Perceptive Process

Technical Specifications

Version: 4.6

Written by: Product Knowledge, R&D Date: March 2021



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About Perceptive Process Technical Specifications

The technical specifications in this document are specific to Perceptive Process, version 4.6:

- Perceptive Process Enterprise, version 4.6
- Perceptive Process Design, version 4.6

For Perceptive Process Design and Perceptive Process Enterprise, support is divided into a client-side component and a server-side component. Requirements are listed for the following components:

- Perceptive Process Client
- Perceptive Process Server on a Windows platform
- Perceptive Process Server on a Linux platform

Not included in these specifications is the following information:

- **Hardware requirements**. Stating general hardware requirements for Perceptive Process Server is virtually impossible, because software performance also depends on many functional variables, such as the number of cases, the type of activities, the number of users and required server integration.
- Virtualization setup. Within a VMware, VirtualBox or Citrix environment, Perceptive Process
 runs on the same supported operating systems as outside the virtualization software, providing
 the software is configured correctly. Consult Hyland Technical Support if you need assistance
 with the installation of Perceptive Process.
- Database information and database schema. Hyland Software reserves the right to alter the
 database schema to improve performance or add functionality. Because the schema is not
 published, we strongly recommend that you do not query the Perceptive Process database
 directly. Instead, you should perform queries using the available APIs or using the provided report
 features.

About Java Virtual Machine

Some of the components in Perceptive Process use Java technology, and therefore a **32-bit** Java Runtime Engine (JRE) needs to be installed. For the Perceptive Process Client component, the "Product requirements" sections list the supported JRE versions, specifying which versions are recommended.

For JRE 1.8, this version of Perceptive Process has been validated with 1.8.0_201 / 1.8.0_202 and found to be in good working order.

Newer versions of JRE 1.8 might be or become available after our products are released. You can install a higher version of JRE 1.8 than the version we used for validation. Contact Hyland Technical Support before upgrading to a newer version to verify if known issues exist. If a higher version of JRE 1.8.0_x presents an issue, we will work to support it. However, there might be some rare cases where a newer version of JRE 1.8 is found to be incompatible and cannot be used.

If the Java settings do not match the browser settings, Java displays an application error message when you use a Perceptive Process component that relies on Java technology. To prevent this error, in the Java Control Panel the option **Use browser settings** must be selected. Refer to the Installation and Setup Guide for instructions.

Contact Hyland Technical Support if you encounter issues when using Java. There might be some rare cases where a specific combination of a Java version, Java configuration, browser, and browser configuration is found to be incompatible.

About internet browsers

To use the Perceptive Process Portal you must have an internet browser installed on the client operating system.

- JavaScript must be enabled in the internet browser.
- In Internet Explorer, the Compatibility View is not supported and turned off.
- In Firefox there is a problem with the releases 38.4.0 (ESR) and 42, where the Java plugin will crash after closing a case instance. Later versions do not have this problem.
- In Firefox, as of release 52, the support for the so-called NPAPI is terminated. This will definitely lead to most features not being available. Therefore version 52 and above are not supported. An exception to this rule is the so-called ESR release, Firefox 52 ESR does still offer the NPAPI support. Please look at Firefox Java support. Unfortunately, the software cannot detect the difference between a 52 release and a 52 ESR release. Hence, when using the 52 ESR release, a remark will show up during login and when working with the portal.
- In the browser, the use of TLS version(s) should be enabled, the use of the older SSLv2 and SSLv3 is no longer supported.

Product requirements for Perceptive Process Client

Specification	Description
Display	The minimum display resolution is 1024 x 768.
Java Virtual Machine	On Microsoft Windows: • Oracle JRE 1.8 from update 66, 32-bit. Recommended version 1.8.0_202
	On Mac OS X: • Java for Mac OS X. Recommended version 1.8.0_202 Note
	OS X does not offer a Java Runtime Environment by default, so you need to install a Java Runtime Environment separately. After installation, enable the applet plug-in In the Java Control Panel on the Advanced tab.

Specification	Description
Operating	On Microsoft Windows:
Systems	Microsoft Windows 7 Professional SP1 (very limited – not recommended)
	Microsoft Windows 7 Ultimate SP1 (very limited – not recommended)
	Microsoft Windows 7 Enterprise SP1 (very limited – not recommended)
	Microsoft Windows 8.1 (very limited – not recommended)
	Microsoft Windows 10
	Note
	When using Windows 8.1 in combination with Internet Explorer, you should start Perceptive Process from the Desktop. You cannot start Perceptive Process from the Start screen, also called the <i>Modern</i> interface, because that doesn't support plug-ins such as Java, which is required for Perceptive Process.
	Note
	When using Windows 10 only Java from 1.8.0_121 and onward is supported. There is no support for the Edge browser.
	On Mac OS X:
	• 10.7 (Lion)
	Note
	Perceptive Process Portal on Mac OS X does not have support for starting a modeller.
Microsoft Office Integration	To use the RTF export, the import of Excel files, the export to Excel files and the email functionality of Microsoft Outlook in Perceptive Process, one of the following versions of Microsoft Office is required:
	Microsoft Office 2013
	Microsoft Office 2016
Internet Browser	On Microsoft Windows:
	Microdoft Internet Explorer 11, 32 bit
	• Firefox 38.3.0 (ESR) or 41.0.2, 32 bit
	• Firefox 51.0.1, 32 bit
	• Firefox 52.1.0 ESR, 32 bit
	• Pale Moon 28.10.0, 32 bit
	On Mac OS X:
	Safari 6.1
	• Firefox 41.0.2
	• Firefox 48.0.2

Product requirements for Perceptive Process Server (Windows)

Specification	Description
Operating Systems	Microsoft Windows Server 2012
	Microsoft Windows Server 2012 R2
	Microsoft Windows Server 2016
	Microsoft Windows Server 2019
	Note
	Supported editions for Windows Server are Standard, Enterprise and Datacenter.
	Note
	For database communication, Perceptive Process Server requires 32-bit drivers and/or a 32-bit database client. Therefore, on 64-bit versions of Windows Server, 32-bit compatibility must be available.
Database Systems	On a Windows platform you can use Perceptive Process Server with a Microsoft SQL Server database, or an Oracle database.
	Microsoft SQL Server
	SQL Server 2012 with SQL Server 2012 Native Client
	SQL Server 2016 with SQL Server 2016 Native Client
	SQL Server 2017 with SQL Server 2017 Native Client
	Oracle
	Oracle 10.2 with Oracle Client 10.2.0.3
	Note
	Installing Perceptive Process Server on Oracle 10.2.0.3 requires installation of Oracle patch 5699495.
	Oracle 11.1 with Oracle Client 11.1.0.6.0
	Oracle 11.2 with Oracle Client 11.2.0.1.0
	Oracle 12c (release 1) with Oracle Client 12.1.0.2
	Note
	For Oracle clients, the Oracle ODBC driver must be installed.
External Logon	The following LDAP library is supported:
Services	WinLDAP connector (Isldap.dll)
	Both LDAP and AD are supported. Also secure LDAP and AD are supported.
Integration Framework	Magic iBolt 3.2
	Magic XPI 3.4

Product requirements for Perceptive Process Server (AIX)

As of release 4.6, AIX is no longer a supported platform.

Product requirements for Perceptive Process Server (Linux)

When Perceptive Process Server is installed on a Linux server, the functionality is limited compared to an installation on a Windows server. Because Perceptive Process Design does not support Linux, the following features are not available:

- · Reporting to RTF
- · Reporting to HTML
- · Process mining
- Simulation
- Import of design files (PQL / PRM)

The menu options for these features are disabled or not available.

Specification	Description
Operating Systems	 Red Hat Enterprise Linux 6.7 (64 bits) Red Hat Enterprise Linux 7.4 (64 bits) **
Database Systems	 Oracle 11.2 Oracle 12c (release 2) Preferably available on a different server machine.
C-compiler	To be able to compile case types and related C/C++ modules, a compiler must be installed on the same machine as Perceptive Process Server. Use a recent version of the compiler, to prevent problems with compiling modules you have developed yourself. The following compiler is supported:
	gcc compiler for Linux
SSL	OpenSSL 1.0.2e (recommended)
External Logon Services	The following LDAP library is supported. • OpenLDAP connector (libIsIdap.so) Both LDAP and AD are supported. Also secure LDAP and AD are supported.
Integration Framework	 Magic iBolt 3.2 Magic XPI 3.4 Note The Integration Framework Designer is not available on Linux. The runtime part of Integration Framework however, is supported on Linux. Case integration projects should be developed on Microsoft Windows and then tested and deployed on a Linux server.

** As Red Hat Enterprise Linux 7.x contains an updated FFI library, it is necessary to add a symbolic link for the required version to this new version:

% cd /usr/lib64

where FFI library is installed

% In -s libffi.so.6.0.1 libffi.so.5

As Red Hat Enterprise Linux 7.x, by default, does **not** have the 32-bits compatibility importing PAL files will not work. The 32-bits compatibility needs to be installed before the import of PAL files can be done:

% yum install glibc.i686

provides /lib/libdl.so.2

% yum install libgcc.i686 libgcc.x86_64

provides /lib/libgcc_s.so.1

% yum install libstdc++.i686 libstdc++.x86_64

provide /li/libstdc++.so.6

This 32-bits compatibility is not needed for other parts of the application.