ. 12 Meses
12-Month Average Replacement Age at Conception	Média de Idade na Concepção das Novilhas Últ. 12 Meses
12-Month Conception Risk at First Service Cows	Taxa de Concepção no 1º Serviço de Vacas Últ. 12 Meses
12-Month Conception Risk Cows	Taxa de Concepção de Vacas Últ. 12 Meses
12-Month Insemination Risk Cows	Taxa de Serviço Últ. 12 Meses
12-Month Insemination Risk LCTGRP 0	Taxa de Serviço LACT 0 Últ. 12 Meses
12-Month Insemination Risk LCTGRP 1	Taxa de Serviço LACT 1 Últ. 12 Meses
12-Month Insemination Risk LCTGRP 2	Taxa de Serviço LACT 2 Últ. 12 Meses
12-Month Insemination Risk LCTGRP 3	Taxa de Serviço LACT 3+ Últ. 12 Meses
12-Month Replacement Mortality %	% Mortalidade da Recria Últ. 12 Meses
12-Month Replacement Mortality % < 60 Days	% Mortes da Recria até 60 dias Últ. 12 Meses
12-Month Replacement Mortality % >180 Days	% Mortes da Recria > 180 dias Últ. 6 Meses
12-Month Replacement Mortality % 61-180 Days	% Mortes da Recria 61-180 dias Últ. 12 Meses
12-Month Services per Conception Cows	Serviços por Concepção Vacas Últ. 12 Meses
12-Month Survival % 365 Days	Sobrevivência aos 365 Dias Últ. 12 Meses
12-Month Survival % 90 Days	Sobrevivência aos 90 Dias Últ. 12 Meses
12-Month Total Females Born	Total de Fêmeas Nascidas Últ. 12 Meses
12-Month Total Females Born LCTGRP 0	Nº Fêmeas Nascidas Últ. 12 Meses LACT 0
12-Month Total Females Born LCTGRP 1	Nº Fêmeas Nascidas Últ. 12 Meses LACT 1
12-Month Total Females Born LCTGRP 2	Nº Fêmeas Nascidas Últ. 12 Meses LACT 2
12-Month Total Females Born LCTGRP 3	Nº Fêmeas Nascidas Últ. 12 Meses LACT 3+
12-Month Total Males Born	Nº Machos Nascidos Últ. 12 Meses
1-Month Actual VWP Cows	PEV Real Vacas
1-Month Actual VWP LCTGRP 0	PEV Real LACT 0
1-Month Actual VWP LCTGRP 1	PEV Real LACT 1
1-Month Actual VWP LCTGRP 2	PEV Real LACT 2
1-Month Actual VWP LCTGRP 3	PEV Real LACT 3+
1-Month Average Replacement Age at Conception	Média de Idade na Concepção das Novilhas
3-Month Actual VWP Cows	PEV Real Últ. 3 Meses
3-Month Average Pregnancy Risk Cows	Taxa de Prenhez Últ. 3 Meses
3-Month Average Replacement Age at Conception	Média de Idade na Concepção das Novilhas Últ. 3 Meses

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3-Month Conception Risk at First Service Cows	Taxa de Concepção no 1º Serviço de Vacas Últ. 3 Meses
3-Month Conception Risk Cows	Taxa de Concepção de Vacas Últ. 3 Meses
3-Month Insemination Risk Cows	Taxa de Serviço Últ. 3 Meses
3-Month Replacement Mortality %	% Mortalidade da Recria Últ. 3 Meses
3-Month Replacement Mortality % < 60 Days	% Mortes da Recria até 60 dias Últ. 3 Meses
3-Month Replacement Mortality % >180 Days	% Mortes da Recria > 180 dias Últ. 3 Meses
3-Month Replacement Mortality % 61-180 Days	% Mortes da Recria 61-180 dias Últ. 3 Meses
3-Month Services per Conception Cows	Serviços por Concepção Vacas Últ. 3 Meses
3-Month Survival % 365 Days	Sobrevivência aos 365 Dias Últ. 3 Meses
3-Month Survival % 90 Days	Sobrevivência aos 90 Dias Últ. 3 Meses
6-Month Actual VWP Cows	PEV Real Últ. 6 Meses
6-Month Average Pregnancy Risk Cows	Taxa de Prenhez Últ. 6 Meses
6-Month Average Replacement Age at Conception	Média de Idade na Concepção das Novilhas Últ. 6 Meses
6-Month Conception Risk at First Service Cows	Taxa de Concepção no 1º Serviço de Vacas Últ. 6 Meses
6-Month Conception Risk Cows	Taxa de Concepção de Vacas Últ. 6 Meses
6-Month Insemination Risk Cows	Taxa de Serviço Últ. 6 Meses
6-Month Replacement Mortality %	% Mortalidade da Recria Últ. 6 Meses
6-Month Replacement Mortality % < 60 Days	% Mortes da Recria até 60 dias Últ. 6 Meses
6-Month Replacement Mortality % >180 Days	% Mortes da Recria > 180 dias Últ. 6 Meses
6-Month Replacement Mortality % 61-180 Days	% Mortes da Recria 61-180 dias Últ. 6 Meses
6-Month Services per Conception Cows	Serviços por Concepção Vacas Últ. 6 Meses
6-Month Survival % 365 Days	Sobrevivência aos 365 Dias Últ. 6 Meses
6-Month Survival % 90 Days	Sobrevivência aos 90 Dias Últ. 6 Meses
Average 305ME Milk	Média de Produção 305EM
Average 305ME Milk LCTGRP 1	Média de Produção 305EM LACT 1
Average 305ME Milk LCTGRP 2	Média de Produção 305EM LACT 2
Average 305ME Milk LCTGRP 3	Média de Produção 305EM LACT 3+
Average Birth Weight	Média de Peso ao Nascimento
Average Calving Interval	Média de Intervalo entre Partos
Average Calving Interval LCTGRP 2	Média de Intervalo entre Partos LACT 2
dry	Seca
Heat	Cio

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Average Calving Interval LCTGRP 3	Média de Intervalo entre Partos LACT 3+
Average Colostrum Volume	Média de Volume de Colostro
Average Daily Milk Weight	Média Diária de Produção
Average Daily Milk Weight LCTGRP 1	Média Diária de Produção LACT 1
Average Daily Milk Weight LCTGRP 2	Média Diária de Produção LACT 2
Average Daily Milk Weight LCTGRP 3	Média Diária de Produção LACT 3+
Average Days in Close Up	Média de Dias no Pré-Parto
Average Days in Close Up LCTGRP 0	Média de Dias no Pré-Parto LACT 0
Average Days in Close Up LCTGRP 1	Média de Dias no Pré-Parto LACT 1
Average Days in Close Up LCTGRP 2	Média de Dias no Pré-Parto LACT 2
Average Days in Close Up LCTGRP 3	Média de Dias no Pré-Parto LACT 3+
Average DIM	DEL Médio no Controle
Average DIM LCTGRP 1	DEL Médio no Controle LACT 1
Average DIM LCTGRP 2	DEL Médio no Controle LACT 2
Average DIM LCTGRP 3	DEL Médio no Controle LACT 3+
Average Dry Period Length LCTGRP 1	Média de Período Seco LACT 1
Average Dry Period Length LCTGRP 2	Média de Período Seco LACT 2
Average Dry Period Length LCTGRP 3	Média de Período Seco LACT 3+
Average Energy Corrected Milk	Média de Produção Corrigida para Energia
Average Energy Corrected Milk LCTGRP 1	Média de Produção Corrigida para Energia LACT 1
Average Energy Corrected Milk LCTGRP 2	Média de Produção Corrigida para Energia LACT 2
Average Energy Corrected Milk LCTGRP 3	Média de Produção Corrigida para Energia LACT 3+
Average Fat	Média de Gordura
Average Fat Corrected Milk 3.5%	Média de Produção Corrigida para Gordura 3,5%
Average Fat Corrected Milk 3.5% LCTGRP 1	Média de Produção Corrigida para Gordura 3,5% LACT 1
Average Fat Corrected Milk 3.5% LCTGRP 2	Média de Produção Corrigida para Gordura 3,5% LACT 2
Average Fat Corrected Milk 3.5% LCTGRP 3	Média de Produção Corrigida para Gordura 3,5% LACT 3+
Average Fat Corrected Milk 4%	Média de Produção Corrigida para Gordura 4%
Average Fat Corrected Milk 4% LCTGRP 1	Média de Produção Corrigida para Gordura 4% LACT 1
Average Fat Corrected Milk 4% LCTGRP 2	Média de Produção Corrigida para Gordura 4% LACT 2
Average Fat Corrected Milk 4% LCTGRP 3	Média de Produção Corrigida para Gordura 4% LACT 3+
Average Fat LCTGRP 1	Média de Gordura LACT 1

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Average Fat LCTGRP 2	Média de Gordura LACT 2
Average Fat LCTGRP 3	Média de Gordura LACT 3+
Average First Breeding Age	Média de Idade ao 1º Serviço
Average First Breeding DIM	Média de DEL ao 1º Serviço
Average First Breeding DIM LCTGRP 1	Média de DEL ao 1º Serviço LACT 1
Average First Breeding DIM LCTGRP 2	Média de DEL ao 1º Serviço LACT 2
Average First Breeding DIM LCTGRP 3	Média de DEL ao 1º Serviço LACT 3+
Average Fresh Test DIM	Média de DEL no 1º Controle
Average Fresh Test DIM LCTGRP 1	Média de DEL no 1º Controle LACT 1
Average Fresh Test DIM LCTGRP 2	Média de DEL no 1º Controle LACT 2
Average Fresh Test DIM LCTGRP 3	Média de DEL no 1º Controle LACT 3+
Average Fresh Test Weight	Média de Produção no 1º Controle
Average Fresh Test Weight LCTGRP 1	Média de Produção no 1º Controle LACT 1
Average Fresh Test Weight LCTGRP 2	Média de Produção no 1º Controle LACT 2
Average Fresh Test Weight LCTGRP 3	Média de Produção no 1º Controle LACT 3+
Average Gestation Length	Período Médio de Gestação
Average Gestation Length LCTGRP 1	Período Médio de Gestação LACT 1
Average Gestation Length LCTGRP 2	Período Médio de Gestação LACT 2
Average Gestation Length LCTGRP 3	Período Médio de Gestação LACT 3+
Average Heat Interval	Intervalo Médio entre Serviços
Average Heat Interval LCTGRP 0	Intervalo Médio entre Serviços LACT 0
Average Heat Interval LCTGRP 1	Intervalo Médio entre Serviços LACT 1
Average Heat Interval LCTGRP 2	Intervalo Médio entre Serviços LACT 2
Average Heat Interval LCTGRP 3	Intervalo Médio entre Serviços LACT 3+
Average Lactose	Média de Lactose
Average Lactose LCTGRP 1	Média de Lactose LACT 1
Average Lactose LCTGRP 2	Média de Lactose LACT 2
Average Lactose LCTGRP 3	Média de Lactose LACT 3+
Average ME Fat	Média de Gordura EM
Average ME Fat LCTGRP 1	Média de Gordura EM LACT 1
Average ME Fat LCTGRP 2	Média de Gordura EM LACT 2
Average ME Fat LCTGRP 3	Média de Gordura EM LACT 3+

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Average ME Milk	Média de Produção 305EM
Average ME Milk LCTGRP 1	Média de Produção 305EM LACT 1
Average ME Milk LCTGRP 2	Média de Produção 305EM LACT 2
Average ME Milk LCTGRP 3	Média de Produção 305EM LACT 3+
Average ME Protein	Média de Proteína EM
Average ME Protein LCTGRP 1	Média de Proteína EM LACT 1
Average ME Protein LCTGRP 2	Média de Proteína EM LACT 2
Average ME Protein LCTGRP 3	Média de Proteína EM LACT 3+
Average ME Solids not Fat	Média de Extrato Seco Desengordurado EM
Average ME Solids not Fat LCTGRP 1	Média de Extrato Seco Desengordurado EM LACT 1
Average ME Solids not Fat LCTGRP 2	Média de Extrato Seco Desengordurado EM LACT 2
Average ME Solids not Fat LCTGRP 3	Média de Extrato Seco Desengordurado EM LACT 3+
Average Milk Urea Nitrogen	Média de Nitrogênio Ureico
Average Milk Urea Nitrogen LCTGRP 1	Média de Nitrogênio Ureico LACT 1
Average Milk Urea Nitrogen LCTGRP 2	Média de Nitrogênio Ureico LACT 2
Average Milk Urea Nitrogen LCTGRP 3	Média de Nitrogênio Ureico LACT 3+
Average Milk Weight	Média de Produção no Controle
Average Milk Weight LCTGRP 1	Média de Produção no Controle LACT 1
Average Milk Weight LCTGRP 2	Média de Produção no Controle LACT 2
Average Milk Weight LCTGRP 3	Média de Produção no Controle LACT 3+
Average Projected 305 Milk	Produção Corrigida 305 Dias
Average Projected 305 Milk LCTGRP 1	Produção Corrigida 305 Dias LACT 1
Average Projected 305 Milk LCTGRP 2	Produção Corrigida 305 Dias LACT 2
Average Projected 305 Milk LCTGRP 3	Produção Corrigida 305 Dias LACT 3+
Average Protein	Média de Proteína
Average Protein LCTGRP 1	Média de Proteína LACT 1
Average Protein LCTGRP 2	Média de Proteína LACT 2
Average Protein LCTGRP 3	Média de Proteína LACT 3+
Average Replacement CDG 60 Days	GMD Atual aos 60 Dias
Average Replacement Weight 30 Days	Peso Médio aos 30 Dias
Average Replacement Weight 60 Days	Peso Médio aos 60 Dias
Average Replacement Weight First Breeding	Peso Médio ao 1º Serviço

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Average Replacement Weight First Calving	Peso Médio ao 1º Parto
Average Replacement Weight Wean	Peso Médio à Desmama
Average SCC	Média de CCS
Average SCC LCTGRP 1	Média de CCS LACT 1
Average SCC LCTGRP 2	Média de CCS LACT 2
Average SCC LCTGRP 3	Média de CCS LACT 3+
Average Second Breeding DIM	Média de DEL ao 2º Serviço
Average Second Breeding DIM LCTGRP 1	Média de DEL ao 2º Serviço LACT 1
Average Second Breeding DIM LCTGRP 2	Média de DEL ao 2º Serviço LACT 2
Average Second Breeding DIM LCTGRP 3	Média de DEL ao 2º Serviço LACT 3+
Average Serum Protein	Média de Proteína/Brix Sérico
Average Solids not Fat	Média de Extrato Seco Desengordurado
Average Solids not Fat LCTGRP 1	Média de Extrato Seco Desengordurado LACT 1
Average Solids not Fat LCTGRP 2	Média de Extrato Seco Desengordurado LACT 2
Average Solids not Fat LCTGRP 3	Média de Extrato Seco Desengordurado LACT 3+
Average Third Breeding DIM un FUCKING BELIVABLEEEEE	Média de DEL ao 3º Serviço
Average Third Breeding DIM **LCTGRP** 1	Média de DEL ao 3º Serviço LACT 1
Average Third Breeding DIM LCTGRP 2	Média de DEL ao 3º Serviço LACT 2
Average Third Breeding DIM LCTGRP 3	Média de DEL ao 3º Serviço LACT 3+
Average Week 4 Milk Weight	Média de Produção na 4ª Semana
Average Week 4 Milk Weight LCTGRP 1	Média de Produção na 4ª Semana LACT 1
Average Week 4 Milk Weight LCTGRP 2	Média de Produção na 4ª Semana LACT 2
Average Week 4 Milk Weight LCTGRP 3	Média de Produção na 4ª Semana LACT 3+
Average Weekly DIM	DEL Médio
Average Weekly DIM LCTGRP 1	DEL Médio LACT 1
Average Weekly DIM LCTGRP 2	DEL Médio LACT 2
Average Weekly DIM LCTGRP 3	DEL Médio LACT 3+
Colostrum Brix Average	Média de Brix do Colostro
Conception Risk at First Service Cows	Taxa de Concepção no 1º Serviço de Vacas
Conception Risk at First Service LCTGRP 0	Taxa de Concepção no 1º Serviço LACT 0
Conception Risk at First Service LCTGRP 1	Taxa de Concepção no 1º Serviço LACT 1
Conception Risk at First Service LCTGRP 2	Taxa de Concepção no 1º Serviço LACT 2

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Conception Risk at First Service LCTGRP 3	Taxa de Concepção no 1º Serviço LACT 3+
Conception Risk Cows	Taxa de Concepção de Vacas
Conception Risk LCTGRP 0	Taxa de Concepção LACT 0
Conception Risk LCTGRP 1	Taxa de Concepção LACT 1
Conception Risk LCTGRP 2	Taxa de Concepção LACT 2
Conception Risk LCTGRP 3	Taxa de Concepção LACT 3+
Diarreah % < 180 Days Old	% Diarreia < 180 Dias
Diarreah % < 35 Days Old	% Diarreia < 35 Dias
Diarreah % < 7 Days Old	% Diarreia < 7 Dias
Diarreah % < 90 Days Old	% Diarreia < 90 Dias
Females Born LCTGRP 0	Nº Fêmeas Nascidas LACT 0
Females Born LCTGRP 1	Nº Fêmeas Nascidas LACT 1
Females Born LCTGRP 2	Nº Fêmeas Nascidas LACT 2
Females Born LCTGRP 3	Nº Fêmeas Nascidas LACT 3+
Heifers with Days Open > 17 Months	Novilhas com Dias em Aberto > 17 Meses
Inventory % Milking Cows	% Vacas em Lactação
Inventory % Pregnant Cows	% Vacas Prenhas
Inventory Cows	Nº Vacas
Inventory Cows LCTGRP 1	Nº Vacas LACT 1
Inventory Cows LCTGRP 2	Nº Vacas LACT 2
Inventory Cows LCTGRP 3	Nº Vacas LACT 3+
Inventory Dry Cows	Nº Vacas Secas
Inventory Females	Nº Fêmeas
Inventory Heifers	Nº Novilhas
Inventory Heifers >12 Months	Nº Novilhas > 12 Meses
Inventory Heifers 0-3 Months	Nº Novilhas 0-3 Meses
Inventory Heifers 3-6 Months	Nº Novilhas 3-6 Meses
Inventory Heifers 6-9 Months	Nº Novilhas 6-9 Meses
Inventory Heifers 9-12 Months	Nº Novilhas 9-12 Meses
Inventory Males	Nº Machos
Inventory Milking Cows	Nº Vacas em Lactação
Inventory Pregnant Cows	Nº Vacas Prenhas

en	pt-BR
IOFC Feed Cost AI Pen	Custo de Alimentação dos Lotes de IA (RMCA)
IOFC Feed Cost Bull Pen	Custo de Alimentação dos Lotes de Touro (RMCA)
IOFC Feed Cost Calf Pen	Custo de Alimentação dos Lotes de Bezerras (RMCA)
IOFC Feed Cost Dry Pen	Custo de Alimentação dos Lotes de Vacas Secas (RMCA)
IOFC Feed Cost Heifer Pen	Custo de Alimentação dos Lotes de Recria (RMCA)
IOFC Feed Cost Hospital Pen	Custo de Alimentação dos Lotes de Hospital (RMCA)
IOFC Feed Cost Milking Pen	Custo de Alimentação dos Lotes de Vacas em Lactação (RMCA)
IOFC Feed Cost Undefined Pen	Custo de Alimentação dos Lotes Indefinidos (RMCA)
IOFC Feed Cost User Pen	Custo de Alimentação dos Lotes do Usuário (RMCA)
IOFC Milk Price	Preço do Leite RMCA
IOFC Milk Weight Daily Milkings	Peso do Leite - Pesagem Diária (RMCA)
IOFC Milk Weight Daily Milkings AI Pen	Produção Diária dos Lotes de IA (RMCA)
IOFC Milk Weight Daily Milkings Bull Pen	Produção Diária dos Lotes de Touro (RMCA)
IOFC Milk Weight Daily Milkings Calf Pen	Produção Diária dos Lotes de Bezerras (RMCA)
IOFC Milk Weight Daily Milkings Dry Pen	Produção Diária dos Lotes de Vacas Secas (RMCA)
IOFC Milk Weight Daily Milkings Heifer Pen	Produção Diária dos Lotes de Recria (RMCA)
IOFC Milk Weight Daily Milkings Hospital Pen	Produção Diária dos Lotes de Hospital (RMCA)
IOFC Milk Weight Daily Milkings Milking Pen	Produção Diária dos Lotes de Vacas em Lactação (RMCA)
IOFC Milk Weight Daily Milkings Undefined Pen	Produção Diária dos Lotes Indefinidos (RMCA)
IOFC Milk Weight Daily Milkings User Pen	Produção Diária dos Lotes do Usuário (RMCA)
IOFC Milk Weight Manual Entry	Peso do Leite - Entrada Manual (RMCA)
IOFC Milk Weight Test Days	Peso do Leite - Controle Mensal (RMCA)
IOFC Milk Weight Test Days AI Pen	Produção no Controle Leiteiro dos Lotes de IA (RMCA)
IOFC Milk Weight Test Days Bull Pen	Produção no Controle Leiteiro dos Lotes de Touro (RMCA)
IOFC Milk Weight Test Days Calf Pen	Produção no Controle Leiteiro dos Lotes de Bezerras (RMCA)
IOFC Milk Weight Test Days Dry Pen	Produção no Controle Leiteiro dos Lotes de Vacas Secas (RMCA)
IOFC Milk Weight Test Days Heifer Pen	Produção no Controle Leiteiro dos Lotes de Recria (RMCA)
IOFC Milk Weight Test Days Hospital Pen	Produção no Controle Leiteiro dos Lotes de Hospital (RMCA)
IOFC Milk Weight Test Days Milking Pen	Produção no Controle Leiteiro dos Lotes de Vacas em Lactação (RMCA)
IOFC Milk Weight Test Days Undefined Pen	Produção no Controle Leiteiro dos Lotes Indefinidos (RMCA)
IOFC Milk Weight Test Days User Pen	Produção no Controle Leiteiro dos Lotes do Usuário (RMCA)

en	pt-BR
IOFC Value Daily Milkings	RMCA - Pesagem Diária
IOFC Value Daily Milkings AI Pen	Valor de RMCA pela Produção Diária dos Lotes de IA
IOFC Value Daily Milkings Bull Pen	Valor de RMCA pela Produção Diária dos Lotes de Touro
IOFC Value Daily Milkings Calf Pen	Valor de RMCA pela Produção Diária dos Lotes de Bezerras
IOFC Value Daily Milkings Dry Pen	Valor de RMCA pela Produção Diária dos Lotes de Vacas Secas
Timed AI	IA em Tempo Fixo
IOFC Value Daily Milkings Heifer Pen	Valor de RMCA pela Produção Diária dos Lotes de Recria
IOFC Value Daily Milkings Hospital Pen	Valor de RMCA pela Produção Diária dos Lotes de Hospital
IOFC Value Daily Milkings Milking Pen	Valor de RMCA pela Produção Diária dos Lotes de Vacas em Lactação
IOFC Value Daily Milkings Undefined Pen	Valor de RMCA pela Produção Diária dos Lotes Indefinidos
IOFC Value Daily Milkings User Pen	Valor de RMCA pela Produção Diária dos Lotes do Usuário
IOFC Value Manual Entry	RMCA - Entrada Manual
IOFC Value Test Days	RMCA - Controle Mensal
IOFC Value Test Days AI Pen	Valor de RMCA pelo Controle Leiteiro dos Lotes de IA
IOFC Value Test Days Bull Pen	Valor de RMCA pelo Controle Leiteiro dos Lotes de Touro
IOFC Value Test Days Calf Pen	Valor de RMCA pelo Controle Leiteiro dos Lotes de Bezerras
IOFC Value Test Days Dry Pen	Valor de RMCA pelo Controle Leiteiro dos Lotes de Vacas Secas
IOFC Value Test Days Heifer Pen	Valor de RMCA pelo Controle Leiteiro dos Lotes de Recria
IOFC Value Test Days Hospital Pen	Valor de RMCA pelo Controle Leiteiro dos Lotes de Hospital
IOFC Value Test Days Milking Pen	Valor de RMCA pelo Controle Leiteiro dos Lotes de Vacas em Lactação
IOFC Value Test Days Undefined Pen	Valor de RMCA pelo Controle Leiteiro dos Lotes Indefinidos
IOFC Value Test Days User Pen	Valor de RMCA pelo Controle Leiteiro dos Lotes do Usuário
Projected Calving Interval	Intervalo entre Partos Projetado
Projected Calving Interval LCTGRP 1	Intervalo entre Partos Projetado LACT 1
Projected Calving Interval LCTGRP 2	Intervalo entre Partos Projetado LACT 2
Projected Calving Interval LCTGRP 3	Intervalo entre Partos Projetado LACT 3+
Replacement Mortality %	% Mortalidade da Recria
Replacement Mortality % < 60 Days	% Mortes da Recria até 60 dias
Replacement Mortality % > 180 Days	% Mortes da Recria > 180 dias
Replacement Mortality % 61-180 Days	% Mortes da Recria 61-180 dias
Services per Conception Cows	Serviços por Concepção Vacas

en	pt-BR
Services per Conception LCTGRP 0	Serviços por Concepção Vacas LACT 0
Services per Conception LCTGRP 1	Serviços por Concepção Vacas LACT 1
Services per Conception LCTGRP 2	Serviços por Concepção Vacas LACT 2
Services per Conception LCTGRP 3	Serviços por Concepção Vacas LACT 3+
Total Births	Total de Nascimentos
Total Births LCTGRP 0	Total de Nascimentos LACT 0
Total Births LCTGRP 1	Total de Nascimentos LACT 1
Total Births LCTGRP 2	Total de Nascimentos LACT 2
Total Births LCTGRP 3	Total de Nascimentos LACT 3+
Total Females Born	Total de Fêmeas Nascidas
Total Males Born	Total de Machos Nascidos
Lactation	Lactação
Lactations	Lactações
DIM	DEL
PEN	CORR
Testdays	Controle leiteiro
Trim	Desbaste
Closeup	Pré-parto
Close up	Pré-parto
Herd	Rebanho
Daughters Needed to Freshen Annually	Nascimentos de fêmeas necessários por ano
Estimated Daughters To Freshen Annually	Nascimentos de fêmeas estimados por ano
Daughters Needed to Freshen Monthly	Nascimentos de fêmeas necessários por mês
Estimated Daughters To Freshen Monthly	Nascimentos de fêmeas estimados por mês
Daughters needed to freshen in the first year	Nascimentos de fêmeas necessários no primeiro ano
Total daughters needed to freshen	Total de nascimentos de fêmeas necessários
Apply	Aplicar
Projected 305 Production	Produção de leite projetada para 305 dias
Dam's Lactations	Lactação Materna
Pregnant	Prenha
Days Carried Calf	Dias com cria
DNB	Animais com código reprodutivo REJEITADO

en	pt-BR
Do Not Breed	Animais com código reprodutivo REJEITADO
Animals with Reoccuring Lameness	Animais com claudicação recorrente
overdue cows that need to be evaluated	Animais cujo parto ainda não foi registrado e precisam ser avaliados
Overdue Animals	Animais sem parto registrado
Animals in Hospital Pen	Animais no curral hospitalar
Animals currently in the Hospital pen	Animais atualmente no curral hospitalar
Problem Breeders	Animais problemáticos
PINKEYE	Conjuntivite
reproductive	Reprodutivo
Cow Breeding Worksheet	Planilha de trabalho reprodutivo em vacas
Heifer Breeding Worksheet	Planilha de trabalho reprodutivo em novilhas
Reproduction Status by Fresh Date	Estado reprodutivo por data de parto
Current distribution of reproduction status by fresh date	Distribuição atual do estado reprodutivo por data de parto
Breeding age heifers and their current reproduction status	Novilhas em idade reprodutiva e seu estado reprodutivo atual
Cow Vet Marker List	Lista de vacas marcadas para exame veterinário
Heifer Vet Marker List	Lista de novilhas marcadas para exame veterinário
Find Cows to Dry Off	Lista de vacas para secagem
List of cows to dry off	Listagem de vacas que devem ser secas
PNEU	Pneumonia
Projected Calves to Be Born by Calf Gender & Quant	Projeção da quantidade de nascimentos por sexo
Summary of calves due to be born over the next (__) days by calf gender & quantity	Resumo da quantidade de bezerros que nascerão nos próximos (__) dias, dividido por sexo
Summary of current animal inventory distribution by reproduction status	Resumo da distribuição atual dos animais do rebanho por estado reprodutivo
Herd Inventory Summary	Resumo do inventário do rebanho
parentage	Genealogia
MyDC	MyDC
testday	Controle leiteiro
Dam	Materno
Sire	Touro
Maternal	Materno
Worklists	Listas de Trabalho

en	pt-BR
Sold	Vendidas
Sexed Female	Fêmea sexada
Beef Sexed Female	Fêmea sexada para carne
Sum	Somar
TODO	Por Fazer
Vet	Veterinário
Enter	Inserir
On Farm	Na Fazenda
Confirmed Pregnancies	Prenhezes confirmadas
Recipient Sold or Died	Receptora Vendida/Morta
cowcard	Ficha do animal
Preg	Prenha
TD	Transferência direta
VIT	Vitrificado
owner	Proprietário
Import Animals in Batch	Importar animais em lote
Add Embryo	Adicionar embrião
Add event	Adicionar evento
Add	Adicionar
AF	AF
AF Cost/Ton	Custo AF/Ton
Calf	Bezerro(a)
HEIFER CALF	Bezerra
FeedWatch	FeedWatch
FeedComp	FeedComp
First Choice	Primeira opção
Third Choice	Terceira opção
Healthy	Saudável
Not Healthy	Não saudável
lb	lb
Location	Localização
Search by	Buscar por

en	pt-BR
AVG	média
Animal ID	ID do Animal
Herd Code	Código do Rebanho
HerdCode	Código do Rebanho
Yes, Proceed	Sim, Continuar
Vet List	Lista de veterinários
VetList	Lista de veterinários
Vet Code	Código veterinário
VetCode	Código veterinário • bagi ce vrea pula ta • in acest tabel
ParlorBoss	ParlorBoss
NM$	NM$
lbs	lbs
DM 1. one 2. two 3. three 4. four	MS
BC	BC
BD	BD
BDAT	BDAT
SNF	SNF rupe baaaaaaa
LAC	LAC
AUS	AUS
BFDAT	BFDAT
PTAT	PTAT

35. Big Lorem Ipsum

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bines hales bules

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Why do we use it? ok ok, intelegem

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36. doc stricat

This document outlines the technical requirements of eManager in addition to installation and upgrade procedures.vvvvv

la luna la lunaaa

In the electronic version of this document, there are hyperlinks describing detailed installation instructions and basic information from the product vendors. These hyperlinks are listed explicitly in **Appendix A - Links**.

1

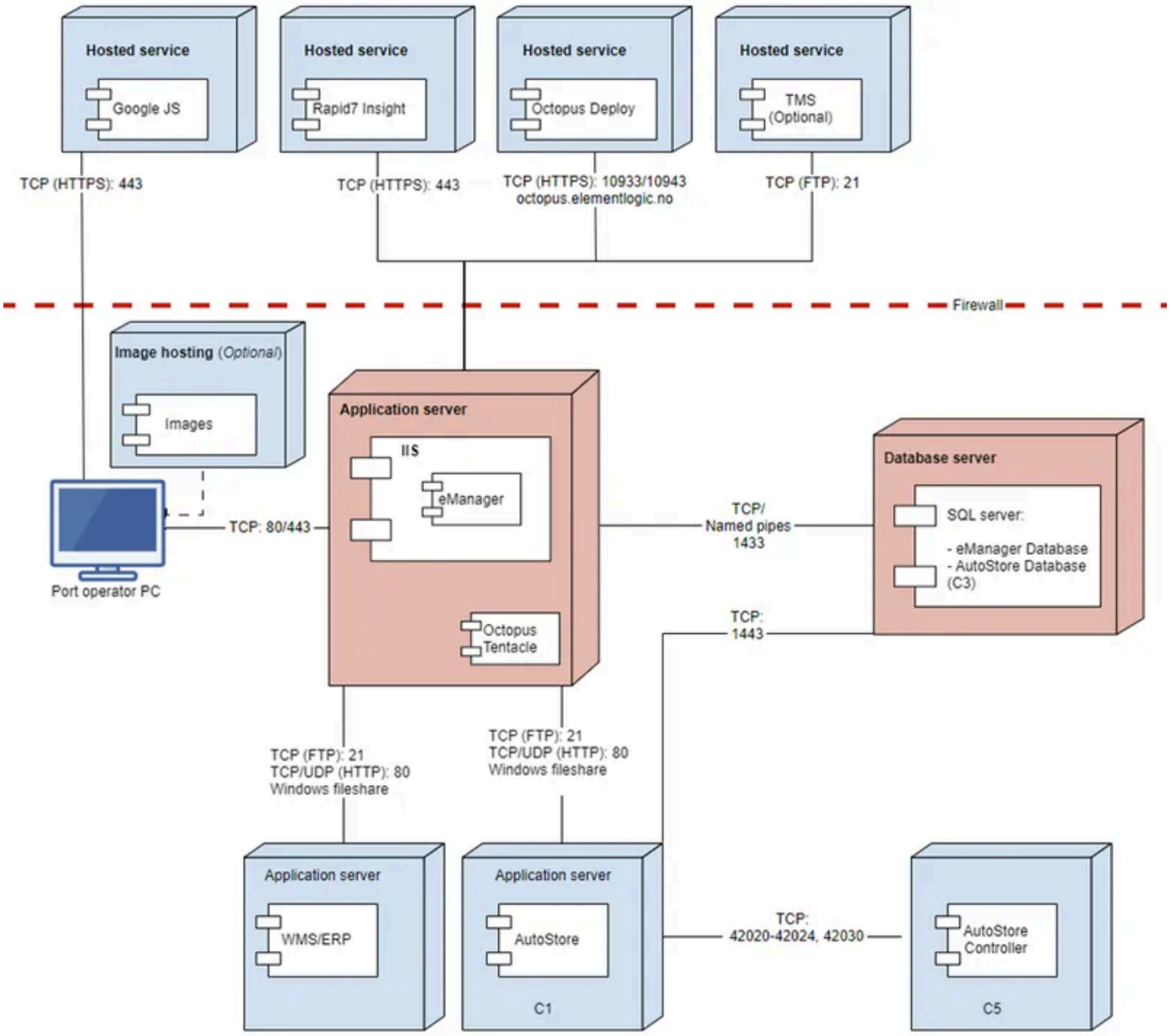
hello		

2 my boyyy

Technical requirements eManager

Overview

The eManager deployment typically consists of two servers: an application server to host the eManager website and a database server for the eManager database. eManager also requires a port operator PC for each port. eManager can be connected to other services.



Hardware requirements

The hardware requirements in this document are minimum requirements. The actual expected transaction level and the distribution of load during the workday must be considered.

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Large customers with loads that vary a lot, such as during large campaigns like Black Friday, need to consider whether to scale their system permanently for peak capacity or to scale up before periods with a high expected load.

Customers should always consult with their own IT operations team to choose the best type of hardware for their type of application and configuration. When extensions to the site are made, the hardware should be monitored and upgraded if necessary, to meet the increased load.

The application and the database must be installed on separate servers. aaaa

For any and all third-party programs, we refer to the requirements and recommendations for the individual products.

The servers must be reachable for eManager support. A VPN connection must be set up between Element Logic and the customer. Please see **Appendix C** for recommended VPN solutions.

Application server

This server will host the eManager web site and integration services.

Hardware (minimum)

Name	Requirement
Processor	2.4 GHz 64-bits with 4 cores
RAM	24 GB (ECC)
Disk space	200 GB
Network adapter	1 Gbit/s

Software

Name	Required version
Operating System	Minimum: Windows server 2016 R2 Recommended: Latest version of Windows Server with long-term support.
Operating System Language	English (US)
Internet Information Services (IIS)	10.0 or greater
.NET Framework*	4.8
.NET*	7.0
PowerShell	Minimum: 3.0 Recommended: 5.0
Octopus Tentacle*	2.6.5 or greater
Browser	Recent version of Google Chrome. Must connect to eManager server on ports 80 and 443, and reach Google JS servers.

* Will be installed during deployment if not pre-installed.

Network access

Application/Service	Settings
Rapid7 InsightOps (LogEntries)	**Details**
Octopus	**Details**

Database server

The database server will host the database for eManager.

It is recommended to split the SQL Server binaries, the data files, and the log files on separate drives for better performance and reliability.

Hardware (minimum)

Name	Requirement
Processor	2.4 GHz 64-bits with 4 cores
RAM	24 GB (ECC)
Disk space	500 GB

Software

Name	Requirement
Server OS	Windows server 2016 or higher
SQL Server	Microsoft SQL Server 2016 SP2 or higher, 2019 or 2022
SQL Server Management Studio	Same version as SQL Server or higher

Note: The same SQL Server version must be used for test and production.

Maintenance

The customer is responsible for maintaining the SQL Server and databases. This also includes maintenance of hardware and software on the server. To secure the efficiency of the database and reduce the risk of data loss, plans for maintenance of the database must be in place. The minimum required tasks to include in the maintenance plans are as follows:

1. Full database backup
2. Transaction log backup
3. Cleaning up old database backups
4. Index and statistics maintenance
5. Database integrity check

All maintenance plans must be configured with a notify task to a system administrator in case any of the tasks should fail to execute.

Element Logic can provide documentation describing maintenance recommendations, but implementation is the customer's responsibility.

Port operator PC

This is the eManager client PC that is located by each AutoStore port.

Hardware

Name	Requirement
Processor	Intel i3 or equivalent
RAM	4 GB
Disk space	128 GB
Graphics card	Intel HD/UHD or equivalent supporting DirectX 9 or higher
Monitor	Resolution: 1920×1080/Full HD or higher Size: Minimum 21'' is recommended.
Keyboard	Type: Touch Touch Pad is recommended. Must support the regional characters. Desktop/full-size with alphabetic characters and numerals.

Software

Name	Requirement
Operating System	Windows 10 or later
Browser	Recent version of Google Chrome. Must connect to eManager server on ports 80 and 443, and reach Google JS servers.

Software requirements

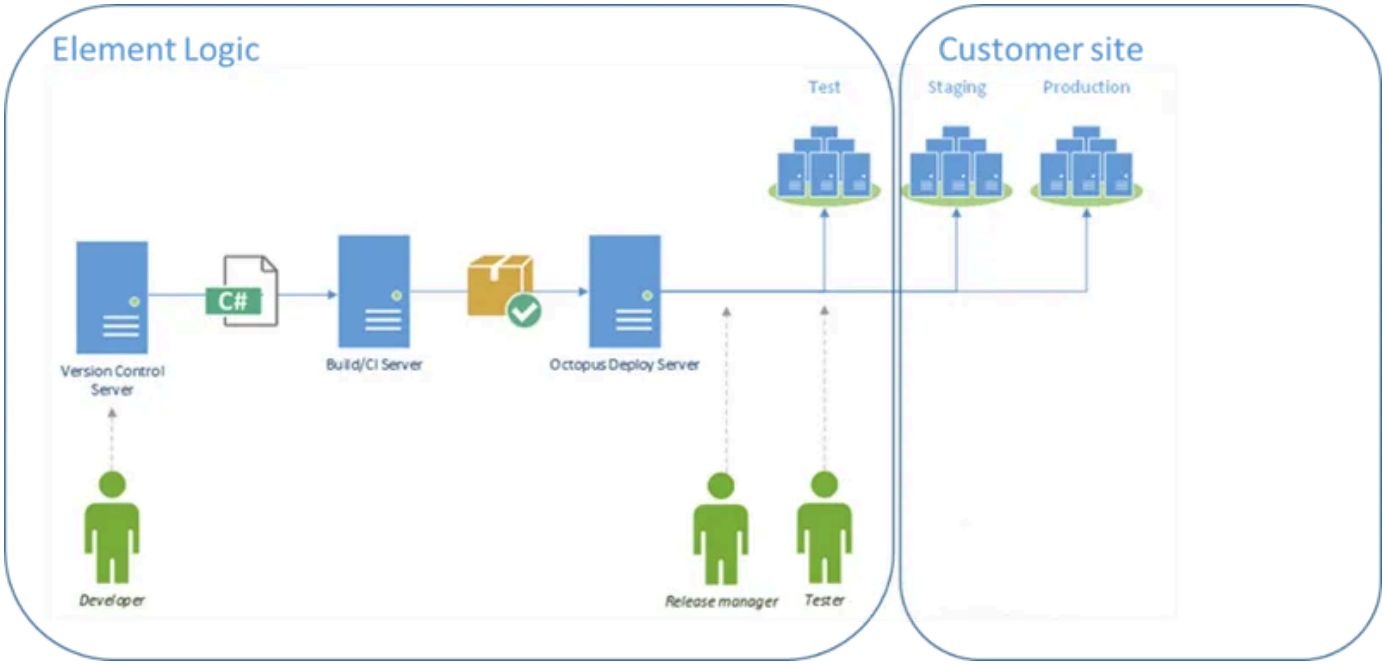
Internet Information Services (IIS)

When eManager is configured to use a network share or local disk for import/export, the user account for the eManager application pool in IIS must have access to this file share/folder.

See link in **Appendix A** for how to install IIS on Windows Server.

Octopus

Octopus Deploy is used by Element Logic to push deployments from the Element Logic deployment servers to the customer's environment.



The tentacle is a service running on the customer's test and production application server and makes it possible for Octopus Deploy to automate installation steps locally on that server.

There are two options: Octopus Tentacle (polling) and Listening Tentacle. We recommend Octopus Tentacle (polling).

Octopus Tentacle (polling) initiates communication with the Octopus Deploy Server, reducing the need for inbound firewall rules. It is suitable for environments with strict security policies or limited network access.

Listening Tentacle offers a more efficient deployment process by establishing a direct communication channel with the Octopus Deploy Server. This requires inbound firewall rules to allow communication from the Octopus Deploy Server to the Tentacle. It is suitable for environments with stable network connectivity.

Rapid7 InsightOps (LogEntries)

Rapid7 InsightOps is used to aggregate logs generated by the eManager application for troubleshooting and monitoring by Element Logic support and R&D.

InsightOps is an easy-to-use, self-hosted log management and analytics service. It does not require a local installation, but it need some ports and IP-address to be opened in the firewall to be able to send log data to the InsightOps cloud service.

eManager uses SSL when communicating with InsightOps, so customers must open for TCP traffic on port 443 for host eu.data.logs.insight.rapid7.com. For more information see this link **Tokn TCP**.

Google Charts

eManager uses the Google Charts JavaScript library to create the charts on the activity progress dashboard. This library requires access to internet to function correctly.

Web browser

eManager is developed to support Google Chrome web browser. Chrome must be installed on all terminals that will be used with eManager, both for servers and port terminals.

Test environment

Test environment requirements

A test environment is required. Hardware and software requirements for the test environment are the same as the minimum requirements described in this document.

The test environment must be properly isolated from the eManager production environment. This is important to avoid confusing the test and production databases and to ensure activity in the test environment does not affect the performance of the production server.

In a test environment, the eManager database and the eManager application can be installed on the same server.

Note: The same SQL Server version must be used for test and production.

Test environment availability

The test environment must be available for:

- Integration testing with WMS/ERP systems
- Re-creating issues from the production system
- Testing of configuration changes
- Testing of new eManager versions prior to upgrades

When not in use the test environment can be powered off or scaled down.

Appendix A - Links

Title	Link
Installing IIS 8 on Windows Server 2012	**https://docs.microsoft.com/en-us/iis/get-started/whats-new-in-iis-8/installing-iis-8-on-windows-server-2012**
Installing and configuring listening Octopus Tentacle	**https://octopus.com/docs/infrastructure/windows-targets/listening-tentacles**
Installing and configuring polling Octopus Tentacle	**https://octopus.com/docs/infrastructure/windows-targets/polling-tentacles**

Appendix B – Firewall configuration

Source IP/Hostname/IP Range	Destination IP/ Hostname/IP/URL	Port number	TCP/ UDP	Description
eManager App Server	eu.data.logs.insight.rapid7.com	443	TCP, UDP	**Rapid7 Insight New Data Log Endpoint**
eManager App Server	eu.js.logs.insight.rapid7.com	443	TCP	**Rapid7 Insight JS Endpoint**
eManager App Server	api.logentries.com	443	TCP	Rapid7 Insight Old Data Log Endpoint
eManager App Server	**https://www.gstatic.com/charts/***	443		Google Charts API
eManager App Server	AutoStore Application Server	80	TCP	AutoStore HTTP Interface
eManager App Server	AutoStore Application Server	443	TCP	AutoStore HTTP Interface (HTTPS)
eManager App Server	SQL Server	1433	TCP	**Default instance running over TCP**
eManager Client	eManager App Server	80	TCP	eManager Client to Server HTTP communication
eManager Client	eManager App Server	443	TCP	eManager Client to Server HTTPS communication
octopus.elementlogic.no	eManager App Server	10933	TCP	**Octopus Listening Tentacle**
eManager App Server	octopus.elementlogic.no	10943	TCP	**Octopus Polling Tentacle**

Appendix C – Preferred VPN solutions

Solution	Pros	Cons
Site-to-site	· Reduced cost compared to other VPN solutions · Element Logic is only able to access the AutoStore and eManager servers, the network is securely isolated	
FortiClient	· Easy to set up and use · Strong encryption · Support for two factor authentication	No automatic update feature
Pulse Secure	· Easy to add additional connections· Can integrate with directory services like AD and LDAP · Support for two factor authentication, SAML 2.0, PKI, IAM and digital certificates	Pulse Connect Secure provides a faster connection
Citrix VPN	· Well known · Fast · Easy to keep an overview over the connections · Support for two factor authentication	Can require multiple launches

Change log

Version	Date	Author	Description
1.5.1	04.02.2021	Ole-Kristian Hagen	· Moved the Network access section from Database server- to the Application server section. · Updated the internal links in the Network Access table. · Renamed the “Internet access” to “Google Charts” and moved it under “Application server configuration”.
1.6.0	01.03.2021	Ole-Kristian Hagen	· Added a section for HW and SW requirements for the port operator PC.
1.6.1	01.03.2021	Ole-Kristian Hagen	· Updated error in port operator PC processor requirement
1.6.2	11.03.2021	Ole-Kristian Hagen	· Updated port operator PC – Monitor – resolution to 1920×1080/Full HD
1.6.3	18.03.2021	Ole-Kristian Hagen	· Changed link to Octopus tentacle communication modes
1.6.4	27.01.2022	Ole-Kristian Hagen	· Changed info about firewall settings for application logging to Rapid7 InsightOps.
1.6.5	30.06.2023	Stian Buch Larsen Line Brandt Wethal	· Updated company logo. · Corrected misspellings. · Changed chapter numbering. · Updated 2.2.1 Network port requirements diagram and moved the diagram to 2.1 Overview. · Added .NET 7 as software requirement for application server. · Removed OLE DB requirement. · Updated SQL server version. · Updated OS version for Port Operator PC. · Moved Google JS from application server to Port operator PC. · Changed information about Octopus Tentacle: changed recommendation from using Octopus Listening Tentacle to Octopus Tentacle (polling) and added information about the two options. · Removed information about Rabbit MQ (no longer a requirement). · Added chapter: Test environment. · Added appendix B: Firewall configuration.
1.6.6	26.10.2023	Line Brandt Wethal	· Changed recommendations for how to make servers reachable for Support, added Appendix C. · Added requirement for application and database to be installed on separate servers. · Added Chrome to the software requirements for the application server. · Specified that the SQL server must be Microsoft SQL.
1.6.7	12.12.2023	Line Brandt Wethal	· Added section 2.2.2.3 Maintenance. · Specified that MS SQL Server 2016 must be SP2 or higher.

Version	Date	Author	Description
1.6.8	04.12.2025	Jon Arlov	• Added required OS language for application server

PDF version

1.6.7 Appendix 02b eManager Technical ...

36.1. broken tables

aa

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Citrix VPN	· Well known · Fast · Easy to keep an overview over the connections · Support for two factor authentication • oooo • ookoko	Can require multiple launches

aa

37. broken big (cloned)

The supports querying using the SQL syntax that follows ANSI SQL standards.

Ocient SQL Syntax

This code block shows the general syntax to perform SQL querying in and the order in which commands should go. asta omfg this is fucking awesome

meaaam, fai nebun de ce te misti asa de greu???? te ... abia te misti merge...

For specific descriptions and syntax for the commands, see the respective SQL statement sections on this page. ??? te misti fai?? ??? ooommm nu imi vine sa cred sa-mi bag pulaaaaaaaaaa scriu si aici acum se misca mai greutz....

mi s-a parut mie ca e mai lent...

baaaa, sa-mi bag pulea n-auzi ma???

fii antena ce repeede poti sa scriiiioii ohohohohohooioijoijfrefef

Syntax

SQL

```
[ WITH ... ]
SELECT ...
    [ EXCEPT(...) ]
[ FROM ...
    [ JOIN ... ] ]
[ WHERE ... ]
[ GROUP BY ...
    [ HAVING ... ] ]
[ ORDER BY ... ]
[ LIMIT ... ]
[ OFFSET ... ]
[ INTERSECT ... ]
[ EXCEPT ... ]
[ UNION ... ] ]
[ USING ... ]
[ TRACE ... ]
[ TAG ... ]
```

Default Schema

Ocient identifies every table using a database and schema. For example, the fully qualified path to the `movies` table is `cinema.adventure.movies`, where `cinema` is the database and `adventure` is the schema.

When you do not fully qualify a table name, the Ocient System uses a default schema. When you first log into the system, the default schema is your fully qualified username. You can change the default schema using the **SET SCHEMA** command.

Querying SQL Statement Reference

Ocient supports the following SQL statements.

WITH

Assigns a name to a common table expression, allowing an auxiliary query to be used in the main query. This is helpful for breaking down complex queries into smaller parts.

Syntax

```SQL
WITH
    <cte_name> [ ( <cte_column> [ ,... ] ) ]
    AS ( <sub_query> )
<select_query>
```

Parameters

Parameter	Description
`<cte_name>`	A name for the common table expression populated with the result set from the `sub_query` statement.
`<cte_column>`	Optional. This is a list of column names for common table expressions populated with the `sub_query` result set. If no column names are provided, the column names are the same as the table referenced in the `sub_query` statement.
`<sub_query>`	An auxiliary query that collects data for a common table expression. `sub_query` can use regular query commands, including ORDER BY, LIMIT, OFFSET, UNION, INTERSECT, EXCEPT, WHERE, GROUP BY, and HAVING. See the respective SQL statement reference sections for usage rules.
`<select_query>`	The main SELECT query. Note that the `FROM` statement in the main `SELECT` query must also include the `cte_name` if the query uses its values.

Example

In this example, the subquery calculates the average budget for all rows in the `movies` table. The main query uses that average to find all movies that spent more.

SQL

```sql
WITH avg_budget_table (average_budget) AS (
    SELECT AVG(budget)
    FROM movies
)
SELECT title,
    budget,
    revenue
FROM movies,
    avg_budget_table
WHERE budget > avg_budget_table.average_budget;
```

Output

title	budget	revenue
CGI Why	237000000	2787965087
Titania	200000000	1845034188
Merchandise Vehicle 5	200000000	1066969703
The Tentpole	220000000	1519557910
Pirates of Palm Springs	140000000	655011224
Spyman 16	200000000	1108561013
Frigid	150000000	1274219009
Fury 7	190000000	1506249360
Superhero 23	250000000	1084939099
Triassic World	150000000	1513528810
Iron Chef 3	200000000	1215439994
The Last Airman	150000000	318502923

SELECT

Initiates a query statement or a subquery clause within other statements.

You can query the data of tables where you have the SELECT privilege.

For information on using SELECT as a subquery for filtering or ordering results, see the **WHERE** and **HAVING** sections.

For information on using SELECT as a subquery for a common table expression, see the **WITH** section.

Syntax

```sql
SELECT [ ALL | DISTINCT ]
    [ * [ EXCEPT ( column_name [ , ... ] ) ]
    | <select_list_entry> [ , ... ] ]
    [ <from_clause> ]
```

Parameters

Parameter	Description
`ALL`	`SELECT` and `SELECT ALL` are both the same. Returns all valid data rows from the database that meet the criteria of your query.
`DISTINCT`	`SELECT DISTINCT` returns only unique rows that do not match other rows based on the criteria of your query.
`*`	Returns all columns from the specified tables in the result set for the query.
`EXCEPT`	When used with `*`, `EXCEPT` allows specific columns to be excluded from the query results.
`column_name`	The name of one or more columns from the specified table that you want to exclude (using `EXCEPT`) from your query results.

<select_list_entry>

The `select_list_entry` defines a column or expression to include in your query result set.

Syntax

```sql
<select_list_entry> ::=
    column_name | expression [ AS new_name ]
```

Parameters

Parameter	Description
`column_name`	The name of one or more columns from the specified table that you want to include in your query results.
`expression`	One or more expressions that you want to include in your query results. Expressions can be any combination of literal values, column names, arithmetic expressions, parentheses, and function calls.
`new_name`	An alias, treated as an identifier, for an alternative name for the column or the results of the expression.

<from_clause>

For information on the `<from_clause>`, see the **FROM** documentation.

Examples

Using SELECT *

This example uses `SELECT *` to return all the columns in the `movies` table.

SQL

```
SELECT * FROM movies LIMIT 5;
```

Output

movie_id	title	budget	popularity	release_date	revenue	runtime	movie_status	vote_average	vote_count
211672	Minnows	74000000	875.581305	2015-06-17	1156730962	91	Released	6.40	4571
24	Billy the Killy	30000000	79.754966	2003-10-10	180949000	111	Released	7.70	4949
19995	CGI Why	237000000	150.437577	2009-12-10	2787965087	162	Released	7.20	11800
37724	Spyman 16	200000000	93.004993	2012-10-25	1108561013	143	Released	6.90	7604
24428	The Tentpole	220000000	144.448633	2012-04-25	1519557910	143	Released	7.40	11776

Using SELECT * EXCEPT

This example uses `SELECT * EXCEPT` to exclude certain columns from the result set.

SQL

```
SELECT *
EXCEPT (movie_id, runtime, vote_average, vote_count)
FROM movies
LIMIT 5;
```

Output

title	budget	release_date	revenue
Swords & Scabbards	94000000	2003-12-01	1118888979
Billy the Killy	30000000	2003-10-10	180949000
Merchandise Vehicle 5	200000000	2010-06-16	1066969703
CGI Why	237000000	2009-12-10	2787965087
Space Odyssey 6000	10500000	1968-04-10	68700000

Using Lateral Column Aliases

Ocient SQL queries support lateral column aliases, meaning you can immediately reuse aliases for calculations in the same query as new inputs. Hence, you can simplify queries that normally require subqueries and common table expressions.

These examples use the `products` table with these columns:

- `product_id` — Product identifier as an integer
- `product_name` — Product name as a string
- `price` — Price as a floating point number

Create this table using the `CREATE TABLE` SQL statement.

SQL

```sql
CREATE TABLE products (
    product_id INT,
    product_name VARCHAR(100),
    price DECIMAL(10, 2)
    );
```

Insert four records into the `products` table.

SQL

```sql
INSERT INTO products (product_id, product_name, price) VALUES
    (1, 'Laptop', 1000.00),
    (2, 'Tablet', 500.00),
    (3, 'Smartphone', 800.00),
    (4, 'Monitor', 300.00);
```

Create a query to determine prices after discounts and taxes by using a common table expression subquery `DiscountedPrices`. Use the `WITH` keyword to create the subquery.

SQL

```sql
WITH DiscountedPrices AS (
    SELECT
        product_id,
        product_name,
        price,
        price * 0.90 AS discounted_price,
        price * 0.90 * 1.05 AS total_price_after_tax
    FROM
        products
)
SELECT
    product_id,
    product_name,
    price,
    discounted_price,
    total_price_after_tax
FROM
    DiscountedPrices;
```

Lateral aliases allow the same calculations to be packaged in a single query.

This simpler query is essentially the same as the longer common table expression example, but the logic is condensed because you can reference the `discounted_price` alias immediately to calculate the `total_price_after_tax` value in the same query.

SQL

```sql
SELECT
    product_id,
    product_name,
    price,
    price * 0.90 AS discounted_price,
    discounted_price * 1.05 AS total_price_after_tax
FROM
    products;
```

FROM

Specifies the table or view to use in a `SELECT` statement.

Syntax

SQL

```sql
<select_clause> FROM
    { table_name | ( <sub_query> ) } [ ,... ]
    [ <join_clause> [ ,... ] ]
```

Parameters

Parameter	Description
`<select_clause>`	A query statement using the `SELECT` SQL statement. For details, see the **SELECT** section.
`table_name`	The names of one or more tables or views that you want to query. If you specify multiple tables in the `FROM` list, separated by commas, the effect is the same as if you explicitly perform a **CROSS JOIN** on all of those sources.
`<sub_query>`	One or more subqueries using the `SELECT` SQL statement. A subquery generates a table from which the `select_clause` query references data. Each subquery must be enclosed in parentheses with an optional correlation name. For details, see the **SELECT** section.
`<join_clause>`	A `JOIN` clause used to retrieve data from two or more tables for your query. For details, see the **JOIN** section.

JOIN

Combines rows from multiple tables so they can be accessed by a query.

Syntax

SQL

```
<select_query>
    FROM <table_reference1> <join_operation> <table_reference2>
        ON table1_column <boolean_operator> table2_column
```

Parameter

Parameter	Description
`<select_query>`	A valid `SELECT` query. For details, see **SELECT**.
`<table_reference1>`	Either a table name or a full `SELECT` in parentheses `table_reference1` takes precedence for returning rows for `LEFT OUTER JOIN`, `SEMI JOIN`, and `ANTI JOIN`. For specific rules, see **Types of Join Operations**.
`<table_reference2>`	Either a table name or a full `SELECT` in parentheses function. `table_reference2` takes precedence for returning rows for `RIGHT OUTER JOIN`. For specific rules, see **Types of Join Operations**.
`table1_column`	A column from either `table_reference` The `JOIN` operation uses this column to match rows with `table2_column` to combine data for the result set.
`<boolean_operator>`	Join conditions can use any Boolean expression, including `=`, `!=`, `<`, `>`, `=>`, and `<=`
`table2_column`	A column from the `table_reference` not used for `table1_column` The `JOIN` operation uses this column to match rows based on the `table1_column` to combine data for the result set.

Types of Join Operations (`<join_operation>`)

Ocient supports the following types of `JOIN` operations.

Syntax

SQL

```
<join_operation> ::=
    { INNER JOIN
    | LEFT [ OUTER ] JOIN
    | RIGHT [ OUTER ] JOIN
    | FULL [ OUTER ] JOIN
    | CROSS JOIN
    | SEMI JOIN
    | ANTI JOIN }
```

JOIN Type Descriptions

JOIN Type	Description
`INNER JOIN`	Returns all rows that exist in both tables. This join type is the default type of join.
`LEFT OUTER JOIN`	Returns all rows from the first table regardless of whether there are matching rows in the second table. `LEFT JOIN` performs the same operation as `LEFT OUTER JOIN`.
`RIGHT OUTER JOIN`	Returns all rows from the second table regardless of whether there are matching rows in the first table. `RIGHT JOIN` performs the same operation as `RIGHT OUTER JOIN`.
`FULL OUTER JOIN`	Returns all matched and unmatched rows. `FULL JOIN` performs the same operation as `FULL OUTER JOIN`.
`CROSS JOIN`	Returns the Cartesian product of the joined tables. Each row in the first table is joined with all rows in the second table. The result set contains the number of rows in the first table multiplied by the number of rows in the second table.
`SEMI JOIN`	Returns the rows from the first table that have at least one match in the second table. No columns from the second table are available in the query.
`ANTI JOIN`	Returns the rows from the first table that have no matches in the second table. No columns from the second table are available in the query.

By default, `JOIN` statements that involve subqueries can operate laterally if necessary. This behavior allows subqueries to reference joined columns from the preceding items included in the `FROM` clause.

For example, both parts of this join operation use subqueries that reference table `x`. The `LATERAL` keyword is optional; the join operation acts the same regardless of whether it is included.

```
SELECT * FROM
    (
    SELECT
        1 AS cx1,
        2 AS cx2) AS x
INNER JOIN LATERAL (
    SELECT
        x.cx1 AS cy1,
        x.cx2 AS cy2) AS y
ON
    x.cx1 = y.cy1;
```

Lateral joins are primarily useful when a cross-referenced column is necessary for computing the rows to join. A common application is providing an argument value for a set-returning function.

Examples

These examples join two tables:

- `games` — A table of video game titles and their genre_ids. Note that some games have a NULL value assigned to their genre_id.

game_name	genre_id
Star Battle 6000	9
Dwarf Simulator	NULL
2002 Futbol	11
Space Attack!	9
Fantasy Fool	8
Blasto the Squirrel	5
Trucker Quest	7
Block, Stack, and Cry!	6
Basketball Day	11
Pizza Mutant	1
Italian Plumber	5
Zombies!	1
Space Ninjas	12
Moon Mayor	10
Spreadsheet Hero	NULL
Zoom Tycoon	12
Porch Poacher	6

- `genre` — A table of video game genres, which are identified by IDs.

genre_name	id
Racing	7
Puzzle	6
Adventure	2
Simulation	10
Shooter	9
Misc	4
Action	1
Sports	11
Role-Playing	8
Platform	5
Strategy	12
Fighting	3

INNER JOIN

This example uses an `INNER JOIN` operation to capture only the rows that exist in both tables. Games with NULL values for their `genre_id` are eliminated from the result set.

SQL

```sql
SELECT game_name,
    genre_name
FROM video_games.game
    INNER JOIN video_games.genre ON game.genre_id = genre.id;
```

Output

game_name	genre_name
Fantasy Fool	Role-Playing
Blasto the Squirrel	Platform
Italian Plumber	Platform
Porch Poacher	Puzzle
Space Ninjas	Strategy
Basketball Day	Sports
2002 Futbol	Sports
Moon Mayor	Simulation
Block, Stack, and Cry!	Puzzle
Zombies!	Action
Pizza Mutant	Action
Space Attack!	Shooter
Trucker Quest	Racing
Zoom Tycoon	Strategy

LEFT OUTER JOIN

This example uses a `LEFT OUTER JOIN` operation to capture all rows from the left table (game), even if they have no matching row in the right table (genre).

SQL

```sql
SELECT game_name,
    genre_name
FROM video_games.game
    LEFT OUTER JOIN video_games.genre ON game.genre_id = genre.id;
```

Output

game_name	genre_name
Fantasy Fool	Role-Playing
Space Ninjas	Strategy
Zoom Tycoon	Strategy
Zombies!	Action
Pizza Mutant	Action
Trucker Quest	Racing
Blasto the Squirrel	Platform
2002 Futbol	Sports
Basketball Day	Sports
Italian Plumber	Platform
Block, Stack, and Cry!	Puzzle
Star Battle 6000	Shooter
Dwarf Simulator	NULL
Moon Mayor	Simulation
Porch Poacher	Puzzle
Spreadsheet Hero	NULL
Space Attack!	Shooter

RIGHT OUTER JOIN

This example uses a `RIGHT OUTER JOIN` operation to capture all rows from the right table (genre), even if they have no matching row in the left table (game).

SQL

```sql
SELECT game_name,
    genre_name
FROM video_games.game
    RIGHT OUTER JOIN video_games.genre ON game.genre_id = genre.id;
```

Output

game_name	genre_name
NULL	Adventure
Trucker Quest	Racing
Pizza Mutant	Action
Moon Mayor	Simulation
Fantasy Fool	Role-Playing
Space Attack!	Shooter
NULL	Misc
Star Battle 6000	Shooter
Space Ninjas	Strategy
Porch Poacher	Puzzle
Block, Stack, and Cry!	Puzzle
Blasto the Squirrel	Platform
Italian Plumber	Platform
Zoom Tycoon	Strategy
NULL	Fighting
Zombies!	Action
2002 Futbol	Sports
Basketball Day	Sports

FULL OUTER JOIN

This example uses a `FULL OUTER JOIN` operation to capture all rows from both tables, even if they do not match.

SQL

```sql
SELECT game_name,
    genre_name
FROM video_games.game
    FULL OUTER JOIN video_games.genre ON game.genre_id = genre.id;
```

Output

game_name	genre_name
Basketball Day	Sports
2002 Futbol	Sports
Zombies!	Action
Blasto the Squirrel	Platform
Moon Mayor	Simulation
Trucker Quest	Racing
NULL	Misc
Star Battle 6000	Shooter
Space Attack!	Shooter
Spreadsheet Hero	NULL
NULL	Adventure
NULL	Fighting
Italian Plumber	Platform
Pizza Mutant	Action
Dwarf Simulator	NULL
Fantasy Fool	Role-Playing
Block, Stack, and Cry!	Puzzle
Space Ninjas	Strategy
Zoom Tycoon	Strategy
Porch Poacher	Puzzle

CROSS JOIN

This example uses a `CROSS JOIN` operation to capture every possible combination of rows from both tables, regardless of whether they match. Note that unlike other `JOIN` operations, `CROSS JOIN` does not require an `ON` statement.

SQL

```sql
SELECT game_name,
    genre_name
FROM video_games.genre
    CROSS JOIN video_games.game;
```

Output

> As the result set for this CROSS JOIN example is more than 200 rows, the results are abbreviated.

genre_name	genre_id
Spreadsheet Hero	Role-Playing
Spreadsheet Hero	Misc
Spreadsheet Hero	Sports
Spreadsheet Hero	Platform
Spreadsheet Hero	Strategy
Spreadsheet Hero	Shooter
Spreadsheet Hero	Fighting
Spreadsheet Hero	Action
Spreadsheet Hero	Simulation
Spreadsheet Hero	Racing
Spreadsheet Hero	Puzzle
Spreadsheet Hero	Adventure
Space Attack!	Role-Playing
Space Attack!	Misc
Space Attack!	Sports
Space Attack!	Platform
Space Attack!	Strategy
Space Attack!	Shooter
Space Attack!	Fighting
Space Attack!	Action
Space Attack!	Simulation
Space Attack!	Racing
Space Attack!	Puzzle
Space Attack!	Adventure
...	...

SEMI JOIN

This example uses a `SEMI JOIN` operation to capture genre names that have at least one match in the games table. Rows are only included once, even if there are multiple matches.

SQL

```
SELECT genre_name,
    id
FROM video_games.genre
    SEMI JOIN video_games.game ON genre.id = game.genre_id;
```

Output

genre_name	genre_id
Simulation	10
Shooter	9
Racing	7
Strategy	12
Puzzle	6
Platform	5
Action	1
Sports	11
Role-Playing	8

ANTI JOIN

This example uses an `ANTI JOIN` operation to capture any rows in the game table that do not match any rows in the genre table.

SQL

```
SELECT game_name
FROM video_games.game
    ANTI JOIN video_games.genre ON game.genre_id = genre.id;
```

Output

game_name
Spreadsheet Hero
Dwarf Simulator

WHERE

Filters rows based on a specified condition.

Syntax

SQL

```
<select_query>
    WHERE { column_name <filter_condition> filter_value |
    [ NOT ] EXISTS ( <sub_query> ) }
```

Parameters

Parameter	Description
`<select_query>`	A valid `SELECT` query.
`column_name`	A column used for grouping that is evaluated by the `filter_condition`.
`filter_value`	A value used to evaluate the specified `column_name`. For details, see the **<filter_condition>** section.
`<sub_query>`	A subquery with a filter condition that follows the `EXISTS` clause. For details, see the **EXISTS** section.

<filter_condition>

A logical combination of predicates used to evaluate the referenced `column_name` based on the `filter_value`.

Syntax

SQL

```
<filter_condition> ::=
  { =
    | ==
    | <>
    | !=
    | [ NOT ] EQUALS
    | <
    | <=
    | >
    | >=
    | [ NOT ] IN
    | [ NOT ] LIKE
    | [ NOT ] SIMILAR TO
    | BETWEEN
    | FOR SOME
    | FOR ALL
    | IS [ NOT ] NULL
    | IS [ NOT ] DISTINCT FROM
  }
```

Definitions

Operator	Description	Example
`=`, `==`, `EQUALS`	Equal to.	`Author = 'Alcott'`
`<>`, `!=`	Not equal to	`Dept <> 'Sales'`
`>`	Greater than	`Hire_Date > '2012-01-31'`
`<`	Less than	`Bonus < 50000.00`
`>=`	Greater than or equal	`Dependents >= 2`
`<=`	Less than or equal	`Rate <= 0.05`
`[ NOT ] LIKE`	Begins with a character pattern to match. The pattern is enclosed in parentheses and can include the wildcard characters `%`, representing zero, one or multiple characters, and `_` representing a single character. To have a literal `%` or `_` that does not act as a wildcard on the right-hand side of a `LIKE` or `NOT LIKE` expression, put a backslash before the character.	`Full_Name LIKE 'Will%'`
`[ NOT ] SIMILAR TO`	For usage information, see the **SIMILAR TO Operator** section.	`'abc' SIMILAR TO 'abc'`
`BETWEEN value1 AND value2`	Requires two values. The filter evaluates to TRUE if the specified column is within the range between the two values. `BETWEEN` bounds are inclusive. Values can be times, numbers, or strings.	`Sales BETWEEN 1000 AND 5000`
`FOR_SOME()`	Evaluates an array to determine if at least one value meets the filter criteria. In the example, the `FOR_SOME()` operator would return all rows of the column `col_int_array` where at least one value is greater than 10. For details, see **Array Filters**.	`FOR_SOME(col_int_array) > 10` `FOR_SOME(col_int_array) > 10`

`FOR_ALL()`	Evaluates all values of an array to determine if all meet the filter criteria.
	In the example, the `FOR_ALL()` operator would return any rows of the column `col_int_array` where all values are greater than 10.
	For details, see **Array Filters**.
		`FOR_ALL(col_int_array) > 10`
		
		`FOR_ALL(col_int_array) = 1`

`[ NOT ] IN`	Equal to one of multiple possible values	`DeptCode IN (101, 103, 209)`
`IS [ NOT ] NULL`	Compare to `NULL` (missing data)	`Address IS NOT NULL`
`IS [ NOT ] DISTINCT FROM`	Compares the equality of two expressions for a Boolean result, including comparisons that involve `NULL` values. This operator ensures reliable comparisons in scenarios where `NULL` values need to be treated as significant data points. Normally, `NULL = NULL` evaluates to `false` because `NULL` represents an unknown value. However, the statement `a IS NOT DISTINCT FROM b` treats `NULL` as a comparable value	`Debt IS NOT DISTINCT FROM Receivables`

Operator	Description	Example
	and returns `true` when both values are `NULL` or when `a = b`. Inversely, `a IS DISTINCT FROM b` returns `true` if the values are different or if one value is `NULL` while the other is not `NULL`.	

EXISTS

An `EXISTS` clause used in a `WHERE` statement evaluates if a subquery returns any rows.

For each row that the database computes in the outer query, if the subquery returns at least one row, the `EXISTS` clause evaluates to `true`. In this outcome, the outer query returns its row.

If the subquery returns zero rows, the `EXISTS` clause evaluates to `false`, and the outer query excludes those rows.

The `NOT EXISTS` clause performs the opposite Boolean logic. In this case, the outer query returns rows only when the subquery has no matches.

Examples

These examples use two tables, one for company departments and the other for employees who are assigned to those departments.

Create the `departments` table for department data.

SQL

```sql
CREATE TABLE departments (
    id INT,
    name VARCHAR(50)
);
```

Create the `employees` table for employee data.

SQL

```sql
CREATE TABLE employees (
    id INT,
    name VARCHAR(50),
    department_id INT
);
```

Insert department data for three departments, `HR`, `IT`, and `Marketing`, into the `departments` table.

SQL

```sql
INSERT INTO departments (id, name) VALUES
    (1, 'HR'),
    (2, 'IT'),
    (3, 'Marketing');
```

Insert employee data for four employees, `Alice`, `Bob`, `Charlie`, and `David`, into the `employees` table.

SQL

```sql
INSERT INTO employees (id, name, department_id) VALUES
    (1, 'Alice', 1),
    (2, 'Bob', 2),
    (3, 'Charlie', 2),
    (4, 'David', 4);
```

Find Employees Belonging to an Existing Department

This example uses an `EXISTS` clause to find any names from the `employees` table who are assigned to a department listed in the `departments` table.

SQL

```sql
SELECT name
FROM employees AS e
WHERE EXISTS (
    SELECT *
    FROM departments AS d
    WHERE e.department_id = d.id
);
```

The query returns all employees except `David`, who is assigned to a department that does not exist in the `departments` table.

Output

Text

```
Bob
Charlie
Alice
```

Find Departments That Have Employees

This query returns departments that have at least one employee. The subquery uses `SELECT 1` to check whether any matching rows exist in the `employees` table. The output is the same if the query uses `SELECT *` instead.

SQL

```sql
SELECT name
FROM departments AS d
WHERE EXISTS (
    SELECT 1
    FROM employees AS e
    WHERE e.department_id = d.id
);
```

The query results exclude the `Marketing` department because no employees belong to it.

Output

Text

```
HR
IT
```

Filter Departments Based on an Uncorrelated Table

In this example, the outer query filters the `departments` table where `id != 3` (excluding the `Marketing` department). The subquery checks if there is at least one employee with a department identifier less than `4`.

The query is uncorrelated because the subquery does not reference the `departments` table.

SQL

```sql
SELECT *
FROM departments d
WHERE d.id != 3
AND EXISTS (
    SELECT *
    FROM employees e
    WHERE e.department_id < 4
);
```

Output

Text

```
HR
IT
```

Find Employees Without a Valid Department

This example uses a `NOT EXISTS` clause. The example returns only employees who are assigned to a department identifier `department_id` not listed in the `departments` table.

SQL

```sql
SELECT name
FROM employees AS e
WHERE NOT EXISTS (
    SELECT *
    FROM departments AS d
    WHERE e.department_id = d.id
);
```

Output: `David`

SIMILAR TO Operator

`SIMILAR TO` is a keyword that extends the `LIKE` operator, adding more features for match filtering including many metacharacters used in regular expressions.

`%` and `_` both act as wildcard operators, but other supported metacharacters match traditional regular expressions.

Syntax

```SQL
WHERE string1 SIMILAR TO string2
```

This table describes the metacharacters supported by the `SIMILAR TO` keyword.

Metacharacter	Description
`%`	Repeated wildcard, matches any characters zero or more times. Equivalent usage to `LIKE`.
`_`	Wildcard, matches exactly one character. Equivalent usage to `LIKE`.
`|`	Alteration, meaning either of two alternatives (`a|b` represents `a` or `b`).
`*`	Repetition of zero or more times.
`+`	Repetition of one or more times.
`?`	Repetition of zero or one times.
`{m}`	Repetition of exactly `m` times.
`{m,n}`	Repetition between `m` and `n` times (inclusive).
`{m,}`	Repetition of at least `m` times.
`()`	Logical grouping.
`[]`	A character class, equivalent to character classes in regular expressions. Example: `[a-z]` is any lowercase English letter.
`^`	Beginning of the line anchor and the negation in character classes.
`$`	End of the line anchor.

`SIMILAR TO` also supports escaping these metacharacters with `\` and certain escape sequences supported by C family languages.

Metacharacter	Description
`\a`	The alert/bell character.
`\b`	The backspace character.
`\B`	A single `\` character. Equivalent to `\\`.
`\cX`	The character with the same five lower order bits as `X` with all zeros as higher order bits.
`\e`	The character with the numeric value 27, Esc.
`\f`	Form feed.
`\n`	Newline.
`\r`	Carriage return.
`\t`	Horizontal tab.
`\uwxyz`	`wxyz` represents four hexadecimal digits, including two characters: one with numeric value `wx`, and one with numeric value `yz`.
`\Uabcdefgh`	`abcdefgh` represents eight hexadecimal digits, including four characters: numeric value `ab`, numeric value `cd`, numeric value `ef`, and numeric value `gh`.
`\v`	Vertical tab.
`\xd....`	`d` is any number of hexadecimal digits. If the number of digits is odd, a 0 is added to the left of the sequence. Numeric characters with values represented by every group of two symbols from `d`.
`\0`	NULL character 0.
`\xy`	`xy` are octal digits that represent the character with the numeric value `xy`.
`\xyz`	`xyz` are octal digits that represent the character with the numeric value `xyz`. If `x` is greater than or equal to `4`, the database returns two characters: the numeric value `1` and the numeric value of the lower 8 bits of `xyz`.
`\d`	Matches any digit.
`\s`	Matches any whitespace.
`\w`	Matches any alphanumeric character or `_`.
`\D`	Matches any non-digit.
`\S`	Matches any non-whitespace.
`\W`	Matches any non-alphanumeric that is also not `_`.
`\A`	The beginning of a line. Equivalent to `^`.
`\m`, `\M`, or `\y`	The boundary of a word. Equivalent to `\b` in normal regular expressions.
`\Y`	Any position that is not the boundary of a word.
`\Z`	The end of a line. Equivalent to `$` in normal regular expressions.

Metacharacter	Description
`\*`	The star character.
`\+`	The plus character.
`\?`	The question mark character.

- The database ignores any `\` metacharacter that does not precede a metacharacter (including `\`) or an escape sequence in the metacharacter table.
- Invalid expressions (unpreceded quantifiers, unclosed parentheses, etc.) result in query errors.
- The database does not recognize the `.` character as a metacharacter, unlike the behavior in traditional regular expressions.
- The database applies escape metacharacters that apply to string literals. To match a string containing a single `'\'`, you might need to use `'\\\\'`.

Examples

SQL

```
'abc' SIMILAR TO 'abc'          true
'abc' SIMILAR TO 'a'            false
'abc' SIMILAR TO '%(b|d)%'      true
'abc' SIMILAR TO '(b|c)%'       false
'-abc-' SIMILAR TO '%\mabc\M%'  true
'xabcy' SIMILAR TO '%\mabc\M%'  false
```

Array Filters

A filter expression can use the functions `FOR_SOME()` and `FOR_ALL()` to apply a predicate against all values of an input array.

Array filter functions have the following rules:

- They can only evaluate array types.
- They can go on either the left or right side of a boolean comparison expression, but not both sides at the same time.
- They must directly use a boolean comparison operator.
- They cannot use the `SOME` and `ALL` SQL keywords.

Filter Behavior with Empty Arrays

Array filter functions have unique behavior when evaluating empty arrays.

- `FOR_ALL()` evaluates an empty array as `TRUE`.
- `FOR_SOME()` evaluates an empty array as `FALSE`.

If empty arrays must be evaluated for a different result, you can use the `ARRAY_LENGTH` function to specify a minimum array length. For example, this statement would evaluate an array as `TRUE` only if it is not empty and all values matched `%ocient%`:

```sql
ARRAY_LENGTH(array_col) > 0 AND FOR_ALL(array_col) LIKE '%ocient%
```

For details about array functions, see the **Array Functions and Operators** page.

Filter Behavior with NULL rows

Filtering with array functions can have different outcomes depending on whether the array row is NULL or if the values contained in the array are NULL.

If `FOR_SOME()` or `FOR_ALL()` evaluate a NULL row (the row itself is NULL, not that the array contains NULL values), then the result is always `FALSE`.

To check an array for the presence of NULL values, you must use the `IS NULL` operator. For example:

```sql
FOR_SOME(array_col) IS NULL
```

Array comparison operators, such as `@>`, `<@`, and `&&` do not adhere to Boolean logic for NULL values. For details, see the **Array Functions and Operators** page.

GROUP BY

Groups rows with the same values into summary rows, based on a specified aggregate function.

Syntax

```sql
SELECT <select_list_clause> FROM table_name
    GROUP BY { column_name | expression | integer } [ , ... ]
    [ HAVING <filter_condition> ]
```

Parameters

Parameter	Description
`<select_list_clause>`	A list of one or more columns for the `SELECT` query. To use `GROUP BY` to summarize the query result set, at least one of the columns in `column_list` must include an aggregate function, such as `SUM()`, `COUNT()`, or `MAX()`. For a list of supported functions, see the **Aggregate Functions** page.
`table_name`	The table to use for the query.
`column_name`	The name of one or more columns to use to group the result set. If you specify multiple columns, the result set is grouped by each unique combination of values from the columns.
`expression`	Any combination of literal values, column names, arithmetic expressions, parentheses, and function calls.
`integer`	An integer representing the position of the columns referenced in the `column_list`. The first position starts at `1`.
`<filter_condition>`	A `HAVING` clause that filters the aggregated groups based on a specified condition. For details, see the **<filter_condition>** section.

Example

This example uses a movie database to calculate the total amount spent on movie production per year.

SQL

```sql
SELECT YEAR(release_date),
    SUM(budget)
FROM movies
GROUP BY 1
ORDER BY 1 ASC;
```

Output

year(release_date)	sum(budget)
1968	10500000
1979	31500000
1981	18000000
1982	28000000
1992	14000000
1997	200000000
2003	264000000
2009	237000000
2010	350000000
2012	670000000
2013	350000000
2015	414000000

HAVING

Filters aggregated rows based on a specified condition.

`HAVING` operates in a `GROUP BY` statement by setting a filter for the rows to be aggregated and grouped.

For information on using `GROUP BY` in a query statement, see **GROUP BY**.

Syntax

```SQL
GROUP BY column_name HAVING <filter_condition>
```

Parameters

Parameter	Description
`column_name`	A column used for grouping that is evaluated by the `filter_condition`.
`<filter_condition>`	A logical combination of boolean predicates. For information on supported logical predicates, see **<filter_condition>**.

Example

This example calculates the total amount spent on movie production per year. The `HAVING` clause filters out any rows that do not have a sum of at least $100 million.

```sql
SELECT YEAR(release_date),
    SUM(budget)
FROM movies
GROUP BY 1
HAVING SUM(budget) > 100000000
ORDER BY 1 ASC;
```

Output

year(release_date)	sum(budget)
1997	200000000
2003	264000000
2009	237000000
2010	350000000
2012	670000000
2013	350000000
2015	414000000

ORDER BY

Sorts the result set in ascending or descending order based on one or more specified columns.

If you specify multiple columns, they are sorted hierarchically from left to right.

Syntax

```sql
ORDER BY { column_position | column_name } [ ASC | DESC ]
    [ NULLS FIRST | NULLS LAST ] [ , ... ]
```

Parameters

Parameter	Data Type	Description
`column_position`	Integer	The position of a column to be used for the `ORDER BY` sorting. Column positions start at `1`.
`column_name`	String	The name of a column to be used for the `ORDER BY` sorting.
`ASC | DESC`	String	Optional. Specifies whether to sort the column in ascending (`ASC`) or descending (`DESC`) order. If unspecified, defaults to `ASC`.
`NULLS FIRST | NULLS LAST`	String	Optional. `NULLS FIRST` means null values go at the start of the result set. `NULLS LAST` means null values go at the end of the result set. If unspecified, defaults to `NULLS FIRST`.

Example

In this example, the `ORDER BY` statement orders the movies from newest to oldest.

SQL

```sql
SELECT release_date, title
FROM movies
ORDER BY release_date DESC;
```

Output

release_date	title
2015-06-17	Minnows
2015-06-09	Triassic World
2015-04-01	Fury 7
2013-11-27	Frigid
2013-04-18	Iron Chef 3
2012-10-25	Spyman 16
2012-07-16	Superhero 23
2012-04-25	The Tentpole
2010-06-30	The Last Airman
2010-06-16	Merchandise Vehicle 5
2009-12-10	CGI Why
2003-12-01	Swords & Scabbards
2003-10-10	Billy the Killy
2003-07-09	Pirates of Palm Springs
1997-11-18	Titania
1992-08-07	Bang Bang Western
1982-06-25	Blade Walker
1981-06-12	Raiders of the Jungle Temple
1979-08-15	Apocalypse None
1968-04-10	Space Odyssey 6000

LIMIT

Limits the number of returned rows from a query to a specified amount.

The returned rows are nondeterministic unless you use an **ORDER BY** clause.

Syntax

SQL

```
<select_query> LIMIT limit_number
```

Parameters

Parameter	Description
`<select_query>`	A valid `SELECT` query.
`limit_number`	The number of rows to return from the query, specified as a positive integer or any constant scalar expression that evaluates to a positive integer.

Examples

Limit Returned Rows Using a Number

This example uses `LIMIT` to restrict the number of returned movie titles to only three.

SQL

```
SELECT title FROM movies LIMIT 3;
```

Output

SQL

```
Minnows
CGI Why
Billy the Killy
```

Limit Returned Rows Using an Expression

The `LIMIT` SQL statement can also accept expressions. This query uses the `1+2` expression with the `sys.dummy` table to create a table of three incrementing integers. For details, see **Generate Tables Using sys.dummy**.

SQL

```
SELECT c1 FROM sys.dummy10 LIMIT 1+2;
```

Output

SQL

```
1
2
3
```

OFFSET

Skips a specified number of rows from the result set.

The returned rows are nondeterministic unless you use an **ORDER BY** clause.

Syntax

SQL

```
<select_query> OFFSET offset_number
```

Parameters

Parameter	Description
`<select_query>`	A valid SELECT query.
`offset_number`	The number of rows to skip when returning results from the query, specified as a positive integer or any constant scalar expression that evaluates to a positive integer.

Examples

Skip Rows From the Result Set Using a Number

In this example, the `ORDER BY` statement orders the results chronologically. As a result, the `OFFSET` clause removes the oldest six movies from the result set.

SQL

```
SELECT release_date,
    title
FROM movies
ORDER BY release_date OFFSET 6;
```

Output

release_date	title
2003-07-09	Pirates of Palm Springs
2003-10-10	Billy the Killy
2003-12-01	Swords & Scabbards
2009-12-10	CGI Why
2010-06-16	Merchandise Vehicle 5
2010-06-30	The Last Airman
2012-04-25	The Tentpole
2012-07-16	Superhero 23
2012-10-25	Spyman 16
2013-04-18	Iron Chef 3
2013-11-27	Frigid
2015-04-01	Fury 7
2015-06-09	Triassic World
2015-06-17	Minnows

Skip Rows From the Result Set Using an Expression

The `OFFSET` SQL statement can also accept expressions. This query uses the expression `3+4` with the `sys.dummy` table to create a column of incrementing integers by skipping the first seven out of 10 rows. For details, see **Generate Tables Using sys.dummy**.

SQL

```
SELECT c1 FROM sys.dummy10 OFFSET 3+4;
```

Output

SQL

```
8
9
10
```

INTERSECT

Returns any rows that match between two separate `SELECT` queries. To use `INTERSECT`, the two queries must be compatible, meaning they must return the same number of columns and have similar data types.

By default, the SQL statement eliminates duplicate rows unless the query includes the optional `ALL` keyword. Using the `DISTINCT` keyword is the same as this default behavior.

Syntax

SQL

```
<select_query1> INTERSECT [ ALL | DISTINCT ] <select_query2>
```

Parameters

Parameter	Description
`<select_query1>`	A valid SELECT query.
`<select_query2>`	A valid SELECT query.

Example

This example has two `SELECT` queries with an `INTERSECT` statement. The full query retrieves movies that had a budget of at least $200 million, but also earned more than $1 billion in revenues.

SQL

```
SELECT *
FROM movies
WHERE revenue > 1000000000
INTERSECT
SELECT *
FROM movies
WHERE budget > 20000000;
```

Output

movie_id	title	budget	popularity	release_date	revenue	runtime	movie_status	vote_average	vote_count
597	Titania	200000000	100.025899	1997-11-18	1845034188	194	Released	7.5	7562
19995	CGI Why	237000000	150.437577	2009-12-10	2787965087	162	Released	7.2	11800
49026	Superhero 23	250000000	112.31295	2012-07-16	1084939099	165	Released	7.6	9106
10193	Merchandise Vehicle 5	200000000	59.995418	2010-06-16	1066969703	103	Released	7.6	4597
211672	Minnows	74000000	875.581305	2015-06-17	1156730962	91	Released	6.4	4571
122	Swords & Scabbards	94000000	123.630332	2003-12-01	1118888979	201	Released	8.1	8064
37724	Spyman 16	200000000	93.004993	2012-10-25	1108561013	143	Released	6.9	7604
109445	Frigid	150000000	165.125366	2013-11-27	1274219009	102	Released	7.3	5295
168259	Furious 7	190000000	102.322217	2015-04-01	1506249360	137	Released	7.3	4176
68721	Iron Chef 3	200000000	77.68208	2013-04-18	1215439994	130	Released	6.8	8806
135397	Triassic World	150000000	418.708552	2015-06-09	1513528810	124	Released	6.5	8662
24428	The Tentpole	220000000	144.448633	2012-04-25	1519557910	143	Released	7.4	11776

EXCEPT

The `EXCEPT` keyword returns the result set of a first `SELECT` query minus any matching rows from a second `SELECT` query.

`EXCEPT` requires the two queries to be compatible, meaning they must return the same number of columns and have similar data types. By default, the result set eliminates duplicate rows unless the query includes the optional `ALL` keyword. Using the `DISTINCT` keyword is the same as this default behavior.

The `EXCEPT` keyword can also be used to exclude specific columns from a `SELECT *` query. For information on that alternate usage, see the **SELECT** syntax and example.

Syntax

SQL

```
<select_query1> EXCEPT [ ALL | DISTINCT ] <select_query2>
```

Parameters

Parameter	Description
`<select_query1>`	A valid SELECT query that is compared to `select_query2`. The results of an EXCEPT statement are the rows in `select_query1` that do not match any row in `select_query2`.
`<select_query2>`	A valid SELECT query that is compared to `select_query1`.

Example

In this example, the first `SELECT` statement queries all rows in the `movies` table. The `EXCEPT` clause and the second `SELECT` statement eliminate from the results any rows with movies that had a budget greater than `20000000`.

SQL

```sql
SELECT *
FROM movies
EXCEPT
SELECT *
FROM movies
WHERE budget > 20000000;
```

Output

title	budget	popularity	release_date	revenue	runtime	movie_status	vote_average	vote_count
Bang Bang Western	14000000	37.380435	1992-08-07	159157447	131	Released	7.7	1113
Space Odyssey 6000	10500000	86.201184	1968-04-10	68700000	149	Released	7.9	2998
Raiders of the Jungle Temple	18000000	68.159596	1981-06-12	389925971	115	Released	7.7	3854

UNION

Returns the combined result set of two or more `SELECT` queries.

By default, `UNION` eliminates duplicate rows from the result set unless you specify the `ALL` keyword. Using the `DISTINCT` keyword is the same as this default behavior.

Syntax

SQL

```sql
<select_query1> UNION [ ALL | DISTINCT ] <select_query2> [ ... ]
```

Parameters

Parameter	Data Type	Description
`select_query1`	String	A valid `SELECT` query that is combined with `select_query2`.
`select_query2`	String	A valid `SELECT` query that is combined with `select_query1`.

Example

This example uses `UNION` to merge two separate queries for identical columns into the same result set.

SQL

```sql
SELECT title,
    popularity,
    vote_average
FROM movie
WHERE popularity > 800
UNION
SELECT title,
    popularity,
    vote_average
FROM movies.movie
WHERE vote_average > 7.5;
```

Output

title	popularity	vote_average
Raiders of the Jungle Temple	68.159596	7.7
Minnows	875.581305	6.4
Apocalypse None	49.973462	8
Superhero 23	112.31295	7.6
Billy the Killy	79.754966	7.7
Bang Bang Western	37.380435	7.7
Blade Walker	94.056131	7.9
Swords & Scabbards	123.630332	8.1
Merchandise Vehicle 5	59.995418	7.6
Space Odyssey 6000	86.201184	7.9

USING

Overrides various system configurations for processing a specified query.

The `USING` keyword is required for only the first query override, not for subsequent ones.

For descriptions of the supported query configurations, see the parameter table below.

Syntax

SQL

```
<select_query>
USING
    [ SCHEDULING_PRIORITY = priority_value ]
    [ MAX_ROWS_RETURNED = max_rows ]
    [ MAX_ELAPSED_TIME = max_elapsed_time ]
    [ MAX_TEMP_DISK_USAGE = max_temp_disk_usage ]
    [ CACHE_MAX_TIME = cache_max_time ]
    [ CACHE_MAX_BYTES = cache_max_bytes ]
    [ SERVICE CLASS service_class ]
```

Parameters

Parameter	Description
`<select_query>`	A valid `SELECT` query.
`priority_value`	An optional clause that specifies the priority at which the query should run. The priority value is a floating point number, which indicates the priority compared to the other queries. The priority value does not specify any percentage of resources that the query takes or any specific degree of difference between queries. If unspecified, defaults to `SCHEDULING_PRIORITY = 1.0`.
`max_rows`	An optional clause that limits the number of rows returned by a query. If a query exceeds this number of rows, the system kills it. For example, `max_rows_returned = 10` kills any queries returning more than ten rows.
`max_elapsed_time`	An optional clause that limits how long a query can run. If a query exceeds this time limit in seconds, the system kills it. For example, `max_elapsed_time = 10` kills any queries taking longer than 10 seconds.
`max_temp_disk_usage`	An optional clause that limits the percentage of temporary disk used by a query. If a query exceeds this temporary disk limit, the system kills it. For example, `max_temp_disk_usage = 10` kills any queries taking more than 10% of temporary disk space.
`cache_max_time`	An optional clause that affects whether a specified query uses results from the cache rather than executing the query. If there is a cached result with the same query text, executed less than `cache_max_time` seconds ago, the database uses that cached result. The default value is 0, and thus by default, the database does not return any cached results. The cache considers all SQL Nodes, and if a potential cached result is only available on a different SQL Node, the database redirects the query to that node. If you specify the force attribute on the connection, which disables load balancing and redirection, the database considers only cached results on the current node.
`cache_max_bytes`	An optional clause that controls whether the database stores the results of any specified query in the cache. The system stores the results of all queries executed using a service class specifying this attribute in the cache if the result size is smaller than this value. You can determine the size of a result set in bytes by querying the `bytes_returned` field of the `completed_queries` virtual table. The default value is 0, and thus by default, the database does not cache any results. The database caches results in memory on the SQL Nodes. These results are not cached if there is insufficient memory available.
`service_class`	An optional clause at the end of a query that sets a specific service class to run that query. For details, see **CREATE SERVICE CLASS**.

Example

```sql
SELECT * FROM sys.dummy10
USING
    SCHEDULING_PRIORITY = 1.0
    MAX_ROWS_RETURNED = 10
    MAX_ELAPSED_TIME = 10
    MAX_TEMP_DISK_USAGE = 10;
```

Output

```sql
c1
-----------
1
2
3
4
5
6
7
8
9
10
```

TRACE

An optional clause that executes the query, but discards the original result set. Instead, `TRACE` returns a result set of tracing data that describe the execution of the query.

Append the `TRACE` SQL statement to the end of a query. The statement can include optional parameters to control its frequency and level of detail.

To understand the results of this statement, see **TRACE Results**.

> Trace queries have the same effect to the workload as a query run without the clause.

> Contact Ocient Support for guidance in using the TRACE SQL statement.

Syntax

```sql
<select_query> TRACE
    [ FREQUENCY frequency_int ]
    [ RESOLUTION resolution_int ]
```

Parameters

Parameter	Description
`<select_query>`	A valid `SELECT` query.
`frequency_int`	Controls how often the database samples trace events during query execution in milliseconds. If unspecified, defaults to 500 milliseconds.
`resolution_int`	Determines the level of detail captured for a trace or event. If the resolution of a trace is greater than the resolution of an event, the database records the event. If unspecified, defaults to 100 milliseconds.

TRACE Results

Each row of the trace output provides some information about what an operator instance has done in the time between the previous trace sample and the most current sample.

Column	Description
`plan_parent_id`	The UUID of the parent of the operator instance in the query plan. If an operator has multiple parents, this field specifies the UUID of one of the parents.
`plan_op_id`	The UUID of the operator in the query plan.
`operator_type`	The type of operator that the database uses to sample trace events.
`node_id`	The UUID of the node where this operator executes.
`code_id`	The identifier of the VM core where this operator instance executes. Core identifiers are unique for each node.
`op_id`	The identifier of the operator instance. Identifiers are unique for each node.
`time`	The time in milliseconds when the database collects the information for the trace event relative to the start of the query.
`group`	Group related trace events together.
`sample`	The sample of trace event data. For possible values, see the following table.
`value`	The value of trace event data.

Sample and Value Columns

The `sample` and `value` columns describe what occurred in a given trace period.

Sample	Description
`ROWS_IN`	The number of rows an operator instance has read from its children operators.
`ROWS_OUT`	The number of rows the operator instance returns.
`BLOOM_FILTERED_ROWS`	The number of rows that this operator instance discards by using Bloom filters.
`SCHEDULE_CYCLE`	The number of cycles in the schedule for this operator instance.
`OOM_CYCLE`	The number of out-of-memory cycles in the schedule for this operator.
`INITIALIZE`	The time when the database initializes the operator.
`FINALIZE`	The time when the database finalizes the operator.

Example

SQL

```
SELECT * FROM sys.dummy10 TRACE;
```

Output

plan_parent_id	plan_op_id	operator_type	node_id	core_id	op_id	time	group	sample	value
77041d2b-f7ca-49d5-a3f5-4b75b0782ed1	498690cf-4a9b-4c1f-affa-417f31fddc2d	RENAME_OPERATOR	08ca7b05-1e4d-455f-9f46-2174ed048d33	4	8441	0	xg::db::vm::operators::operatorTraceEvents	ROWS_IN	1
77041d2b-f7ca-49d5-a3f5-4b75b0782ed1	498690cf-4a9b-4c1f-affa-417f31fddc2d	RENAME_OPERATOR	08ca7b05-1e4d-455f-9f46-2174ed048d33	4	8441	0	xg::db::vm::operators::operatorTraceEvents	ROWS_OUT	1
77041d2b-f7ca-49d5-a3f5-4b75b0782ed1	498690cf-4a9b-4c1f-affa-417f31fddc2d	RENAME_OPERATOR	08ca7b05-1e4d-455f-9f46-2174ed048d33	4	8441	0	xg::db::vm::operators::operatorTraceEvents	BLOOM_FILTERED_ROWS	0

TAG

An optional clause that adds one or more tags to the SQL query. You can also add tags to a common table expression in the `WITH` clause. After you define tags, you can find them in the `sys.queries` and `sys.completed_queries` system catalog tables.

Syntax

SQL

```
<select_query> <tag> [ ... ]

<tag> ::= TAG <tag_identifier>
```

Parameters

Parameter	Description
`<select_query>`	A valid `SELECT` query.
`tag_identifier`	Identifier of the tag for the query. Enclose the identifier in double quotes if it contains any special characters, such as spaces.

Examples

SQL Query with One Tag

Select the count of a table with one row and tag the query with the name `count1`.

SQL

```
SELECT COUNT(*) FROM sys.dummy1 TAG count1;
```

SQL Query with Multiple Tags

Select the device model and tag this query with two names `device_model` and `phones`.

SQL

```
SELECT device_model
FROM system.adtech_flat
LIMIT 1
TAG device_model
TAG phones;
```

Common Table Expression with One Tag

Define a common table expression with the `average_budget` tag. You can also add another tag for the whole query `overall_budget`.

SQL

```
WITH avg_budget_table (average_budget) AS (
    SELECT AVG(budget)
    FROM movies
    TAG average_budget
)
SELECT title,
    budget,
    revenue
FROM movies,
    avg_budget_table
WHERE budget > avg_budget_table.average_budget
TAG overall_budget;
```

String Literals and Escape Sequences

All string literals in SQL statements must be enclosed in single quotes. To use a single quote within a string, you can use another single quote as an escape, `''`.

For other escape sequences, include an `e` character before the string literal, i.e., before the opening single quote. This directs the system to recognize escape sequences in the string literal. This means:

- All single `\` characters in the string now escape themselves.
- Any subsequent character after the `\` is also escaped if it matches an escape sequence (see the table).

If you use escape sequences, be prepared that you might need to alter strings that include `\`, such as directory paths.

Supported Escape Sequences

Escape Sequence	Description
`''`	Single quotation mark
`\"`	Double quotation mark
`\n`	Newline character
`\r`	Carriage return character
`\f`	Form feed character (i.e. page break)
`\b`	Backspace
`\\`	Backslash
`\t`	Tab

Examples

These examples show how the system interprets strings with and without escape sequences.

String Without an Escape Sequence

This example selects the simple string literal `'\my\directory\path'` that does not use escape sequences.

SQL

```sql
SELECT '\my\directory\path';
```

Output: `\my\directory\path`

String With an Escape Sequence

This example selects the simple string literal `'\my\directory\path'` and uses an escape sequence. The result omits the backslashes.

SQL

```sql
SELECT e'\my\directory\path';
```

Output: `mydirectorypath`

String With an Escape Sequence to Retain the Backslashes

This example uses the `'\\my\\directory\\path'` string with an escape sequence to include backslashes in the result.

SQL

```
SELECT e'\\my\\directory\\path';
```

Output: `\my\directory\path`

Escape Sequences with Regular Expressions

> Be careful using escape sequences with strings that also use regular expressions. Escape sequences in SQL syntax override the escape sequences of regular expressions.

In this example, the **REGEXP_SUBSTR** function uses the regular expression `\w+` to match any word characters.

SQL

```
SELECT REGEXP_SUBSTR(
    'abcdefghijklmnopqrstuvwxyz',
    '\w+'
    );
```

Output: `abcdefghijklmnopqrstuvwxyz`

The function behaves differently if the regular expression is an escape sequence because it overrides the `\` character. The regular expression searches only for the ?????? iar e greu??? character `w`.

SQL

```
SELECT REGEXP_SUBSTR(
    'abcdefghijklmnopqrstuvwxyz',
    e'\w+'
    );
```

Output: `w`

Related Links

SQL Reference

Data Control Language (DCL) Statement Reference

Data Definition Language (DDL) Statement Reference

38. broken big

The supports querying using the SQL syntax that follows ANSI SQL standards.

Ocient SQL Syntax

This code block shows the general syntax to perform SQL querying in and the order in which commands should go. asta omfg this is fucking awesome

meaaam,

For specific descriptions and syntax for the commands, see the respective SQL statement sections on this page. ???

:D ce bine e sa scrii repedeee

Syntax

SQL

```
[ WITH ... ]
SELECT ...
    [ EXCEPT(...) ]
[ FROM ...
    [ JOIN ... ] ]
[ WHERE ... ]
[ GROUP BY ...
    [ HAVING ... ] ]
[ ORDER BY ... ]
[ LIMIT ... ]
[ OFFSET ... ]
[ INTERSECT ... ]
[ EXCEPT ... ]
[ UNION ... ] ]
[ USING ... ]
[ TRACE ... ]
[ TAG ... ]
```

Default Schema

Ocient identifies every table using a database and schema. For example, the fully qualified path to the `movies` table is `cinema.adventure.movies`, where `cinema` is the database and `adventure` is the schema.

When you do not fully qualify a table name, the Ocient System uses a default schema. When you first log into the system, the default schema is your fully qualified username. You can change the default schema using the **SET SCHEMA** command.

Querying SQL Statement Reference

Ocient supports the following SQL statements.

WITH

Assigns a name to a common table expression, allowing an auxiliary query to be used in the main query. This is helpful for breaking down complex queries into smaller parts.

Syntax

SQL

```
WITH
    <cte_name> [ ( <cte_column> [ ,... ] ) ]
    AS ( <sub_query> )
<select_query>
```

Parameters

Parameter	Description
`<cte_name>`	A name for the common table expression populated with the result set from the `sub_query` statement.
`<cte_column>`	Optional. This is a list of column names for common table expressions populated with the `sub_query` result set. If no column names are provided, the column names are the same as the table referenced in the `sub_query` statement.
`<sub_query>`	An auxiliary query that collects data for a common table expression. `sub_query` can use regular query commands, including ORDER BY, LIMIT, OFFSET, UNION, INTERSECT, EXCEPT, WHERE, GROUP BY, and HAVING. See the respective SQL statement reference sections for usage rules.
`<select_query>`	The main SELECT query. Note that the `FROM` statement in the main `SELECT` query must also include the `cte_name` if the query uses its values.

Example

In this example, the subquery calculates the average budget for all rows in the `movies` table. The main query uses that average to find all movies that spent more.

SQL

```
WITH avg_budget_table (average_budget) AS (
    SELECT AVG(budget)
    FROM movies
)
SELECT title,
    budget,
    revenue
FROM movies,
    avg_budget_table
WHERE budget > avg_budget_table.average_budget;
```

Output

title	budget	revenue
CGI Why	237000000	2787965087
Titania	200000000	1845034188
Merchandise Vehicle 5	200000000	1066969703
The Tentpole	220000000	1519557910
Pirates of Palm Springs	140000000	655011224
Spyman 16	200000000	1108561013
Frigid	150000000	1274219009
Fury 7	190000000	1506249360
Superhero 23	250000000	1084939099
Triassic World	150000000	1513528810
Iron Chef 3	200000000	1215439994
The Last Airman	150000000	318502923

SELECT

Initiates a query statement or a subquery clause within other statements.

You can query the data of tables where you have the SELECT privilege.

For information on using SELECT as a subquery for filtering or ordering results, see the **WHERE** and **HAVING** sections.

For information on using SELECT as a subquery for a common table expression, see the **WITH** section.

Syntax

SQL

```
SELECT [ ALL | DISTINCT ]
    [ * [ EXCEPT ( column_name [ , ... ] ) ]
    | <select_list_entry> [ , ... ] ]
    [ <from_clause> ]
```

Parameters

Parameter	Description
`ALL`	`SELECT` and `SELECT ALL` are both the same. Returns all valid data rows from the database that meet the criteria of your query.
`DISTINCT`	`SELECT DISTINCT` returns only unique rows that do not match other rows based on the criteria of your query.
`*`	Returns all columns from the specified tables in the result set for the query.
`EXCEPT`	When used with `*`, `EXCEPT` allows specific columns to be excluded from the query results.
`column_name`	The name of one or more columns from the specified table that you want to exclude (using `EXCEPT`) from your query results.

<select_list_entry>

The `select_list_entry` defines a column or expression to include in your query result set.

Syntax

SQL

```
<select_list_entry> ::=
    column_name | expression [ AS new_name ]
```

Parameters

Parameter	Description
`column_name`	The name of one or more columns from the specified table that you want to include in your query results.
`expression`	One or more expressions that you want to include in your query results. Expressions can be any combination of literal values, column names, arithmetic expressions, parentheses, and function calls.
`new_name`	An alias, treated as an identifier, for an alternative name for the column or the results of the expression.

<from_clause>

For information on the `<from_clause>`, see the **FROM** documentation.

Examples

Using SELECT *

This example uses `SELECT *` to return all the columns in the `movies` table.

SQL

```
SELECT * FROM movies LIMIT 5;
```

Output

movie_id	title	budget	popularity	release_date	revenue	runtime	movie_status	vote_average	vote_count
211672	Minnows	74000000	875.581305	2015-06-17	1156730962	91	Released	6.40	4571
24	Billy the Killy	30000000	79.754966	2003-10-10	180949000	111	Released	7.70	4949
19995	CGI Why	237000000	150.437577	2009-12-10	2787965087	162	Released	7.20	11800
37724	Spyman 16	200000000	93.004993	2012-10-25	1108561013	143	Released	6.90	7604
24428	The Tentpole	220000000	144.448633	2012-04-25	1519557910	143	Released	7.40	11776

Using SELECT * EXCEPT

This example uses `SELECT * EXCEPT` to exclude certain columns from the result set.

SQL

```sql
SELECT *
EXCEPT (movie_id, runtime, vote_average, vote_count)
FROM movies
LIMIT 5;
```

Output

title	budget	release_date	revenue
Swords & Scabbards	94000000	2003-12-01	1118888979
Billy the Killy	30000000	2003-10-10	180949000
Merchandise Vehicle 5	200000000	2010-06-16	1066969703
CGI Why	237000000	2009-12-10	2787965087
Space Odyssey 6000	10500000	1968-04-10	68700000

Using Lateral Column Aliases

Ocient SQL queries support lateral column aliases, meaning you can immediately reuse aliases for calculations in the same query as new inputs. Hence, you can simplify queries that normally require subqueries and common table expressions.

These examples use the `products` table with these columns:

- `product_id` — Product identifier as an integer
- `product_name` — Product name as a string

- `price` — Price as a floating point number

Create this table using the `CREATE TABLE` SQL statement.

SQL

```sql
CREATE TABLE products (
    product_id INT,
    product_name VARCHAR(100),
    price DECIMAL(10, 2)
    );
```

Insert four records into the `products` table.

SQL

```sql
INSERT INTO products (product_id, product_name, price) VALUES
    (1, 'Laptop', 1000.00),
    (2, 'Tablet', 500.00),
    (3, 'Smartphone', 800.00),
    (4, 'Monitor', 300.00);
```

Create a query to determine prices after discounts and taxes by using a common table expression subquery `DiscountedPrices`. Use the `WITH` keyword to create the subquery.

SQL

```sql
WITH DiscountedPrices AS (
    SELECT
        product_id,
        product_name,
        price,
        price * 0.90 AS discounted_price,
        price * 0.90 * 1.05 AS total_price_after_tax
    FROM
        products
)
SELECT
    product_id,
    product_name,
    price,
    discounted_price,
    total_price_after_tax
FROM
    DiscountedPrices;
```

Lateral aliases allow the same calculations to be packaged in a single query.

This simpler query is essentially the same as the longer common table expression example, but the logic is condensed because you can reference the `discounted_price` alias immediately to calculate the `total_price_after_tax` value in the same query.

SQL

```sql
SELECT
    product_id,
    product_name,
    price,
    price * 0.90 AS discounted_price,
    discounted_price * 1.05 AS total_price_after_tax
FROM
    products;
```

FROM

Specifies the table or view to use in a `SELECT` statement.

Syntax

SQL

```sql
<select_clause> FROM
    { table_name | ( <sub_query> ) } [ ,... ]
    [ <join_clause> [ ,... ] ]
```

Parameters

Parameter	Description
`<select_clause>`	A query statement using the `SELECT` SQL statement. For details, see the **SELECT** section.
`table_name`	The names of one or more tables or views that you want to query. If you specify multiple tables in the `FROM` list, separated by commas, the effect is the same as if you explicitly perform a **CROSS JOIN** on all of those sources.
`<sub_query>`	One or more subqueries using the `SELECT` SQL statement. A subquery generates a table from which the `select_clause` query references data. Each subquery must be enclosed in parentheses with an optional correlation name. For details, see the **SELECT** section.
`<join_clause>`	A `JOIN` clause used to retrieve data from two or more tables for your query. For details, see the **JOIN** section.

JOIN

Combines rows from multiple tables so they can be accessed by a query.

Syntax

SQL

```
<select_query>
    FROM <table_reference1> <join_operation> <table_reference2>
        ON table1_column <boolean_operator> table2_column
```

Parameter

Parameter	Description
`<select_query>`	A valid `SELECT` query. For details, see **SELECT**.
`<table_reference1>`	Either a table name or a full `SELECT` in parentheses `table_reference1` takes precedence for returning rows for `LEFT OUTER JOIN`, `SEMI JOIN`, and `ANTI JOIN`. For specific rules, see **Types of Join Operations**.
`<table_reference2>`	Either a table name or a full `SELECT` in parentheses function. `table_reference2` takes precedence for returning rows for `RIGHT OUTER JOIN`. For specific rules, see **Types of Join Operations**.
`table1_column`	A column from either `table_reference` The `JOIN` operation uses this column to match rows with `table2_column` to combine data for the result set.
`<boolean_operator>`	Join conditions can use any Boolean expression, including `=`, `!=`, `<`, `>`, `=>`, and `<=`
`table2_column`	A column from the `table_reference` not used for `table1_column` The `JOIN` operation uses this column to match rows based on the `table1_column` to combine data for the result set.

Types of Join Operations (`<join_operation>`)

Ocient supports the following types of `JOIN` operations.

Syntax

SQL

```
<join_operation> ::=
    { INNER JOIN
    | LEFT [ OUTER ] JOIN
    | RIGHT [ OUTER ] JOIN
    | FULL [ OUTER ] JOIN
    | CROSS JOIN
    | SEMI JOIN
    | ANTI JOIN }
```

JOIN Type Descriptions

JOIN Type	Description
`INNER JOIN`	Returns all rows that exist in both tables. This join type is the default type of join.
`LEFT OUTER JOIN`	Returns all rows from the first table regardless of whether there are matching rows in the second table. `LEFT JOIN` performs the same operation as `LEFT OUTER JOIN`.
`RIGHT OUTER JOIN`	Returns all rows from the second table regardless of whether there are matching rows in the first table. `RIGHT JOIN` performs the same operation as `RIGHT OUTER JOIN`.
`FULL OUTER JOIN`	Returns all matched and unmatched rows. `FULL JOIN` performs the same operation as `FULL OUTER JOIN`.
`CROSS JOIN`	Returns the Cartesian product of the joined tables. Each row in the first table is joined with all rows in the second table. The result set contains the number of rows in the first table multiplied by the number of rows in the second table.
`SEMI JOIN`	Returns the rows from the first table that have at least one match in the second table. No columns from the second table are available in the query.
`ANTI JOIN`	Returns the rows from the first table that have no matches in the second table. No columns from the second table are available in the query.

By default, `JOIN` statements that involve subqueries can operate laterally if necessary. This behavior allows subqueries to reference joined columns from the preceding items included in the `FROM` clause.

For example, both parts of this join operation use subqueries that reference table `x`. The `LATERAL` keyword is optional; the join operation acts the same regardless of whether it is included.

```
SELECT * FROM
    (
    SELECT
        1 AS cx1,
        2 AS cx2) AS x
INNER JOIN LATERAL (
    SELECT
        x.cx1 AS cy1,
        x.cx2 AS cy2) AS y
ON
    x.cx1 = y.cy1;
```

Lateral joins are primarily useful when a cross-referenced column is necessary for computing the rows to join. A common application is providing an argument value for a set-returning function.

Examples

These examples join two tables:

- `games` — A table of video game titles and their genre_ids. Note that some games have a NULL value assigned to their genre_id.

game_name	genre_id
Star Battle 6000	9
Dwarf Simulator	NULL
2002 Futbol	11
Space Attack!	9
Fantasy Fool	8
Blasto the Squirrel	5
Trucker Quest	7
Block, Stack, and Cry!	6
Basketball Day	11
Pizza Mutant	1
Italian Plumber	5
Zombies!	1
Space Ninjas	12
Moon Mayor	10
Spreadsheet Hero	NULL
Zoom Tycoon	12
Porch Poacher	6

- `genre` — A table of video game genres, which are identified by IDs.

genre_name	id
Racing	7
Puzzle	6
Adventure	2
Simulation	10
Shooter	9
Misc	4
Action	1
Sports	11
Role-Playing	8
Platform	5
Strategy	12
Fighting	3

INNER JOIN

This example uses an `INNER JOIN` operation to capture only the rows that exist in both tables. Games with NULL values for their `genre_id` are eliminated from the result set.

SQL

```sql
SELECT game_name,
    genre_name
FROM video_games.game
    INNER JOIN video_games.genre ON game.genre_id = genre.id;
```

Output

game_name	genre_name
Fantasy Fool	Role-Playing
Blasto the Squirrel	Platform
Italian Plumber	Platform
Porch Poacher	Puzzle
Space Ninjas	Strategy
Basketball Day	Sports
2002 Futbol	Sports
Moon Mayor	Simulation
Block, Stack, and Cry!	Puzzle
Zombies!	Action
Pizza Mutant	Action
Space Attack!	Shooter
Trucker Quest	Racing
Zoom Tycoon	Strategy

LEFT OUTER JOIN

This example uses a `LEFT OUTER JOIN` operation to capture all rows from the left table (game), even if they have no matching row in the right table (genre).

SQL

```sql
SELECT game_name,
    genre_name
FROM video_games.game
    LEFT OUTER JOIN video_games.genre ON game.genre_id = genre.id;
```

Output

game_name	genre_name
Fantasy Fool	Role-Playing
Space Ninjas	Strategy
Zoom Tycoon	Strategy
Zombies!	Action
Pizza Mutant	Action
Trucker Quest	Racing
Blasto the Squirrel	Platform
2002 Futbol	Sports
Basketball Day	Sports
Italian Plumber	Platform
Block, Stack, and Cry!	Puzzle
Star Battle 6000	Shooter
Dwarf Simulator	NULL
Moon Mayor	Simulation
Porch Poacher	Puzzle
Spreadsheet Hero	NULL
Space Attack!	Shooter

RIGHT OUTER JOIN

This example uses a `RIGHT OUTER JOIN` operation to capture all rows from the right table (genre), even if they have no matching row in the left table (game).

SQL

```sql
SELECT game_name,
    genre_name
FROM video_games.game
    RIGHT OUTER JOIN video_games.genre ON game.genre_id = genre.id;
```

Output

game_name	genre_name
NULL	Adventure
Trucker Quest	Racing
Pizza Mutant	Action
Moon Mayor	Simulation
Fantasy Fool	Role-Playing
Space Attack!	Shooter
NULL	Misc
Star Battle 6000	Shooter
Space Ninjas	Strategy
Porch Poacher	Puzzle
Block, Stack, and Cry!	Puzzle
Blasto the Squirrel	Platform
Italian Plumber	Platform
Zoom Tycoon	Strategy
NULL	Fighting
Zombies!	Action
2002 Futbol	Sports
Basketball Day	Sports

FULL OUTER JOIN

This example uses a `FULL OUTER JOIN` operation to capture all rows from both tables, even if they do not match.

SQL

```sql
SELECT game_name,
    genre_name
FROM video_games.game
    FULL OUTER JOIN video_games.genre ON game.genre_id = genre.id;
```

Output

game_name	genre_name
Basketball Day	Sports
2002 Futbol	Sports
Zombies!	Action
Blasto the Squirrel	Platform
Moon Mayor	Simulation
Trucker Quest	Racing
NULL	Misc
Star Battle 6000	Shooter
Space Attack!	Shooter
Spreadsheet Hero	NULL
NULL	Adventure
NULL	Fighting
Italian Plumber	Platform
Pizza Mutant	Action
Dwarf Simulator	NULL
Fantasy Fool	Role-Playing
Block, Stack, and Cry!	Puzzle
Space Ninjas	Strategy
Zoom Tycoon	Strategy
Porch Poacher	Puzzle

CROSS JOIN

This example uses a `CROSS JOIN` operation to capture every possible combination of rows from both tables, regardless of whether they match. Note that unlike other `JOIN` operations, `CROSS JOIN` does not require an `ON` statement.

SQL

```sql
SELECT game_name,
    genre_name
FROM video_games.genre
    CROSS JOIN video_games.game;
```

Output

> As the result set for this CROSS JOIN example is more than 200 rows, the results are abbreviated.

genre_name	genre_id
Spreadsheet Hero	Role-Playing
Spreadsheet Hero	Misc
Spreadsheet Hero	Sports
Spreadsheet Hero	Platform
Spreadsheet Hero	Strategy
Spreadsheet Hero	Shooter
Spreadsheet Hero	Fighting
Spreadsheet Hero	Action
Spreadsheet Hero	Simulation
Spreadsheet Hero	Racing
Spreadsheet Hero	Puzzle
Spreadsheet Hero	Adventure
Space Attack!	Role-Playing
Space Attack!	Misc
Space Attack!	Sports
Space Attack!	Platform
Space Attack!	Strategy
Space Attack!	Shooter
Space Attack!	Fighting
Space Attack!	Action
Space Attack!	Simulation
Space Attack!	Racing
Space Attack!	Puzzle
Space Attack!	Adventure
...	...

SEMI JOIN

This example uses a `SEMI JOIN` operation to capture genre names that have at least one match in the games table. Rows are only included once, even if there are multiple matches.

SQL

```
SELECT genre_name,
    id
FROM video_games.genre
    SEMI JOIN video_games.game ON genre.id = game.genre_id;
```

Output

genre_name	genre_id
Simulation	10
Shooter	9
Racing	7
Strategy	12
Puzzle	6
Platform	5
Action	1
Sports	11
Role-Playing	8

ANTI JOIN

This example uses an `ANTI JOIN` operation to capture any rows in the game table that do not match any rows in the genre table.

SQL

```
SELECT game_name
FROM video_games.game
    ANTI JOIN video_games.genre ON game.genre_id = genre.id;
```

Output

game_name
Spreadsheet Hero
Dwarf Simulator

WHERE

Filters rows based on a specified condition.

Syntax

```sql
<select_query>
    WHERE { column_name <filter_condition> filter_value |
    [ NOT ] EXISTS ( <sub_query> ) }
```

Parameters

Parameter	Description
`<select_query>`	A valid `SELECT` query.
`column_name`	A column used for grouping that is evaluated by the `filter_condition`.
`filter_value`	A value used to evaluate the specified `column_name`. For details, see the **<filter_condition>** section.
`<sub_query>`	A subquery with a filter condition that follows the `EXISTS` clause. For details, see the **EXISTS** section.

<filter_condition>

A logical combination of predicates used to evaluate the referenced `column_name` based on the `filter_value`.

Syntax

```sql
<filter_condition> ::=
  { =
    | ==
    | <>
    | !=
    | [ NOT ] EQUALS
    | <
    | <=
    | >
    | >=
    | [ NOT ] IN
    | [ NOT ] LIKE
    | [ NOT ] SIMILAR TO
    | BETWEEN
    | FOR SOME
    | FOR ALL
    | IS [ NOT ] NULL
    | IS [ NOT ] DISTINCT FROM
  }
```

Definitions

Operator	Description	Example
`=`, `==`, `EQUALS`	Equal to.	`Author = 'Alcott'`
`<>`, `!=`	Not equal to	`Dept <> 'Sales'`
`>`	Greater than	`Hire_Date > '2012-01-31'`
`<`	Less than	`Bonus < 50000.00`
`>=`	Greater than or equal	`Dependents >= 2`
`<=`	Less than or equal	`Rate <= 0.05`
`[ NOT ] LIKE`	Begins with a character pattern to match. The pattern is enclosed in parentheses and can include the wildcard characters `%`, representing zero, one or multiple characters, and `_` representing a single character. To have a literal `%` or `_` that does not act as a wildcard on the right-hand side of a `LIKE` or `NOT LIKE` expression, put a backslash before the character.	`Full_Name LIKE 'Will%'`
`[ NOT ] SIMILAR TO`	For usage information, see the **SIMILAR TO Operator** section.	`'abc' SIMILAR TO 'abc'`
`BETWEEN value1 AND value2`	Requires two values. The filter evaluates to TRUE if the specified column is within the range between the two values. `BETWEEN` bounds are inclusive. Values can be times, numbers, or strings.	`Sales BETWEEN 1000 AND 5000`
`FOR_SOME()`	Evaluates an array to determine if at least one value meets the filter criteria. In the example, the `FOR_SOME()` operator would return all rows of the column `col_int_array` where at least one value is greater than 10. For details, see **Array Filters**.	`FOR_SOME(col_int_array) > 10` `FOR_SOME(col_int_array) > 10`

`FOR_ALL()`	Evaluates all values of an array to determine if all meet the filter criteria.
	In the example, the `FOR_ALL()` operator would return any rows of the column `col_int_array` where all values are greater than 10.
	For details, see **Array Filters**.
		`FOR_ALL(col_int_array) > 10`
		
		`FOR_ALL(col_int_array) = 1`

`[ NOT ] IN`	Equal to one of multiple possible values	`DeptCode IN (101, 103, 209)`
`IS [ NOT ] NULL`	Compare to `NULL` (missing data)	`Address IS NOT NULL`
`IS [ NOT ] DISTINCT FROM`	Compares the equality of two expressions for a Boolean result, including comparisons that involve `NULL` values. This operator ensures reliable comparisons in scenarios where `NULL` values need to be treated as significant data points. Normally, `NULL = NULL` evaluates to `false` because `NULL` represents an unknown value. However, the statement `a IS NOT DISTINCT FROM b` treats `NULL` as a comparable value	`Debt IS NOT DISTINCT FROM Receivables`

Operator	Description	Example
	and returns `true` when both values are `NULL` or when `a = b`. Inversely, `a IS DISTINCT FROM b` returns `true` if the values are different or if one value is `NULL` while the other is not `NULL`.	

EXISTS

An `EXISTS` clause used in a `WHERE` statement evaluates if a subquery returns any rows.

For each row that the database computes in the outer query, if the subquery returns at least one row, the `EXISTS` clause evaluates to `true`. In this outcome, the outer query returns its row.

If the subquery returns zero rows, the `EXISTS` clause evaluates to `false`, and the outer query excludes those rows.

The `NOT EXISTS` clause performs the opposite Boolean logic. In this case, the outer query returns rows only when the subquery has no matches.

Examples

These examples use two tables, one for company departments and the other for employees who are assigned to those departments.

Create the `departments` table for department data.

SQL

```sql
CREATE TABLE departments (
    id INT,
    name VARCHAR(50)
);
```

Create the `employees` table for employee data.

SQL

```sql
CREATE TABLE employees (
    id INT,
    name VARCHAR(50),
    department_id INT
);
```

Insert department data for three departments, `HR`, `IT`, and `Marketing`, into the `departments` table.

SQL

```sql
INSERT INTO departments (id, name) VALUES
    (1, 'HR'),
    (2, 'IT'),
    (3, 'Marketing');
```

Insert employee data for four employees, `Alice`, `Bob`, `Charlie`, and `David`, into the `employees` table.

SQL

```sql
INSERT INTO employees (id, name, department_id) VALUES
    (1, 'Alice', 1),
    (2, 'Bob', 2),
    (3, 'Charlie', 2),
    (4, 'David', 4);
```

Find Employees Belonging to an Existing Department

This example uses an `EXISTS` clause to find any names from the `employees` table who are assigned to a department listed in the `departments` table.

SQL

```sql
SELECT name
FROM employees AS e
WHERE EXISTS (
    SELECT *
    FROM departments AS d
    WHERE e.department_id = d.id
);
```

The query returns all employees except `David`, who is assigned to a department that does not exist in the `departments` table.

Output

Text

```
Bob
Charlie
Alice
```

Find Departments That Have Employees

This query returns departments that have at least one employee. The subquery uses `SELECT 1` to check whether any matching rows exist in the `employees` table. The output is the same if the query uses `SELECT *` instead.

SQL

```sql
SELECT name
FROM departments AS d
WHERE EXISTS (
    SELECT 1
    FROM employees AS e
    WHERE e.department_id = d.id
);
```

The query results exclude the `Marketing` department because no employees belong to it.

Output

Text

```
HR
IT
```

Filter Departments Based on an Uncorrelated Table

In this example, the outer query filters the `departments` table where `id != 3` (excluding the `Marketing` department). The subquery checks if there is at least one employee with a department identifier less than `4`.

The query is uncorrelated because the subquery does not reference the `departments` table.

SQL

```sql
SELECT *
FROM departments d
WHERE d.id != 3
AND EXISTS (
    SELECT *
    FROM employees e
    WHERE e.department_id < 4
);
```

Output

Text

```
HR
IT
```

Find Employees Without a Valid Department

This example uses a `NOT EXISTS` clause. The example returns only employees who are assigned to a department identifier `department_id` not listed in the `departments` table.

SQL

```sql
SELECT name
FROM employees AS e
WHERE NOT EXISTS (
    SELECT *
    FROM departments AS d
    WHERE e.department_id = d.id
);
```

Output: `David`

SIMILAR TO Operator

`SIMILAR TO` is a keyword that extends the `LIKE` operator, adding more features for match filtering including many metacharacters used in regular expressions.

`%` and `_` both act as wildcard operators, but other supported metacharacters match traditional regular expressions.

Syntax

```SQL
WHERE string1 SIMILAR TO string2
```

This table describes the metacharacters supported by the `SIMILAR TO` keyword.

Metacharacter	Description
`%`	Repeated wildcard, matches any characters zero or more times. Equivalent usage to `LIKE`.
`_`	Wildcard, matches exactly one character. Equivalent usage to `LIKE`.
`|`	Alteration, meaning either of two alternatives (`a|b` represents `a` or `b`).
`*`	Repetition of zero or more times.
`+`	Repetition of one or more times.
`?`	Repetition of zero or one times.
`{m}`	Repetition of exactly `m` times.
`{m,n}`	Repetition between `m` and `n` times (inclusive).
`{m,}`	Repetition of at least `m` times.
`()`	Logical grouping.
`[]`	A character class, equivalent to character classes in regular expressions. Example: `[a-z]` is any lowercase English letter.
`^`	Beginning of the line anchor and the negation in character classes.
`$`	End of the line anchor.

`SIMILAR TO` also supports escaping these metacharacters with `\` and certain escape sequences supported by C family languages.

Metacharacter	Description
`\a`	The alert/bell character.
`\b`	The backspace character.
`\B`	A single `\` character. Equivalent to `\\`.
`\cX`	The character with the same five lower order bits as `X` with all zeros as higher order bits.
`\e`	The character with the numeric value 27, Esc.
`\f`	Form feed.
`\n`	Newline.
`\r`	Carriage return.
`\t`	Horizontal tab.
`\uwxyz`	`wxyz` represents four hexadecimal digits, including two characters: one with numeric value `wx`, and one with numeric value `yz`.
`\Uabcdefgh`	`abcdefgh` represents eight hexadecimal digits, including four characters: numeric value `ab`, numeric value `cd`, numeric value `ef`, and numeric value `gh`.
`\v`	Vertical tab.
`\xd....`	`d` is any number of hexadecimal digits. If the number of digits is odd, a 0 is added to the left of the sequence. Numeric characters with values represented by every group of two symbols from `d`.
`\0`	NULL character 0.
`\xy`	`xy` are octal digits that represent the character with the numeric value `xy`.
`\xyz`	`xyz` are octal digits that represent the character with the numeric value `xyz`. If `x` is greater than or equal to `4`, the database returns two characters: the numeric value `1` and the numeric value of the lower 8 bits of `xyz`.
`\d`	Matches any digit.
`\s`	Matches any whitespace.
`\w`	Matches any alphanumeric character or `_`.
`\D`	Matches any non-digit.
`\S`	Matches any non-whitespace.
`\W`	Matches any non-alphanumeric that is also not `_`.
`\A`	The beginning of a line. Equivalent to `^`.
`\m`, `\M`, or `\y`	The boundary of a word. Equivalent to `\b` in normal regular expressions. dsada kdqwk eq;l sadsa sadsadsadasdsa dsadsad asd wq

Metacharacter	Description
`\Y`	Any position that is not the boundary of a word.
`\Z`	The end of a line. Equivalent to `$` in normal regular expressions.
`\*`	The star character.
`\+`	The plus character.
`\?`	The question mark character.

- The database ignores any `\` metacharacter that does not precede a metacharacter (including `\`) or an escape sequence in the metacharacter table.
- Invalid expressions (unpreceded quantifiers, unclosed parentheses, etc.) result in query errors.
- The database does not recognize the `.` character as a metacharacter, unlike the behavior in traditional regular expressions.
- The database applies escape metacharacters that apply to string literals. To match a string containing a single `'\'`, you might need to use `'\\\\'`.

Examples

SQL

```
'abc' SIMILAR TO 'abc'          true
'abc' SIMILAR TO 'a'            false
'abc' SIMILAR TO '%(b|d)%'      true
'abc' SIMILAR TO '(b|c)%'       false
'-abc-' SIMILAR TO '%\mabc\M%'  true
'xabcy' SIMILAR TO '%\mabc\M%'  false
```

Array Filters

A filter expression can use the functions `FOR_SOME()` and `FOR_ALL()` to apply a predicate against all values of an input array.

Array filter functions have the following rules:

- They can only evaluate array types.
- They can go on either the left or right side of a boolean comparison expression, but not both sides at the same time.
- They must directly use a boolean comparison operator.
- They cannot use the `SOME` and `ALL` SQL keywords.

Filter Behavior with Empty Arrays

Array filter functions have unique behavior when evaluating empty arrays.

- `FOR_ALL()` evaluates an empty array as `TRUE`.
- `FOR_SOME()` evaluates an empty array as `FALSE`.

If empty arrays must be evaluated for a different result, you can use the `ARRAY_LENGTH` function to specify a minimum array length. For example, this statement would evaluate an array as `TRUE` only if it is not empty and all values matched `%ocient%`:

```
SQL

ARRAY_LENGTH(array_col) > 0 AND FOR_ALL(array_col) LIKE '%ocient%
```

For details about array functions, see the **Array Functions and Operators** page.

Filter Behavior with NULL rows

Filtering with array functions can have different outcomes depending on whether the array row is NULL or if the values contained in the array are NULL.

If `FOR_SOME()` or `FOR_ALL()` evaluate a NULL row (the row itself is NULL, not that the array contains NULL values), then the result is always `FALSE`.

To check an array for the presence of NULL values, you must use the `IS NULL` operator. For example:

```
SQL

FOR_SOME(array_col) IS NULL
```

Array comparison operators, such as `@>`, `<@`, and `&&` do not adhere to Boolean logic for NULL values. For details, see the **Array Functions and Operators** page.

GROUP BY

Groups rows with the same values into summary rows, based on a specified aggregate function.

Syntax

```
SQL

SELECT <select_list_clause> FROM table_name
    GROUP BY { column_name | expression | integer } [ , ... ]
    [ HAVING <filter_condition> ]
```

Parameters

Parameter	Description
`<select_list_clause>`	A list of one or more columns for the `SELECT` query. To use `GROUP BY` to summarize the query result set, at least one of the columns in `column_list` must include an aggregate function, such as `SUM()`, `COUNT()`, or `MAX()`. For a list of supported functions, see the **Aggregate Functions** page.
`table_name`	The table to use for the query.
`column_name`	The name of one or more columns to use to group the result set. If you specify multiple columns, the result set is grouped by each unique combination of values from the columns.
`expression`	Any combination of literal values, column names, arithmetic expressions, parentheses, and function calls.
`integer`	An integer representing the position of the columns referenced in the `column_list`. The first position starts at `1`.
`<filter_condition>`	A `HAVING` clause that filters the aggregated groups based on a specified condition. For details, see the **<filter_condition>** section.

Example

This example uses a movie database to calculate the total amount spent on movie production per year.

SQL

```sql
SELECT YEAR(release_date),
    SUM(budget)
FROM movies
GROUP BY 1
ORDER BY 1 ASC;
```

Output

year(release_date)	sum(budget)
1968	10500000
1979	31500000
1981	18000000
1982	28000000
1992	14000000
1997	200000000
2003	264000000
2009	237000000
2010	350000000
2012	670000000
2013	350000000
2015	414000000

HAVING

Filters aggregated rows based on a specified condition.

`HAVING` operates in a `GROUP BY` statement by setting a filter for the rows to be aggregated and grouped.

For information on using `GROUP BY` in a query statement, see **GROUP BY**.

Syntax

```SQL
GROUP BY column_name HAVING <filter_condition>
```

Parameters

Parameter	Description
`column_name`	A column used for grouping that is evaluated by the `filter_condition`.
`<filter_condition>`	A logical combination of boolean predicates. For information on supported logical predicates, see **<filter_condition>**.

Example

This example calculates the total amount spent on movie production per year. The `HAVING` clause filters out any rows that do not have a sum of at least $100 million.

```sql
SELECT YEAR(release_date),
    SUM(budget)
FROM movies
GROUP BY 1
HAVING SUM(budget) > 100000000
ORDER BY 1 ASC;
```

Output

year(release_date)	sum(budget)
1997	200000000
2003	264000000
2009	237000000
2010	350000000
2012	670000000
2013	350000000
2015	414000000

ORDER BY

Sorts the result set in ascending or descending order based on one or more specified columns.

If you specify multiple columns, they are sorted hierarchically from left to right.

Syntax

```sql
ORDER BY { column_position | column_name } [ ASC | DESC ]
    [ NULLS FIRST | NULLS LAST ] [ , ... ]
```

Parameters

Parameter	Data Type	Description
`column_position`	Integer	The position of a column to be used for the `ORDER BY` sorting. Column positions start at `1`.
`column_name`	String	The name of a column to be used for the `ORDER BY` sorting.
`ASC | DESC`	String	Optional. Specifies whether to sort the column in ascending (`ASC`) or descending (`DESC`) order. If unspecified, defaults to `ASC`.
`NULLS FIRST | NULLS LAST`	String	Optional. `NULLS FIRST` means null values go at the start of the result set. `NULLS LAST` means null values go at the end of the result set. If unspecified, defaults to `NULLS FIRST`.

Example

In this example, the `ORDER BY` statement orders the movies from newest to oldest.

SQL

```sql
SELECT release_date, title
FROM movies
ORDER BY release_date DESC;
```

Output

release_date	title
2015-06-17	Minnows
2015-06-09	Triassic World
2015-04-01	Fury 7
2013-11-27	Frigid
2013-04-18	Iron Chef 3
2012-10-25	Spyman 16
2012-07-16	Superhero 23
2012-04-25	The Tentpole
2010-06-30	The Last Airman
2010-06-16	Merchandise Vehicle 5
2009-12-10	CGI Why
2003-12-01	Swords & Scabbards
2003-10-10	Billy the Killy
2003-07-09	Pirates of Palm Springs
1997-11-18	Titania
1992-08-07	Bang Bang Western
1982-06-25	Blade Walker
1981-06-12	Raiders of the Jungle Temple
1979-08-15	Apocalypse None
1968-04-10	Space Odyssey 6000

LIMIT

Limits the number of returned rows from a query to a specified amount.

The returned rows are nondeterministic unless you use an **ORDER BY** clause.

Syntax

SQL

```
<select_query> LIMIT limit_number
```

Parameters

Parameter	Description
`<select_query>`	A valid `SELECT` query.
`limit_number`	The number of rows to return from the query, specified as a positive integer or any constant scalar expression that evaluates to a positive integer.

Examples

Limit Returned Rows Using a Number

This example uses `LIMIT` to restrict the number of returned movie titles to only three.

SQL

```
SELECT title FROM movies LIMIT 3;
```

Output

SQL

```
Minnows
CGI Why
Billy the Killy
```

Limit Returned Rows Using an Expression

The `LIMIT` SQL statement can also accept expressions. This query uses the `1+2` expression with the `sys.dummy` table to create a table of three incrementing integers. For details, see **Generate Tables Using sys.dummy**.

SQL

```
SELECT c1 FROM sys.dummy10 LIMIT 1+2;
```

Output

SQL

```
1
2
3
```

OFFSET

Skips a specified number of rows from the result set.

The returned rows are nondeterministic unless you use an **ORDER BY** clause.

Syntax

```sql
<select_query> OFFSET offset_number
```

Parameters

Parameter	Description
`<select_query>`	A valid SELECT query.
`offset_number`	The number of rows to skip when returning results from the query, specified as a positive integer or any constant scalar expression that evaluates to a positive integer.

Examples

Skip Rows From the Result Set Using a Number

In this example, the `ORDER BY` statement orders the results chronologically. As a result, the `OFFSET` clause removes the oldest six movies from the result set.

```sql
SELECT release_date,
    title
FROM movies
ORDER BY release_date OFFSET 6;
```

Output

release_date	title
2003-07-09	Pirates of Palm Springs
2003-10-10	Billy the Killy
2003-12-01	Swords & Scabbards
2009-12-10	CGI Why
2010-06-16	Merchandise Vehicle 5
2010-06-30	The Last Airman
2012-04-25	The Tentpole
2012-07-16	Superhero 23
2012-10-25	Spyman 16
2013-04-18	Iron Chef 3
2013-11-27	Frigid
2015-04-01	Fury 7
2015-06-09	Triassic World
2015-06-17	Minnows

Skip Rows From the Result Set Using an Expression

The `OFFSET` SQL statement can also accept expressions. This query uses the expression `3+4` with the `sys.dummy` table to create a column of incrementing integers by skipping the first seven out of 10 rows. For details, see **Generate Tables Using sys.dummy**.

SQL

```
SELECT c1 FROM sys.dummy10 OFFSET 3+4;
```

Output

SQL

```
8
9
10
```

INTERSECT

Returns any rows that match between two separate `SELECT` queries. To use `INTERSECT`, the two queries must be compatible, meaning they must return the same number of columns and have similar data types.

By default, the SQL statement eliminates duplicate rows unless the query includes the optional `ALL` keyword. Using the `DISTINCT` keyword is the same as this default behavior.

Syntax

SQL

```
<select_query1> INTERSECT [ ALL | DISTINCT ] <select_query2>
```

Parameters

Parameter	Description
`<select_query1>`	A valid SELECT query.
`<select_query2>`	A valid SELECT query.

Example

This example has two `SELECT` queries with an `INTERSECT` statement. The full query retrieves movies that had a budget of at least $200 million, but also earned more than $1 billion in revenues.

SQL

```
SELECT *
FROM movies
WHERE revenue > 1000000000
INTERSECT
SELECT *
FROM movies
WHERE budget > 20000000;
```

Output

movie_id	title	budget	popularity	release_date	revenue	runtime	movie_status	vote_average	vote_count
597	Titania	200000000	100.025899	1997-11-18	1845034188	194	Released	7.5	7562
19995	CGI Why	237000000	150.437577	2009-12-10	2787965087	162	Released	7.2	11800
49026	Superhero 23	250000000	112.31295	2012-07-16	1084939099	165	Released	7.6	9106
10193	Merchandise Vehicle 5	200000000	59.995418	2010-06-16	1066969703	103	Released	7.6	4597
211672	Minnows	74000000	875.581305	2015-06-17	1156730962	91	Released	6.4	4571
122	Swords & Scabbards	94000000	123.630332	2003-12-01	1118888979	201	Released	8.1	8064
37724	Spyman 16	200000000	93.004993	2012-10-25	1108561013	143	Released	6.9	7604
109445	Frigid	150000000	165.125366	2013-11-27	1274219009	102	Released	7.3	5295
168259	Furious 7	190000000	102.322217	2015-04-01	1506249360	137	Released	7.3	4176
68721	Iron Chef 3	200000000	77.68208	2013-04-18	1215439994	130	Released	6.8	8806
135397	Triassic World	150000000	418.708552	2015-06-09	1513528810	124	Released	6.5	8662
24428	The Tentpole	220000000	144.448633	2012-04-25	1519557910	143	Released	7.4	11776

EXCEPT

The `EXCEPT` keyword returns the result set of a first `SELECT` query minus any matching rows from a second `SELECT` query.

`EXCEPT` requires the two queries to be compatible, meaning they must return the same number of columns and have similar data types. By default, the result set eliminates duplicate rows unless the query includes the optional `ALL` keyword. Using the `DISTINCT` keyword is the same as this default behavior.

The `EXCEPT` keyword can also be used to exclude specific columns from a `SELECT *` query. For information on that alternate usage, see the **SELECT** syntax and example.

Syntax

SQL

```
<select_query1> EXCEPT [ ALL | DISTINCT ] <select_query2>
```

Parameters

Parameter	Description
`<select_query1>`	A valid SELECT query that is compared to `select_query2`. The results of an EXCEPT statement are the rows in `select_query1` that do not match any row in `select_query2`.
`<select_query2>`	A valid SELECT query that is compared to `select_query1`.

Example

In this example, the first `SELECT` statement queries all rows in the `movies` table. The `EXCEPT` clause and the second `SELECT` statement eliminate from the results any rows with movies that had a budget greater than `20000000`.

SQL

```sql
SELECT *
FROM movies
EXCEPT
SELECT *
FROM movies
WHERE budget > 20000000;
```

Output

title	budget	popularity	release_date	revenue	runtime	movie_status	vote_average	vote_count
Bang Bang Western	14000000	37.380435	1992-08-07	159157447	131	Released	7.7	1113
Space Odyssey 6000	10500000	86.201184	1968-04-10	68700000	149	Released	7.9	2998
Raiders of the Jungle Temple	18000000	68.159596	1981-06-12	389925971	115	Released	7.7	3854

UNION

Returns the combined result set of two or more `SELECT` queries.

By default, `UNION` eliminates duplicate rows from the result set unless you specify the `ALL` keyword. Using the `DISTINCT` keyword is the same as this default behavior.

Syntax

SQL

```sql
<select_query1> UNION [ ALL | DISTINCT ] <select_query2> [ ... ]
```

Parameters

Parameter	Data Type	Description
`select_query1`	String	A valid `SELECT` query that is combined with `select_query2`.
`select_query2`	String	A valid `SELECT` query that is combined with `select_query1`.

Example

This example uses `UNION` to merge two separate queries for identical columns into the same result set.

SQL

```sql
SELECT title,
    popularity,
    vote_average
FROM movie
WHERE popularity > 800
UNION
SELECT title,
    popularity,
    vote_average
FROM movies.movie
WHERE vote_average > 7.5;
```

Output

title	popularity	vote_average
Raiders of the Jungle Temple	68.159596	7.7
Minnows	875.581305	6.4
Apocalypse None	49.973462	8
Superhero 23	112.31295	7.6
Billy the Killy	79.754966	7.7
Bang Bang Western	37.380435	7.7
Blade Walker	94.056131	7.9
Swords & Scabbards	123.630332	8.1
Merchandise Vehicle 5	59.995418	7.6
Space Odyssey 6000	86.201184	7.9

USING

Overrides various system configurations for processing a specified query.

The `USING` keyword is required for only the first query override, not for subsequent ones.

For descriptions of the supported query configurations, see the parameter table below.

Syntax

SQL

```
<select_query>
USING
    [ SCHEDULING_PRIORITY = priority_value ]
    [ MAX_ROWS_RETURNED = max_rows ]
    [ MAX_ELAPSED_TIME = max_elapsed_time ]
    [ MAX_TEMP_DISK_USAGE = max_temp_disk_usage ]
    [ CACHE_MAX_TIME = cache_max_time ]
    [ CACHE_MAX_BYTES = cache_max_bytes ]
    [ SERVICE CLASS service_class ]
```

Parameters

Parameter	Description
`<select_query>`	A valid `SELECT` query.
`priority_value`	An optional clause that specifies the priority at which the query should run. The priority value is a floating point number, which indicates the priority compared to the other queries. The priority value does not specify any percentage of resources that the query takes or any specific degree of difference between queries. If unspecified, defaults to `SCHEDULING_PRIORITY = 1.0`.
`max_rows`	An optional clause that limits the number of rows returned by a query. If a query exceeds this number of rows, the system kills it. For example, `max_rows_returned = 10` kills any queries returning more than ten rows.
`max_elapsed_time`	An optional clause that limits how long a query can run. If a query exceeds this time limit in seconds, the system kills it. For example, `max_elapsed_time = 10` kills any queries taking longer than 10 seconds.
`max_temp_disk_usage`	An optional clause that limits the percentage of temporary disk used by a query. If a query exceeds this temporary disk limit, the system kills it. For example, `max_temp_disk_usage = 10` kills any queries taking more than 10% of temporary disk space.
`cache_max_time`	An optional clause that affects whether a specified query uses results from the cache rather than executing the query. If there is a cached result with the same query text, executed less than `cache_max_time` seconds ago, the database uses that cached result. The default value is 0, and thus by default, the database does not return any cached results. The cache considers all SQL Nodes, and if a potential cached result is only available on a different SQL Node, the database redirects the query to that node. If you specify the force attribute on the connection, which disables load balancing and redirection, the database considers only cached results on the current node.
`cache_max_bytes`	An optional clause that controls whether the database stores the results of any specified query in the cache. The system stores the results of all queries executed using a service class specifying this attribute in the cache if the result size is smaller than this value. You can determine the size of a result set in bytes by querying the `bytes_returned` field of the `completed_queries` virtual table. The default value is 0, and thus by default, the database does not cache any results. The database caches results in memory on the SQL Nodes. These results are not cached if there is insufficient memory available.
`service_class`	An optional clause at the end of a query that sets a specific service class to run that query. For details, see **CREATE SERVICE CLASS**.

Example

```sql
SELECT * FROM sys.dummy10
USING
    SCHEDULING_PRIORITY = 1.0
    MAX_ROWS_RETURNED = 10
    MAX_ELAPSED_TIME = 10
    MAX_TEMP_DISK_USAGE = 10;
```

Output

```sql
c1
-----------
1
2
3
4
5
6
7
8
9
10
```

TRACE

An optional clause that executes the query, but discards the original result set. Instead, `TRACE` returns a result set of tracing data that describe the execution of the query.

Append the `TRACE` SQL statement to the end of a query. The statement can include optional parameters to control its frequency and level of detail.

To understand the results of this statement, see **TRACE Results**.

> Trace queries have the same effect to the workload as a query run without the clause.

> Contact Ocient Support for guidance in using the TRACE SQL statement.

Syntax

```sql
<select_query> TRACE
    [ FREQUENCY frequency_int ]
    [ RESOLUTION resolution_int ]
```

Parameters

Parameter	Description
`<select_query>`	A valid `SELECT` query.
`frequency_int`	Controls how often the database samples trace events during query execution in milliseconds. If unspecified, defaults to 500 milliseconds.
`resolution_int`	Determines the level of detail captured for a trace or event. If the resolution of a trace is greater than the resolution of an event, the database records the event. If unspecified, defaults to 100 milliseconds.

TRACE Results

Each row of the trace output provides some information about what an operator instance has done in the time between the previous trace sample and the most current sample.

Column	Description
`plan_parent_id`	The UUID of the parent of the operator instance in the query plan. If an operator has multiple parents, this field specifies the UUID of one of the parents.
`plan_op_id`	The UUID of the operator in the query plan.
`operator_type`	The type of operator that the database uses to sample trace events.
`node_id`	The UUID of the node where this operator executes.
`code_id`	The identifier of the VM core where this operator instance executes. Core identifiers are unique for each node.
`op_id`	The identifier of the operator instance. Identifiers are unique for each node.
`time`	The time in milliseconds when the database collects the information for the trace event relative to the start of the query.
`group`	Group related trace events together.
`sample`	The sample of trace event data. For possible values, see the following table.
`value`	The value of trace event data.

Sample and Value Columns

The `sample` and `value` columns describe what occurred in a given trace period.

Sample	Description
`ROWS_IN`	The number of rows an operator instance has read from its children operators.
`ROWS_OUT`	The number of rows the operator instance returns.
`BLOOM_FILTERED_ROWS`	The number of rows that this operator instance discards by using Bloom filters.
`SCHEDULE_CYCLE`	The number of cycles in the schedule for this operator instance.
`OOM_CYCLE`	The number of out-of-memory cycles in the schedule for this operator.
`INITIALIZE`	The time when the database initializes the operator.
`FINALIZE`	The time when the database finalizes the operator.

Example

SQL

```
SELECT * FROM sys.dummy10 TRACE;
```

Output

plan_parent_id	plan_op_id	operator_type	node_id	core_id	op_id	time	group	sample	value
77041d2b-f7ca-49d5-a3f5-4b75b0782ed1	498690cf-4a9b-4c1f-affa-417f31fddc2d	RENAME_OPERATOR	08ca7b05-1e4d-455f-9f46-2174ed048d33	4	8441	0	xg::db::vm::operators::operatorTraceEvents	ROWS_IN	1
77041d2b-f7ca-49d5-a3f5-4b75b0782ed1	498690cf-4a9b-4c1f-affa-417f31fddc2d	RENAME_OPERATOR	08ca7b05-1e4d-455f-9f46-2174ed048d33	4	8441	0	xg::db::vm::operators::operatorTraceEvents	ROWS_OUT	1
77041d2b-f7ca-49d5-a3f5-4b75b0782ed1	498690cf-4a9b-4c1f-affa-417f31fddc2d	RENAME_OPERATOR	08ca7b05-1e4d-455f-9f46-2174ed048d33	4	8441	0	xg::db::vm::operators::operatorTraceEvents	BLOOM_FILTERED_ROWS	0

TAG

An optional clause that adds one or more tags to the SQL query. You can also add tags to a common table expression in the `WITH` clause. After you define tags, you can find them in the `sys.queries` and `sys.completed_queries` system catalog tables.

Syntax

SQL

```
<select_query> <tag> [ ... ]

<tag> ::= TAG <tag_identifier>
```

Parameters

Parameter	Description
`<select_query>`	A valid `SELECT` query.
`tag_identifier`	Identifier of the tag for the query. Enclose the identifier in double quotes if it contains any special characters, such as spaces.

Examples

SQL Query with One Tag

Select the count of a table with one row and tag the query with the name `count1`.

SQL

```
SELECT COUNT(*) FROM sys.dummy1 TAG count1;
```

SQL Query with Multiple Tags

Select the device model and tag this query with two names `device_model` and `phones`.

SQL

```
SELECT device_model
FROM system.adtech_flat
LIMIT 1
TAG device_model
TAG phones;
```

Common Table Expression with One Tag

Define a common table expression with the `average_budget` tag. You can also add another tag for the whole query `overall_budget`.

SQL

```
WITH avg_budget_table (average_budget) AS (
    SELECT AVG(budget)
    FROM movies
    TAG average_budget
)
SELECT title,
    budget,
    revenue
FROM movies,
    avg_budget_table
WHERE budget > avg_budget_table.average_budget
TAG overall_budget;
```

String Literals and Escape Sequences

All string literals in SQL statements must be enclosed in single quotes. To use a single quote within a string, you can use another single quote as an escape, `''`.

For other escape sequences, include an `e` character before the string literal, i.e., before the opening single quote. This directs the system to recognize escape sequences in the string literal. This means:

- All single `\` characters in the string now escape themselves.
- Any subsequent character after the `\` is also escaped if it matches an escape sequence (see the table).

If you use escape sequences, be prepared that you might need to alter strings that include `\`, such as directory paths.

Supported Escape Sequences

Escape Sequence	Description
`''`	Single quotation mark
`\"`	Double quotation mark
`\n`	Newline character
`\r`	Carriage return character
`\f`	Form feed character (i.e. page break)
`\b`	Backspace
`\\`	Backslash
`\t`	Tab

Examples

These examples show how the system interprets strings with and without escape sequences.

String Without an Escape Sequence

This example selects the simple string literal `'\my\directory\path'` that does not use escape sequences.

SQL

```sql
SELECT '\my\directory\path';
```

Output: `\my\directory\path`

String With an Escape Sequence

This example selects the simple string literal `'\my\directory\path'` and uses an escape sequence. The result omits the backslashes.

SQL

```sql
SELECT e'\my\directory\path';
```

Output: `mydirectorypath`

String With an Escape Sequence to Retain the Backslashes

This example uses the `'\\my\\directory\\path'` string with an escape sequence to include backslashes in the result.

SQL

```
SELECT e'\\my\\directory\\path';
```

Output: `\my\directory\path`

Escape Sequences with Regular Expressions

> Be careful using escape sequences with strings that also use regular expressions. Escape sequences in SQL syntax override the escape sequences of regular expressions.

In this example, the **REGEXP_SUBSTR** function uses the regular expression `\w+` to match any word characters.

SQL

```
SELECT REGEXP_SUBSTR(
    'abcdefghijklmnopqrstuvwxyz',
    '\w+'
    );
```

Output: `abcdefghijklmnopqrstuvwxyz`

The function behaves differently if the regular expression is an escape sequence because it overrides the `\` character. The regular expression searches only for the character `w`.

SQL

```
SELECT REGEXP_SUBSTR(
    'abcdefghijklmnopqrstuvwxyz',
    e'\w+'
    );
```

Output: `w`

Related Links

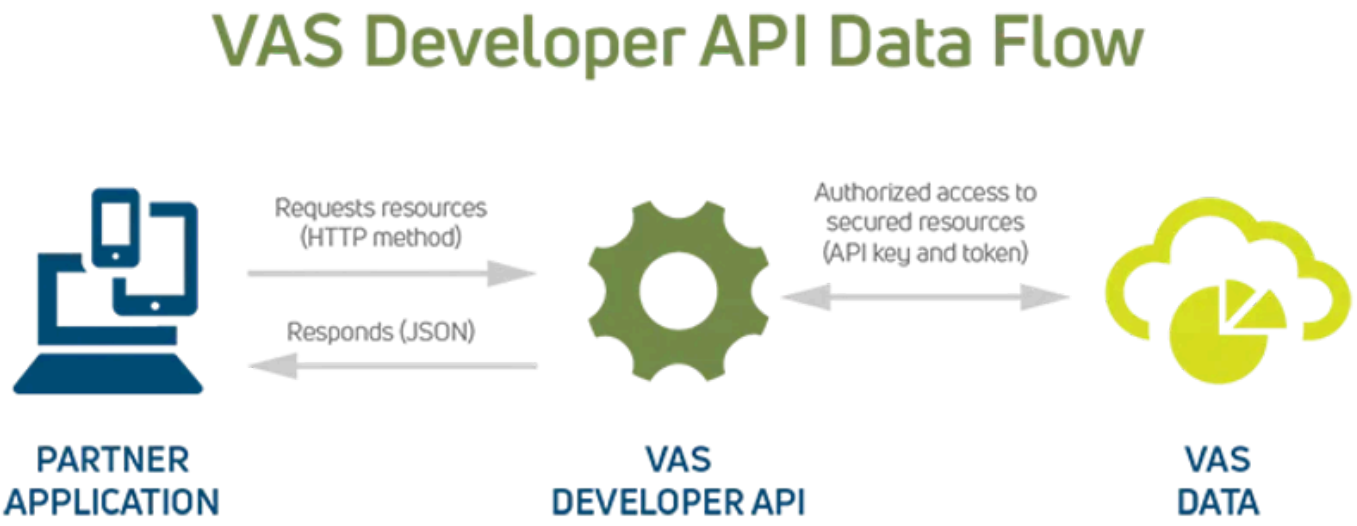
SQL Reference

Data Control Language (DCL) Statement Reference

Data Definition Language (DDL) Statement Reference

39. Broken 2016 iterations

The VAS Developer API requires an API key and OAuth token to authenticate requests, and features a two-layer authentication model to best protect our data and resources:



Credentials to the VAS Developer API are unique to each integration partner. The VAS Integrations team manages and shares your credentials with you during the initial onboarding session. Be sure to keep all credentials and authentication details secure and do not share them in public domains.

Click here for details on generating your OAuth access token!

The VAS Integrations team will share key details to get you started:

- Your `client_id` and `client_secret`, which you need to request a token
- The URL for the request

1. Send your request:

Bash

```
curl --location 'https://auth.prod.vas.com/connect/token' \
--header 'Content-Type: application/x-www-form-urlencoded' \
  --data grant_type=client_credentials \
  --data client_id=your_client_id \
  --data client_secret=your_client_secret \
```

1. Receive your token and expiration details (in seconds) and a `200 OK` response:

Bash

```
{
  "access_token":"abcdef...123456",
  "token_type":"Bearer",
  "expires_in":3599
}
```

NOTE:

- Access tokens are currently configured to expire in 3599 seconds (almost an hour), so your application will need to authenticate hourly.
- If the request fails, verify that your `client_id` and `client_secret` are correct. **Contact us** if you need help!

All VAS Developer API requests must be made to https://, and any calls made to http:// will fail. API requests without the required authentication will also fail.

40. vertical + stuff (cloned)

one

two

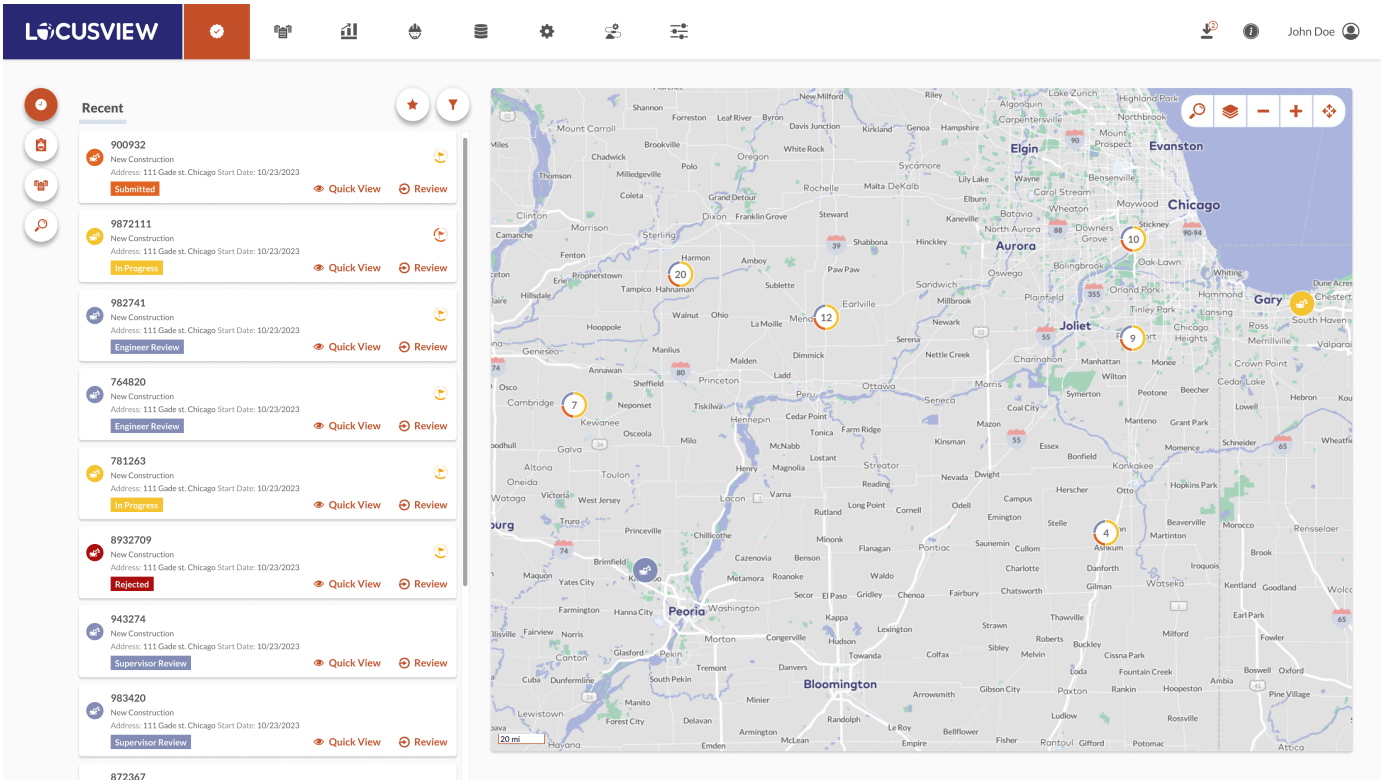
ooo

one

twooo

Titluri kk

Click To Edit Button Label







ooo

aaaa

oko		

aa

a

41. Big curva

Account se misca tot prost tot greu merge avem si titluri aici meam rupe

ia uite acum daca se misca bine, eu nu ma supar aaaaaand stilll working fine...

merge mai lent cumva??eeee altceva, pai nu??aaddeewedefefwfwfffewfwefwefwfwfwfefwef

hmmm unele merg bine, altele rau

Get an Access abia merge mai bine merge parca mai misca si el

sunt un super block si ma super misk

POST https://api.cargoproduce.com/api/account/login nu-i asa?

Request

BODY PARAMETERS

userName some new stuff `String` `required`

rupe si acum abia merge
deee

a
binessss
aaaaaa
dea
dede
fefefe
dedede

ffefefe
dedede
and still
the number one

password `String` `required`

The password of the account

JS

```js
var myHeaders = new Headers();
myHeaders.append("Accept", "application/json");

var requestOptions = {
   method: 'POST',
   headers: myHeaders,
   redirect: 'follow'
};

fetch("https://api.cargoproduce.com/api/account/login", requestOptions)
   .then(response => response.text())
   .then(result => console.log(result))
   .catch(error => console.log('error', error));
```

Responses 401

```
lalala merge mai grey dar aia e
const y = 20
const z = 100
const y = 20
ce testezi tu aici domne?
s-a dus pe pustie
```

Purchase Orders 1243 m-a rupt asta

List Entity specification

Field Name	Description
id	The system identifier for the PO
transportMode greu rau plm are ceva lag...	One of "Land" or "Ocean"
poNumber	The identifier for the PO
referenceNumber	A reference number for the PO that can also be used to identify it
containerIdentifier	An ISO6346 container identifier (e.g. MSCU7459399) for the shipment associated to the PO
importerName	The importer name
exporterName	The exporter name
pallets	The number of pallets for the PO
boxes	The number of boxes for the PO x
weight	The weight for the PO
measurementUnitCode	The measurement unit code for the PO. One of "kg", "tn", "lb".
vesselName	The vessel name for any shipment associated to a PO
originalEta	The first/contractual ETA that was assigned to the PO in local format
originalEtd	The first/contractual ETD that was assigned to the PO in local format The first/contractual eta that was assigned to the PO
eta	The recalculated ETA for the PO, in local format
etd	The recalculated ETD for the PO, in local format
originalEtaUtc The first/contractual ETA that was assigned to the PO	The first/contractual ETA that was assigned to the PO in UTC format
originalEtdUtc	The first/contractual ETD that was assigned to the PO in UTC format The first/contractual ETA that was assigned to the PO The first/contractual ETA that was assigned to the PO in UTC format The first/contractual ETA that was assigned to the PO The first/contractual ETA that was assigned to the PO in UTC format
etaUtc	The recalculated ETA for the PO, in UTC format The recalculated ETA for the PO, in local format The recalculated ETA for the PO, in local format
etdUtc	The recalculated ETD for the PO, in UTC format
ata	The arrival date for the shipment associated to the PO to the Port of Destination in local format
atd	The departure date for the shipment associated to the PO from the Port of Loading in local format

Field Name	Description
	The arrival date for the shipment associated to the PO to the Port of Destination in local format
ataUtc	The arrival date for the shipment associated to the PO to the Port of Destination in UTC format
atdUtc	The departure date for the shipment associated to the PO from the Port of Loading in UTC format
portOfOriginCode	A 5 digit LOCODE for the port of origin (e.g. CLSAI)
portOfOriginPlaceName	The port of origin name
portOfOriginTimezoneOffset	Hours offset from UTC for the port of origin
portOfOriginTimezoneName	The timezone name for the port of origin
portOfDestinationCode	A 5 digit LOCODE for the port of destination (e.g. CLSAI)
portOfDestinationPlaceName	The port of destination name
portOfDestinationTimezoneOffset	Hours offset from UTC for the port of destination Hours offset from UTC for the port of origin Hours offset from UTC for the port of origin
portOfDestinationTimezoneName	The timezone name for the port of destination The timezone name for the port of origin
status	The status of the PO. One of 'PendingDetailsUpload', 'DetailsUploaded', 'InTransit', 'Arrived', 'Complete'
bookingNumber	The booking number for the shipment associated to the PO
billOfLading	The bill of lading number for the shipment associated to the PO The booking number for the shipment associated to the PO
hasDocumentationPendingToUpload	The PO has documentation (required or optional) pending to upload
hasDocumentationPendingToSendForReview	The PO has documentation that is pending to review
hasRequiredDocumentationPendingToUpload	The PO has required documentation pending to upload
hasRequiredDocumentationPendingToSendForReview	The PO has required documentation pending to send for reviewwwww
hasDocumentationChangesRequested	The PO has documentation changes requested
hasDocumentationPendingToReview	The PO has documentation that is pending to review
hasRequiredDocumentationApproved	The PO has all required documentation approved
hasAllDocumentationApproved	The PO has all documentation approved
customFields	A list of custom fields and their values

Get Purchase Orders

Gets a list of purchase orders according to the filter criteria

`GET` https://api.cargoproduce.com/api/ExternalPos

Request

QUERY PARAMETERS

poIds `Array` optional

An array of PO ids to get

transportMode `String` optional

A transport mode, can either be 'Ocean' or 'Land'

containerIdentifier `String` optional

An ISO6346 container identifier (e.g. MSCU7459399) for any shipment associated to a PO

importers `Array` optional

An array of Importer identifiers

exporters `Array` optional

An array of Exporter identifiers

vesselName `String` optional

Name of the vessel for any shipment associated to a PO

etdFrom `String` optional

An ISO date string that represents the minimum ETD for which to filter PO's

etdTo `String` optional

An ISO date string that represents the maximum ETD for which to filter PO's

portOfOriginCode `String` optional

A 5 digit LOCODE for the port of origin (e.g. CLSAI)

portOfDestinationCode String optional

A 5 digit LOCODE for the port of destination (e.g. USPHL)

bookingNumber String optional

A booking number for any shipment associated to a PO

billOfLading Integer optional

A bill of lading number for any shipment associated to a PO

oceanCarrierId Number optional

An ocean carrier identifier for any shipment associated to a PO. For reference use the GET /oceancarriers endpoint.

pageSize Number optional

The page size for the query

pageNumber Number optional

The page number for the query

etaFrom String optional

An ISO date string that represents the minimum ETD for which to filter PO's

etaTo String optional

An ISO date string that represents the maximum ETD for which to filter PO's

poNumber String optional

The po number

HEADER PARAMETERS

Authentication String optional

The access token is specified here.
e.g. Bearer <token>

JS

```js
var myHeaders = new Headers();
myHeaders.append("Accept", "application/json");
myHeaders.append("Authentication", "Bearer <API Token>");

var requestOptions = {
    merge: 'dar nu prea',
   method: 'GET',
   headers: myHeaders
   redirect: 'follow'
};

fetch("https://api.cargoproduce.com/api/ExternalPos?pageSize=20", requestOptions)
   .then(response => response.text())
   .then(result => console.log(result))
   .catch(error => console.log('error', error));
```

Responses	200

```
{
   "items":[
   const: "hello:,
      {
         "id":1004,
         "transportMode":"Ocean",
         "poNumber":"TEST2312-1",
         "importerName":"Demo Importer NL",
         "exporterName":"Demo Exporter US",
         "boxes":960,
         "weight":18240.0,
         "measurementUnitCode":"Kg",
         "originalEtd":"2022-01-05T19:24:30",
         "originalEta":"2022-02-05T19:24:33",
         "etd":"2022-01-05T19:24:30",
         "eta":"2022-02-05T19:24:33",
         "etdUtc":"2022-01-06T03:24:30Z",
         "etaUtc":"2022-02-05T18:24:33Z",
         "firstEtd":"2022-01-05T19:24:30",
         "firstEta":"2022-02-05T19:24:33",
         "firstEtdUtc":"2022-01-06T03:24:30Z",
         "firstEtaUtc":"2022-02-05T18:24:33Z",
         "portOfOriginCode":"USLAX",
         "portOfDestinationCode":"NLRTM",
         "portOfOriginPlaceName":"Los Angeles",
         "portOfOriginTimezoneOffset":-8.0,
         "portOfOriginTimezoneName":"Pacific Standard Time",
         "portOfDestinationPlaceName":"Rotterdam",
         "portOfDestinationTimezoneOffset":1.0,
         "portOfDestinationTimezoneName":"Central European Standard Time",
         "status":"PendingDetailsUpload",
         "referenceNumber":"23/12",
         "hasDocumentationPendingToUpload":false,
         "hasDocumentationPendingToSendForReview":false,
         "hasRequiredDocumentationPendingToUpload":false,
         "hasRequiredDocumentationPendingToSendForReview":true,
         "hasDocumentationChangesRequested":false,
         "hasDocumentationPendingToReview":false,
         "hasRequiredDocumentationApproved":true,
         "hasAllDocumentationApproved":true,
         "etaUnknown":false
      },
      {
         "id":1005,
         "transportMode":"Ocean",
         "poNumber":"TEST2312-2",
         "importerName":"Demo Importer NL",
         "exporterName":"Demo Exporter US",
         "boxes":960,
         "weight":18240.0,
         "measurementUnitCode":"Kg",
         "originalEtd":"2022-01-02T19:35:23",
         "originalEta":"2022-02-10T21:35:27",
         "etd":"2022-01-02T19:35:23",
         "eta":"2022-02-10T21:35:27",
         "etdUtc":"2022-01-03T00:35:23Z",
```

```
      "etaUtc":"2022-02-10T20:35:27Z",
      "firstEtd":"2022-01-02T19:35:23",
      "firstEta":"2022-02-10T21:35:27",
      "firstEtdUtc":"2022-01-03T00:35:23Z",
      "firstEtaUtc":"2022-02-10T20:35:27Z",
      "portOfOriginCode":"USPHL",
      "portOfDestinationCode":"NLAMS",
      "portOfOriginPlaceName":"Philadelphia",
      "portOfOriginTimezoneOffset":-5.0,
      "portOfOriginTimezoneName":"Eastern Standard Time",
      "portOfDestinationPlaceName":"Amsterdam",
      "portOfDestinationTimezoneOffset":1.0,
      "portOfDestinationTimezoneName":"Central European Standard Time",
      "status":"PendingDetailsUpload",
      "referenceNumber":"23/12",
      "hasDocumentationPendingToUpload":false,
      "hasDocumentationPendingToSendForReview":false,
      "hasRequiredDocumentationPendingToUpload":false,
      "hasRequiredDocumentationPendingToSendForReview":true,
      "hasDocumentationChangesRequested":false,
      "hasDocumentationPendingToReview":false,
      "hasRequiredDocumentationApproved":true,
      "hasAllDocumentationApproved":true,
      "etaUnknown":false
   },
   {
      "id":1002,
      "transportMode":"Ocean",
      "poNumber":"TEST1712-5",
      "containerNumber":"BULK-TEST1712-5",
      "importerName":"Demo Importer NL",
      "exporterName":"Demo Exporter US",
      "pallets":20,
      "boxes":960,
      "weight":380.0,
      "measurementUnitCode":"Kg",
      "originalEtd":"2021-12-30T20:39:16",
      "originalEta":"2022-01-31T22:39:19",
      "etd":"2021-12-30T20:39:16",
      "eta":"2022-01-31T22:39:19",
      "etdUtc":"2021-12-31T04:39:16Z",
      "etaUtc":"2022-01-31T21:39:19Z",
      "firstEtd":"2021-12-30T20:39:16",
      "firstEta":"2022-01-31T22:39:19",
      "firstEtdUtc":"2021-12-31T04:39:16Z",
      "firstEtaUtc":"2022-01-31T21:39:19Z",
      "portOfOriginCode":"USLAX",
      "portOfDestinationCode":"NLAMS",
      "portOfOriginPlaceName":"Los Angeles",
      "portOfOriginTimezoneOffset":-8.0,
      "portOfOriginTimezoneName":"Pacific Standard Time",
      "portOfDestinationPlaceName":"Amsterdam",
      "portOfDestinationTimezoneOffset":1.0,
      "portOfDestinationTimezoneName":"Central European Standard Time",
      "status":"DetailsUploaded",
      "hasDocumentationPendingToUpload":false,
      "hasDocumentationPendingToSendForReview":false,
      "hasRequiredDocumentationPendingToUpload":false,
      "hasRequiredDocumentationPendingToSendForReview":true,
```

```
      "hasDocumentationChangesRequested":false,
      "hasDocumentationPendingToReview":false,
      "hasRequiredDocumentationApproved":true,
      "hasAllDocumentationApproved":true,
      "oceanInsightsSubscription":{
         "created":"0001-01-01T00:00:00+00:00",
         "id":0,
         "on_hold":false,
         "status":"New",
         "status_verbose":"{\"non_field_errors\":[\"This carrier doesn't support requests by container numbers: ACL\"]}",
         "suspicious_key":false,
         "eta_was_overriden":false,
         "risk_was_overriden":false,
         "vessel_was_overriden":false,
         "subscription_disabled":false,
         "events_disabled":false,
         "transshipment_ports_were_overriden":false,
         "eta_unknown":false,
         "ignore_shipment_alerts":false
      },
      "etaUnknown":false
   },
   {
      "id":1000,
      "transportMode":"Ocean",
      "poNumber":"TEST1712-3",
      "containerNumber":"MMAU1036493",
      "importerName":"Demo Importer NL",
      "exporterName":"Demo Exporter US",
      "pallets":20,
      "boxes":960,
      "weight":380.0,
      "measurementUnitCode":"Kg",
      "originalEtd":"2021-12-29T19:49:53",
      "originalEta":"2022-02-05T21:49:56",
      "etd":"2021-12-29T19:49:53",
      "eta":"2022-02-05T21:49:56",
      "etdUtc":"2021-12-30T03:49:53Z",
      "etaUtc":"2022-02-05T20:49:56Z",
      "firstEtd":"2021-12-29T19:49:53",
      "firstEta":"2022-02-05T21:49:56",
      "firstEtdUtc":"2021-12-30T03:49:53Z",
      "firstEtaUtc":"2022-02-05T20:49:56Z",
      "portOfOriginCode":"USLAX",
      "portOfDestinationCode":"NLAMS",
      "portOfOriginPlaceName":"Los Angeles",
      "portOfOriginTimezoneOffset":-8.0,
      "portOfOriginTimezoneName":"Pacific Standard Time",
      "portOfDestinationPlaceName":"Amsterdam",
      "portOfDestinationTimezoneOffset":1.0,
      "portOfDestinationTimezoneName":"Central European Standard Time",
      "status":"DetailsUploaded",
      "referenceNumber":"2734",
      "hasDocumentationPendingToUpload":true,
      "hasDocumentationPendingToSendForReview":false,
      "hasRequiredDocumentationPendingToUpload":false,
      "hasRequiredDocumentationPendingToSendForReview":false,
      "hasDocumentationChangesRequested":false,
      "hasDocumentationPendingToReview":false,
```

```
      "hasRequiredDocumentationApproved":false,
      "hasAllDocumentationApproved":false,
      "oceanInsightsSubscription":{
         "contractual_eta_pod":"2022-02-05T00:00:00+00:00",
         "contractual_etd_pol":"2021-12-30T00:00:00+00:00",
         "created":"2021-12-17T20:56:00+00:00",
         "descriptive_name":"PoId-1000",
         "id":28091053,
         "modified":"2021-12-17T20:56:00+00:00",
         "on_hold":false,
         "owner_internal_id":19,
         "request_carrier_name":"Maersk",
         "request_key":"MMAU1036493",
         "request_type":"c_id",
         "status":"New",
         "status_verbose":"new",
         "suspicious_key":false,
         "url":"https://capi.ocean-insights.com/containertracking/v2/subscriptions/28091053/",
         "eta_was_overriden":false,
         "risk_was_overriden":false,
         "vessel_was_overriden":false,
         "subscription_disabled":false,
         "events_disabled":false,
         "transshipment_ports_were_overriden":false,
         "eta_unknown":false,
         "ignore_shipment_alerts":false
      },
      "etaUnknown":false
   },
   {
      "id":1003,
      "transportMode":"Ocean",
      "poNumber":"TEST1712-6",
      "containerNumber":"BULK-TEST1712-6",
      "importerName":"Demo Importer US",
      "exporterName":"Demo Exporter PE",
      "pallets":20,
      "boxes":5280,
      "weight":20064.0,
      "measurementUnitCode":"Kg",
      "originalEtd":"2021-12-23T21:42:22",
      "originalEta":"2022-01-12T20:42:25",
      "etd":"2021-12-23T21:42:22",
      "eta":"2022-01-12T20:42:25",
      "etdUtc":"2021-12-24T02:42:22Z",
      "etaUtc":"2022-01-13T04:42:25Z",
      "firstEtd":"2021-12-23T21:42:22",
      "firstEta":"2022-01-12T20:42:25",
      "firstEtdUtc":"2021-12-24T02:42:22Z",
      "firstEtaUtc":"2022-01-13T04:42:25Z",
      "portOfOriginCode":"PEPAI",
      "portOfDestinationCode":"USLAX",
      "portOfOriginPlaceName":"Paita",
      "portOfOriginTimezoneOffset":-5.0,
      "portOfOriginTimezoneName":"Peru Standard Time",
      "portOfDestinationPlaceName":"Los Angeles",
      "portOfDestinationTimezoneOffset":-8.0,
      "portOfDestinationTimezoneName":"Pacific Standard Time",
      "status":"DetailsUploaded",
```

```
      "hasDocumentationPendingToUpload":true,
      "hasDocumentationPendingToSendForReview":false,
      "hasRequiredDocumentationPendingToUpload":true,
      "hasRequiredDocumentationPendingToSendForReview":false,
      "hasDocumentationChangesRequested":false,
      "hasDocumentationPendingToReview":false,
      "hasRequiredDocumentationApproved":false,
      "hasAllDocumentationApproved":false,
      "oceanInsightsSubscription":{
         "created":"0001-01-01T00:00:00+00:00",
         "id":0,
         "on_hold":false,
         "status":"New",
         "status_verbose":"{\"non_field_errors\":[\"Not a valid container number: BULKTEST17126\"]}",
         "suspicious_key":false,
         "eta_was_overriden":false,
         "risk_was_overriden":false,
         "vessel_was_overriden":false,
         "subscription_disabled":false,
         "events_disabled":false,
         "transshipment_ports_were_overriden":false,
         "eta_unknown":false,
         "ignore_shipment_alerts":false
      },
      "etaUnknown":false
   },
   {
      "id":998,
      "transportMode":"Ocean",
      "poNumber":"TEST1712",
      "importerName":"Demo Importer NL",
      "exporterName":"Demo Exporter US",
      "boxes":960,
      "weight":18240.0,
      "measurementUnitCode":"Kg",
      "originalEtd":"2021-12-23T14:04:58",
      "originalEta":"2022-01-28T14:05:01",
      "etd":"2021-12-23T14:04:58",
      "eta":"2022-01-28T14:05:01",
      "etdUtc":"2021-12-23T22:04:58Z",
      "etaUtc":"2022-01-28T13:05:01Z",
      "firstEtd":"2021-12-23T14:04:58",
      "firstEta":"2022-01-28T14:05:01",
      "firstEtdUtc":"2021-12-23T22:04:58Z",
      "firstEtaUtc":"2022-01-28T13:05:01Z",
      "portOfOriginCode":"USLAX",
      "portOfDestinationCode":"NLRTM",
      "portOfOriginPlaceName":"Los Angeles",
      "portOfOriginTimezoneOffset":-8.0,
      "portOfOriginTimezoneName":"Pacific Standard Time",
      "portOfDestinationPlaceName":"Rotterdam",
      "portOfDestinationTimezoneOffset":1.0,
      "portOfDestinationTimezoneName":"Central European Standard Time",
      "status":"PendingDetailsUpload",
      "hasDocumentationPendingToUpload":true,
      "hasDocumentationPendingToSendForReview":false,
      "hasRequiredDocumentationPendingToUpload":false,
      "hasRequiredDocumentationPendingToSendForReview":false,
      "hasDocumentationChangesRequested":false,
```

```
            "hasDocumentationPendingToReview":false,
            "hasRequiredDocumentationApproved":false,
            "hasAllDocumentationApproved":false,
            "etaUnknown":false
        },
        {
            "id":999,
            "transportMode":"Ocean",
            "poNumber":"TEST1712-2",
            "importerName":"Demo Importer NL",
            "exporterName":"Demo Exporter US",
            "boxes":960,
            "weight":18240.0,
            "measurementUnitCode":"Kg",
            "originalEtd":"2021-12-22T19:24:10",
            "originalEta":"2022-01-27T19:24:13",
            "etd":"2021-12-22T19:24:10",
            "eta":"2022-01-27T19:24:13",
            "etdUtc":"2021-12-23T03:24:10Z",
            "etaUtc":"2022-01-27T18:24:13Z",
            "firstEtd":"2021-12-22T19:24:10",
            "firstEta":"2022-01-27T19:24:13",
            "firstEtdUtc":"2021-12-23T03:24:10Z",
            "firstEtaUtc":"2022-01-27T18:24:13Z",
            "portOfOriginCode":"USLAX",
            "portOfDestinationCode":"NLRTM",
            "portOfOriginPlaceName":"Los Angeles",
            "portOfOriginTimezoneOffset":-8.0,
            "portOfOriginTimezoneName":"Pacific Standard Time",
            "portOfDestinationPlaceName":"Rotterdam",
            "portOfDestinationTimezoneOffset":1.0,
            "portOfDestinationTimezoneName":"Central European Standard Time",
            "status":"PendingDetailsUpload",
            "referenceNumber":"17/12",
            "hasDocumentationPendingToUpload":false,
            "hasDocumentationPendingToSendForReview":false,
            "hasRequiredDocumentationPendingToUpload":false,
            "hasRequiredDocumentationPendingToSendForReview":true,
            "hasDocumentationChangesRequested":false,
            "hasDocumentationPendingToReview":false,
            "hasRequiredDocumentationApproved":true,
            "hasAllDocumentationApproved":true,
            "etaUnknown":false
        },
        {
            "id":996,
            "transportMode":"Ocean",
            "poNumber":"TEST1412-2",
            "importerName":"Demo Importer US",
            "exporterName":"Demo Exporter PE",
            "boxes":5280,
            "weight":20064.0,
            "measurementUnitCode":"Kg",
            "originalEtd":"2021-12-22T13:56:45",
            "originalEta":"2022-01-14T12:56:49",
            "etd":"2021-12-22T13:56:45",
            "eta":"2022-01-14T12:56:49",
            "etdUtc":"2021-12-22T18:56:45Z",
            "etaUtc":"2022-01-14T20:56:49Z",
```

```
      "firstEtd":"2021-12-22T13:56:45",
      "firstEta":"2022-01-14T12:56:49",
      "firstEtdUtc":"2021-12-22T18:56:45Z",
      "firstEtaUtc":"2022-01-14T20:56:49Z",
      "portOfOriginCode":"PEPAI",
      "portOfDestinationCode":"USLAX",
      "portOfOriginPlaceName":"Paita",
      "portOfOriginTimezoneOffset":-5.0,
      "portOfOriginTimezoneName":"Peru Standard Time",
      "portOfDestinationPlaceName":"Los Angeles",
      "portOfDestinationTimezoneOffset":-8.0,
      "portOfDestinationTimezoneName":"Pacific Standard Time",
      "status":"PendingDetailsUpload",
      "tags":[
         {
            "id":13,
            "tagText":"Repack"
         }
      ],
      "hasDocumentationPendingToUpload":true,
      "hasDocumentationPendingToSendForReview":false,
      "hasRequiredDocumentationPendingToUpload":true,
      "hasRequiredDocumentationPendingToSendForReview":false,
      "hasDocumentationChangesRequested":false,
      "hasDocumentationPendingToReview":true,
      "hasRequiredDocumentationApproved":false,
      "hasAllDocumentationApproved":false,
      "etaUnknown":false
   },
   {
      "id":1001,
      "transportMode":"Ocean",
      "poNumber":"TEST1712-4",
      "containerNumber":"MMAU1786326",
      "importerName":"Demo Importer NL",
      "exporterName":"Demo Exporter US",
      "pallets":20,
      "boxes":960,
      "weight":380.0,
      "measurementUnitCode":"Kg",
      "originalEtd":"2021-12-21T19:58:00",
      "originalEta":"2022-01-31T19:58:03",
      "etd":"2021-12-21T19:58:00",
      "eta":"2022-01-31T19:58:03",
      "etdUtc":"2021-12-22T03:58:00Z",
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           "status_verbose":"new",
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            {
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Post Purchase Order

Creates a Purchase Order

POST https://api.cargoproduce.com/api/ExternalPos/Grouped

Request

BODY PARAMETERS

poNumber String required

The identifier for the PO

referenceNumber String optional

A reference number/identifier for the PO, which could be used instead of the Po Number for display.

exporterName String required

The exporter unique name

importerName String required

The importer unique name

consigneeName String optional

The importer unique name which acts as consignee

transportMode String required

One of 'Land', 'Ocean'

portOfOriginCode String required

A 5 digit LOCODE for the port of origin (e.g. CLSAI)

portOfDestinationCode String required

A 5 digit LOCODE for the port of destination (e.g. CLSAI)

originCustomBrokerName String optional

The unique name for the origin custom broker

destinationCustomBrok... String optional

The unique name for the destination custom broker

poLines Array optional

These correspond to the request that was made in the PO. It is used to compare against the packing list and determine if what was requested matches what is going to be delivered

.skuName String required

The unique sku name for the po line

.pricePerBox Number optional

The price per box for the sku

.boxes Integer optional

The quantity of boxes for the requested sku

.pallets Integer optional

The pallet quantity for the requested sku. (only applies to palletized loads

.pricePerMeasurementU... Number optional

The price per measurement unit used for the sku (e.g. price per kg)

.measurementUnitCode String optional

The measurement unit code for the sku (e.g. kg)

.weight Number optional

The total weight for the requested sku

packingListLines Array optional

Represents each line of the packing list. It is compared against the poLines.

.skuName String required

The sku name for that packing list line

.boxes `Integer` optional

The boxes for the packing list line. (Required when the load is non-palletized and package based)

.weight `Number` optional

The weight for the packing list line

.measurementUnitCode `String` optional

The measurement unit code for the sku (e.g. kg)

.palletNumber `String` optional

The pallet number for the packing list line. (Required when the Load is Palletized).

.packingDate `String` optional

The packing date

plannedEta `String` optional

The planned eta for the PO

plannedEtd `String` optional

The planned etd for the PO

shipments `Array` optional

An array of Loads associated to this PO

.oceanCarrierCode `String` required

The SCAC code of the ocean carrier

.containerIdentifier `String` required

An ISO6346 container identifier (e.g. MSCU7459399) for the load associated to the PO. If the load is a refrigerated container ship, any unique reference number may be used

.isReefer `Boolean` optional

Indicates if the load is a refrigerated container ship

.bookingNumber String optional

A booking number for the load

.billOfLading String optional

A bill of lading for the load

JS

```
var myHeaders = new Headers();
myHeaders.append("Accept", "application/json");
myHeaders.append("Authentication", "Bearer <API Token>");

var raw = "{\"poNumber\":\"ABD1991\", \"transportMode\":\"Ocean\", \"importerId\":4, \"consigneeId\":4,\"exporterId\":5, \"por

var requestOptions = {
   method: 'POST',
   headers: myHeaders,
   body: raw,
   redirect: 'follow'
};

fetch("https://api.cargoproduce.com/api/ExternalPos", requestOptions)
   .then(response => response.text())
   .then(result => console.log(result))
   .catch(error => console.log('error', error));
```

Responses 200

The following method is **deprecated** and will be discountinued for use starting April 15th, 2023.

Post Purchase Order (Deprecated)

Creates a Purchase Order.

POST https://api.cargoproduce.com/api/ExternalPos

Request

BODY PARAMETERS

poNumber String required

The identifier for the PO

referenceNumber String optional

A reference number/identifier for the PO, which could be used instead of the Po Number for display.

exporterName String required

The exporter unique name

importerName String required

The importer unique name

consigneeName String optional

The importer unique name which acts as consignee

transportMode String required

One of 'Land', 'Ocean'

portOfOriginCode String required

A 5 digit LOCODE for the port of origin (e.g. CLSAI)

portOfDestinationCode String required

A 5 digit LOCODE for the port of destination (e.g. CLSAI)

originCustomBrokerName String optional

The unique name for the origin custom broker

destinationCustomBrok... `String` optional

The unique name for the destination custom broker

eta `String` optional

The first/contractual ETA to assign to the container in the PO in local format

etd `String` optional

The first/contractual ETD to assign to the container in the PO in local format

containerIdentifier `String` required

An ISO6346 container identifier (e.g. MSCU7459399) for the shipment associated to the PO

bookingNumber `String` optional

The booking number for the shipment associated to the PO

billOfLading `String` optional

The bill of lading number for the shipment associated to the PO

oceanCarrierCode `String` required

The SCAC code of the ocean carrier

poLines `Array` optional

These correspond to the request that was made in the PO. It is used to compare against the packing list and determine if what was requested matches what is going to be delivered

.skuName `String` required

The unique sku name for the po line

.pricePerBox `Number` optional

The price per box for the sku

.boxes `Integer` optional

The quantity of boxes for the requested sku

.pallets `Integer` optional

The pallet quantity for the requested sku. (only applies to palletized loads

.pricePerMeasurementU... `Number` optional

The price per measurement unit used for the sku (e.g. price per kg)

.measurementUnitCode `String` optional

The measurement unit code for the sku (e.g. kg)

.weight `Number` optional

The total weight for the requested sku

packingListLines `Array` optional

Represents each line of the packing list. It is compared against the poLines.

.skuName `String` required

The sku name for that packing list line

.boxes `Integer` optional

The boxes for the packing list line. (Required when the load is non-palletized and package based)

.weight `Number` optional

The weight for the packing list line

.measurementUnitCode `String` optional

The measurement unit code for the sku (e.g. kg)

.palletNumber `String` optional

The pallet number for the packing list line. (Required when the Load is Palletized).

.packingDate `String` optional

The packing date

plannedEta String optional

The planned eta for the PO

plannedEtd String optional

The planned etd for the PO

vesselName String optional

The vessel name for the container

JS

```
var myHeaders = new Headers();
myHeaders.append("Accept", "application/json");
myHeaders.append("Authentication", "Bearer <API Token>");

var raw = "{\"poNumber\":\"ABD1991\", \"transportMode\":\"Ocean\", \"importerId\":4, \"consigneeId\":4,\"exporterId\":5, \"por

var requestOptions = {
   method: 'POST',
   headers: myHeaders,
   body: raw,
   redirect: 'follow'
};

fetch("https://api.cargoproduce.com/api/ExternalPos", requestOptions)
   .then(response => response.text())
   .then(result => console.log(result))
   .catch(error => console.log('error', error));
```

Responses 200

Upsert Purchase Order

Creates or updates a Purchase Order

POST https://api.cargoproduce.com/api/ExternalPos/Grouped/Upsert

Request

BODY PARAMETERS

poNumber String required

The identifier for the PO

referenceNumber String optional

A reference number/identifier for the PO, which could be used instead of the Po Number for display.

exporterName String required

The exporter unique name

importerName String required

The importer unique name

consigneeName String optional

The importer unique name which acts as consignee

transportMode String required

One of 'Land', 'Ocean'

portOfOriginCode String required

A 5 digit LOCODE for the port of origin (e.g. CLSAI)

portOfDestinationCode String required

A 5 digit LOCODE for the port of destination (e.g. CLSAI)

originCustomBrokerName String optional

The unique name for the origin custom broker

destinationCustomBrok... String optional

The unique name for the destination custom broker

poLines Array optional

These correspond to the request that was made in the PO. It is used to compare against the packing list and determine if what was requested matches what is going to be delivered

.skuName String required

The unique sku name for the po line

.pricePerBox Number optional

The price per box for the sku

.boxes Integer optional

The quantity of boxes for the requested sku

.pallets Integer optional

The pallet quantity for the requested sku. (only applies to palletized loads

.pricePerMeasurementU... Number optional

The price per measurement unit used for the sku (e.g. price per kg)

.measurementUnitCode String optional

The measurement unit code for the sku (e.g. kg)

.weight Number optional

The total weight for the requested sku

packingListLines Array optional

Represents each line of the packing list. It is compared against the poLines.

.skuName String required

The sku name for that packing list line

.boxes `Integer` optional

The boxes for the packing list line. (Required when the load is non-palletized and package based)

.weight `Number` optional

The weight for the packing list line

.measurementUnitCode `String` optional

The measurement unit code for the sku (e.g. kg)

.palletNumber `String` optional

The pallet number for the packing list line. (Required when the Load is Palletized).

.packingDate `String` optional

The packing date

plannedEta `String` optional

The planned eta for the PO

plannedEtd `String` optional

The planned etd for the PO

shipments `Array` optional

An array of Loads associated to this PO

.oceanCarrierCode `String` required

The SCAC code of the ocean carrier

.containerIdentifier `String` required

An ISO6346 container identifier (e.g. MSCU7459399) for the load associated to the PO. If the load is a refrigerated container ship, any unique reference number may be used

.isReefer `Boolean` optional

Indicates if the load is a refrigerated container ship

.bookingNumber String optional

A booking number for the load

.billOfLading String optional

A bill of lading for the load

.courierCompanyAn... ▸ Object optional

Specifies a list of couriers to add to this shipment.

JS

```
var myHeaders = new Headers();
myHeaders.append("Accept", "application/json");
myHeaders.append("Authentication", "Bearer <API Token>");

var raw = "{\"poNumber\":\"ABD1991\", \"transportMode\":\"Ocean\", \"importerId\":4, \"consigneeId\":4,\"exporterId\":5, \"por

var requestOptions = {
   method: 'POST',
   headers: myHeaders,
   body: raw,
   redirect: 'follow'
};

fetch("https://api.cargoproduce.com/api/ExternalPos", requestOptions)
   .then(response => response.text())
   .then(result => console.log(result))
   .catch(error => console.log('error', error));
```

Responses 200

JSON

```
{
   "poNumber":"PONum1",
   "referenceNumber":"",
   "exporterName":"Marama Berries SRL",
   "importerName":"Ozark Marketing SA",
   "transportMode":"Ocean",
   "portOfOriginCode":"PECLL",
   "portOfDestinationCode":"HKHKG",
   "bookingNumber":"",
   "billOfLading":"180-48499780",
   "tags": ["summer-campaign", "summer-fruit"],
   "shipments":[
      {
         "oceanCarrierCode":"SUDU",
         "containerIdentifier":"TEST0000001",
         "bookingNumber":"XWD1AAAA",
         "billOfLading": "180-48499780",
         "vesselName":"MSC LANDRIA",
         "courierCompanyAndTrackingNumbers": [
             {
                 "courierCompany": "DHL",
                 "trackingNumber": 222222
             }
         ]
      },
      {
         "oceanCarrierCode":"SUDU",
         "containerIdentifier":"TEST0000002",
         "eta":"2023-04-06T10:31:31.06837-03:00",
         "etd":"2023-01-06T10:31:31.068372-03:00",
         "bookingNumber":"XWD1AAAA"
      }
   ],
   "poLines":[
      {
         "currency":"EUR",
         "pricePerBox":0,
         "pallets":0,
         "boxes":0,
         "weight":0,
         "pricePerMeasurementUnit":0,
         "measurementUnitCode":"Kg",
         "skuName":"OZM_1.50CO_C44_+12_ST_HP_S/B_THA_A"
      }
   ],
   "packingListLines":[
      {
         "skuName":"OZM_1.50CO_C44_+12_ST_HP_S/B_THA_A",
         "boxes":240,
         "measurementUnitCode":"Kg",
         "weight":2,
         "palletNumber":"F22A00002",
         "packingDate":"2022-05-27T00:00",
         "containerIdentifier": "TEST0000001",
         "codQuality":"A",
         "growerName":"Marama Berries SRL"
```

```
        },
        {
           "skuName":"OZM_1.50CO_C44_+12_ST_HP_S/B_THA_A",
           "boxes":240,
           "measurementUnitCode":"Kg",
           "weight":2,
           "palletNumber":"F22A00003",
           "packingDate":"2022-05-27T00:00",
           "containerIdentifier": "TEST0000001",
           "codQuality":"A",
           "growerName":"Marama Berries SRL"
        },
        {
           "skuName":"OZM_1.50CO_C44_+12_ST_HP_S/B_THA_A",
           "boxes":60,
           "measurementUnitCode":"Kg",
           "weight":2,
           "palletNumber":"F22A00005",
           "packingDate":"2022-05-28T00:00",
           "containerIdentifier": "TEST0000001",
           "codQuality":"A",
           "growerName":"Marama Berries SRL"
        },
        {
           "skuName":"OZM_1.50CO_C44_+12_ST_HP_S/B_THA_A",
           "boxes":150,
           "measurementUnitCode":"Kg",
           "weight":2,
           "palletNumber":"F22A00005",
           "packingDate":"2022-05-28T00:00",
           "containerIdentifier": "TEST0000001",
           "codQuality":"A",
           "growerName":"Marama Berries SRL"
        }
     ],
     "customFields":[
        {
           "fieldName":"Fecha de la orden",
           "value":"2022-05-27T00"
        },
        {
           "fieldName":"Incoterms",
           "value":"FOB"
        },
        {
           "fieldName":"Numero",
           "value":9991
        }
     ]
  }
```


> The following method is **deprecated** and will be discountinued for use starting April 15th, 2023.

Put Purchase Order (Deprecated)

Updates a Purchase Order

PUT https://api.cargoproduce.com/api/ExternalPos/{id}

Request

BODY PARAMETERS

poNumber String required

The identifier for the PO

referenceNumber String optional

A reference number/identifier for the PO, which could be used instead of the Po Number for display.

exporterName String required

The exporter unique name

importerName String required

The importer unique name

consigneeName String optional

The importer unique name which acts as consignee

transportMode String required

One of 'Land', 'Ocean'

portOfOriginCode String required

A 5 digit LOCODE for the port of origin (e.g. CLSAI)

portOfDestinationCode String required

A 5 digit LOCODE for the port of destination (e.g. CLSAI)

originCustomBrokerName String optional

The unique name for the origin custom broker

destinationCustomBrok... `String` optional

The unique name for the destination custom broker

eta `String` optional

The first/contractual ETA to assign to the PO in local format

etd `String` optional

The first/contractual ETD to assign to the PO in local format

containerIdentifier `String` optional

An ISO6346 container identifier (e.g. MSCU7459399) for the shipment associated to the PO

bookingNumber `String` optional

The booking number for the shipment associated to the PO

billOfLading `String` optional

The bill of lading number for the shipment associated to the PO

oceanCarrierCode `String` optional

The SCAC code of the ocean carrier

poLines `Array` optional

These correspond to the request that was made in the PO. It is used to compare against the packing list and determine if what was requested matches what is going to be delivered

.skuName `String` required

The unique sku name for the po line

.pricePerBox `Number` optional

The price per box for the sku

.boxes `Integer` optional

The quantity of boxes for the requested sku

.pallets `Integer` optional

The pallet quantity for the requested sku. (only applies to palletized loads

.pricePerMeasurementU... `Number` optional

The price per measurement unit used for the sku (e.g. price per kg)

.measurementUnitCode `String` optional

The measurement unit code for the sku (e.g. kg)

.weight `Number` optional

The total weight for the requested sku

packingListLines `Array` optional

Represents each line of the packing list. It is compared against the poLines.

.skuName `String` required

The sku name for that packing list line

.boxes `Integer` optional

The boxes for the packing list line. (Required when the load is non-palletized and package based)

.weight `Number` optional

The weight for the packing list line

.measurementUnitCode `String` optional

The measurement unit code for the sku (e.g. kg)

.palletNumber `String` optional

The pallet number for the packing list line. (Required when the Load is Palletized).

.packingDate `String` optional

The packing date

JS

```
var myHeaders = new Headers();
myHeaders.append("Accept", "application/json");
myHeaders.append("Authentication", "Bearer <API Token>");

var raw = "{\"poNumber\":\"ABD1991\", \"transportMode\":\"Ocean\", \"importerId\":4, \"consigneeId\":4,\"exporterId\":5, \"por

var requestOptions = {
   method: 'PUT',
   headers: myHeaders,
   body: raw,
   redirect: 'follow'
};

fetch("https://api.cargoproduce.com/api/ExternalPos/11991", requestOptions)
   .then(response => response.text())
   .then(result => console.log(result))
   .catch(error => console.log('error', error));
```

Responses 200

When creating a PO and specifying at least a `containerIdentifier`

and an `oceanCarrierCode`, an associated Shipment will be created and its tracking will start in the platform. Expect between 8 and 12 hours for the Shipment data to be populated initially.

Request example:

Shipments

List Entity specification

Field Name	Description
id	The system identifier for the shipment
transportMode	One of "Land" or "Ocean"
referenceNumber	A reference number for the PO that can also be used to identify it
containerIdentifier	An ISO6346 container identifier (e.g. MSCU7459399) for the shipment associated to the PO
importerName	The importer name
exporterName	The exporter name
measurementUnitCode	The measurement unit code for the PO. One of "kg", "tn", "lb".
vesselName	The current vessel name for the shipment
originalEta	The first/contractual ETA that was assigned to the shipment in local format
originalEtd	The first/contractual ETD that was assigned to the shipment in local format The first/contractual eta that was assigned to the PO
eta	The recalculated ETA for the shipment, in local format
etd	The recalculated ETD for the shipment, in local format
originalEtaUtc The first/contractual ETA that was assigned to the PO	The first/contractual ETA that was assigned to the shipment in UTC format
originalEtdUtc	The first/contractual ETD that was assigned to the shipment in UTC format The first/contractual ETA that was assigned to the PO The first/contractual ETA that was assigned to the PO in UTC format The first/contractual ETA that was assigned to the PO The first/contractual ETA that was assigned to the PO in UTC format
etaUtc	The recalculated ETA for the shipment, in UTC format The recalculated ETA for the PO, in local format The recalculated ETA for the PO, in local format
etdUtc	The recalculated ETD for the shipment, in UTC format
ata	The arrival date for the shipment in local format
atd	The departure date for the shipment in local format The arrival date for the shipment associated to the PO to the Port of Destination in local format
ataUtc	The arrival date for the shipment associated to the PO to the Port of Destination in UTC format
atdUtc	The departure date for the shipment associated to the PO from the Port of Loading in UTC format
portOfOriginPlaceName	The port of origin name
portOfOriginTimezoneOffset	Hours offset from UTC for the port of origin

Field Name	Description
portOfOriginTimezoneName	The timezone name for the port of origin
portOfDestinationCode	A 5 digit LOCODE for the port of destination (e.g. CLSAI)
portOfDestinationPlaceName	The port of destination name
portOfDestinationTimezoneOffset	Hours offset from UTC for the port of destination Hours offset from UTC for the port of origin Hours offset from UTC for the port of origin
portOfDestinationTimezoneName	The timezone name for the port of destination The timezone name for the port of origin
status	The status of the Shipment:
bookingNumber	The booking number for the shipment
billOfLading	The bill of lading number for the shipment The booking number for the shipment associated to the PO
carrier	The ocean carrier name

Get Shipments

Gets a list of shipments according to the filter criteria

GET https://api.cargoproduce.com/api/Shipments

Request

QUERY PARAMETERS

poIds Array optional

An array of PO ids to get

transportMode String optional

A transport mode, can either be 'Ocean' or 'Land'

containerIdentifier String optional

An ISO6346 container identifier (e.g. MSCU7459399) for any shipment associated to a PO

importers Array optional

An array of Importer identifiers

exporters Array optional

An array of Exporter identifiers

vesselName String optional

Current vessel name for the shipment

etdFrom String optional

An ISO date string that represents the minimum ETD for which to filter shipments

etdTo String optional

An ISO date string that represents the maximum ETD for which to filter shipments

portOfOriginCode String optional

A 5 digit LOCODE for the port of origin (e.g. CLSAI)

portOfDestinationCode String optional

A 5 digit LOCODE for the port of destination (e.g. USPHL)

bookingNumber String optional

A booking number for the shipment

billOfLading Integer optional

A bill of lading number for the shipment

oceanCarrierId Number optional

An ocean carrier identifier for the shipment.
For reference use the GET /oceancarriers endpoint.

pageSize Number optional

The page size for the query

pageNumber Number optional

The page number for the query

etaFrom String optional

An ISO date string that represents the minimum ETD for which to filter shipments

etaTo String optional

An ISO date string that represents the maximum ETD for which to filter shipments

HEADER PARAMETERS

Authentication String required

The access token is specified here.
e.g. Bearer <token>

JS

```
var myHeaders = new Headers();
myHeaders.append("Accept", "application/json");
myHeaders.append("Authentication", "Bearer <API Token>");

var requestOptions = {
   method: 'GET',
   headers: myHeaders
   redirect: 'follow'
};

fetch("https://api.cargoproduce.com/api/Shipments?pageSize=20", requestOptions)sfsdf
   .then(response => response.text())
   .then(result => console.log(result))
   .catch(error => console.log('error', error));
```

Responses	200

```
{
"add":something
"some": stuffi
   "items": adding something
   "const": xxx
      {
         "id":69,
         "reference":"1143757",
         "containerNumber":"MMAU1143757",
         "importerName":"Demo Importer US",
         "exporterName":"Demo Exporter PE",
         "originalEtd":"2021-07-10T13:30:53",
         "originalEtdUtc":"2021-07-10T18:30:53Z",
         "originalEta":"2021-08-15T04:00:19",
         "originalEtaUtc":"2021-08-15T11:00:19Z",
         "etd":"2021-10-05T13:30:53",
         "eta":"2021-11-10T04:00:19",
         "etdUtc":"2021-10-05T18:30:53Z",
         "etaUtc":"2021-11-10T11:00:19Z",
         "delayed":false,
         "containerIdentifier":"MMAU1143757",
         "portOfOriginCode":"PECLL",
         "portOfOriginPlaceName":"Callao",
         "portOfOriginTimezoneName":"Peru Standard Time",
         "portOfOriginTimezoneOffset":-5.0,
         "portOfDestinationCode":"USLAX",
         "portOfDestinationPlaceName":"Los Angeles",
         "portOfDestinationTimezoneName":"Pacific Daylight Time",
         "portOfDestinationTimezoneOffset":-7.0,
         "status":"Loaded",
         "carrier":"SeaLand",
         "transportMode":"Ocean",
         "exceptions":[

         ],
         "pos":[
            {
               "id":109,
               "transportMode":0,
               "cargoProduceCustomerId":0,
               "poNumber":"DM1143757",
               "importerId":0,
               "exporterId":0,
               "status":"Created",
               "bookingNumber":"1143757",
               "etaUnknown":false
            }
         ],
         "skus":[
            {
               "id":35,
               "name":"ARAND CONV NF 12X278 GR (9.8 OZ) MIGHTY ORG"
            }
         ],
         "products":[
            {
```

```
            "productName":"Blueberry",
            "translatedProductName":"Arándano"
         }
      ],
      "importerId":126,
      "exporterId":124,
      "cargoProduceCustomerId":19,
      "tags":[
         {
            "id":12,
            "tagText":"Summer Festival"
         }
      ],
      "oceanInsightsSubscription":{
         "created":"0001-01-01T00:00:00+00:00",
         "id":0,
         "on_hold":false,
         "status":"Active",
         "suspicious_key":false,
         "transshipment_ports":[

         ],
         "time_of_arrival_warning":{
            "risk":"NoRisk",
            "risk_verbose":"No risk",
            "risk_description":"No plausibility issue in schedule, Predicted due to: Statistical / AI prediction",
            "conclusion":"Shipment will probably arrive on time",
            "created":"2021-07-01T13:08:00+00:00",
            "modified":"2021-07-01T19:35:00+00:00"
         },
         "current_vessel_name":"RHINE MAERSK",
         "last_updated":"2021-07-05T13:54:15.747397+00:00",
         "eta_was_overriden":false,
         "risk_was_overriden":false,
         "vessel_was_overriden":false,
         "subscription_disabled":false,
         "events_disabled":false,
         "transshipment_ports_were_overriden":false,
         "eta_unknown":false,
         "ignore_shipment_alerts":false
      },
      "etaUnknown":false,
      "transshipmentPorts":[

      ],
      "oceanCarrierId":5,
      "delayStatus":"Late",
      "countryOfOrigin":"PE",
      "countryOfDestination":"US",
      "vesselName":"RHINE MAERSK",
      "couriers":[
         {
            "courierId":49,
            "companyLogoUrl":"https://cargoproduce-assets.s3.us-west-2.amazonaws.com/CourierLogoImages/DHLIcon.png",
            "trackingNumber":"2173377872",
            "courierDelayStatus":"Unknown",
            "companyName":"DHL"
         }
      ],
```

```
            "lastShipmentLogTimestamp":"2021-10-05T10:30:00Z",
            "numberOfDaysInLastStatus":274,
            "daysOfDelay":87
         },
         {
            "id":64,
            "reference":"1198791",
            "containerNumber":"MMAU1198791",
            "importerName":"Demo Importer CN",
            "exporterName":"Demo Exporter US",
            "originalEtd":"2021-07-07T00:00:53",
            "originalEtdUtc":"2021-07-07T07:00:53Z",
            "originalEta":"2021-08-08T10:00:21",
            "originalEtaUtc":"2021-08-08T02:00:21Z",
            "etd":"2021-10-06T00:00:53",
            "atd":"2021-11-12T07:21:00",
            "eta":"2021-12-09T23:00:00",
            "ata":"2021-12-10T00:37:00",
            "etdUtc":"2021-10-06T07:00:53Z",
            "atdUtc":"2021-11-12T14:21:00Z",
            "etaUtc":"2021-12-09T15:00:00Z",
            "ataUtc":"2021-12-09T16:37:00Z",
            "delayed":false,
            "containerIdentifier":"MMAU1198791",
            "portOfOriginCode":"USSEA",
            "portOfOriginPlaceName":"Seattle",
            "portOfOriginTimezoneName":"Pacific Daylight Time",
            "portOfOriginTimezoneOffset":-7.0,
            "portOfDestinationCode":"CNSHK",
            "portOfDestinationPlaceName":"Shekou Port",
            "portOfDestinationTimezoneName":"China Standard Time",
            "portOfDestinationTimezoneOffset":8.0,
            "status":"GateOutFull",
            "carrier":"MAERSK",
            "transportMode":"Ocean",
            "exceptions":[

            ],
            "pos":[
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                  "id":104,
                  "transportMode":0,
                  "cargoProduceCustomerId":0,
                  "poNumber":"DM1198791",
                  "importerId":0,
                  "exporterId":0,
                  "status":"Created",
                  "bookingNumber":"1198791",
                  "etaUnknown":false
               }
            ],
            "skus":[
               {
                  "id":68,
                  "name":"19 KG carton  First Fruits cal 64 Org"
               }
            ],
            "products":[
               {
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            "productName":"Apple",
            "translatedProductName":"Manzana"
         }
      ],
      "importerId":129,
      "exporterId":125,
      "cargoProduceCustomerId":19,
      "tags":[

      ],
      "oceanInsightsSubscription":{
         "created":"0001-01-01T00:00:00+00:00",
         "id":0,
         "on_hold":false,
         "status":"Active",
         "suspicious_key":false,
         "transshipment_ports":[
            {
               "name":"Puerto Colon",
               "locode":"PAONX",
               "latitude":9.367344,
               "longitude":-79.889856
            }
         ],
         "time_of_arrival_warning":{
            "risk":"NoRisk",
            "risk_verbose":"No risk",
            "risk_description":"No plausibility issue in schedule",
            "conclusion":"Shipment will probably arrive on time",
            "created":"2021-11-22T20:54:00+00:00",
            "modified":"2021-12-03T23:34:00+00:00"
         },
         "current_vessel_name":"SAFMARINE NOKWANDA",
         "last_updated":"2021-12-16T00:47:28.1259024+00:00",
         "eta_was_overriden":false,
         "risk_was_overriden":false,
         "vessel_was_overriden":false,
         "subscription_disabled":false,
         "events_disabled":false,
         "transshipment_ports_were_overriden":false,
         "eta_unknown":false,
         "ignore_shipment_alerts":false
      },
      "etaUnknown":false,
      "transshipmentPorts":[
         {
            "placeName":"Colon, PA",
            "code":"PAONX",
            "latitude":9.35,
            "longitude":-79.87,
            "isNextPot":false
         }
      ],
      "oceanCarrierId":2,
      "delayStatus":"Late",
      "countryOfOrigin":"US",
      "countryOfDestination":"CN",
      "vesselName":"SAFMARINE NOKWANDA",
      "couriers":[
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      ],
      "lastShipmentLogTimestamp":"2021-12-10T10:30:00Z",
      "numberOfDaysInLastStatus":208,
      "daysOfDelay":123
   },
   {
      "id":1601,
      "containerNumber":"MMAU1637267",
      "importerName":"Demo Importer NL",
      "exporterName":"Demo Exporter PE",
      "originalEtd":"2022-02-10T12:00:31",
      "originalEtdUtc":"2022-02-10T17:00:31Z",
      "originalEta":"2022-03-16T12:00:36",
      "originalEtaUtc":"2022-03-16T10:00:36Z",
      "etd":"2022-02-10T12:00:31",
      "eta":"2022-03-16T12:00:36",
      "etdUtc":"2022-02-10T17:00:31Z",
      "etaUtc":"2022-03-16T10:00:36Z",
      "delayed":false,
      "containerIdentifier":"MMAU1637267",
      "portOfOriginCode":"PEPAI",
      "portOfOriginPlaceName":"Paita",
      "portOfOriginTimezoneName":"Peru Standard Time",
      "portOfOriginTimezoneOffset":-5.0,
      "portOfDestinationCode":"NLRTM",
      "portOfDestinationPlaceName":"Rotterdam, NL",
      "portOfDestinationTimezoneName":"Central European Summer Time",
      "portOfDestinationTimezoneOffset":2.0,
      "status":"Created",
      "carrier":"CMA CGM",
      "transportMode":"Ocean",
      "exceptions":[

      ],
      "pos":[
         {
            "id":1550,
            "transportMode":0,
            "cargoProduceCustomerId":0,
            "poNumber":"TEST0202-1",
            "importerId":0,
            "exporterId":0,
            "status":"Created",
            "bookingNumber":"1637267",
            "etaUnknown":false
         },
         {
            "id":1646,
            "transportMode":0,
            "cargoProduceCustomerId":0,
            "poNumber":"TEST0202-1",
            "importerId":0,
            "exporterId":0,
            "status":"Created",
            "bookingNumber":"1637267",
            "etaUnknown":false
         },
         {
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            "id":1896,
            "transportMode":0,
            "cargoProduceCustomerId":0,
            "poNumber":"TEST1603-2",
            "importerId":0,
            "exporterId":0,
            "status":"Created",
            "bookingNumber":"1637267",
            "etaUnknown":false
         }
      ],
      "skus":[
         {
            "id":33,
            "name":"ARAND CONV GRANEL 3,8KN USA ESPECIAL"
         },
         {
            "id":36,
            "name":"ARAND CONV NRF 12X18OZ 7X7 PLANO SAM ORG"
         }
      ],
      "products":[
         {
            "productName":"Blueberry",
            "translatedProductName":"Arándano"
         }
      ],
      "importerId":127,
      "exporterId":124,
      "cargoProduceCustomerId":19,
      "tags":[

      ],
      "oceanInsightsSubscription":{
         "contractual_eta_pod":"2022-03-16T00:00:00+00:00",
         "contractual_etd_pol":"2022-02-10T00:00:00+00:00",
         "created":"2022-03-16T22:02:00+00:00",
         "descriptive_name":"PoId-1646",
         "id":32969805,
         "modified":"2022-03-16T22:02:00+00:00",
         "on_hold":false,
         "owner_internal_id":19,
         "request_carrier_name":"Maersk",
         "request_key":"1637267",
         "request_type":"b_id",
         "status":"New",
         "status_verbose":"new",
         "suspicious_key":true,
         "url":"https://capi.ocean-insights.com/containertracking/v2/subscriptions/32969805/",
         "eta_was_overriden":false,
         "risk_was_overriden":false,
         "vessel_was_overriden":false,
         "subscription_disabled":false,
         "events_disabled":false,
         "transshipment_ports_were_overriden":false,
         "eta_unknown":false,
         "ignore_shipment_alerts":false
      },
      "etaUnknown":false,
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            "transshipmentPorts":[

            ],
            "oceanCarrierId":9,
            "delayStatus":"Unknown",
            "countryOfOrigin":"PE",
            "countryOfDestination":"NL",
            "couriers":[

            ],
            "lastShipmentLogTimestamp":"2022-03-16T22:02:52.717912Z",
            "numberOfDaysInLastStatus":111,
            "daysOfDelay":0
         },
         {
            "id":2193,
            "containerNumber":"MMUU7878654",
            "importerName":"Demo Importer US",
            "exporterName":"Demo Exporter PE",
            "originalEtd":"2022-03-31T20:26:47",
            "originalEtdUtc":"2022-04-01T01:26:47Z",
            "originalEta":"2022-04-06T15:26:49",
            "originalEtaUtc":"2022-04-06T20:26:49Z",
            "etd":"2022-03-31T20:26:47",
            "eta":"2022-04-13T15:26:49",
            "etdUtc":"2022-04-01T01:26:47Z",
            "etaUtc":"2022-04-13T20:26:49Z",
            "delayed":false,
            "containerIdentifier":"MMUU7878654",
            "portOfOriginCode":"PELIM",
            "portOfOriginPlaceName":"Lima,   Peru",
            "portOfOriginTimezoneName":"Peru Standard Time",
            "portOfOriginTimezoneOffset":-5.0,
            "portOfDestinationCode":"USNCM",
            "portOfDestinationPlaceName":"Norco,   United States",
            "portOfDestinationTimezoneName":"Central Daylight Time",
            "portOfDestinationTimezoneOffset":-5.0,
            "status":"Created",
            "carrier":"MAERSK",
            "transportMode":"Ocean",
            "exceptions":[

            ],
            "pos":[
               {
                  "id":2454,
                  "transportMode":0,
                  "cargoProduceCustomerId":0,
                  "poNumber":"TEST3103-16",
                  "importerId":0,
                  "exporterId":0,
                  "status":"Created",
                  "etaUnknown":false
               }
            ],
            "skus":[
               {
                  "id":69,
                  "name":"Avocado Cal 84 - 17 KG"
```

```
            }
         ],
         "products":[
            {
               "productName":"Avocado",
               "translatedProductName":"Palta"
            }
         ],
         "importerId":126,
         "exporterId":124,
         "cargoProduceCustomerId":19,
         "tags":[

         ],
         "oceanInsightsSubscription":{
            "contractual_eta_pod":"2022-04-06T00:00:00+00:00",
            "contractual_etd_pol":"2022-04-01T00:00:00+00:00",
            "created":"2022-03-31T20:27:00+00:00",
            "descriptive_name":"PoId-2454",
            "id":33963291,
            "modified":"2022-03-31T20:27:00+00:00",
            "on_hold":false,
            "owner_internal_id":19,
            "request_carrier_name":"Maersk",
            "request_key":"MMUU7878654",
            "request_type":"c_id",
            "status":"New",
            "status_verbose":"`",
            "suspicious_key":false,
            "url":"https://capi.ocean-insights.com/containertracking/v2/subscriptions/33963291/",
            "eta_was_overriden":false,
            "risk_was_overriden":false,
            "vessel_was_overriden":false,
            "subscription_disabled":false,
            "events_disabled":false,
            "transshipment_ports_were_overriden":false,
            "eta_unknown":false,
            "ignore_shipment_alerts":false,
            "ignored_scrapper_statuses":[

            ]
         },
         "etaUnknown":false,
         "transshipmentPorts":[

         ],
         "oceanCarrierId":2,
         "delayStatus":"Unknown",
         "countryOfOrigin":"PE",
         "countryOfDestination":"US",
         "couriers":[

         ],
         "lastShipmentLogTimestamp":"2022-03-31T20:27:23.461309Z",
         "numberOfDaysInLastStatus":96,
         "daysOfDelay":7
      },
      {
         "id":2192,
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"containerNumber":"MMAU7878999",
"importerName":"Demo Importer US",
"exporterName":"Demo Exporter PE",
"originalEtd":"2022-03-30T16:42:37",
"originalEtdUtc":"2022-03-30T21:42:37Z",
"originalEta":"2022-04-21T16:42:40",
"originalEtaUtc":"2022-04-21T21:42:40Z",
"etd":"2022-03-30T16:42:37",
"eta":"2022-04-21T16:42:40",
"etdUtc":"2022-03-30T21:42:37Z",
"etaUtc":"2022-04-21T21:42:40Z",
"delayed":false,
"containerIdentifier":"MMAU7878999",
"portOfOriginCode":"PELIM",
"portOfOriginPlaceName":"Lima,   Peru",
"portOfOriginTimezoneName":"Peru Standard Time",
"portOfOriginTimezoneOffset":-5.0,
"portOfDestinationCode":"PELIM",
"portOfDestinationPlaceName":"Lima,   Peru",
"portOfDestinationTimezoneName":"Peru Standard Time",
"portOfDestinationTimezoneOffset":-5.0,
"status":"GateOutFull",
"carrier":"MAERSK",
"transportMode":"Ocean",
"exceptions":[

],
"pos":[
   {
      "id":2453,
      "transportMode":0,
      "cargoProduceCustomerId":0,
      "poNumber":"TEST3103",
      "importerId":0,
      "exporterId":0,
      "status":"Created",
      "etaUnknown":false
   }
],
"skus":[
   {
      "id":69,
      "name":"Avocado Cal 84 - 17 KG"
   }
],
"products":[
   {
      "productName":"Avocado",
      "translatedProductName":"Palta"
   }
],
"importerId":126,
"exporterId":124,
"cargoProduceCustomerId":19,
"tags":[

],
"oceanInsightsSubscription":{
   "contractual_eta_pod":"2022-04-21T00:00:00+00:00",
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            "contractual_etd_pol":"2022-03-30T00:00:00+00:00",
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            "descriptive_name":"PoId-2453",
            "id":33957164,
            "modified":"2022-03-31T16:43:00+00:00",
            "on_hold":false,
            "owner_internal_id":19,
            "request_carrier_name":"Maersk",
            "request_key":"MMAU7878999",
            "request_type":"c_id",
            "status":"New",
            "status_verbose":"`",
            "suspicious_key":false,
            "url":"https://capi.ocean-insights.com/containertracking/v2/subscriptions/33957164/",
            "eta_was_overriden":false,
            "risk_was_overriden":false,
            "vessel_was_overriden":false,
            "subscription_disabled":false,
            "events_disabled":false,
            "transshipment_ports_were_overriden":false,
            "eta_unknown":false,
            "ignore_shipment_alerts":false,
            "ignored_scrapper_statuses":[

            ]
         },
         "etaUnknown":false,
         "transshipmentPorts":[

         ],
         "oceanCarrierId":2,
         "delayStatus":"OnTime",
         "countryOfOrigin":"PE",
         "countryOfDestination":"PE",
         "couriers":[

         ],
         "lastShipmentLogTimestamp":"2022-05-20T01:50:35Z",
         "numberOfDaysInLastStatus":47,
         "daysOfDelay":0
      },
      {
         "id":2191,
         "reference":"3103",
         "containerNumber":"MMAU6115246",
         "importerName":"Demo Importer US",
         "exporterName":"Demo Exporter PE",
         "originalEtd":"2022-04-10T15:53:04",
         "originalEtdUtc":"2022-04-10T20:53:04Z",
         "originalEta":"2022-04-30T16:53:09",
         "originalEtaUtc":"2022-04-30T23:53:09Z",
         "etd":"2022-04-10T15:53:04",
         "eta":"2022-04-29T16:53:09",
         "etdUtc":"2022-04-10T20:53:04Z",
         "etaUtc":"2022-04-29T23:53:09Z",
         "delayed":false,
         "containerIdentifier":"MMAU6115246",
         "portOfOriginCode":"PECLL",
         "portOfOriginPlaceName":"Callao",
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"portOfOriginTimezoneName":"Peru Standard Time",
"portOfOriginTimezoneOffset":-5.0,
"portOfDestinationCode":"USLAX",
"portOfDestinationPlaceName":"Los Angeles",
"portOfDestinationTimezoneName":"Pacific Daylight Time",
"portOfDestinationTimezoneOffset":-7.0,
"status":"Created",
"carrier":"MAERSK",
"transportMode":"Ocean",
"exceptions":[

],
"pos":[
   {
      "id":2452,
      "transportMode":0,
      "cargoProduceCustomerId":0,
      "poNumber":"DEMO3103-1",
      "importerId":0,
      "exporterId":0,
      "status":"Created",
      "etaUnknown":false
   }
],
"skus":[
   {
      "id":48,
      "name":"cal 40 cat 1 11.3 kg con PLU - Frutival"
   }
],
"products":[
   {
      "productName":"Avocado",
      "translatedProductName":"Palta"
   }
],
"importerId":126,
"exporterId":124,
"cargoProduceCustomerId":19,
"tags":[

],
"oceanInsightsSubscription":{
   "created":"0001-01-01T00:00:00+00:00",
   "id":0,
   "on_hold":false,
   "status":"New",
   "status_verbose":"`",
   "suspicious_key":false,
   "eta_was_overriden":false,
   "risk_was_overriden":false,
   "vessel_was_overriden":false,
   "subscription_disabled":false,
   "events_disabled":false,
   "transshipment_ports_were_overriden":false,
   "eta_unknown":false,
   "ignore_shipment_alerts":false,
   "ignored_scrapper_statuses":[
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            ]
         },
         "etaUnknown":false,
         "transshipmentPorts":[

         ],
         "oceanCarrierId":2,
         "delayStatus":"Unknown",
         "countryOfOrigin":"PE",
         "countryOfDestination":"US",
         "couriers":[

         ],
         "lastShipmentLogTimestamp":"2022-03-31T15:54:40.717865Z",
         "numberOfDaysInLastStatus":96,
         "daysOfDelay":-1
      },
      {
         "id":3139,
         "containerNumber":"MMAE4545656",
         "importerName":"Demo Importer US",
         "exporterName":"Demo Exporter PE",
         "originalEta":"2022-05-26T14:20:02",
         "originalEtaUtc":"2022-05-26T12:20:02Z",
         "eta":"2022-05-26T14:20:02",
         "etdUtc":"0001-01-01T00:00:00Z",
         "etaUtc":"2022-05-26T12:20:02Z",
         "delayed":false,
         "containerIdentifier":"MMAE4545656",
         "portOfOriginCode":"CYLMS",
         "portOfOriginPlaceName":"Limassol",
         "portOfOriginTimezoneName":"Eastern European Summer Time",
         "portOfOriginTimezoneOffset":3.0,
         "portOfDestinationCode":"ITNAP",
         "portOfDestinationPlaceName":"Napoli",
         "portOfDestinationTimezoneName":"Central European Summer Time",
         "portOfDestinationTimezoneOffset":2.0,
         "status":"Created",
         "carrier":"COSCO",
         "transportMode":"Ocean",
         "exceptions":[

         ],
         "pos":[
            {
               "id":3383,
               "transportMode":0,
               "cargoProduceCustomerId":0,
               "poNumber":"TEST2605-1",
               "importerId":0,
               "exporterId":0,
               "status":"Created",
               "bookingNumber":"",
               "etaUnknown":false,
               "billOfLading":""
            }
         ],
         "skus":[
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            ],
            "products":[

            ],
            "importerId":126,
            "exporterId":124,
            "cargoProduceCustomerId":19,
            "tags":[

            ],
            "oceanInsightsSubscription":{
               "created":"2022-05-26T12:19:00+00:00",
               "descriptive_name":"PoId-3383",
               "id":40540039,
               "modified":"2022-05-26T12:19:00+00:00",
               "on_hold":false,
               "owner_internal_id":19,
               "request_carrier_name":"COSCO",
               "request_key":"MMAE4545656",
               "request_type":"c_id",
               "status":"New",
               "status_verbose":"`",
               "suspicious_key":false,
               "url":"https://capi.ocean-insights.com/containertracking/v2/subscriptions/40540039/",
               "eta_was_overriden":false,
               "risk_was_overriden":false,
               "vessel_was_overriden":false,
               "subscription_disabled":false,
               "events_disabled":false,
               "transshipment_ports_were_overriden":false,
               "eta_unknown":false,
               "ignore_shipment_alerts":false,
               "ignored_scrapper_statuses":[

               ]
            },
            "etaUnknown":false,
            "transshipmentPorts":[

            ],
            "oceanCarrierId":10,
            "delayStatus":"Unknown",
            "countryOfOrigin":"CY",
            "countryOfDestination":"IT",
            "couriers":[

            ],
            "lastShipmentLogTimestamp":"2022-05-26T09:19:24Z",
            "numberOfDaysInLastStatus":41,
            "daysOfDelay":0
         },
         {
            "id":4975,
            "containerNumber":"MMJJ7474854",
            "importerName":"Demo Importer US",
            "exporterName":"Demo Exporter PE",
            "originalEtd":"2022-05-23T18:35:18",
            "originalEtdUtc":"2022-05-23T15:35:18Z",
            "originalEta":"2022-05-31T19:35:23",
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"originalEtaUtc":"2022-05-31T17:35:23Z",
"etd":"2022-05-23T18:35:18",
"eta":"2022-05-31T19:35:23",
"etdUtc":"2022-05-23T15:35:18Z",
"etaUtc":"2022-05-31T17:35:23Z",
"delayed":false,
"containerIdentifier":"MMJJ7474854",
"portOfOriginCode":"CYLMS",
"portOfOriginPlaceName":"Limassol",
"portOfOriginTimezoneName":"Eastern European Summer Time",
"portOfOriginTimezoneOffset":3.0,
"exportersPackingHouseAddressId":406,
"portOfDestinationCode":"ESPXP",
"portOfDestinationPlaceName":"Paiporta",
"portOfDestinationTimezoneName":"Central European Summer Time",
"portOfDestinationTimezoneOffset":2.0,
"status":"Created",
"carrier":"CMA CGM",
"transportMode":"Ocean",
"exceptions":[

],
"pos":[
   {
      "id":5478,
      "transportMode":0,
      "cargoProduceCustomerId":0,
      "poNumber":"TEST2305-3",
      "importerId":0,
      "exporterId":0,
      "status":"Created",
      "etaUnknown":false
   }
],
"skus":[

],
"products":[

],
"importerId":126,
"exporterId":124,
"cargoProduceCustomerId":19,
"tags":[

],
"oceanInsightsSubscription":{
   "contractual_eta_pod":"2022-05-31T00:00:00+00:00",
   "contractual_etd_pol":"2022-05-23T00:00:00+00:00",
   "created":"2022-07-08T20:40:00+00:00",
   "descriptive_name":"PoId-5478",
   "id":42957472,
   "modified":"2022-07-08T20:40:00+00:00",
   "on_hold":false,
   "owner_internal_id":19,
   "request_carrier_name":"CMA CGM",
   "request_key":"MMJJ7474854",
   "request_type":"c_id",
   "status":"New",
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            "status_verbose":"new",
            "suspicious_key":false,
            "url":"https://capi.ocean-insights.com/containertracking/v2/subscriptions/42957472/",
            "eta_was_overriden":false,
            "risk_was_overriden":false,
            "vessel_was_overriden":false,
            "subscription_disabled":false,
            "events_disabled":false,
            "transshipment_ports_were_overriden":false,
            "eta_unknown":false,
            "ignore_shipment_alerts":false
         },
         "etaUnknown":false,
         "transshipmentPorts":[

         ],
         "oceanCarrierId":9,
         "delayStatus":"Unknown",
         "countryOfOrigin":"CY",
         "countryOfDestination":"ES",
         "couriers":[

         ],
         "lastShipmentLogTimestamp":"2022-07-08T20:40:12.763664Z",
         "numberOfDaysInLastStatus":0,
         "daysOfDelay":0
      },
      {
         "id":4974,
         "containerNumber":"LPQT1414454",
         "importerName":"Demo Importer US",
         "exporterName":"Demo Exporter PE",
         "originalEtd":"2022-05-23T21:35:18",
         "originalEtdUtc":"2022-05-23T18:35:18Z",
         "originalEta":"2022-05-31T21:35:23",
         "originalEtaUtc":"2022-05-31T19:35:23Z",
         "etd":"2022-05-23T21:35:18",
         "eta":"2022-05-31T21:35:23",
         "etdUtc":"2022-05-23T18:35:18Z",
         "etaUtc":"2022-05-31T19:35:23Z",
         "delayed":false,
         "containerIdentifier":"LPQT1414454",
         "portOfOriginCode":"CYLMS",
         "portOfOriginPlaceName":"Limassol",
         "portOfOriginTimezoneName":"Eastern European Summer Time",
         "portOfOriginTimezoneOffset":3.0,
         "exportersPackingHouseAddressId":406,
         "portOfDestinationCode":"ESPXP",
         "portOfDestinationPlaceName":"Paiporta",
         "portOfDestinationTimezoneName":"Central European Summer Time",
         "portOfDestinationTimezoneOffset":2.0,
         "status":"Created",
         "carrier":"CMA CGM",
         "transportMode":"Ocean",
         "exceptions":[

         ],
         "pos":[
            {
```

```
            "id":3316,
            "transportMode":0,
            "cargoProduceCustomerId":0,
            "poNumber":"TEST2305-2",
            "importerId":0,
            "exporterId":0,
            "status":"Created",
            "etaUnknown":false
         }
      ],
      "skus":[

      ],
      "products":[

      ],
      "importerId":126,
      "exporterId":124,
      "cargoProduceCustomerId":19,
      "tags":[

      ],
      "oceanInsightsSubscription":{
         "contractual_eta_pod":"2022-05-31T00:00:00+00:00",
         "contractual_etd_pol":"2022-05-23T00:00:00+00:00",
         "created":"2022-07-08T20:31:00+00:00",
         "descriptive_name":"PoId-3316",
         "id":42957267,
         "modified":"2022-07-08T20:31:00+00:00",
         "on_hold":false,
         "owner_internal_id":19,
         "request_carrier_name":"CMA CGM",
         "request_key":"LPQT1414454",
         "request_type":"c_id",
         "status":"New",
         "status_verbose":"new",
         "suspicious_key":false,
         "url":"https://capi.ocean-insights.com/containertracking/v2/subscriptions/42957267/",
         "eta_was_overriden":false,
         "risk_was_overriden":false,
         "vessel_was_overriden":false,
         "subscription_disabled":false,
         "events_disabled":false,
         "transshipment_ports_were_overriden":false,
         "eta_unknown":false,
         "ignore_shipment_alerts":false
      },
      "etaUnknown":false,
      "transshipmentPorts":[

      ],
      "oceanCarrierId":9,
      "delayStatus":"Unknown",
      "countryOfOrigin":"CY",
      "countryOfDestination":"ES",
      "couriers":[

      ],
      "lastShipmentLogTimestamp":"2022-07-08T20:31:54.335502Z",
```

```
      "numberOfDaysInLastStatus":0,
      "daysOfDelay":0
   },
   {
      "id":4978,
      "containerNumber":"MSCU7459399",
      "importerName":"Demo Importer US",
      "exporterName":"Demo Exporter PE",
      "originalEtd":"2022-07-11T16:53:15",
      "originalEtdUtc":"2022-07-11T20:53:15Z",
      "originalEta":"2022-07-22T16:53:17",
      "originalEtaUtc":"2022-07-22T20:53:17Z",
      "etd":"2022-07-11T16:53:15",
      "eta":"2022-07-22T16:53:17",
      "etdUtc":"2022-07-11T20:53:15Z",
      "etaUtc":"2022-07-22T20:53:17Z",
      "delayed":false,
      "containerIdentifier":"MSCU7459399",
      "portOfOriginCode":"CLSAI",
      "portOfOriginPlaceName":"San Antonio, CL",
      "portOfOriginTimezoneName":"Chile Standard Time",
      "portOfOriginTimezoneOffset":-4.0,
      "portOfDestinationCode":"USPHL",
      "portOfDestinationPlaceName":"Philadelphia",
      "portOfDestinationTimezoneName":"Eastern Daylight Time",
      "portOfDestinationTimezoneOffset":-4.0,
      "status":"Created",
      "carrier":"CMA CGM",
      "transportMode":"Ocean",
      "exceptions":[

      ],
      "pos":[
         {
            "id":5485,
            "transportMode":0,
            "cargoProduceCustomerId":0,
            "poNumber":"ABC9992",
```


Importers

POST Importers

Create an Importer in Cargo Produce

POST https://api.cargoproduce.com/api/Importers

Request

BODY PARAMETERS

name	String	required

The unique name of the importer

countryCode	String	required

The 2 digit ISO country code for the importer

exporters	Array	optional

Array of exporter ids that will be related to this importer

JS

```
var myHeaders = new Headers();
myHeaders.append("Accept", "application/json");
myHeaders.append("Authentication", "Bearer <API Token>");

var raw = "{\"name\":\"A New Importer\", \"countryCode\":\"US\"}";

var requestOptions = {
   method: 'POST',
   headers: myHeaders,
   body: raw,
   redirect: 'follow'
};

fetch("https://api.cargoproduce.com/api/Importers", requestOptions)
   .then(response => response.text())
   .then(result => console.log(result))
   .catch(error => console.log('error', error));
```

Responses 200

Exporters

POST Exporters

Create an Exporter in Cargo Produce

POST https://api.cargoproduce.com/api/Exporters

Request

BODY PARAMETERS

name String required

The unique name of the SKU

countryCode String required

A 2 digit ISO country code for the exporter

importers Array optional

List of importer objects to relate to this exporter.

JS

```
var myHeaders = new Headers();
myHeaders.append("Accept", "application/json");
myHeaders.append("Authentication", "Bearer <API Token>");

var raw = "{\"name\": \"A New Unique Sku Name\",\"referenceCode\": \"ABD999282\",\"productName\": \"Apple\",\"loadType\": \"Fr

var requestOptions = {
   method: 'POST',
   headers: myHeaders,
   body: raw,
   redirect: 'follow'
};

fetch("https://api.cargoproduce.com/api/Exporters", requestOptions)
   .then(response => response.text())
   .then(result => console.log(result))
   .catch(error => console.log('error', error));
```

Responses 200

```
{
"": "hehe"
} hbhbhbh
```

SKU

POST Sku

Create an SKU

POST https://api.cargoproduce.com/api/skus

Request

BODY PARAMETERS

name `String` `required`

The unique name of the SKU

referenceCode `String` `optional`

A unique code for the SKU

productName `String` `required`

The product name for the SKU

loadType `String` `required`

One of 'Fresh', 'Frozen', 'Dry'

loadGroupingType `String` `required`

One of 'Palletized', 'NonPalletized'

loadMeasurementType `String` `required`

How the measurement is organized. Can be 'Package' or 'Weight'.

pa e greckageTypeNam... `String` `optional`

The package type name. E.g. Boxes. Only required if loadMeasurementType is Package.

JS

```
var myHeaders = new Headers();
myHeaders.append("Accept", "application/json");
myHeaders.append("Authentication", "Bearer <API Token>");

var raw = "{\"name\": \"A New Unique Sku Name\",\"referenceCode\": \"ABD999282\",\"productName\": \"Apple\",\"loadType\": \"Fr

var requestOptions = {
   method: 'POST',
   headers: myHeaders,
   body: raw,
   redirect: 'follow'
};

fetch("https://api.cargoproduce.com/api/Skus", requestOptions)
   .then(response => response.text())
   .then(result => console.log(result))
   .catch(error => console.log('error', error));
```

Responses 200

Ocean Carriers eheheehehee

GET Ocean Carriers merge mai lent parca?

Gets supported ocean carriers ceee pula mea???

GET https://api.cargoproduce.com/api/CatalogEntities/OceanCarriers ??

Request

QUERY PARAMETERS

keywords String optional

Search keywords (name, carrier code, etc.)

JS

```
var myHeaders = new Headers();
myHeaders.append("Accept", "application/json");
myHeaders.append("Authentication", "Bearer <API Token>");

var requestOptions = {
   method: 'GET',
   headers: myHeaders,
   body: raw,
   redirect: 'follow'
};

fetch("https://api.cargoproduce.com/api/CatalogEntities/OceanCarriers", requestOptions)
   .then(response => response.text())
   .then(result => console.log(result))
   .catch(error => console.log('error', error));
```

Responses 200

Ports

GET Ports

Gets a list of ports in the platform

GET https://api.cargoproduce.com/api/CatalogEntities/Ports

Request

QUERY PARAMETERS

keywords	String	optional

Search keywords (name, code, etc.)

JS

```
var myHeaders = new Headers();
myHeaders.append("Accept", "application/json");
myHeaders.append("Authentication", "Bearer <API Token>");

var requestOptions = {
   method: 'GET',
   headers: myHeaders,
   body: raw,
   redirect: 'follow'
};

fetch("https://api.cargoproduce.com/api/CatalogEntities/Ports", requestOptions)
   .then(response => response.text())
   .then(result => console.log(result))
   .catch(error => console.log('error', error));
```

Responses 200

Courier

Upsert Courier

Creates or updates a list of couriers

POST https://api.cargoproduce.com/api/CourierDocumentTracking/Upsert

Request

BODY PARAMETERS

courierDocumentTr... ▶ Object required

A list of items to add

JS

```
var myHeaders = new Headers();
myHeaders.append("Accept", "application/json");

var raw = "{
    "courierDocumentTracking": [
        {
            "containerIdentifier": "test9654123",
            "courierCompanyAndTrackingNumbers": [
                {
                    "courierCompany": "Fedex",
                    "trackingNumber": "323300"
                }
            ]
        }
    ]
}";

var requestOptions = {
   method: 'GET',
   headers: myHeaders,
   body: raw,
   redirect: 'follow'
};

fetch("https://api.cargoproduce.com/api/CourierDocumentTracking/Upsert", requestOptions)
   .then(response => response.text())
   .then(result => console.log(result))
   .catch(error => console.log('error', error));
```

Responses 200

JSON


```
{
    "courierDocumentTracking": [
        {
            "containerIdentifier": "test9654123",
            "courierCompanyAndTrackingNumbers": [
                {
                    "courierCompany": "Fedex",
                    "trackingNumber": "323300"
                }
            ]
        }
    ]
}
```

42. vertical + stuff

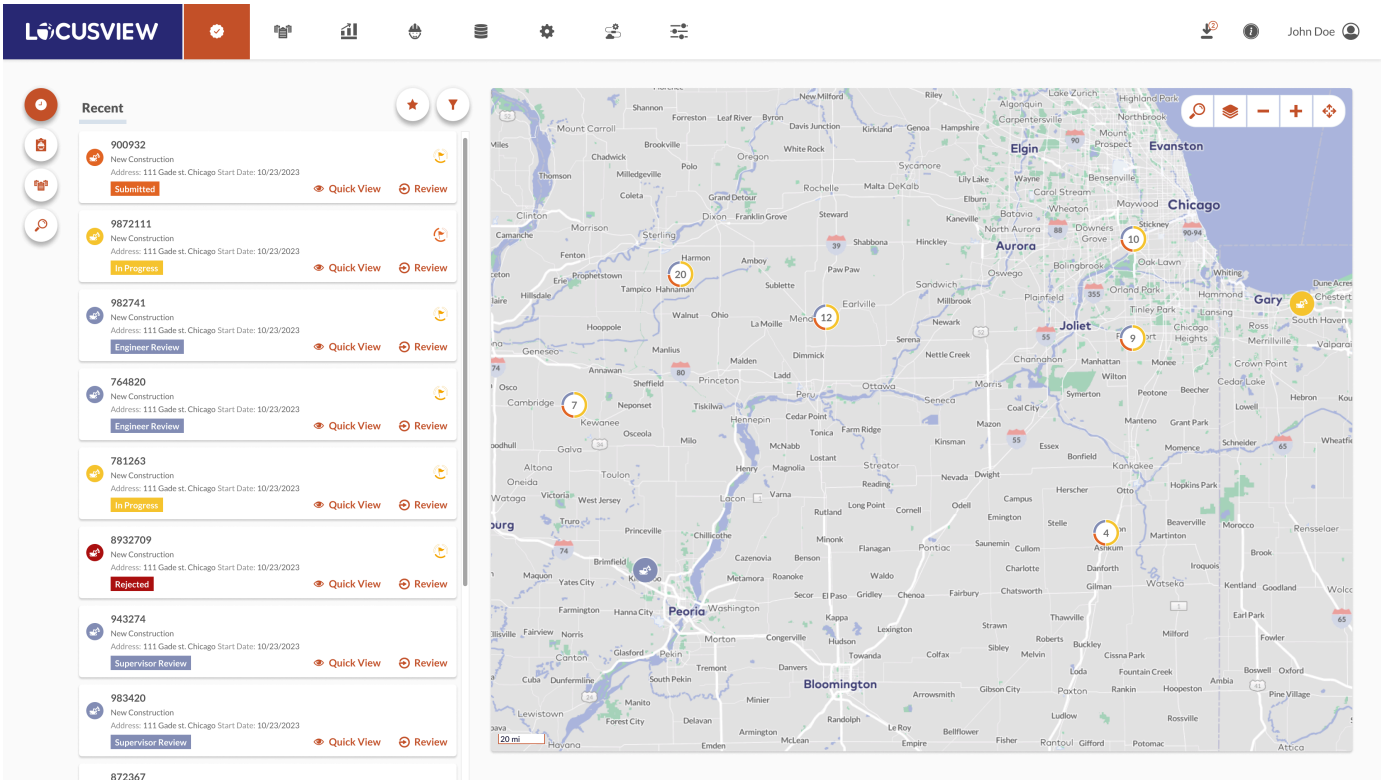
one

two

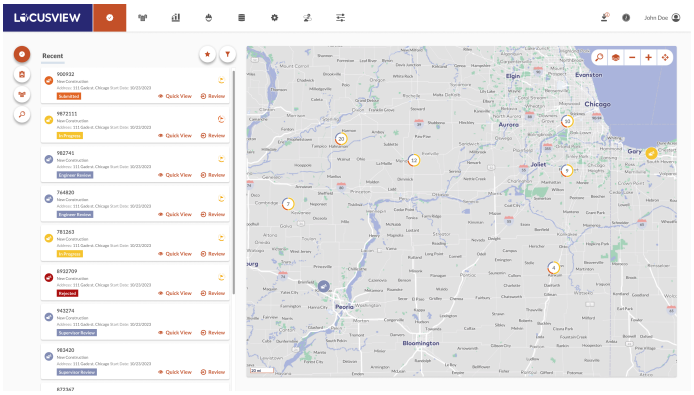
onea

twooo

Click To Edit Button Label






LOCUSVIEW
Recent
Chicago
Aurora
Joliet
Elgin
Evanston
Gary
Peoria
Bloomington



ooo

aaaa

aa

a

43. api-uri custom (cloned)

Get Cakes

Get a cake by its ID

GET https://api.cakes.com

Request | Response

PATH PARAMETERS

Parameter name 1	String	optional
Parameter name 2	String	optional

BODY PARAMETERS

idw ID of the cake to get	String	required
Parameter name 1 ▶	Object	optional
Parameter name 2	String	optional
Parameter name 3	Boolean	optional
Parameter name 4	Array	optional
Parameter name 5	Number	optional

JS

```
var myHeaders = new Headers();
myHeaders.append("Accept", "application/json");
myHeaders.append("Content-Type", "application/json");

var raw = JSON.stringify({
   "id": "String"
});

var requestOptions = {
   method: 'GET',
   headers: myHeaders,
   body: raw,
   redirect: 'follow'
};

fetch("https://api.cakes.com", requestOptions)
   .then(response => response.text())
   .then(result => console.log(result))
   .catch(error => console.log('error', error));
```

Responses 200

```
{
  "name": "Cake's name",
}
```

44. api-uri custom

Get Cakes

Get a cake by its ID

GET https://api.cakes.com

Request | Response

PATH PARAMETERS

Parameter name 1	String	optional
Parameter name 2	String	optional

BODY PARAMETERS

id ID of the cake to get	String	required
Parameter name 1 ▶	Object	optional
Parameter name 2	String	optional
Parameter name 3	Boolean	optional
Parameter name 4	Array	optional
Parameter name 5	Number	optional

JS

```
var myHeaders = new Headers();
myHeaders.append("Accept", "application/json");
myHeaders.append("Content-Type", "application/json");

var raw = JSON.stringify({
   "id": "String"
});

var requestOptions = {
   method: 'GET',
   headers: myHeaders,
   body: raw,
   redirect: 'follow'
};

fetch("https://api.cakes.com", requestOptions)
   .then(response => response.text())
   .then(result => console.log(result))
   .catch(error => console.log('error', error));
```

Responses 200

```
{
  "name": "Cake's name",
}
```

45. navigaishon

Get Cakes 1

Get cakes 2

get cakes 3

apiuri

`zzzccdcs

Titluri

Titluri

Titluri

Titluri

code drawerse

code drawerse

Titluri 2

Titluri 2

Asta duce in alt spatiu

paginutza

paginutza

paginutza

paginutza

46. code drawerse

aaa

Code Section Title 1 JS

```
unu
```

Responses

Code Section Title 2 JS

```
doi
```

Responses

Code Section Title JS

Responses

Code Section Title JS

```
3
```

Responses

47. Titluri 2

headin 123454

heading 2

exp head 2

hehe

Titluri

48. Titluri

headin 123454

heading 2

exp head 2

hehe

50. apiuri

Get Cakes 1

Get a cake by its ID

GET https://api.cakes.com

Request

BODY PARAMETERS

id	String	required

ID of the cake to get

JS

```
NUMBER ONEEEE
```

```
myHeaders.append("Accept", "application/json");
myHeaders.append("Content-Type", "application/json");

var raw = JSON.stringify({
   "id": "String"
});

var requestOptions = {
   method: 'GET',
   headers: myHeaders,
   body: raw,
   redirect: 'follow'
};

fetch("https://api.cakes.com", requestOptions)
   .then(response => response.text())
   .then(result => console.log(result))
   .catch(error => console.log('error', error));
```

Responses 200

```
{
  "name": "Cake's name",
}
```

Get Cakes 2

Get a cake by its ID

GET https://api.cakes.com

Request

BODY PARAMETERS

id	String	required

ID of the cake to get

JS

```
TWO
var myHeaders = new Headers();
myHeaders.append("Accept", "application/json");
myHeaders.append("Content-Type", "application/json");

var raw = JSON.stringify({
   "id": "String"
});

var requestOptions = {
   method: 'GET',
   headers: myHeaders,
   body: raw,
   redirect: 'follow'
};

fetch("https://api.cakes.com", requestOptions)
   .then(response => response.text())
   .then(result => console.log(result))
   .catch(error => console.log('error', error));
```

Responses 200

```
{
  "name": "Cake's name",
}
```

Get Cakes 3

Get a cake by its ID

GET https://api.cakes.com

Request

BODY PARAMETERS

id	String	required

ID of the cake to get

JS

```
THREE

var myHeaders = new Headers();
myHeaders.append("Accept", "application/json");
myHeaders.append("Content-Type", "application/json");

var raw = JSON.stringify({
   "id": "String"
});

var requestOptions = {
   method: 'GET',
   headers: myHeaders,
   body: raw,
   redirect: 'follow'
};

fetch("https://api.cakes.com", requestOptions)
   .then(response => response.text())
   .then(result => console.log(result))
   .catch(error => console.log('error', error));
```

Responses 200

```
{
  "name": "Cake's name",
}
```

51. table img

apiuri

apiuri

apiuri

apiuri

52. some tests (cloned)

mergi mai??? ar trebui sa fie ascuns **doc principal**

oooo 7777

53. some tests

stuff



DREAM

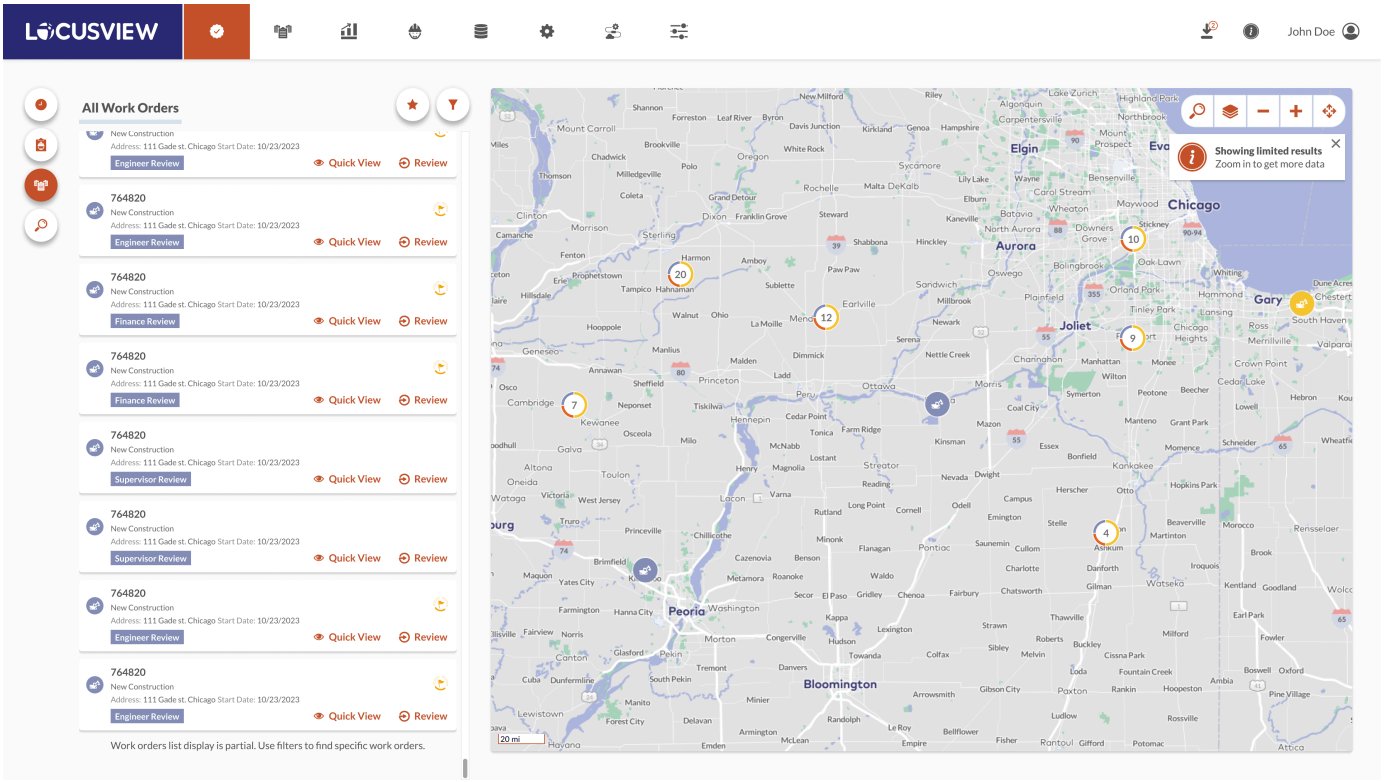
oooo

`hahaha

 wut is this?

 e ceva frumos

si avem si una si alta



JS Text

Created at Aug 17, 2026

54. Texas

Yeast output will be calculated by taking a sample of the fermentation broth when the fermentation has ended, and determining the (dry) yeast content per volume of the broth. This then needs to be multiplied with the final volume of broth in the fermenter when the fermentation ended, to obtain the total amount of yeast.

$$m_{\text{yeast}} = \left(\frac{m_{\text{sample,dry}}}{V_{\text{sample}}} \right) \cdot V_{\text{final}}$$

The fermenter yield is a measure of how efficiently the carbon source (molasses, typically) has been "converted" to yeast biomass. This will be calculated by dividing the yeast output by the fed molasses, on dry weight basis.

$$Y_{\text{fermenter}} = \frac{m_{\text{yeast}}}{m_{\text{molasses}}}$$

Let's GO GYYYYYMMMMMM

55. 777 (cloned)

kjnjj

oo some **new omg** and		

1. **he**
2. stilleto**llo**
3. and
4. ddea
5. f

56. Untitled

57. doc principal

titlu

mergi mai???

doculets

sub doc

57.1. titlu

titlu

57.2. mergi mai???

merg merg

57.3. doculets

57.4. sub doc

58. un doc

un doc

59. ChatGPT - Example API

59.1. Demonstrate oneOf, allOf, and anyOf

POST /example Try it

Body Parameters

body object

- oneOfExample object * — One Of: Cat
- allOfExample object * — All Of: Animal +
- anyOfExample object * — Any Of: Car

Responses

200 Successful response

object

message string

Request Curl

```
curl --request POST \
     --url /example \
     --header 'accept: application/json' \
     --header 'content-type: application/json' \
     --data '{
     "oneOfExample": {
     "name": "",
     "meows": ""
     },
     "allOfExample": {
     "name": "",
     "petType": ""
     },
     "anyOfExample": {
     "brand": "",
     "model": ""
     }
     }'
```

Responses

200

```
// Successful response
{
  "message": ""
}
```