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# Tasks (cs.taskmanager)

*Release 15.4.1.1*

**CONTACT Software**

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## What's New in cs.taskmanager 15.4.1?

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**Warning:** Make sure to read the following changes and adapt your configuration accordingly. The included update script should prompt you for any required manual steps by issuing warnings.

Please fix all warnings to ensure *CONTACT Tasks* is working as intended.

### 1.1 Filter by Task Deadline

Users can now filter their tasks by deadline. This imposes a new restriction on the configuration regarding the deadline mapping:

- The attribute `cs_tasks_col_deadline` is now configured directly in each task class. It may only be a native date attribute of the `Elements` class. Other attributes, references or methods are not allowed anymore.
- The included update script will try to automatically update your configuration by reusing your current mappings for `cs_tasks_col_deadline` and migrating task read statuses.

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**Note:** Because of these changes, it is recommended (but not required) to also update your tasks plugins along with *CONTACT Tasks*.

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### 1.2 Mandatory Attributes for Status Changes

The base class for tasks, `cs.taskmanager.mixin.WithTasksIntegration` now contains the method `getProceedAttributes` for determining attributes to be set during a task's status change initiated from the table.

Make sure to refactor any custom plugins to use this method instead of just injecting the “mandatory” key in status dicts returned from `getCsTasksStatusData`.

## 1.3 Advanced Filters

*CONTACT Tasks* now contains a set of advanced filters empowering users to choose what tasks are shown at any one time.

## 1.4 Removed Component “ObjectCell”

The table cell component “cs-taskmanager-web-ObjectCell” has been removed. To render an object in a table cell, it is now sufficient to return a `cdb.objects.Object` from your task attribute mapping.

## 2.1 cs.taskmanager 15.4.1.1

### 2.1.1 Support Multiselect

This Service Level enables selecting multiple table rows in order to run operations from the table header on all of the selected objects in one go.

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**Note:** This only works with operations configured for `MultipleObjects` and selections consisting of a single object type. In particular, the operation `CDB_Workflow (Status Change)` does not work for more than a single object.

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## CHAPTER 3

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### What's New in cs.taskmanager 15.4.0?

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### 4.1 cs.taskmanager 15.4.0.11

#### 4.1.1 Standard SplitterLayout Component

Starting with this service level, *CONTACT Tasks* uses the standard “SplitterLayout” component from cs.web.

This component behaves a little different than before. While the old component did not allow resizing that would result in panes being smaller than some configured minimum sizes, the new component will collapse the pane instead.

Also, the new component does not yet persist user-specific sizes across sessions. This feature will be shipped in cs.web shortly.

### 4.2 cs.taskmanager 15.4.0.6

#### 4.2.1 Typeahead Support for User Tags

This changes the database schema of `cs_tasks_tag`:

- Long text relation `cs_tasks_tag_txt` removed
- Primary key attribute `cs_tasks_tag.tag` added

The included update script prepares the schema change.

#### 4.2.2 Save default table settings as user settings

Because of easier handling, default application and table settings for *CONTACT Tasks* are now stored as user settings for new dummy user `cs.taskmanager.dflt`.

Existing settings will be migrated automatically.

<b>Warning:</b> Because of this change, CONTACT Elements 15.2 SL 18 or newer is required.
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### 4.2.3 Removed Unused “Calculated” Priority

Removed unused column `cs_tasks_col_calculated_prio` along with all settings and cell plugins. If you have been using this column, please copy the relevant code and configuration from `cs.taskmanager 15.3.0` into your custom module.



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## What's New in cs.taskmanager 15.3.0?

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cs.taskmanager 15.3.0 is a completely redesigned application. As such, it is not fully feature- compatible with older versions, and updating will require you to run additional scripts and check the resulting configuration for correctness.

### 5.1 Notable Changes

#### 5.1.1 Renamed Plugins

Plugins have been renamed as follows:

Old Plugin	New Plugin
cs.actions.taskmanager_plugin	cs.actions.tasks_plugin
cs.innovation.evaluations.analysis_taskmanager_plugin	cs.innovation.evaluations.tasks_plugin
cs.innovation.evaluations.evaluation_taskmanager_plugin	cs.innovation.evaluations.tasks_plugin
cs.pcs.checklists.taskmanager_plugin	cs.pcs.checklists.tasks_plugin
cs.pcs.issues.taskmanager_plugin	cs.pcs.issues.tasks_plugin
cs.pcs.projects.taskmanager_plugin	cs.pcs.projects.tasks_plugin
cs.workflow.taskmanager_plugin	cs.workflow.tasks_plugin

Any imports in Python scripts have to be changed accordingly or be removed. Plugin customization has to be re-implemented, as the new plugins have been completely rewritten.

#### 5.1.2 Removed Features

- Explicit operation configuration for task classes is replaced by the more generic cs.web mechanism to configure Web UI operations. See the cs.web documentation for further details. Users may access operations in the table's header now.
- Format configuration has been removed. It has been replaced by frontend components.

### 5.1.3 Changed Behavior

- The option to display another user's task has been limited to users granted "show\_tasks" access for a given user. By default, only administrator accounts are allowed to use this feature for privacy reasons.
- The search field for users now uses the CIM Database/Enterprise Search. If you want to use this feature, please make sure users are indexed.
- The table component has been standardized. As a result, it is much more powerful than before, and users will have to apply custom settings manually after updating.
- Task details are not shown inside the table, but a dedicated details area.
- The application will check periodically for new/updated data, just like the Activity Stream does. By default, the interval is 15 minutes. You can change this to any value  $\geq 5000$  ms by updating the default settings:

```
UPDATE cdb_setting
SET default_val=REPLACE(
    default_val,
    '"notificationInterval": 900000',
    '"notificationInterval": 5000'
)
WHERE setting_id='cs.taskmanager'
AND setting_id2='settings'
```

Please make sure the new value is still valid JSON.

### 5.1.4 New Features

- Users may position the selection details area right to or below the tasks table. They may also change the area's size by dragging the divider between the table and the details area.
- Task details are divided into explicitly named blocks, which makes it easier to deduce their meaning and selectively show/hide blocks.
- The "Activities" detail block may show the task's or a configured channel's activities. Some task classes define a parent object (such as "Project") as their activities context.
- Configuring new columns or attribute mappings now supports any attribute, property, or method callable on the task object. This includes Powerscript References of cardinality 1, and accessing their properties after a dot.
- New cell renderer components, such as IconCell, DateCell.
- Custom task detail plugins can now be written much easier. See the technical documentation for cs.taskmanager.

## 5.2 Updating From cs.taskmanager 10.1.1 or 15.2.0

### 5.2.1 Automatic Updates

When installing cs.taskmanager 15.3.0, it will install optional content (namely access-related content, such as Access Control Domains), potentially resulting in changes to your custom data. Please double-check any new patches.

### 5.2.2 update-cs-tasks.py

Updating to cs.taskmanager 15.3.0 will not automatically reuse your existing settings and configuration, since class- and table names have been changed. In order to use your customized or new task classes, you will have to run the optional update script `update-cs-tasks.py`.

The script will try to migrate your old configuration, user tags and task read statuses to the new schema. It will NOT migrate user settings (column visibility/width, filter...).

Please make sure to read and fully understand the script's docstring before running the script. Never run the script in a production environment.

### 6.1 cs.taskmanager 15.3.0.12

#### 6.1.1 Typeahead Support for User Tags

This changes the database schema of `cs_tasks_tag`:

- Long text relation `cs_tasks_tag_txt` removed
- Primary key attribute `cs_tasks_tag.tag` added

The included update script prepares the schema change.

#### 6.1.2 Save default table settings as user settings

Because of easier handling, default application and table settings for *CONTACT Tasks* are now stored as user settings for new dummy user `cs.taskmanager.dflt`.

Existing settings will be migrated automatically.

**Warning:** Because of this change, CONTACT Elements 15.1 SL 27 or newer is required.

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## List of Figures

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## List of Tables

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