Perceptive Process

Release Notes

Version: 4.8.x

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Perceptive Process 4.8.x Release Notes

This document provides an overview of the changes in Perceptive Process version 4.8.x.

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Supported platforms   Provides an overview of the changes to the platforms that are supported in Perceptive Process version 4.8.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 4.0.x, 4.1.x, 4.2.x or 4.6.x to Perceptive Process version 4.8.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, 4.2.x or 4.6.x is required before upgrading to Perceptive Process version 4.8.x.

If you are upgrading from a version before Perceptive Process 4.6, we recommend you read the release notes for the intermediate versions.

Perceptive Process 4.8.0 – March 2022

The following new features, enhancements, updates, and changes to supported platforms are included in Perceptive Process version 4.8.0.

New features

General

- A new client-side framework, based on standard WebSocket technology, has been created. This client-side framework allows web clients, such as the portal, to set up a WebSocket connection to one of the WFD server processes.

  As of this release this new client-side framework is used by:

  - the worklist functionality:
    - when the counters for the assigned worklists for a user must be retrieved
    - when the content of an assigned worklist for a user must to be retrieved

    In these cases the existing HTTP[S] portal connection to one of the WFDP server processes is no longer used, but a new WebSocket (a so-called WS[S] connection) to one of the WFD server processes is created, opened, used and closed.
    This means that the original path portal➔WFDP➔WFD for execution of a request is changed to the path portal➔WFD.
    Due to the asynchronous nature of WebSockets and the bypassing of the WFDP connection, which may serialize requests, the end user experience is improved.

  As browsers do not handle mixed connections, starting an HTTP portal will automatically use a WS connection and starting a HTTPS portal will automatically use a WSS connection. This cannot be overruled.

NOTE	When a starting a HTTPS portal a valid certificate must be used, correctly signed and issued for the correct host. When using a non-valid certificate, a security exception may be thrown when starting the portal. Such an exception may be accepted and added to the browser. But when a WSS connection is then started, there is no mechanism to confirm a security exception and the WSS connection is aborted.

  In this release it is possible to bypass the WebSocket mechanism altogether (and thus fallback to the old mechanism). It is a user option, which can be toggled from the standard *Options* dialog in the portal. This allows for checking the working of the WS[S] connection mechanism and verifying the expected end user experience improvement.

Enhancements

Server

- The statistics that are written to the *info.log* file are now also written to the database table **mgmt_stats**. There is no functionality in the portal to unlock the information in this database table yet. Of course, it is possible to use standard SQL to unlock the information is this database table.

- The standard relcase structure has been extended with the possibility to define Case Type specific icon.

- The stop server functionality has been enhanced. A server configuration parameter, **stopdelay**, has been added to fine tune the behavior.

Installation

- During installation, when using an Oracle database, it is now possible to specify the name of the index space instead of using the default name *wfd_index*.

- During installation it is now possible to specify the portal port instead of using the default value of *9449*.

Portal

- The so-called DEAMON sink has been added to the *Log files* System administration page.

- The *Log files* System administration page has been slightly improved. The **Rotate**, **Maximum** and **Files** columns are now only filled when the information is applicable to the sink. Additionally, a new column **Redirect** has been added to indicate the fallback sink for certain messages.

- The *Case Types* Configuration page has been extended with a **CAP file** button. This button allows an administrator to edit the so-called generic case mapping file, *map-customer.cap*, the file that is loaded for every case instance of every Case Type.

- The *Default settings* System administration page has been extended with a **Backup** button and a **Restore** button. These buttons allow an administrator to back up the current default settings file and restore a previously backup-ed default settings file. The automatic mechanism to back up a default settings file has been removed. At the same time the **Save** button has been renamed to **Release**.

- A new *Licenses* System administration page has been added. This page lists an overview of the active license values, the contents of a selected license file and the list of license files.
  Additionally, there are buttons to backup, restore and delete license files.
  Finally, there is a button to upload a new license file (replace or append) to the server.

- The table on the *Connections* System administration page has been redesigned.
  The technical columns **slot** and **channel** have been replaced with the columns **Server** and **PID**. These columns respectively list the server-side program mnemonic (flowd, wfd, wfpd, ctp) and the process identification.
  The information displayed in the **Client** column has been updated to reflect the connection type more closely.
  The connection filter at the top of the page has an extra switch option, *Full*. Selecting this option will additionally display all server processes connections in the table.

- The working of the *User options* System administration page has been improved. Selecting a **Context** or changing an additional parameter now automatically execute a refresh.
  A new button **Edit** has been added. This button allows an administrator to update the value of a selected user option.

- When performing a new installation using an old existing Oracle database the existing tables are now purged instead of deleted. That means that these existing tables can no longer be found in the Oracle recycle bin.

  NOTE   If and when old existing tables need to be accessed after a new installation, these tables need to be backed up manually **before** the new installation is started.

  NOTE   This only applies to performing a new installation. It does not apply to performing an upgrade. During an upgrade the existing tables are kept and not dropped.

- The (error) messages from the **wfdp** process have been extended with the originating IP address and the HTTP request. These two new fields are displayed in the log file view in the portal.

- The *Log files* System administration page has been extended with the possibility to work with dump or core files.

- The *Case Types* Configuration page has been extended with a property dialog. This property dialog allows an administrator:

- o   to upload an icon for the (un-versioned) Case Type

- o   to change the archive for the Case Type when there are no instances

- The *Document classes* Configuration page has been extended with a property dialog. This property allows an administrator:

    - o   to change the archive for the Document class when there are no instances

- On the *Archives* Configuration page two columns have been renamed to better describe what is shown in these columns (**Server** and **Client**).
  The existing edit dialog on the *Archives* Configuration page has been replaced with a property dialog. The new property dialog shows more information and has an improved look and feel.

- The *Reports* Configuration page has been extended with a property dialog. The **Type** column values are now prefixed with an icon.

Updates

Server

- Resolved an issue where the CAP file for a worklist was incorrectly generated for a distribution aspect without a left operator but with a right operator and a right operand.

- Resolved an issue where the CAP file for a worklist was incorrectly generated for a search parameter with the FIXEDPOINT type against the MSSQL database.

- Resolved an issue where messages where not rerouted correctly to the GUIREDIRECT sink and thus ended up in the *daemon.log* file.

- Resolved an issue where rotated log files where not listed once the ROTATE flag was turned off for a sink.

- Resolved an issue where many simultaneous synchronous requests on the same connection were not handled correctly.

- Resolved an issue where multiple sessions per user were allowed.

- Resolved an issue where the worklist parameters where not correctly aligned in a worklist export.

- Resolved an issue where a WFDP process could crash on faulty input, e.g. invalid request headers.

- Resolved an issue where cookies were sent to the client without a *sameSite* setting.

- Resolved an issue where duplicate records in table *object_options* were not flagged by edbcc.

- Resolved an issue where the automatic mode was not stopped at the end of an edbcc run.

- Resolved an issue where the *flowcom.dll* file could not be registered.

- Resolved an issue where during an installation or an upgrade a temporary MSI name was displayed.

- Resolved an issue where during an upgrade on an installation with an Oracle database a wrong upgrade script was used.

- Resolved an issue where the *setarchive* command within **econf** created an archive location in Program Files instead of Program Data when a relative storage path was used.

- Resolved an issue where a (warning) message was printed when a combo box parameter was added to a worklist and the CAP file was not generated.

- Resolved an issue where a valid octal escape sequence in an **econf** script file would still lead to a warning message.
- Resolved numerous memory leaks and several memory errors.

Portal

- Resolved an issue where a distribution value for a worklist could not be set to the function *getdate()* when using an MSSQL database.
- Resolved an issue where a defined case type icon was not consistently displayed when opening a case instance.
- Resolved an issue where the portal could not be refreshed when there were too many open portal TABs.
- Resolved an issue where a secure portal could not be started when the elliptic curve Diffie-Hellman ciphers are used.
- Resolved an issue where cookies were created without a *sameSite* setting.
- Resolved an issue in the left-hand menu where an unneeded horizontal scrollbar was displayed.
- Resolved an issue in the portal pages where text could not be selected from displayed file contents, e.g. license files and log files.
- Resolved an issue where some changes of the RMS levellist were not detected until the next restart of the Perceptive Process service.

Client

- Resolved an issue where various *No such class <nr>* messages were written to the *errors.log* on the client file when starting the Case Type Editor (Studio).
- Resolved an issue where the *Search* button and the *Replace* button remained disabled, i.e. greyed out, in the Process Modeler even after some text has been entered in the corresponding text field.
- Resolved an issue where the background color for a TEXTFIELD and a NOTEFIELD on a case form were slightly different when a derived data object was used.
- Resolved the issues with no longer supported features and settings in the NewWork client utility.

Supported platforms

The support from Microsoft for the Internet Explorer 11 browser will be terminated for certain operation systems as of June 15, 2022. Please visit the Lifecycle FAQ - IE and Edge page for more details.

The support from Microsoft for the so-called **IE mode** with their Edge browser is announced to run to at least 2029. Therefore, the Edge browser with the so-called **IE Mode** may be a good replacement for the Internet Explorer 11 browser.

To accommodate the use of Java two browsers, with extra configuration, have been added to the list of supported browsers:

- Microsoft Edge
  This browser may now be used when the so-called **IE Mode** is configured for the Perceptive Process URLs.
  Please visit the What is Internet Explorer (IE) mode? page for more details.

- Google Chrome
  This browser may now be used when the **IE Tab** extension, in combination with **IE Helper**, is installed and configured for the Perceptive Process URLs.
  Please visit the Run Internet Explorer Inside Chrome page for more details.

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