

# Perceptive Process

## Release Notes

Version: 4.10.x

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## Perceptive Process 4.10.x Release Notes

This document provides an overview of the changes in Perceptive Process version 4.10.x.

<b>New features</b>	Introduces the new functionality available in Perceptive Process version 4.10.x.
<b>Enhancements</b>	Provides an overview of the enhancements made to existing features in Perceptive Process version 4.10.x.
<b>Updates</b>	Provides an overview of the issues that have been resolved in Perceptive Process version 4.10.x.
<b>Supported platforms</b>	Provides an overview of the changes to the platforms that are supported in Perceptive Process version 4.10.x.

Perceptive Process Product Information is updated with every release. This Product Documentation includes the Product Guide, Installation and Setup Guide, and Technical Specifications.

### Upgrade

You can easily upgrade from Perceptive Process version 4.x.y to Perceptive Process version 4.10.x.

It is not possible to upgrade directly from a version before Perceptive Process 4.0. An upgrade to Perceptive Process version 4.0.x, 4.1.x or 4.2.x is required before upgrading to Perceptive Process version 4.10.x.

If you are upgrading from a version before Perceptive Process 4.9.x, we recommend you read the release notes for the intermediate versions.

## Perceptive Process 4.10.0 – November 2023

The following new features, enhancements, updates, and changes to supported platforms are included in Perceptive Process version 4.10.0.

### New features

#### General

- The **Design** part of the system, i.e. **Explorer**, **Reports** and **Publication**, has been completely revised, both at the client side as well as the server side.

The interface between client and server has been converted from the proprietary FHS interface to a RESTful interface. This improves the security and the permission checking for this functionality. In this release, the new RESTful interface is not published.

This change also brings more functionality, better checking of input parameters and improved performance. The internal Module editor is enhanced with code highlighting.

#### Case design (a.k.a Studio)

- A STANDARD LETTER action can now be modelled without the need for a button on a form.

When this is used and all prerequisites are fulfilled the generation of the document will be executed automatically, taking away the need for a user to press the button. This functionality is much like the functionality of the ACTION ACTION.

- A new construct, **System Redo Loop** or **System Loop** or **System Redo**, has been added. Such a construct is modelled with a (backward) connection between two nodes and a condition on the connection. A node may have multiple backward connections, each to a different node.

When the node should normally be completed and the condition is evaluated as TRUE the case status is set back to the connected node unless that node's status is REFUSED. This allows for cycles in the modelled nodes. It takes away the burden for an end user to go back to the correct node. Note that the actual REDO roles are ignored in this situation, even when the user does not have all the necessary REDO permissions the **System Redo Loop** is still executed.

#### Case run-time

- It is now possible to open a case instance in a so-called *super mode*. This is possible for the Case Guide client (applet) as well as for the CLI client `chpcl`.

When a case is opened in this mode, the modelled constraints are still checked and reported but it will not discard a change for a data object. This allows a *super user* to correct constraint problems.

In order for this to work, a new:

- Authorization component is introduced
- role is available for every Case Type version
- interface setting is added to every worklist

When the above is assigned for a user and/or worklist a new menu entry will be available and enabled for every case found in a worklist. Through this menu entry a user can open a case instance in *super mode*. The Case Guide client will show a *super mode* with different colors for the tab and the title bar.

Note that the `super mode` role needs to be assigned explicitly to a user. That is, the `super mode` role is not assigned to a user when all roles from a Case Type or Case Type version are assigned to the user.

Additionally, for every case instance (having a constraint violation) a popup message is shown on opening that case through the Case Guide client. Opening and closing a case in `super mode` is both logged in the case history as well as in the management information. The management aggregation tool `mgmt` handles these case super modes. Finally, when a case is closed at the end of a `super mode` session, the state of whether there are still constraint violations or not is logged with the case close record.

- STANDARD LETTER ACTIONS and ACTION ACTIONS can now also be executed via the context menu of the node, instead of pressing on their associated button.

## Portal

- The portal tabs started from **Design** all have a status bar at the bottom. This status bar may show a status icon, a status message and/or the elapsed time for the last round trip from the client to the server.

Additionally, a refresh meter may be shown between the status message and the elapsed time. This refresh meter shows the amount of time left before the next automatic refresh will take place.

## Enhancements

### Server

- A new setting has been added to the server, i.e. a limit for consecutive login failures. If the number of consecutive login failures is at or over this limit, the user account is blocked from logging in. The account needs to be manually unblocked. If the limit is set to 0, the blocking of user account is disabled. But the counting of consecutive login failures is never disabled.
- A new setting has been added to the server, i.e. Database Check Threshold. Only if the actual used time for a database check is above the threshold, an error message will show up. When the value is set to 0, no database checking will be performed.
- A new setting has been added to the server, i.e. Login Check Threshold. Only if the actual used time for a login check is above the threshold, an error message will show up. When the value is set to 0, no login checking will be performed.
- The number of RMS sinks is now unlimited.
- The following changes have been made to the CLI configuration tool `econf`:
  - new commands:
    - `mvdistr`: move worklist distribution aspect
    - `setuser`: get or set the user login failures
    - `show loginfailures`: list blocked users
  - updated commands:
    - `rolid/unrolid/testrole/testusrrole`: handle `super mode` role
    - `show roles`: shows `super mode` role
    - `show users`: has indication for login failures and blocked users
    - `uname`; new option `'-d'` to get the (internet) domain name

- The Chip CLI utilities have two new options:
  - `-m`: measure and show execution time in milliseconds (only with: `-t`)
  - `-x`: open case in so called *super mode*, so ignoring constraint violations

## Case design (a.k.a Studio)

- It is now possible to have a static array inside a structure.
- The Case Type editor is made multi-screen aware.
- It is now possible to delete a data object after it was made mandatory.
- It is now possible to move (parts of) a graph around with the so-called arrow keys, even when the elements being dragged have guards.
- It is now possible to drag more than 16 items around and drop those objects onto a zone.

## Portal

- The status bar, as shown in portal tabs, may now show a sequence indication between the status icon and the status message. This sequence indication is used to show the progress for one request that spans multiple round trips to the server (e.g. deleting more than one model from the explorer).
- A menu entry, i.e. Config files, has been added to the **System administration** menu. This menu entry shows the configuration files present at the server and shows the contents of a selected configuration file.  
It is not possible to edit the contents of a selected configuration file.
- A new button, i.e. *Worklists*, is added to the portal tab **Publishes**. For a selected Publish the list of worklists using that Publish is shown in a new dialog. The dialog also indicates where the publish is used within a worklist, i.e. Column, Distribution and/or Parameters.
- The **Properties** dialog for a user in **Administration** now shows the number of consecutive login failures and the limit for consecutive login failures.  
If the current count is at or over the limit, a button **Unblock** will be shown and allows an administrator to unblock the blocked user account. In this situation the user's icon is fully greyed out.  
If the current count is under the limit, a button **Block** will be shown and allows an administrator to immediately block the user account.
- The **User options** portal tab has been extended with options that are not directly related to one specific user but are generic for all users. As these options are set/unset through different functionality it is not possible to edit or delete one of these options.
- During a worklist definition it is now possible to re-order the defined distribution aspects, the same way as it was already possible for columns and parameters.
- When the suffix of a name of a marker column in a worklist contains a valid data type name, the column header in the run-time will show that data type icon instead of the capital letter of the data type.
- A button has been added to the Log File viewer to clear the contents from the User Interface. The actual contents of the log file is not touched in any way.
- When using the Search functionality in the Explorer tab, it is now possible to jump to the domain where a result is found in.

## Updates

### Server

- Resolved an issue where the history file of a case instance was written incorrectly.
- Resolved an issue where the name of a deleted user was not shown on the management reports.
- Improved the client counting for the WFD processes at the server (as seen by the FLOWD process). Additionally, the error and trace messages for this functionality have been extended.
- Extended various log and trace message to include more information.
- Improved overall performance.
- Resolved many *Case Type Editor* crashes.
- Resolved several memory leaks.

### Installation

- Resolved an issue where the MSI installer for the Windows platform would list an error when a newer C++ package was already installed and aborted the installation.

### Portal

- Resolved an issue where the portal would pass incorrect information to a modeler stopping the modeler from opening correctly.
- Resolved an issue where the portal would show a domain name or a model name as 'undefined'.
- Resolved an issue where the portal could not update the properties of a log file.

## Removed functionality

### Portal

- The Mining functionality has been removed from the Portal.



## Supported platforms

The support for the following platforms has been added:

- SQL Server 2019
- Red Hat Enterprise Linux 8.x.

A complete overview of the current supported platforms is available in the *Perceptive Process Technical Specifications*. If you have any questions about the supported platforms, contact Hyland Technical Support.