

**Celonis Process
Mining 4.7.3
Release Notes**

Disclaimer

Updating to Celonis Process Mining 4.7.3

Please be aware that before updating to Celonis Process Mining 4.7.3, it is **required to install and run version 4.7.2.**

For detailed information and further required steps, please refer to the **Celonis 4.7.3 - Update Guide 1.14.**

Important changes

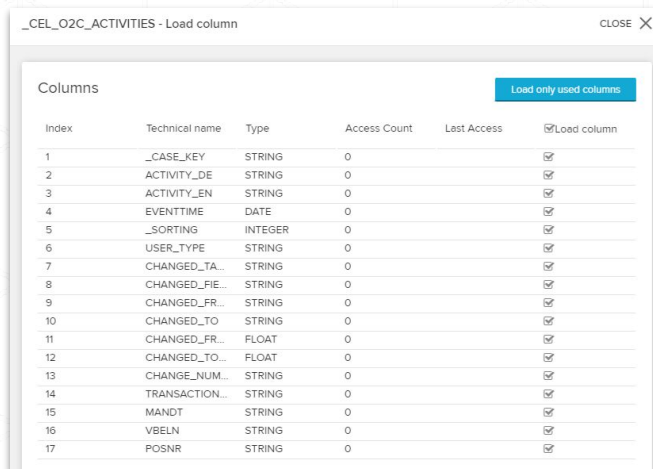
Deprecation note: Optimized load

With Celonis Process Mining 4.7.3, we are deprecating parts of the “optimized load” functionality (Data Model → Loading → Load column).

Remaining functionality: The user can manually select which columns of a certain table are included/excluded from a data model load.

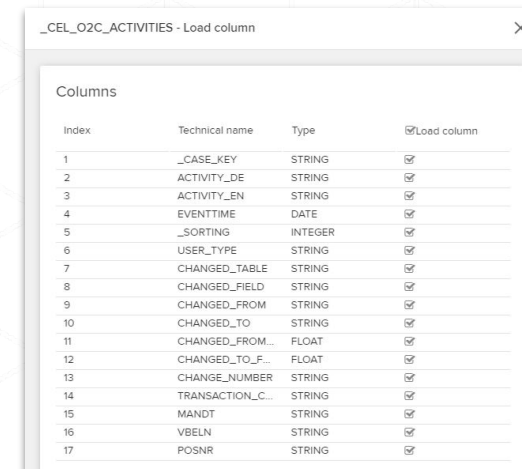
Deprecated functionality:

- The application no longer tracks the access count and last access dates for columns
- The “Load only used columns” functionality is no longer available. This functionality was used to automatically include columns that were not available but accessed by a user into the next load



The screenshot shows a window titled "_CEL_O2C_ACTIVITIES - Load column" with a "CLOSE X" button. Below the title bar is a "Columns" section with a blue button labeled "Load only used columns". A table lists 17 columns with the following headers: Index, Technical name, Type, Access Count, Last Access, and Load column. The "Load column" column contains checkboxes, all of which are checked.

Index	Technical name	Type	Access Count	Last Access	Load column
1	_CASE_KEY	STRING	0		<input checked="" type="checkbox"/>
2	ACTIVITY_DE	STRING	0		<input checked="" type="checkbox"/>
3	ACTIVITY_EN	STRING	0		<input checked="" type="checkbox"/>
4	EVENTTIME	DATE	0		<input checked="" type="checkbox"/>
5	_SORTING	INTEGER	0		<input checked="" type="checkbox"/>
6	USER_TYPE	STRING	0		<input checked="" type="checkbox"/>
7	CHANGED_TA...	STRING	0		<input checked="" type="checkbox"/>
8	CHANGED_FIE...	STRING	0		<input checked="" type="checkbox"/>
9	CHANGED_FR...	STRING	0		<input checked="" type="checkbox"/>
10	CHANGED_TO	STRING	0		<input checked="" type="checkbox"/>
11	CHANGED_FR...	FLOAT	0		<input checked="" type="checkbox"/>
12	CHANGED_TO...	FLOAT	0		<input checked="" type="checkbox"/>
13	CHANGE_NUM...	STRING	0		<input checked="" type="checkbox"/>
14	TRANSACTION...	STRING	0		<input checked="" type="checkbox"/>
15	MANDT	STRING	0		<input checked="" type="checkbox"/>
16	VBELN	STRING	0		<input checked="" type="checkbox"/>
17	POSNR	STRING	0		<input checked="" type="checkbox"/>



The screenshot shows a window titled "_CEL_O2C_ACTIVITIES - Load column" with a close button. Below the title bar is a "Columns" section. A table lists 17 columns with the following headers: Index, Technical name, Type, and Load column. The "Load column" column contains checkboxes, all of which are checked.

Index	Technical name	Type	Load column
1	_CASE_KEY	STRING	<input checked="" type="checkbox"/>
2	ACTIVITY_DE	STRING	<input checked="" type="checkbox"/>
3	ACTIVITY_EN	STRING	<input checked="" type="checkbox"/>
4	EVENTTIME	DATE	<input checked="" type="checkbox"/>
5	_SORTING	INTEGER	<input checked="" type="checkbox"/>
6	USER_TYPE	STRING	<input checked="" type="checkbox"/>
7	CHANGED_TABLE	STRING	<input checked="" type="checkbox"/>
8	CHANGED_FIELD	STRING	<input checked="" type="checkbox"/>
9	CHANGED_FROM	STRING	<input checked="" type="checkbox"/>
10	CHANGED_TO	STRING	<input checked="" type="checkbox"/>
11	CHANGED_FROM...	FLOAT	<input checked="" type="checkbox"/>
12	CHANGED_TO_F...	FLOAT	<input checked="" type="checkbox"/>
13	CHANGE_NUMBER	STRING	<input checked="" type="checkbox"/>
14	TRANSACTION_C...	STRING	<input checked="" type="checkbox"/>
15	MANDT	STRING	<input checked="" type="checkbox"/>
16	VBELN	STRING	<input checked="" type="checkbox"/>
17	POSNR	STRING	<input checked="" type="checkbox"/>

MS SQL Configuration Store – JDBC Driver

In case the application is configured to use the Celonis Configuration Store based on MS SQL in `config-custom.properties`, a manual update has to be applied:

Validating the usage of MS SQL

- Navigate to `<installDir>/config-custom.properties`
- Check if this exact property exists within your `config-custom.properties` file. In case the property is commented (#) the manual update does not have to be applied:

```
database.dialect=org.hibernate.dialect.SQLServer2008Dialect
```

Updating the property

- Navigate to `<installDir>/config-custom.properties`
- Replace the old value `org.hibernate.dialect.SQLServer2008Dialect` of the property `database.dialect` with the following value:

```
de.celonis.pm.utils.engine.CPMSQLServer2012Dialect
```

Please refer to the Celonis Update Guide 1.14 for more information. Not applying this update may lead to the application not being able to start.

Microsoft JDBC Driver for SQL Server Authentication Library for Windows

We also removed the `mssql-jdbc_auth-<version>.x<64/86>.dll` (Microsoft JDBC Driver for SQL Server Authentication Library for Windows) from the embedded dependencies. In case the application is running on Windows and the SQL Server Authentication (indicated by `integratedSecurity=true` in the JDBC string) is used to connect to the Celonis Configuration Store or the Analytics Database, the library has to be deployed manually:

1. Stop the application
2. Download the respective driver version based on your SQL Server version and compatibility from [here](#). Please follow the Microsoft recommendations in case of any questions: [here](#).
3. Place the library in `<installDir>\jre\bin`
4. Start the application

Please refer to the Celonis Update Guide 1.14 for more information. Not applying this configuration can lead to MS SQL connections failing.

Updated log file structure & log rotation

With version 4.7.3, we revamped the full log file structure on the application server. In addition to that, we enabled log rotation by default for the main Celonis Frontend and Compute Compute service logs.

- If custom logging was configured previously, please migrate the configuration to the approach (see the next slide).
- If scheduled OS logrotate was configured, please deactivate it and use the default CPM4 log rotation. Alternatively, you can apply a custom logging configuration as highlighted on the next slide.

Please refer to the Celonis Update Guide 1.14 for more information.

Custom logging configuration

The custom logging configuration was updated with version 4.7.3. It was previously configured in `<installDir>config-custom.properties` via the property `logging.config=`. This property is no longer supported.

To apply a custom configuration you can either:

- Refer a custom logging config file using the JVM property `-Dlogging.config` in `<installDir>/cpm.user.vmoptions`
- Refer a custom logging configuration in the file `application.properties#logging.config` residing in the same directory as the application jar.

Note: The logging library was changed from log4j2 to logback. Therefore, an update to the `logging.xml` configuration format could be required. For more information, please refer to: <https://logback.qos.ch/manual/configuration.html>

Please refer to the Celonis Update Guide 1.14 for more information. Not applying this update will lead to the application not picking up the previous custom logging configuration.

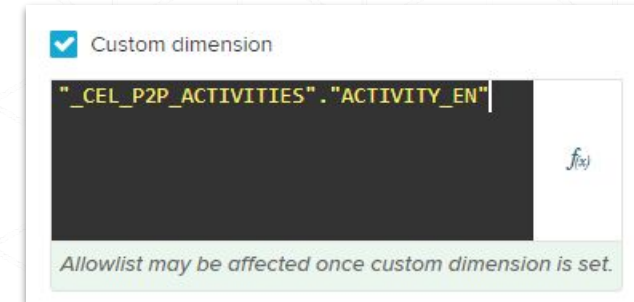
Analysis improvements

Improved Conformance Checker

Custom dimension

The Conformance Checker component can now be configured to use a custom dimension in two places (requires being in edit mode):

- During the setup when selecting “mine process model”
- In the component settings



Improved violation list

The violation list is now paginated for better usability and performance.

Additionally, violations can now be added to the allowlist directly, without opening the detail screen.



Color mapping based on NULL

Previously, the color mapping of analysis components was limited to numeric values. Therefore, we added the option to map null values to a specific background or font color.

Color mapping editor

Name
New color mapping

Coloring based on values of
Series

Color thresholds

<input type="checkbox"/>	If	is null		
<input type="checkbox"/>	If	equals	1	

Add threshold

Administration & security

Improved “Scheduled loads” overview

We added more information to the “Scheduled loads” overview (System Settings → Data loads → Scheduled loads):

- Data model ID
- Load ID
- Load schedule/partial load schedule
- Schedule configuration

The screenshot shows the 'System Settings' interface with the 'Data loads' section selected. Under 'Data loads', the 'Scheduled loads' sub-section is active. A search bar is present at the top of the 'Scheduled loads' section. Below the search bar, two entries are listed:

Data model name	Last load	Next load	Load scheduling	CRON Configuration	Located in	Load ID
Order to Cash - Demo (ID: 4)	19.05.2022 13:47	19.05.2022 13:47	Load scheduling: CRON	*****?*	Project ComponentTest	1aa07090-a3b6-4d95-ae3c-796cd418f018
Purchase to Pay - Demo (ID: 3)	19.05.2022 13:00	19.05.2022 14:00	Partial Load scheduling: Hourly		Project ComponentTest	8bf5bcdb-82ee-4df8-964b-3ecf98d709df

Improved system monitoring

Celonis now logs two new monitoring metrics:

- The available and used storage of `config.properties#filesystem.writableroot=` (once per hour). Example:

```
<yyyy-MM-dd'T'HH:mm:ss.SSSXXX> INFO ResourceMonitor - [STORAGE (writable root)] available 64 GB, used 32 GB (50.00%)
```

- Information about the Data Model Load Pool configuration (`config-custom.properties#model.max.parallel`) and workload (once per hour). Example:

```
<yyyy-MM-dd'T'HH:mm:ss.SSSXXX> INFO ResourceMonitor - [Data Model Load Pool] current pool size = 3, maximum pool size = 6, active tasks = 0, completed tasks = 3, queued tasks = 0
```

Additional resources

Help resources

celonis **Celopeers**

www.celopeers.com

Community

Welcome to the Celonis Community

The purpose of this community is to create a space for exchange and support as we believe that everyone of you has valuable knowledge to contribute.

Enjoy learning, helping and sharing experiences!

[Celonis Homepage](#) | [Community Guidelines](#) | [How to use this Community](#)

Useful Links
Access guidelines etc.

Public Forum Area
used by customers and partners

Settings & Search
Change your settings and find existing content

Latest Topics
Newest discussions happening in the community



celonis **Help Page**

help.celonis.de

- ▼ Data Model Design
 - Join functionality
- ▼ Data Types
 - DATE
 - FLOAT
 - INT
 - STRING
- ▼ Functions
 - › Aggregation Functions
 - › Custom Functions
 - › DateTime Functions
 - › Descriptive Functions
 - › Machine Learning Functions
 - › Math Functions
 - › Predicate Functions
 - › Process Functions
 - › Statistic Functions
 - › String Functions

Example with two cases in which each activity is taken into account.

Query

Column1

```
PROCESS_ORDER("Table1"."ACTIVITY")
```

Input

CASE_ID : STRING	ACTIVITY : STRING	TIMESTAMP : DATE
1	A	Sun Jan 01 2017 13:00:00.000
1	B	Sun Jan 01 2017 13:01:00.000

Output

Column1 : INT
1
2

World map

QuickStart

- You can use the worldmap to visualize geo locations of your process data
- You can explore data points and answer questions such as: 'Which vendors are close by and have a good on-time delivery rate?'
- You can compare regional differences and discover insights from local context

Overview

Process Mining 27% of 27% cases selected 100%

Worldmap

Visualize geo locations of your process data

Worldmap (1) Worldmap (2) Worldmap (3) Worldmap (4)

The Celonis logo features the word "celonis" in a white, lowercase, sans-serif font. The letter "o" is partially obscured by a vibrant, irregular shape that transitions from a bright orange at the top to a deep red at the bottom. The background is a dark charcoal grey with a subtle, repeating pattern of thin, light grey lines forming a grid of small squares.

celonis