ARIS Process Performance Manager
RELEASE NOTES

Version 10.4

April 2019

Contents

1 Text conventions

Menu items, file names, etc. are indicated in texts as follows:

- Menu items, key combinations, dialogs, file names, entries, etc. are displayed in **bold**.

- User-defined entries are shown as **<bold text in angle brackets>**.

- *Example texts that are too long to fit on a single line, such as a long directory path, are wrapped to the next line by using ↵ at the end of the line.*

- File extracts are shown in this font format:

  `This paragraph contains a file extract.`

2   Support

Visit the **Empower** and **Documentation** Web sites of Software AG to learn about support policies and critical alerts, read technical articles and papers, download products and fixes, submit feature or enhancement requests, and more.

Visit the **Software AG TECHcommunity** Web site to access additional articles, demos, tutorials, technical information, samples, useful resources, online discussion forums, and more.

3   General

This is an innovation release. Innovation releases have a much shorter support cycle than standard releases. To learn more, please visit http://empower.softwareag.com/innovationrelease/.

This file contains important information about using ARIS Process Performance Manager 10.4. Specific user documentation is available on the TECHcommunity Web site. Go to the Documentation area of the community to find the following documents in the ARIS section:

- ARIS System Requirements
- PPM Installation Guide
- PPM Migration Guide
- PPM Release Notes
- Other technical product documentation

This file contains information about functionality that has been added, removed, marked as deprecated, or changed for this product. Deprecated functionality continues to work and is supported by Software AG, but may be removed in a future release. Software AG strongly recommends that you do not use deprecated functionality in new projects.

4 Critical Information

Please go to the Knowledge Center on Empower to find out about important information that Software AG might retrospectively publish about the current PPM release.

5   Known Issues

This section lists all issues that were known about the current PPM release at the time when these Release Notes were published.   Any issue identified at a later point in time will be documented in the Knowledge Center of Empower.

- Embedded Help
  In PPM 10.4 (as well as in CTK 10.4), the German and Japanese versions of the Embedded Help are not available yet. The Embedded Help will be updated in a future fix version.

- Localization of Process Mining configurator
  In this version, the new Process Mining configurator is available in English only. Other languages will be provided in a future fix version.

- ACS-10095 Process Mining configurator login without server
  If the PPM server (*_cs runnable) or the **umcadmin** runnable is down, any logged-in user is routed directly to the start page of Process Mining configurator. As soon as the UI receives the loadbalancer's error response indicating that the PPM server or the **umcadmin** runnable is not available, the user is redirected to the login page.

6   Usage Notes

This section provides you with important details about how to work with the current product release.

Installation

- From PPM 10.2, the **ARIS PPM Setup** tool was used to install or uninstall PPM. With this release, the PPM setup routine can be affected by **McAfee virus scanner** scans and fail with errors when accessing locked files that are needed for the installation. All McAfee versions prior to the ENS 10.5.4 August Update are known to cause this problem.
  Workaround: Update your McAfee installation to the latest version.

- We recommend that you install the setup in an installation directory that does not contain any other Software AG product installations. The new setup is available in the **Software AG Download Center**. Further details on how to use the setup can be found in the document **PPM Installation.**

- Java Applet and Java Web Start are no longer supported and are now replaced by the **PPM Download Client**. It is no longer possible to start the PPM UI or management views based on Java applets in a browser. It is still possible to install the ARIS PPM GUI using a separate setup. Find more details in the document **PPM Installation.**

- ARIS PPM 10.4 uses **Azul Zulu OpenJdK 1.8.x**. For further information, please see https://www.azul.com/products/zulu-enterprise.

- This PPM release contains the MashZone NextGen widgets **Function Flow**, **Root Cause Miner**, **Process Variants**, and **Jump to PPM Client**. The widgets allow the user to extract and analyze data using the existing PPM data source in MashZone NextGen. This data can be visualized for analysis in the same way as in the PPM GUI. In order for you to be able to use the custom widgets, you must install matching versions of PPM and MashZone NextGen. For detailed information on how to install the custom widgets, see the document **PPM Widgets for MZNG.pdf**.

- In MashZone NextGen, the **PPM** sources operator and PPM context support single sign-on with PPM. The **PPM** data source supports single sign-on with PPM as an alternative to logging in using the technical user. The data retrieved from the **PPM** data source is filtered according to the access privileges of the currently logged-in users.

- If you have added project-specific runtime libraries (**JAR** files) to your PPM installation, you must update these custom classes so that they conform to the new PPM version after the upgrade.
  If you want to update your project-specific runtime libraries, please contact the Software AG product support.

- To access PPM Cloud Agent, you must enter a user/password combination. The combination is saved in various start and stop scripts (User = **Clous**, password = **g3h31m**). With PPM 10.4, you can change the user and password for PPM Cloud Agent during the PPM installation. For

more information on securing your PPM installation, see the document **PPM Operation Guide.**

▪ In addition to the familiar **PPM help topics** of the online help, PDF documents and the **PPM Compendium** are provided via a Web service. Start the **ppm_web** component to correctly display the help and the documents.

▪ With this version, the **ARIS Patch Setup** tool is used to install or uninstall fixes that are available in the **Software AG Download Center**. The PPM patch reads the PPM installation path from the registry. For more details on how to use the ARIS Patch Setup, please refer to the **PPM Installation** document.

▪ With this version, you can also use the **ARIS PPM Setup** tool to install or uninstall ARIS PPM Analysis GUI. The **setup.exe** installation tool for ARIS PPM Analysis GUI is part of the ARIS Client Setup and is located in the **setup\ARIS** folder of the ARIS installer media. For more details on how to use the ARIS Patch Setup, please refer to the **PPM Installation** document.

Upgrade

▪ There is no migration tool enabling you to upgrade directly from an installed previous version to the new version 10.4. However, CTK supports a semi-automated migration for PPM 9.x and PPM 10.x to PPM 10.4.

▪ PPM 10.4 must be installed in a different installation folder than its predecessor versions. For more details on how to migrate data and configurations, please refer the migration guide **PPM Migration 9.x, 10.x to 10.4.**

▪ You must perform the following steps to upgrade the MashZone NextGen custom widgets from version 9.12 to the new version 10.4 of PPM:

▪ exchange the custom widget folder,

▪ export dashboards from the old PPM version and import them into the new version,

▪ convert the PPM context of the dashboards, if required.

For detailed information on how to install custom widgets, see the documents **PPM Widgets for MZNG.pdf** and **PPM Installation**. We recommend that you install new versions of the custom widgets even if you do not upgrade MashZone NextGen.

Analysis

▪ If the PPM client and server are located in different time zones, the server time is valid for all queries.

▪ If you use the PPM export functionality, for example, in combination with Excel, the CSV files use **ISO-8859-1** encoding by default. If you must change the encoding, specify the corresponding **UTF-8** encoding instead of the default **ISO encoding** in the client-specific files **csv.xsl** and **csv_formatted.xsl**. These files are located in the following directory of each client: **<PPM installation directory>\ppm\server\bin\work\data_ppm \config\<client name>\report\xsl**.

▪ If you jump from a **Data Analytics** analysis realm to the process instance list, you must ensure that the filters set do not exceed a certain number of dimension values. Currently, this

value is 10,000 entries. If this number is exceeded, the jump to the process instance list is automatically aborted.

Configuration

▪ We recommend the Firefox or Chrome browser for use with the new **Process Mining configurator**. The new Process Mining configurator enables you to easily create and import a PPM customizing based on a CSV file by using a Web interface without directly accessing the PPM server. CTK provides you with the **process_mining_configurator** template that you need to enable Process Mining configurator.

▪ In planned-value definitions, the use of n-level dimensions as filters is limited to nine levels.

▪ Process types can be configured only as two-level dimensions.

▪ Cardinality measures can be defined only at the most detailed or roughest level for n-level dimensions.

Administration

▪ All PPM components are managed using PPM Cloud Controller (ACC). Please note that PPM Cloud Agent (ACA) must be started in order for you to be able to use ACC.

▪ The RMI and Corba registries are managed using the **ppm_core** component.

▪ The Web application server, the Web server for Query API, and the applet are managed using the **ppm_web** component.

▪ PPM clients consist of two components: the PPM client server (prefix **_cs**) and the PPM analysis server (prefix **_as**).

▪ The new name of Cloud Agent runnables is as follows (for example ppm_web): **20190304.101559_ppm-web-run-prod-10.4.0.0-runnable.zip**.

▪ The basic user management functions (such as creating, deleting, and editing user data) are no longer available in the user administration of the PPM server. From version 9.0 onwards, these functions are provided in the User Management Component. To create new users, you must start the **umcadmin** component in ACA. You can access this service in the Web browser using the following URL: https://<hostname>/umc (default). Specific PPM access privileges and function privileges are still managed and stored in PPM. Users registered in the User Management Component must have the **PPM user** privilege to be able to use PPM.

▪ The User Management Component provides you with the system user **system** in combination with the password **manager**. If you log in with this user and password, you can create and edit new PPM users. From PPM version 9.6, you can find a new additional administration user whose user name is **administrator** and whose password is **manage**.

▪ The signature of the Java applet supplied with PPM expires on May 24 01:59:59 CEST 2020.

▪ You can enable the RMI SSL encryption using ACC. For further information, refer to the document **PPM Operations Guide.**

▪ With this version of PPM, the default communication protocol has changed from HTTPS to HTTP. To enable HTTPS, import your own valid and trusted SSL certificate into the

loadbalancer using ACC commands. For further information, please refer to the document **PPM Operations Guide, chapter 6.3.1**.

Demo Database

- After you have installed the product, the related demo databases are available in the directory **<PPM installation directory>\ppm\server\bin\work\data_ppm\custom\<client>**.

- The demo data of the process instance ranges from 2014 to 2017.

- The **Function Flow** widget for MashZone NextGen is a part of the demo database. *The demo database also includes the **Order processing** demo dashboard.* A corresponding description is also available. In addition, the widgets **Process Variants**, **Root Cause Miner**, and **Jump to PPM client** are delivered independently as a part of PPM.

Display SAP Transaction

- Due to increased security restrictions in the Java Runtime Environment (version 1.7.0_45 and higher), *switching from a PPM process instance list to the SAP transaction module by using a browser (Java Applet or Java Web Start) to access the PPM user interface is no longer supported.* You can use the PPM Analysis GUI instead.

- To switch from the process instance list view in PPM to the transaction module in SAP using the PPM Analysis GUI, you must copy the unsigned JCO driver package to **<PPM installation directory>/ppm/server/bin/work/data_ppm/driver** in order to be able to connect to the correct context in SAP. The PPM applet is no longer supported for this procedure.

- If you want to call a SAP transaction in PPM from a process instance list, you must import a support package in line with SAP OSS note **1258724**.

7   Fixes Included in Each Release

This section lists the latest fix level included in each release for each product component. Go to the Knowledge Center on [Empower Web site](#) for detailed information about fixes.

RELEASE 10.3

- PPM/MashZone 10.3.0 fix version (10.3.3), released 04/04/2019
- PPM/MashZone 10.3.0 fix version (10.3.2), released 02/12/2019
- PPM/MashZone 10.3.0 fix version (10.3.1), released 12/17/2018

RELEASE 10.2

- PPM/MashZone 10.2.0 fix version (10.2.2), released 07/16/2018
- PPM/MashZone 10.2.0 fix version (10.2.1), released 05/22/2018

RELEASE 10.1

- PPM/MashZone 10.1.0 fix version (10.1.8), released 12/11/2018
- PPM/MashZone 10.1.0 fix version (10.1.7), released 11/12/2018
- PPM/MashZone 10.1.0 fix version (10.1.6), released 09/18/2018
- PPM/MashZone 10.1.0 fix version (10.1.5) released 07/12/2018
- PPM/MashZone 10.1.0 fix version (10.1.4), released 04/02/2018
- PPM/MashZone 10.1.0 fix version (10.1.3), released 03/05/2018
- PPM/MashZone 10.1.0 fix version (10.1.2), released 01/09/2018
- PPM/MashZone 10.1.0 fix version (10.1.1), released 11/14/2017

RELEASE 10.0

- PPM/MashZone 10.0.0 fix version (10.0.3), released 10/11/2017
- PPM/MashZone 10.0.0 fix version (10.0.2), released 05/22/2017
- PPM/MashZone 10.0.0 fix version (10.0.1), released 04/19/2017

RELEASE 9.12

- PPM/MashZone 9.12.0 fix version (9.12.015), released 11/22/2018
- PPM/MashZone 9.12.0 fix version (9.12.014), released 10/08/2018
- PPM/MashZone 9.12.0 fix version (9.12.013), released 04/30/2018
- PPM/MashZone 9.12.0 fix version (9.12.012), released 02/19/2018
- PPM/MashZone 9.12.0 fix version (9.12.0.11), released 02/06/2018
- PPM/MashZone 9.12.0 fix version (9.12.0.10), released 12/10/2017
- PPM/MashZone 9.12.0 fix version (9.12.0.9), released 10/20/2017
- PPM/MashZone 9.12.0 fix version (9.12.0.8), released 09/01/2017
- PPM/MashZone 9.12.0 fix version (9.12.0.7), released 07/21/2017
- PPM/MashZone 9.12.0 fix version (9.12.0.6), released 07/10/2017

- PPM/MashZone 9.12.0 fix version (9.12.0.5), released 05/03/2017

RELEASE 9.10

- PPM/MashZone 9.10.0 fix version (9.10.0.10), released 02/23/2018
- PPM/MashZone 9.10.0 fix version (9.10.0.9), released 01/30/2018
- PPM/MashZone 9.10.0 fix version (9.10.0.8), released 08/01/2017
- PPM/MashZone 9.10.0 fix version (9.10.0.7), released 04/10/2017

RELEASE 9.9

- PPM/MashZone 9.9.0 fix version (9.9.0.14), released 02/19/2018
- PPM/MashZone 9.9.0 fix version (9.9.0.13), released 01/05/2018
- PPM/MashZone 9.9.0 fix version (9.9.0.12), released 10/27/2017
- PPM/MashZone 9.9.0 fix version (9.9.0.11), released 08/24/2017

RELEASE 9.8

- PPM/MashZone 9.8.0 fix version (9.8.0.14), released 02/23/2018
- PPM/MashZone 9.8.0 fix version (9.8.0.13), released 12/14/2017
- PPM/MashZone 9.8.0 fix version (9.8.0.12), released 02/15/2017

RELEASE 9.7

- PPM/MashZone 9.7.0 fix version (9.7.0.18), released 03/16/2018
- PPM/MashZone 9.7.0 fix version (9.7.0.17), released 03/06/2107

RELEASE 9.6

- PPM/MashZone 9.6.0 fix version (9.6.0.17), released 06/01/2018
- PPM/MashZone 9.6.0 fix version (9.6.0.16), released 02/27/2017

8 Other Resolved Issues

This section lists issues that were solved, but whose solution was not included in the fixes listed in the previous section.

RELEASE 10.3

- ACS-10341 (Pivotal ID 5364596, fix 3)
  Discrete values were no longer supported in the filter panel. It was no longer possible to evaluate wildcard filters for descriptions of single-level dimensions without using an asterisk or a question mark (wildcard characters).
  This issue is resolved in the current fix version.

- ACS-10329 (fix 3)
  Starting the ARIS Cloud Controller in PPM used to result in an "Access denied" error message indicating that a log file could not be created under C:\ProgramData\ARIS10\acc\log. The issue is resolved in the current version. The log folder for ARIS Cloud Controller was changed to <installdir>\ppm\server\acc\log.

- ACS-10319 (Pivotal ID 5362883, fix 3)
  In the CTK Data module, an error used to occur during the change of the absolute data source directory path.
  This issue is resolved in the current fix version.

- ACS-9873 (Pivotal ID 5356604, fix 2) and ACS-9853 (Pivotal ID 5355380, fix 2)
  The start time for the next possible execution of a PPM job automation was not correctly recalculated after the automation was deactivated and reactivated in CTK.
  This issue is resolved in the current fix version.

- ACS-9797 (Pivotal ID 5353660, fix 2)
  Several Eclipse Jetty security vulnerabilities (CVE-2017-7656, CVE-2017-7657, CVE-2018-12536, CVE-2018-12538) are resolved in the current fix version.

- ACS-9797 (Pivotal ID 5351473, fix 1)
  Numeric measures used as an iteration with a logarithmic or linear step width were not displayed correctly in a report output that was saved in the XLS or XLXS file format.
  This issue is resolved in the current fix version.

- ACS-9709 (Pivotal ID 5341473, fix 1)
  When a report that contained columns such as "KPI added as a dimension" was run, these columns were not exported correctly to the XLS or XLSX format.
  This issue is resolved in the current fix version.

- ACS-9709 (Pivotal ID 5347374, fix 1)
  When a report that contained columns such as "KPI added as a dimension" was run, these columns were not exported correctly to the XLS or XLSX format.
  This issue is resolved in the current fix version.

- ACS-9734 (fix 1)
  In very rare cases it was possible to store an inconsistent user-defined measure configuration in a database. This used to result in an exception during the configuration export.
  This issue is resolved in the current fix version.

- ACS-9771(Pivotal ID 5344842, fix 1)

  When there was a difference between the user login name and the User Principal Name (UPN), the Kerboros login did not work properly.
  This issue is resolved.

- YF-5615 (fix 1)

  The client-server communication used by the Root Cause Miner widget has been optimized with regard to the time-out process running between the widget and PPM loadbalancer.
  This issue is resolved in the current fix version.

- ACS-9366 (Pivotal ID 5335485)

  When the properties of invisible measures were set in the corresponding dialog, a wrong measure used to be preselected.
  This issue is resolved.

- ACS-9351 (Pivotal ID 5335273)

  The EPC view in the process instance list containing cardinality measures did not work. Using this view used to lead to an error message.
  This issue is resolved.

- ACS-9215 (Pivotal ID 5326556)

  There used to be an error displaying dimensions in diagrams. Long dimensions were not properly displayed.
  This issue is resolved.

- ACS-9206 (Pivotal ID 5326464)

  During the alarm value deviation analysis, the display of changed favorite data was not properly refreshed. As a result, the alert values displayed were incorrect.
  This issue is resolved.

- ACS-9194 (Pivotal ID 1328475)

  The data types LONG, VAR, CHAR, and BIT were not properly extracted.
  The BIT data type is now supported for extraction.

- ACS-8670 (Pivotal ID 5307524)

  The process of displaying a very long process instance list used to be canceled. As a result, an error message was issued by the subserver. However, this message was not shown on the client side.
  This issue is resolved.

RELEASE 10.2

- ACS-9282 (fix 2)

  On some Windows Server systems the installation of the PPM Patch Setup failed due to Windows session temp folder name.
  This issue has been resolved.

- ACS-9291 (fix 2)

A process instance with a loop over a connector was resulting in an endless loop.
This issue has been resolved.

▪ ACS-9248 (fix 2)

Conformance check of a non-linearizable process instance leads to an import crash.
This issue has been resolved.

▪ ACS-9258, 9255 (Pivotal ID 5331966, fix2)

The PPM import might crash after activating the conformance check when process instances that do not conform to certain types of ARIS models are imported.
This issue has been resolved.

▪ ACS-9183 (fix 1)

Currently it was not possible to extract BIT columns from the SQL Server when using the JDBC-Extractor of PPM.
The BIT data type is now supported for extraction.

▪ ACS-8751 (Pivotal ID 5312503)

During the report execution the following error message occurred.
"Error executing report. The result set created by the query is too large. The query has therefore been canceled. Please select rougher step widths or further restrict the data range. You can set a maximum of 5,000 steps". After that the created temp folder is not deleted and there will be more and more temp folders over the time.
This issue has been resolved.

▪ ACS-8617 (Pivotal ID 1201776)

Error during recalculation and ppmimport of key indicators.
During the recalculation and ppmimport of the key indicators with error instances a wrong character in database_settings leads to an error.
This issue has been resolved.

▪ ACS-8831
Defect visualization of function flow.
During performing the function flow a display error occurred. For the EPC's visualization the graph layout of the edge paths was defect. A Refresh of the layout did not solve the problem.
This issue has been resolved.

▪ ACS-8737
PPM Client startup fails when analysis server startup takes too long.
This issue has been resolved.

▪ ACS-8701.
Wrong placement of bar labels for "Variants" widget.
The bar labels of the "Variants" widget were not displayed on their correct position.
This issue has been resolved.

▪ ACS-8352
Vulnerable 3rd party library apache httpd used. For this library there are dependencies to the ARIS Infrastructure. For further information see

https://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2017-9788.
This library was in use updated.

RELEASE 10.1

- ACS-9744 (fix 8)
  Trend lines in charts were not configured properly.
  This issue was resolved in the current fix version.

- ACS-9660 (Pivotal ID 5344842, fix 8)
  In case of a difference between User LOGIN Name and User Principal Name (UPN) the Kerboros login did not work properly.
  This issue was resolved in the current fix version.

- ACS-9695 (Pivotal ID 5347374, fix 7)
  Numeric measures used as iteration with a user-defined step width were not displayed correctly when a report was executed to XLS or XLXS format.
  This issue was resolved in the current fix version.

- ACS-9570 (fix 6)
  Jar files have been signed with a new certificate. Valid From: 24.05.2018, 02:00:00 MESZ. Valid To: 24.05.2020, 01:59:59 MESZ.
  This issue was resolved in the current fix version.

- ACS-9359 (fix 6)
  The EPC view of a process instance list with a cardinality measure (based on a function dim) is empty.
  This issue was resolved in the current fix version.

- ACS-9169 (Pivotal ID 5324830, fix 5)
  The key EMAIL defined for the parameter ALARMVALUE_BEHAVIOUR was ignored.
  This issue was resolved in the current fix version.

- ACS-9136 (fix 5)
  Changing the "Include enumeration of superior section" option via "Change properties" dialog was ignored.
  This issue was resolved in the current fix version.

- ACS-9173 (fix 5)
  Under certain circumstances, it happened that statistics were missing in the log files or were not calculated correctly.
  This issue was resolved in the current fix version.

- ACS-9094 (fix 4)
  The temporary folder for HTML-Reports was not deleted after a report has been created.
  This issue was resolved in the current fix version.

- ACS-9077 (fix 4)
  In some circumstances, the "Show more details/Show less details" buttons have moved the slider but the visible nodes and edges were not affected.
  This issue was resolved in the current fix version.

- ACS-9074 (fix 4)
  Hidden nodes and edges no longer show a tooltip when hovering the mouse over the location where they were previously shown.

- ACS-9072 (fix 4)
  When moving the slider between the first and the second edge value, the "Show more details" button was not enabled to switch back to the initial state.
  This issue was resolved in the current fix version.

- ACS-9063 (fix 4)
  In some circumstances, isolated nodes were shown in the Function Flow widget when filtering with the slider. In these cases, the node labels could be dragged outside of the nodes. This issue is resolved and isolated nodes are always hidden.

- ACS-9061 (fix 4)
  It is no longer possible to select hidden nodes and edges by clicking on the location where they were previously shown.

- ACS-9054, ACS-9056 (fix 4)
  The setSelection action in the Function Flow widget is now triggered every time when a node or edge is deselected.

- ACS-9053 (fix 4)
  After filtering the Function Flow widget with the slider, reset layout showed nodes and edges at their initial position every second time when reset layout was used.
  This issue was resolved in the current fix version.

- ACS-9052 (fix 4)
  If a favorite was inserted into a section in the report designer that contains an enumeration, it could happen that the favorite was displayed as incompatible to the enumeration although it was compatible.
  This issue was resolved in the current fix version.

- ACS-9049 (fix 4)
  Since MashZone NextGen 10.1.0.4 node labels of Function Flow widgets were no longer visible.
  This issue was resolved in the current fix version.

- ACS-9015 (fix 4)
  When PPM has been started with the language setting Japanese the filter dialogue doesn't work correctly with quarter filters.
  This issue was resolved in the current fix version.

- ACS-8984 (fix 3)
  German documentation is not shipped with 10.1 Fix 2.
  German documentation was not shipped with GA and any older Fix. With Fix 3 the German product documentation will be installed and can be accessed via client.

- ACS-8878 (fix 3)
  Runinitdb fails for client configured with JA language.
  Check of names of error instances in process tree, configured in database_settings.properties,

did not work in all system environments with multibyte characters.

This issue was resolved in the current fix version.

▪ ACS-8789 (Pivotal ID 5312503, Fix3)

Temp folder will not be deleted after a too big request.

During report generation the report engine writes some files temporarily into the defined Temp folder of the PPM installation. Those files are defined Temp folder of the PPM installation. Those files are not deleted after the report was generated. The temporary files pile up on the hard drive and my lead to other issues in PPM because the disk space runs out. Workaround: delete the PPM Temp folder regularly.

This issue was resolved in the current fix version.

▪ ACS-8891 (Pivotal ID 5313697, Fix3)

Wrong enumeration of dimension values during report generation.

If two dimensions with identical dimension values should be displayed in a cross table report, an index was added to the identical dimension values.

This issue was resolved in the current fix version.

▪ ACS-8819 (Pivotal ID 5315395, Fix 3)

Error Message importing favorites.

When importing favorites via the UI and some favorites have changed during the import, an error message (ClassCastException) occurred during the transfer of the import result.

This issue was resolved in the current fix version.

▪ ACS-8805 (Fix 3)

NPE in SQL Server DB layer during calculation of favorites.

Using an old JDBC driver of MS SQL SQL Server (version 4.x) leads to a NPE using the most recent SQL Server version 2016.

This issue can be avoided by using the most recent MS SQL Server jdbc driver version 6.x.

▪ ACS-8720 (Fix 3)

Runppmconverter: infinite loop when conversion is not successful.

In case the converter run could not be completed the DB Version table is not updated correctly. This could lead to an infinite loop starting the migration process again.

This issue was resolved in the current fix version.

▪ ACS-8890 (Fix 3)

EPC visualization of Function flow changed due to new ARIS Infrastructure.

Due to a change of the graph layout component in the ARIS Infrastructure the structure and layout of a Function flow changed with regard to the positioning of edges and functions in the EPC view.

This issue was resolved in the current fix version.

▪ ACS-8620 (Fix 2)

Wrong character in database_settings.

If a client was created with "French" for configuration-independent items in the process tree, a wrong value was specified in property "ERROR_NODE.STR" in the "Database_settings.properties" file. If a client, created with a previous version, was migrated manually or if a new client with encoding "ISO-8859-1" was created and these clients use "French" for configuration-independent items in the process tree, this could lead to

issues with visibility and typification/calculation of error instances. The wrong property value in the "Database_settings.properties" file, used for creation of new clients, is corrected now, i.e. re-set to the original value. Additional checks were implemented in PPM Import and start of PPM Server to log an error message. If PPM Import logs, that the Analysis Server doesn't know the process type of the error instance, or if PPM Server logs, that the process type of error instances has changed, please contact our product support, which will support you to correct this. To prevent encoding inconsistencies as described above with new clients, database initialization is no longer possible with incorrect encoded values for error instance process types. If this occurs, you have to correct the values of the properties in the "Database_settings.properties" file.

Important notes: If a client is migrated manually, i.e. if migration is not done with CTK, or if a new client is created based on an existing PPM database, the

values of NOT_TYPIFIED.STR, ERROR_NODE.STR and WRONG_TYPIFIED.STR configured

in the ?Database_settings.properties? file of the current PPM version have

to be replaced by the values of previous version as well. This issue was resolved in the current fix version.

- ACS-8639 (Fix 2)
  [Linux] Unable to execute UMC command y-tenantmgmt.sh.
  The tenant managemnt tool in the UMC could not be executed on a Linux based system.
  This issue was resolved in the current fix version.

- ACS-8646 (Fix 2)
  Jump to UMC from PPM GUI doesn't work.
  This issue was resolved in the current fix version.

- ACS-8737 (Pivotal ID 5309856, Fix 2)
  Client server startup fails when analysis server startup takes too much time.
  This issue was resolved in the current fix version.

- ACS-8468 (Fix1)
  New Functionality (YF-3518).
  JDBC-2-PPM Process Extractor is now able to extract timestamps to the nanosecond. This can be configured for JDBC data source in CTK via additional settings "JDBC Extractor settings" or by setting "precisionoftime" to "NANOSECOND" in XML "<JdbcDataSourceName>_System.xml".

- ACS-8500 (Fix1)
  MZNG Widget: Sorting in advanced properties is not updated when dropping the relevance column.
  The sorting option is not available in the advanced properties menu of the PPM Widgets for MashZone NG after dropping the relevance column into the relevance field.
  This issue was resolved in the current fix version.

- ACS-8519 (Fix1)
  URL   for Favorites are not created correctly
  If the loadbalancer was configured to use port 80 for http or port 443 for https, the UI action

"Use in Dashboard" on favorites created a URL with port "-1" .

This issue was resolved in the current fix version.

- ACS-8590 (Fix1)

CTK adapts the memory for analysis server when migrating from PPM 9.6.

The adaption of the memory settings for analysis server is only necessary when migrating an older PPM version to PPM 9.6. But CTK is changing the values all the time, independent from the version and also if they were already adapted by CTK in the last version. It might happen that the memory values can become smaller when they are adapted by CTK.

This issue was resolved in the current fix version.

- ACS-8071 (Fix1)

Rollback with the SUM fails.

The reason for this error was a missing change back of the key local.repository.only in agent.user.cfg after rollback was performed.

This issue was resolved in the current fix version.

- ACS-8248 (Fix1)

Fix installation: Error handling in case of deactivated runnables.

In case a runnable in PPM installation is deactivated the installation of a fix failed. Especially if one or more runnables of the ARIS infrastructure were affected. The error message was not helpful to determine the reason for the failure. A new error message was introduced to make the customer aware of the fact, that all runnables need to be enabled before a fix can be applied.

This issue was resolved in the current fix version.

- ACS-8450 (Fix1)

"collectlogfiles.bat" changes timestamps of log files in ZIP.

Timestamps of logfiles were changed to the current creation date and time while running the tool collectlogfiles on Windows and Linux.

This issue was resolved in the current fix version.

- ACS-8350 (Fix1)

Security Update: the used Tomcat version in PPM was updated to version 8.5.20.

- ACS-8354 (Fix1)

Security Update: the used apache-batik library was updated to version 1.9.

- ACS-8353 (Fix1)

Security Update: the used springsource-spring-security library was updated to 4.2.2.

- ACS-7932 (Fix1)

Security Update: the fasterxml-jackson library was updated to version 2.8.7.

- ACS-8459 (Fix1)

MashZone Function Flow Widgets: Misleading error dialog in case of Read Only permission on dashboards.

In this case a widget configuration change might produce a misleading error dialog, where the user is asked to save the dashboards although without permission.

This issue was resolved in the current fix version.

- ACS-8537 (Fix1)

  Misleading error message during DB-Precondition check.

  If a user was trying to run an invalid combination of JDBC-Driver vs. database version while initializing the PPM database a wrong error message was displayed which was misleading and not correct.

  This issue was resolved in the current fix version.

- ACS-8452 (Fix1)

  Incorrect Docking Framework behavior on certain actions.

  The visibility and positioning of controls (Settings, Process tree, Filters, Variants, etc.)changed during analysis without dedicated user interaction under certain conditions.

  This issue was resolved in the current fix version.

- ACS-8499 (Fix1)

  MashZone Function Flow Widgets: Certain tool tips not available.

  The following tool tips are not available for the PPM MashZone Function Flow Widget

   - assessment in assign data

   - disabled relevance slider in config panel

   - interactive mode

   - scrollbar checkbox in config panel

   - wordwrap checkbox in config panel.

  This issue was resolved in the current fix version.

- ACS-8546 (Fix1)

  Fix uninstallation fails with nonzero exit code.

  It was not possible to uninstall a fix from a PPM installation.

  This issue was resolved in the current fix version.

- ACS-8447 (Fix1)

  Refresh problem in EPC Resources panel of Process structure discovery exception.

  The EPC Resources tab for the process structure discovery function is not properly refreshed if the displayed panels are resized or moved.

  This issue was resolved in the current fix version.

- ACS-8412 (Fix1)

  Closing GUI while execution of a query leads to exception.

  During the execution of a long running query an error message occurs in the PPM master server logs when closing the PPM GUI.

  The error message was updated accordingly.

- ACS-8370 (Pivotal ID 1199809)

  Closing GUI while execution of a query leads to exception.

  During the execution of a long running query an error message occurs in the PPM master server logs when closing the PPM GUI.

  The error message was updated accordingly.

- ACS-8211 (Pivotal ID 5290951)

  Misleading error message when report execution was aborted.

  If a manual report execution is terminated manually a non-corresponding error message

appeared in the log file.

This issue has been resolved.

▪ ACS-8149 (Pivotal ID 5289379)

Misleading error message regarding interruption of cache calculation.

In master subserver scenario a misleading error message occurs during the favorite calculation. The error message was updated accordingly.

▪ ACS-8019

Different behavior of filter dialog in single server and scaled scenario.

If in master/subserver scenario a filter dialog for a dimension is opened which has more values than configured in FILTER_SHOW_LIST_THRESHOLD (Keyindicatore_settings.parameter), then "Select values" tab is opened in the dialog and an empty list is shown. This is different to the single-server scenario, where in such a case the tab "Define expression" is shown and by "Select values" all dimension values are loaded and shown in the dialog.

This issue has been resolved.

▪ ACS-7951 (Pivotal ID5282367)

Initialization of scaled PPM system failed.

The initialization of a scaled system failed under certain conditions if a firewall has been in place between the master and the subservers.

This issue has been resolved.

▪ ACS-7919 (Pivotal ID 5278163)

Misleading message for refined steps of 1- and 2-level dimensions.

During the refining of "other values" step for 1- and 2-level dimensions an incorrect error message occurs.

The expected error message was updated accordingly.

RELEASE 10.0

▪ ACS-8518 (Fix3)

JDBC-2-PPM Process Extractor is now able to extract timestamps to the nanosecond This can be configured for JDBC data source in CTK via additonal settings"JDBC Extractor settings" or by setting "precisionoftime" to "NANOSECOND" in XML "<JdbcDataSourceName>_System.xml".

▪ ACS-8505 (Pivotal ID 5298484, Fix3)

Misleading error message when Java Applet is not starting.

If the loadbalancer was configured to use port 80 for http or port 443 for https, the UI action "Use in Dashboard" on favorites created a URL with port "-1".

This issue is resolved in the current fix.

▪ ACS-8273 (Pivotal ID 5291765, Fix3)

PPM-JDBC-Extractor supports Oracle Driver 12.1.0.2 and newer.

▪ ACS-8182 (Pivotal ID 5289123, Fix3)

The administration of the report automation could not be started if the user was logged in with French language.

This issue is resolved in the current fix.

- ACS-8085 (Pivotal ID 5288181, Fix3)

  Up to now, reports generated by the report automation could not be output as XLSX. The format is now supported and available in the format list for selection.

- ACS-8057 (Fix3)

  If in the master/subserver scenario a filter dialog for a dimension is opened which has more values than configured in FILTER_SHOW_LIST_THRESHOLD (Keyindicatore_settings.parameter) and the "Select values" tab is opened in the dialog, an empty list was shown. This is different to the single-server scenario, where in such a case the tab "Define expression" is shown and if the "Select values" tab is selected all dimension values are loaded and shown in the dialog.

  This issue is resolved in the current fix.

- ACS-8007 (Fix3)

  There is a new certificate for jar signing available. Valid From: 12.05.2017 02:00:00 MESZ. Valid Until: 13.05.2019 01:59:59 MESZ.

- ACS-7998 (Pivotal ID 1288072, Fix3)

  In a scaled system, the dialog "Process key" from context menu entry "Display process keys…" of a selected EPC in process instance list table couldn't be displayed.

  This issue is resolved in the current fix.

- ACS-7984 (Fix3)

  Fix installation rollback failed. The reason for this error was a missing change back of the key local.repository.only in agent.user.cfg after rollback was performed.

  This issue is resolved in the current fix.

- ACS-7977 (Pivotal ID 5284589, Fix3)

  If "localhost" was entered as hostname in the CTK client setup the PPM server could not be started anymore.

  This issue is resolved in the current fix.

- ACS-7937 (Fix3)

  If two or more views should be displayed as a benchmark with the UI action "Benchmark" in the clipboard, the UI went into an unresponsive state under certain conditions.

  This issue is resolved in the current fix.

RELEASE 9.12

- ACS-9733 (Fix 15)

  In very rare cases it might be possible to store an inconsistent user-defined measure configuration in the database. This leads to an exception during the configurations export.

  This issue was resolved in the current fix version.

- ACS-9728 (Fix 15)

  Trend lines in charts were not configured properly .

  This issue was resolved in the current fix version.

- ACS-9721 (Fix 15)

  When executing report with columns like "KPI added as dimension" these columns were not

reported correctly in XLS or XLSX format.

This issue was resolved in the current fix version.

▪ ACS-9571 (Fix 14)

Jar files have been signed with a new certificate. Valid From: 24.05.2018, 02:00:00 MESZ. Valid To: 24.05.2020, 01:59:59 MESZ.

This issue was resolved in the current fix version.

▪ ACS-9174 (Fix13)

Under certain circumstances, it happened that statistics were missing in the log files or were not calculated correctly.

This issue was resolved in the current fix version.

▪ ACS-9163 (Pivotal ID 5324830, (Fix13)

The key EMAIL defined for the parameter ALARMVALUE_BEHAVIOUR was ignored.

This issue was resolved in the current fix version.

▪ ACS-9137 (Fix13)

Changing the "Include enumeration of superior section" option via "Change properties" dialog was ignored.

This issue was resolved in the current fix version.

▪ ACS-9100 (Fix13)

The temporary ACS-9100 (Fix13folder for HTML-Reports was not deleted after the report has been created.

This issue was resolved in the current fix version.

▪ ACS-8877 (Fix12)

Runinitdb fails for client configured with JA language.

Check of names of error instances in process tree, configured in database_settings.properties, did not work in all system environments with multibyte characters.

This issue was resolved in the current fix version.

▪ ACS-8623 (Fix 11)

Wrong character in database_settings.

If a client was created with "French" for configuration-independent items in the process tree, a wrong value was specified in property "ERROR_NODE.STR" in the "Database_settings.properties" file.   If a client, created with a previous version, was migrated manually or if a new client with encoding "ISO-8859-1" was created and these clients use "French" for configuration-independent items in the process tree, this could lead to issues with visibility and typification/calculation of error instances. The wrong property value in the "Database_settings.properties" file, used for creation of new clients, is corrected now, i.e. re-set to the original value. Additional checks were implemented in PPM Import and start of PPM Server to log an error message. If PPM Import logs, that the Analysis Server doesn't know the process type of the error instance, or if PPM Server logs, that the process type of error instances has changed, please contact our product support, which will support you to correct this. To prevent encoding inconsistencies as described above with new clients, database initialization is no longer possible with incorrect encoded values for error instance process types. If this occurs, you have to correct the values of the properties in the "Database_settings.properties" file.

Important notes: If a client is migrated manually, i.e. if migration is not done with CTK, or if a new client is created based on an existing PPM database, the values of NOT_TYPIFIED.STR, ERROR_NODE.STR and WRONG_TYPIFIED.STR configured in the ?Database_settings.properties? file of the current PPM version have to be replaced by the values of previous version as well.

This issue was resolved in the current fix version.

- ACS-8790 (Pivotal ID 5312503, Fix11)
Temp folder will nt be deleted after a too big request.
During report generation the report engine writes some files temporarily into the defined Temp folder of the PPM installation. Those files are defined Temp folder of the PPM installation. Those files are not deleted after the report was generated. The temporary files pile up on the hard drive and my lead to other issues in PPM because the disk space runs out. Workaround: delete the PPM Temp folder regularly.
This issue was resolved in the current fix version.

- ACS-8815 (Pivotal ID 5315395, Fix 11)
Error Message importing favorites.
When importing favorites via the UI and some favorites have changed during the import, an error message (ClassCastException) occurred during the transfer of the import result.
This issue was resolved in the current fix version.

- ACS-8772 (Pivotal ID 5313697, Fix11)
Wrong enumeration of dimension values during report generation.
If two dimensions with identical dimension values should be displayed in a cross table report, an index was added to the identical dimension values.
This issue was resolved in the current fix version.

- ACS-8562 (Fix10)
PPM fix installation failed on Linux.
While updating the postgresql database in the ARIS infrastructure during fix application, the update process failed on postgres level due to a missing file permission.
This issue was resolved in the current fix version.

- ACS-8590 (Fix10)
CTK adapts the memory for analysis server when migrating from PPM 9.6.
The adaption of the memory settings for analysis server is only necessary when migrating an older PPM version to PPM 9.6. But CTK is changing the values all the time, independent from the version and also if they were already adapted by CTK in the last version. It might happen that the memory values can become smaller when they are adapted by CTK.
This issue was resolved in the current fix version.

- ACS-8450 (Fix 9)
Incorrect timestamps caused by program collectlogfiles.bat for log files.
In case of a log file collection for support the time stamps of the log files are not saved properly in a therefore created ZIP file.
This issue is resolved in the current fix.

- ACS-8463 (Fix 9)

  Usage of data fields within report template leads to duplication of fields.

  This issue is resolved in the current fix.

- ACS-8484 (Fix 9)

  MashZone Function Flow Widgets: Misleading error dialog in case of Read Only permission on dashboards.

  In this case a widget configuration change might produce a misleading error dialog, where the user is asked to save the dashboards although without permission.

  This issue is resolved in the current fix.

- ACS-8466 (Fix 9)

  Support timestamps on microsecond level with PPM-JDBC-Extractor..

  As the timestamp is defined on microsecond level while the extractor only support second/milliseconds foreign keys are not correctly resolved.

  This issue is resolved in the current fix.

RELEASE 9.10

- ACS-8876 (Fix10)

  Runinitdb fails for client configured with JA language.

  Check of names of error instances in process tree, configured in database_settings.properties, did not work in all system environments with multibyte characters.

  This issue was resolved in the current fix version.

RELEASE 9.9

- ACS-8875 (Fix14)

  Runinitdb fails for client configured with JA language.

  Check of names of error instances in process tree, configured in database_settings.properties, did not work in all system environments with multibyte characters.

  This issue was resolved in the current fix version.

- ACS-8625 (Fix 13)

  Wrong character in database_settings.

  If a client was created with "French" for configuration-independent items in the process tree, a wrong value was specified in property "ERROR_NODE.STR" in the "Database_settings.properties" file.   If a client, created with a previous version, was migrated manually or if a new client with encoding "ISO-8859-1" was created and these clients use "French" for configuration-independent items in the process tree, this could lead to issues with visibility and typification/calculation of error instances. The wrong property value in the "Database_settings.properties" file, used for creation of new clients, is corrected now, i.e. re-set to the original value. Additional checks were implemented in PPM Import and start of PPM Server to log an error message. If PPM Import logs, that the Analysis Server doesn't know the process type of the error instance, or if PPM Server logs, that the process type of error instances has changed, please contact our product support, which will support you to correct this. To prevent encoding inconsistencies as described above with new clients, database initialization is no longer possible with incorrect encoded values for error instance

process types. If this occurs, you have to correct the values of the properties in the "Database_settings.properties" file.

Important notes: If a client is migrated manually, i.e. if migration is not done with CTK,

or if a new client is created based on an existing PPM database, the

values of NOT_TYPIFIED.STR, ERROR_NODE.STR and WRONG_TYPIFIED.STR configured

in the ?Database_settings.properties? file of the current PPM version have

to be replaced by the values of previous version as well.

This issue was resolved in the current fix version.

- ACS-8387 (Fix12)
  In some rare cases the migration of legacy umc data from 5.1　to 9.9 failed because the group data couldn't be migrated.
  This issue was resolved in the current fix version.

- ACS-8228 (Pivotal ID 5291765, Fix11)
  PPM-JDBC-Extractor now supports Oracle Driver 12.2.0.1.

- ACS-8180 (Pivotal ID 5289123, Fix11)
  The administration of the report automation could not be started if the user was logged in with French language.
  This issue was resolved in the current fix version.

- ACS-8009 (Fix11)
  Jar files have been signed with a new certificate.

  Valid From: 12.05.2017 02:00:00 MESZ

  Valid Until: 13.05.2019 01:59:59 MESZ.

- ACS-7982 (Fix 11)
  Fix installation rollback failed. The reason for this error was a missing change back of the key local.repository.only in agent.user.cfg after rollback was performed　.
  This issue was resolved in the current fix version.

- ACS-7834 (Pivotal ID 1279651, Fix 11)
  Temporary attributes used for debugging were not deleted after debugging typification rules in CTK had been finished.
  This issue was resolved in the current fix version.

- ACS-7822 (Pivotal ID 1279651, Fix 11)
  Debugger for typification rules cannot be started in CTK.
  This issue was resolved in the current fix version.

- ACS-7792 (Pivotal ID 5271022, Fix 11)
  NullPointerException occurred in CTK when MySQL database was used in a JDBC data source and database meta data was read by CTK　.
  This issue was resolved in the current fix version.

- ACS-7739 (Pivotal ID 5273387, Fix 11)
  Error using JDBC special Extractor classes.
  Data extraction class "com.idsscheer.ppm.xmlextractortools.extractor.jdbc2ppm" which is part of JDBC-2-PPM Process Extractor, did not work with fieldnames that contain special

characters, e.g. blanks.

This issue was resolved in the current fix version.

▪ ACS-8876 (Fix10)

Runinitdb fails for client configured with JA language.

Check of names of error instances in process tree, configured in database_settings.properties, did not work in all system environments with multibyte characters.

This issue was resolved in the current fix version.

▪ ACS-8274 (Fix 9)

An error occurs with ODBC Extraction using ojdbc8.jar

This issue is resolved.

RELEASE 9.8

▪ ACS-8874 (Fix14)

Runinitdb fails for client configured with JA language.

Check of names of error instances in process tree, configured in database_settings.properties, did not work in all system environments with multibyte characters.

This issue was resolved in the current fix version.

▪ ACS-8626 (Fix 14)

Wrong character in database_settings.

If a client was created with "French" for configuration-independent items in the process tree, a wrong value was specified in property "ERROR_NODE.STR″ in the "Database_settings.properties" file.   If a client, created with a previous version, was migrated manually or if a new client with encoding "ISO-8859-1" was created and these clients use "French" for configuration-independent items in the process tree, this could lead to issues with visibility and typification/calculation of error instances. The wrong property value in the "Database_settings.properties" file, used for creation of new clients, is corrected now, i.e. re-set to the original value. Additional checks were implemented in PPM Import and start of PPM Server to log an error message. If PPM Import logs, that the Analysis Server doesn't know the process type of the error instance, or if PPM Server logs, that the process type of error instances has changed, please contact our product support, which will support you to correct this. To prevent encoding inconsistencies as described above with new clients, database initialization is no longer possible with incorrect encoded values for error instance process types. If this occurs, you have to correct the values of the properties in the "Database_settings.properties" file.

Important notes: If a client is migrated manually, i.e. if migration is not done with CTK, or if a new client is created based on an existing PPM database, the

values of NOT_TYPIFIED.STR, ERROR_NODE.STR and WRONG_TYPIFIED.STR configured

in the ?Database_settings.properties? file of the current PPM version have

to be replaced by the values of previous version as well.

This issue was resolved in the current fix version.

▪ ACS-8010 (Fix13)

There is a new certificate for jar signing available.
Valid From: 12.05.2017 02:00:00 MESZ
Valid Until: 13.05.2019 01:59:59 MESZ.

- ACS-8181(Fix 13)

The Report automation is not available in French version.

This issue is resolved in the current fix.

- ACS-7983 (Fix 13)

During a CTK client installation with SUM failed, SUM rolled back the fix installation and shows an error message.

This issue is resolved.

RELEASE 9.7

- ACS-8011 (Fix18)

There is a new certificate for jar signing available.
Valid From: 12.05.2017 02:00:00 MESZ
Valid Until: 13.05.2019 01:59:59 MESZ.

RELEASE 9.6

- ACS-8012 (Fix17)

There is a new certificate for jar signing available.
Valid From: 12.05.2017 02:00:00 MESZ
Valid Until: 13.05.2019 01:59:59 MESZ.

9 Documentation Changes

This section shows the documents that were subject to significant changes. It also lists documents that were newly added to the documentation scope. A release is listed in this section only if the release was subject to changes.

RELEASE 10.4

- PPM Compendium in PPM 10.4
- PPM Help topics in PPM 10.4
- PPM Embedded Help in PPM 10.4
- PPM Migration for former versions PPM 9.x, 10.0 to 10.4
- PPM System Architecture in PPM 10.4
- PPM Operation Guide in PPM 10.4
- PPM Installation in PPM 10.4
- PPM Database Systems in PPM 10.4
- PPM Advanced Analysis PPM 10.4
- PPM Data Analytics in PPM 10.4
- PPM Data Import in PPM 10.4
- PPM Customizing in PPM 10.4
- PPM Customizing Toolkit 10.4
- PPM Process Extractors in PPM 10.4
- PPM Process Extractor SAP-2-PPM - SAP Administration
- PPM Content Package for SAP MM PPM 10.4
- PPM Content Package for SAP SD PPM 10.4
- PPM Process Events Import PPM 10.4
- PPM Cloud Infrastructure PPM 10.4
- PPM Widgets for MZNG in PPM 10.4
- PPM Process Conformance Checking with ARIS in PPM 10.4

RELEASE 10.3

- PPM Compendium in PPM 10.3
- PPM Help topics in PPM 10.3
- PPM Embedded Help in PPM 10.3
- PPM Migration for former versions PPM 9.x, 10.0 to 10.3
- PPM System Architecture in PPM 10.3
- PPM Operation Guide in PPM 10.3
- PPM Installation in PPM 10.3
- ARIS PPM Query Interface in PPM 10.3
- PPM Database Systems in PPM 10.3

- PPM Advanced Analysis PPM 10.3
- PPM Process Analytics Quick Start Guide in PPM 10.3
- PPM Data Analytics in PPM 10.3
- PPM Data Import in PPM 10.3
- PPM Customizing in PPM 10.3
- PPM Customizing Toolkit 10.3
- PPM Process Extractors in PPM 10.3
- PPM Process Extractor SAP-2-PPM - SAP Administration
- PPM Content Package for SAP MM PPM 10.3
- PPM Content Package for SAP SD PPM 10.3
- PPM Process Events Import PPM 10.3
- PPM Cloud Infrastructure PPM 10.3
- PPM Widgets for MZNG in PPM 10.3
- ARIS Interface for PPM 10.3

RELEASE 10.2

- PPM Compendium in PPM 10.2
- PPM Online Help in PPM 10.2
- PPM Embedded Help in PPM 10.2
- PPM Migration for former versions PPM 9.x, 10.0 to 10.2.
- System Architecture in PPM 10.2
- PPM Operation Guide in PPM 10.2
- PPM Installation in PPM 10.2
- ARIS PPM Query Interface in PPM 10.2
- PPM Database Systems in PPM 10.2
- PPM Advanced Analysis PPM 10.2
- PPM Six Sigma PPM 10.2
- PPM Data Import in PPM 10.2
- PPM Customizing in PPM 10.2
- PPM Process Extractors in PPM 10.2
- PPM Content Package for SAP MM PPM 10.2
- PPM Content Package for SAP SD PPM 10.2
- PPM Configuration Guide for Process Events Import PPM 10.2
- PPM Cloud Infrastructure PPM 10.2
- PPM Function Flow Widget for MZNG in PPM 10.2
- ARIS Interface for PPM 10.2

RELEASE 10.1

- PPM Compendium in PPM 10.1
- PPM Online Help in PPM 10.1
- PPM Embedded Help in PPM 10.1
- PPM Migration for former versions PPM 9.x, 10.0 to 10.1.
- System Architecture in PPM 10.1
- PPM Operation Guide in PPM 10.1
- PPM Installation in PPM 10.1
- ARIS PPM Query Interface in PPM 10.1
- PPM Database Systems in PPM 10.1
- PPM Data Import in PPM 10.1
- PPM Customizing in PPM 10.1
- PPM Process Extractors in PPM 10.1
- PPM Function Flow Widget for MZNG in PPM 10.1

RELEASE 10.0

- PPM Compendium in PPM 10.0
- PPM Online Help in PPM 10.0
- PPM Embedded Help in PPM 10.0
- PPM Migration for former versions PPM 9.x to 10.0.
- System Architecture in PPM 10.0
- PPM Operation Guide in PPM 10.0
- PPM Installation in PPM 10.0
- ARIS PPM Query Interface in PPM 10.0
- PPM Database Systems in PPM 10.0
- PPM Data Import in PPM 10.0
- PPM Customizing in PPM 10.0
- PPM Process Extractors in PPM 10.0
- PPM Function Flow Widget for MZNG in PPM 10.0

RELEASE 9.12

- Migration Guide for former versions PPM 9.x to 9.12.
- Major updates for System Architecture Guide in PPM 9.12
- Major updates for PPM Operation Guide in PPM 9.12
- Major updates for PPM Installation Guide in PPM 9.12

RELEASE 9.10

- Migration Guide for former versions PPM 9.x to 9.10.

- New System Architecture Guide for version 9.10

RELEASE 9.9

- Migration Guide for former versions PPM 5, PPM 9.x to 9.9.

RELEASE 9.8

- Migration Guide for former versions PPM 5, PPM 9.x to 9.8.

RELEASE 9.7

- Migration Guide for former versions PPM 5, PPM 9.x to 9.7.

10   Terminology Changes

A release is listed in this section only if the release was subject to changes.

RELEASE 10.4

Old Term	New Term
ARIS Process Performance Manager 10.3	ARIS Process Performance Manager 10.4

RELEASE 10.3

Old Term	New Term
ARIS Process Performance Manager 10.2	ARIS Process Performance Manager 10.3

RELEASE 10.2

Old Term	New Term
Software AG ARIS PPM 10.1	ARIS Process Performance Manager 10.2
MashZone NextGen Server	MashZone NextGen

RELEASE 10.1

Old Term	New Term
Software AG ARIS PPM 10.0	Software AG ARIS PPM 10.1
MashZone NextGen Visual Analytics	MashZone NextGen Explorer
MashZone NextGen Business Analytics	MashZone NextGen Server

RELEASE 10.0

Old Term	New Term
Software AG WebMethods PPM/MashZone 9.12.	Software AG ARIS PPM 10.0
Organizational Analysis	Interaction Analysis

RELEASE 9.12

Old Term	New Term
Software AG PPM/MashZone 9.10	Software AG WebMethods PPM/MashZone 9.12.
Central User Management	User Management Component UMC

RELEASE 9.10

Old Term	New Term
Software AG PPM/MashZone 9.9	Software AG PPM/MashZone 9.10.

RELEASE 9.9

Old Term	New Term
Software AG PPM/MashZone 9.8	Software AG PPM/MashZone 9.9.

RELEASE 9.8

Old Term	New Term
Software AG PPM/MashZone 9.7	Software AG PPM/MashZone 9.8.
User Management Component UMC	Central User Management.

RELEASE 9.7

Old Term	New Term
Software AG PPM/MashZone 9.6	Software AG PPM/MashZone 9.7
IDS Scheer and IDS	None.

RELEASE 9.6

Old Term	New Term
Software AG PPM and MashZone 9.5	Software AG PPM/MashZone 9.6
PPM and MashZone Cloud Agent	PPM/MashZone Cloud Agent

11 Added, Removed, Deprecated, or Changed Items

This section lists functionality, controls, portlets, properties, or other items that have been added, removed, marked as deprecated, or changed. A release is listed in this section only if the release was subject to changes.

RELEASE 10.4

Added Item	Description
PPM Process Mining Configurator.	The new PPM Process Mining Configurator enables you to easily create and import a PPM customizing based on a CSV file by using a Web interface without directly accessing the PPM server.
CTK template process_mining_configurator	Template to enable Process Mining configurator.

Removed Item	Replacement, if any
Document ARIS PPM Query Interface in PPM 10.4	
Document PPM Process Analytics Quick Start Guide in PPM 10.4	
Document ARIS Interface for PPM 10.4	

Deprecated Item	Replacement, if any
Data input component for process instance-independent measures in the analysis UI (PIKIs).	
Process Instances, UI component (located in Administration) used for aggregated paramsets.	
Export component of PPM Report function (configured in the configuration part of the analysis UI).	
SAP systems SAP ERP/ECC < 6.0.	
CPI (Continuous Process Improvement).	
Calculation of internal database statistics ("-genstats" option of "runppmimport").	

Added Item	Description
Support of region-specific encodings.	The encoding (that can be selected during client creation in CTK) may be limited to only support UTF-8 for future versions. This also includes the encoding of the underlying database scheme (which also has to support UTF-8 characters).
PPM Analysis GUI installation on the client machine.	
EDA events are marked as deprecated as well as the following features that are based on EDA events: - PPM Process Extractor Universal Messaging-2-PPM - CTK template "WM_process", which uses Universal Messaging data sources.	
The shared fragment mechanism and the corresponding configuration elements *are phased out after version* 10.3.	
The usage of shared functions will be phased out.	
Configuration classes (e.g., calculation classes, merge algorithms, keyrules, transformation rules) that do not refer to classes delivered with the standard product installation of PPM.	
Report engine < PPM 9.6. The option to use the older version of the report engine *will phase out*.	

RELEASE 10.3

Added Item	Description
Variants in scaled systems.	The usage of variants for process instances is now supported in scaled systems (master/subserver scenarios).
BIT datatype for JDBC Extractor.	The JDBC-Extractor supports the BIT datatype for SQL Server now.
MashZone NextGen Root Cause Miner Widget.	This new widget allows to identify the influencing factors to the processes which are to be analyzed.

Added Item	Description
Usage of database SQL Server 2017 (+ SQL Server 2017 Unicode) is possible now.	

Removed Item	Replacement, if any
Query API (API _* context). The formerly deprecated external query-API (represented by <base-url>/ppm/API_<client> has been removed from the product. It is no longer possible to query data via the API_* context	
Dimensions of the data type Timerange are no longer supported in Query API / MZNG Context. These dimensions were removed for queries and cannot be used in existing contexts. Timerange dimensions are no longer available in new contexts.	
Java Applet / Java Webstart.	ARIS PPM Download Client.

Removed Item	Replacement, if any
Management View Administration has been removed.	
Property RMIObjectsBindAddress is removed from RMIServer_settings.properties.	
The already deprecated Minitab integration and also SIX Sigma Integration have been removed from PPM.	
WM_BPMS Template is removed with this version.	
ADABAS support in JDBC adapter. In CTK a JDBC data source contains no longer the database type ADABAS.	
Closed loop analytics integration with WM Optimize. This includes: - Being a jump target of Optimize / Interpret queries of Optimize in PPM provided within the Optimize request - Jump from PPM to Optimize - Functionality to create a PPM configuration from WM Optimize metadata.	
It is no longer possible to select SQL Server 2014 or SQL Server 2014 (Unicode) as a database in CTK Client setup.	
Command Central Support.	Will be replaced by the ARIS Tenant Management tool in a future version.

Deprecated Item	Replacement, if any
Data input component for process instance-independent measures in the analysis UI (PIKIs).	
Process Instances, UI component (located in Administration) used for aggregated paramsets.	
Export component of PPM Report function (configured in the configuration part of the analysis UI).	
SAP Systems SAP ERP/ECC < 6.0.	
CPI (Continuous Process Improvement).	

Deprecated Item	Replacement, if any
Calculation of internal database statistics ("-genstats" option of "runppmimport").	
Support of region specific encodings.	The Encoding (that can be selected during client creation in CTK) may be limited to only support UTF-8 for future versions This also includes the encoding of the underlying database scheme (which also has to support UTF-8 characters).
PPM Analysis GUI installation on the client machine.	
EDA Events are deprecated and everything that is based on EDA events. These are: - PPM Process Extractor Universal Messaging-2-PPM - CTK template "WM_process", which uses Universal Messaging data sources.	
Shared fragment mechanism and its according configuration elements are phased outfor 10.3.	
The usage of shared functions will be phased out.	
Configuration classes (e.g. calculation classes, merge algorithms, keyrules, transformation rules) that do not refer to classes delivered with the standard product installation of PPM.	
Report engine < PPM 9.6. The option to use the older version of the report engine is phased out.	

Changed Item	Description

RELEASE 10.2

Added Item	Description
Conformance Check	It is now possible to check conformity of process instances in PPM vs. modeled target EPCs in ARIS and additional base analysis in PPM has been added.

Removed Item	Replacement, if any
Database platform Microsoft SQL Server 2012	
Installation Routine for ARIS PPM Analysis GUI on Linux based Operating Systems	
SAG Update Manager is no longer used to apply fixes to an ARIS PPM installation	ARIS Patch setup is now used to apply fixes.

Deprecated Item	Replacement, if any
WM_BPMS Template	
Server processes will no longer be bound to specific network adapters	So far the RMI ports of some server processes can be bound to specific network adapters. This had been implemented for a specific use case that became obsolete when we introduced http-based communication between client and server. The functionality is now deprecated and will be removed with a later release, ports will be opened on all network addresses of the server machine.
Data input component (PIKIs) data input component for process instance-independent measures in the analysis UI	
Process Instances, UI component (located in Administration) used for aggregated paramsets.	
Export component (configured in the configuration part of the analysis UI)	
SAP Systems SAP ERP/ECC < 6.0	
CPI (Continuous Process Improvement)	
Calculation of internal database statistics ("-genstats" option of "runppmimport")	
Jump to SAP Transactions in SAP Interface via SAP GUI context menu on Process Instance Tables	
Six-Sigma integration with Minitab Support	
Java Applet	Replaced by Java Webstart.
Command Central Support	Will be replaced by the ARIS Tenant Management tool.

Deprecated Item	Replacement, if any
Support of region specific encodings	The Encoding (that can be selected during client creation in CTK) may be limited to only support UTF-8 for future versions This also includes the encoding of the underlying database scheme (which also has to support UTF-8 characters)
Closed loop analytics integration with WM Optimize	This includes: - Being a jump target of Optimize / Interpret queries of Optimize in PPM provided within the jump - Jump from PPM to Optimize - Functionality to create a PPM configuration out of WM Optimize metadata - The Event-Types related to the WM Optimize integration (StepWaitTime, StepErrorCount, ProcessErrorCount, ProcessInstanceStatusChange) and related customizing from our standard template "WM_process"
PPM Analysis GUI installation on the client machine	
ADABAS support in JDBC adapter	

Deprecated Item	Replacement, if any

Changed Item	Description

PPM menue structure in Windows menue	ARIS
	
	> 10.2
	
	>> Administration
	
	>>> ARIS PPM Cloud Controller 10.2
	
	>>> ARIS PPM Customizing Toolkit 10.2
	
	>> Start Servers
	
	>>> Start ARIS PPM Core 10.2
	
	>>> Start ARIS PPM instances
	
	>>>> Start ARIS PPM 'client1'
	
	>> Stop Servers
	
	>>> Stop ARIS PPM Core 10.2
	
	>>> Stop ARIS PPM instances
	
	>>>> Stop ARIS PPM 'client1'
	
	>> Tools
	
	>>> ARIS PPM GUI 10.2

Installation procedure for PPM	Installation procedure changed from using SAG Installer to ARIS Setup. The new ARIS PPM setup package is now available from the ARIS Download Center
Vulnerable 3rd party apache httpd updated	In Apache httpd before 2.2.34 and 2.4.x before 2.4.27, the value placeholder in [Proxy-]Authorization headers of type 'Digest' was not initialized or reset before or between successive key=value assignments by mod_auth_digest. Providing an initial key with no '=' assignment could reflect the stale value of uninitialized pool memory used by the prior request, leading to leakage of potentially confidential information, and a segfault in other cases resulting in denial of service.

RELEASE 10.1

Added Item	Description
Jump from MashZone Next Gen to PPM incl., SSO	It is now possible to jump from MashZone NextGen to PPM including SSO (Single sign-on). A new custom widget is provided for this functionality.

Added Item	Description
Jump from PPM to MashZone Next Gen incl. SSO	It is now possible to jump from PPM to MashZone NextGen including SSO (Single sign-on). The target URL for MashZone has to be added in the client setup in CTK.
Integration of PPM in ARIS AWARE	With this version PPM can be integrated in ARIS AWARE via MashZone NextGen.
Variant dimension	A new dimension type "variant" has been added to PPM for variants (classification of process instances).
Database platform Microsoft SQL Server 2016	The Database platform Microsoft SQL Server 2016 is supported with this version of ARIS PPM.
New format XLSX for report automation	The XLSX format is available for report automation with this version of ARIS PPM.

Removed Item	Replacement, if any
Process Import component and tool	runxmlimport followed by runppmimport
Database platform Microsoft SQL Server 2008	
Database platform IBM DB2 V9	
HTTPS configuration option removed from SAG Installer panel	To enable it again after installation, the Customer needs to provide its own certificate and activate it using ACC commands (see **Operations Guide** for details).

Deprecated Item	Replacement, if any
WM_BPMS Template	
Server processes will no longer be bound to specific network adapters	So far the RMI ports of some server processes can be bound to specific network adapters. This had been implemented for a specific use case that became obsolete when we introduced http-based communication between client and server. The functionality is now deprecated and will be removed with a later release, ports will be opened on all network addresses of the server machine.
Data input component (PIKIs) data input component for process instance-independent measures in the analysis UI	
Process Instances, UI component (located in Administration) used for aggregated paramsets.	
Export component (configured in the configuration part of the analysis UI)	
SAP Systems SAP ERP/ECC < 6.0	
CPI (Continuous Process Improvement)	
Calculation of internal database statistics ("-genstats" option of "runppmimport")	
Jump to SAP Transactions in SAP Interface via SAP GUI context menu on Process Instance Tables	
Six-Sigma integration with Minitab Support	
Java Applet	Replaced by Java Webstart.
Command Central Support	Will be replaced by the ARIS Tenant Management tool.

Changed Item	Description
Visualize function measures in MashZoneNext Gen widget	It is now possible to visualize a function measure in the function flow graph.
Update timestamps in UMG_EN demo client	The timestamps of the umg_en demo client has been updated to 2016/2017
Vulnerable 3rd party springsource-spring-security replaced	The query API used an outdated framework. This framework has been updated to the latest version. The latest version also contains several other security fixes. If an Axis-Framework is being used to communicate with the query API, the RPC-call needs to be enhanced with the method namespace (QName) and parameter names: call.setOperationName(new QName("http://service.softwareag.com","getData")); call.addParameter("favoritename", null, ParameterMode.IN); call.addParameter("favoritefolder", null, ParameterMode.IN); call.addParameter("globalFilter", null, ParameterMode.IN); call.addParameter("filterFavorite", null, ParameterMode.IN); call.addParameter("filterFavoriteFolder", null, ParameterMode.IN); call.addParameter("language", null, ParameterMode.IN);

RELEASE 10.0

Added Item	Description
Ad-hoc Reports on Clipboard	The functionality to perform Ad-hoc reports based on queries placed in the clipboard has been re-added based on the current report engine.
Renaming of Process Types	With this version of PPM the visible name of a process type or process type group can be changed in CTK.

Added Item	Description
SSO with MashZone Next Gen Business Analytics	As an alternative to the usage of a technical user SSO support is available for PPM Data Sources in MashZone NextGen BA. As an alternative to the usage of a technical user PPM data source in MashZone NextGen supports single sign on with PPM. Data retrieved by PPM data source is filtered based on access rights of currently logged in user.

Removed Item	Replacement, if any
Flex and applet based Management Views	
Performance Dashboard	
Report Converter for conversion from old to new report definition	Please note: For conversion of report definitions of PPM < 5.0 use former PPM versions.
Mash Zone Legacy / Mash Zone Legacy Integration	MashZone Next Gen BA. To visualize the PPM function flow graph a new Custom Widget for MashZone NextGen BA was created.

Deprecated Item	Replacement, if any
SAP Systems SAP ERP/ECC < 6.0	
CPI (Continuous Process Improvement)	
Process Import component and tool	
Calculation of internal database statistics ("-genstats" option of "runppmimport")	
Jump to SAP Transactions in SAP Interface via SAP GUI context menu on Process Instance Tables	
Six-Sigma integration with Minitab Support	
Java Applet	Replaced by Java Webstart.

Changed Item	Description
Using of Data type BLOB in ORACLE 12 Data bases for PPM binary data	For PPM binary data as EPC representations the usage of LONG RAW Data type is changed to BLOB Data type, caused by ORACLE Inc.'s deprecation.
URL for MashZone NextGen data request from PPM	The URL changed from: <protocol>://<host>:<port>/ppm/API_<client> to <protocol>://<host>:<port>/ppmserver/<client>. The context for requests is no longer configurable.
EPC visualization and function flow	The visualization of EPCs and function flow are improved with this version of PPM.
Data retrieval from PPM in MashZone NextGen	It is now possible to use the context of the user which is logged into MashZone NextGen to retrieve data from PPM (SSO supported).

RELEASE 9.12

Added Item	Description
New Analysis UI search functionality	A new search functionality available for all dimensions and measures in the analysis UI is implemented. This functionality works independent from particular process types. For further detailed description please see the documentation.
XLSX format for table export to Excel	With this version of webMethods PPM XLSX format is supported for table export to Excel.
XLSX support as report output format	With this version of webMethods PPM XLSX format is supported as report output format.
Monitoring of PPM server/analysis server in Command Central	This version of webMethods PPM allows remotely the monitoring of PPM server and analysis server in Command Central for cloud based architecture operation aspects. For further detailed description please see the documentation.
PPM data sources in MashZone NextGen	PPM data sources can be visualized in MashZone now. For further detailed description please see the documentation.
Filter PPM data sources in MashZone NextGen	In PPM a filter option is available for the data source data which are visible in MashZone NextGen.

Added Item	Description
New Chart for Visualization	This new diagram type of Organization Analysis can be used in combination with FUNCTION to FUNCTION based relations focused in the visualization of the flow of functions from start to end with their most relevant path by default. For further detailed description please see the documentation.
Microsoft Edge Browser	The Microsoft Edge Browser is certified and supported with this version of PPM.
Separate usage of public server names	In a cloud scenario public server names and internal server names can be used separated for the intra-server cloud communications.
SAP Extractor Secure Connection	A secure connection for SAP data extraction is implemented for this version. The functionality requires SAP JCO 3.0.9 or newer, current version is 3.0.14. For further detailed description please see the documentation.
Migration to PPM 9.12	All former versions of PPM 9.x can be migrated to PPM 9.12.

Removed Item	Replacement, if any
IE10 support	
HTTP Proxy Support	New communication layer based on HTTP/HTTPS

Deprecated Item	Replacement, if any
SAP Systems SAP ERP/ECC < 6.0	
Java Applet	Java Web Start
Performance Dashboard	
Management Views	
Report conversion from old to new report definition	
CPI (Continuous Process Improvement)	
SOAP service of PPM Query API (context: */ppm/<PPM Client>/services/*)	

Removed Item	Replacement, if any
Process Import component and tool	

Changed Item	Description
New Software AG branding updated	The Software AG branding graphics were updated.
New Communication protocol/ RMI Replacement	With this version RMI of end-user Client/Server communication is replaced by new communication protocol. For further detailed description please see **System Architecture Guide** and **PPM Operation Guide**.
Less restrictive locking concept	With this version a less restrictive locking concept is implemented. This functionality allows the user to work on some configuration components while a PPM import is running simultaneously.
Separation of report automation function right and report definition function right	For a better report management the report definition function right and the report automation function right get separated to improve the specific assignment privileges.
Memory extension for PPM Applet	The capacity for memory allocation to start the PPM applet is extended to 1 GB.
PPM Web Start	The PPM user interface is started via Web Start by default.
Table export to XLS format	The XLS export from PPM tables was improved and aligned with the report output format. So the result in XLS from the table export looks the same now with regard to the reports. But concerning the old output format, text and cell alignment have changed.

RELEASE 9.10

Added Item	Description
Optimize Server Connection CLARC	The CTK Configuration Wizard is available in CTK. For further detailed description please see the documentation.

Added Item	Description
PPM Web Start	The PPM GUI can be started also via Web Start to replace the Java Applet. For the detailed configuration description please see the documentation.
Microsoft Windows 10	Available and supported as a new OS.

Removed Item	Replacement, if any
Migration Guide for 5.x to 9.x	

Deprecated Item	Replacement, if any
SAP Systems SAP ERP/ECC < 6.0	
IE10 support	
Java Applet	
HTTP Proxy Support	
Performance Dashboard	
Management Views	
Report conversion from old to new report definition	

Changed Item	Description
New Software AG branding	The Software AG branding graphics were updated.
Use of new **and** old report engine available	New and old report engine can still be used dependent on the report definition. The report definition can be **converted** to the new output format.

RELEASE 9.9

Added Item	Description
Alert Button in PPM Menu	PPM menu contains a new Alert action button that allows user to create an alert in Optimize.
Jump from Optimize to PPM	Support jump from Optimize to PPM.
Partial Data extraction	The extractor allows sequence and time stamp based partial data extraction.
SUSE Linux Enterprise 11	Available and supported as a new OS platform as it was only added to one of the latest fixes in version 9.8. Note: SAP-2-PPM Extractor and SAP content packages SD and MM re not supported on Linux based platforms.

Removed Item	Replacement, if any
Microsoft Internet Explorer 9.x	

Changed Item	Description
Kerberos -SSO	Introduction of an alternative mechanism for Kerberos -SSO in Windows. Editing the registry in windows is no longer necessary.

RELEASE 9.8

Added Item	Description
Databases DB/2 10.5 and SQL Server 2014	Available as new database platforms.
Java 1.8 Runtime Environment	Only this version is supported now.
Migration to PPM 9.8	All former versions of PPM 5.x, PPM, 9.x can be migrated to PPM 9.8.
Automation/ operation individual password for batch jobs	PPM provides scheduling of automated import jobs. For each automation job users can define an individual user/ password combination for

execution.

Multiple data source lists	When working with the Automation module the user can configure their individual data source lists for their automated data extraction or import data from other data systems.
Customizing of data analytics update	During data import into PPM, the import process must be capable of performing a delta load for data upload. In the Data Analytics module the primary key for criterions can be customized. For dimensions and measures the types TEXT, TIME STAMP and INTEGER are selectable for primary keys.
Additional Optimize/ PPM Interface	Enhanced communication protocol between Optimize and PPM for enhanced business analysis.

Removed Item	Replacement, if any
Restore Button in SAG Installer.	
Java 7.	Java 8.
Windows 32 Bit.	

Changed Item	Description
Update BPMS process template.	All event types of the BPMS template are updated from version 1.0 to version 2.0.
UMC data in persistence layer	The UMC user and license data is no longer stored in a data base module (PostgreSQL or other former supported DB systems like Oracle or SQL Server). The data is now stored in the "**elastic**" module of the infrastructure.

RELEASE 9.7

Added Item	Description

Added Item	Description
SUM Support Enhancement	Software AG Update Manager (SUM) enables users to uninstall fixes and rollback fixes for all PPM/ Mash Zone/ Infrastructure versions.
Migration to PPM 9.7	All former versions of PPM 5.x, PPM, 9.x can be migrated to PPM 9.7.
Transport /staging of PPM client data	In CTK PPM allows the data transport of configuration parts. Client data can be imported/ exported between PPM systems.
Automation/ operation for batch jobs	PPM provides scheduling of automated import jobs. In CTK certain batch files can be managed as user-defined execution job. This includes CTK-provided batch-files as well as customer-written batch files, which can be executed via the CTK.
Data analytics persistence storage mechanism	There was a recovery file for data analytics; however if the system has a failure and need re-initialization this file was not available. There is now a more robust recovery mechanism for Data Analytics.
Enhanced analytical functionality of Data analytics	Statistical analysis through standard deviation and percentile calculation is now also supported in Data Analytics and Cross Analytics realms.

RELEASE 9.6

Added Item	Description
Support for percentiles	Introduction of percentiles to summarize value distributions in PPM charts and tables.
New report output engine	A new report output engine was introduced for PPM 9.6 based on Aspose.
Additional administration account	A new additional administration account was added to comply with new IBO standards. The name is "administrator" and the default password is "manage". The name of this new user is case insensitive.
Start/Stop items in Windows start menu	For every newly created PPM client, a separate start and stop entry is created in the Windows Start Menu.

Added Item	Description
CTK Event Type configuration wizard for measures and dimensions	This new wizard is supposed to support the configuration of measures and dimensions based on the EDA Event Type in the CTK.
Data source lists	Introduction of multiple data source configuration with different types.

Removed Item	Replacement, if any
SAP Transaction support in PPM Applet	

Deprecated Item	Replacement, if any
Old report output engine	New report output engine based on Aspose

Changed Item	Description
PPM/MashZone Cloud Agent port	New default port: 17002
Loadbalancer standard HTTP port	New default port: 4080 The user can changes this value if necessary.
Loadbalancer standard HTTPS port	New default port: 4443 The user can changes this value if necessary.

12   Added, Removed, Deprecated, or Changed Built-In Services

A release is listed in this section only if the release was subject to changes.

Release 10.4

Changed Service	Description
ARIS PPM Cloud Agent 10.4	The service was renamed from Software AG PPM/MashZone Cloud Agent 10.3. New default port: 17012. The new name of Cloud Agent runnables is composed as in the following example: **20190328.091714_ppm-web-run-prod-10.4.0.0-runnable.zip**

RELEASE 10.3

Added Service	Description

Removed Service	Replacement, if any

Deprecated Service	Replacement, if any

Changed Service	Description
ARIS PPM Cloud Agent 10.3	The service was renamed from Software AG PPM/MashZone Cloud Agent 10.2. New default port: 17011. The new name of Cloud Agent runnables is composed as in the following example: **20180828.091714_ppm-web-run-prod-10.3.0.0-runnable.zip**

RELEASE 10.2

Added Service	Description

Removed Service	Replacement, if any

Deprecated Service	Replacement, if any

Changed Service	Description
ARIS PPM Cloud Agent 10.2	The service was renamed from Software AG PPM/MashZone Cloud Agent 10.1. New default port: 17010. The new name of Cloud Agent runnables is composed as in the following example: **20170227.085637_ppm-web-run-prod-10.2.0-runnable.zip**

RELEASE 10.1

Added Service	Description

Removed Service	Replacement, if any

Deprecated Service	Replacement, if any

Changed Service	Description
PPM Cloud Agent 10.1	The service was renamed from Software AG PPM/MashZone Cloud Agent 10.0. New default port: 17009. The new name of Cloud Agent runnables is composed as in the following example: **20170227.085637_ppm-web-run-prod-10.1.0-runnable.zip**

RELEASE 10.0

Added Service	Description

Removed Service	Replacement, if any

Deprecated Service	Replacement, if any

Changed Service	Description
PPM Cloud Agent 10.0	The service was renamed from Software AG PPM/MashZone Cloud Agent 9.12. New default port: 17008.
	The new name of Cloud Agent runnables is composed as in the following example:
	20170227.085637_ppm-web-run-prod-10.0.0-runnable.zip

RELEASE 9.12

Added Service	Description

Removed Service	Replacement, if any

Deprecated Service	Replacement, if any

Changed Service	Description
PPM/MashZone Cloud Agent 9.12	The service was renamed from **Software AG PPM/MashZone Cloud Agent 9.10**. New default port: 17007

RELEASE 9.10

Added Service	Description

Removed Service	Replacement, if any

Deprecated Service	Replacement, if any

Changed Service	Description
PPM/MashZone Cloud Agent 9.10	The service was renamed from **Software AG PPM/MashZone Cloud Agent 9.9**. New default port: 17006

RELEASE 9.9

Changed Service	Description
PPM Platform Manager 9.9	The service was renamed from WM Platform Manager
PPM/MashZone Cloud Agent 9.9	The service was renamed from **Software AG PPM/MashZone Cloud Agent 9.8**".

RELEASE 9.8

Added Service	Description
WM Platform Manager.	

Changed Service	Description
PPM/MashZone Cloud Agent 9.8	The service was renamed from "**Software AG PPM/MashZone Cloud Agent 9.7**" to "**Software AG PPM/MashZone Cloud Agent 9.8**".

RELEASE 9.7

Changed Service	Description
PPM/MashZone Cloud Agent 9.7	The service was renamed from "**Software AG PPM/MashZone Cloud Agent 9.6**" to "**Software AG PPM/MashZone Cloud Agent 9.7**".

RELEASE 9.6

Changed Service	Description
PPM and MashZone Cloud Agent	The service was renamed from PPM and MashZone Cloud Agent to PPM/MashZone Cloud Agent. The service listens on port 17002 by default

13   Added, Removed, Deprecated, or Changed Parameters

RELEASE 10.4

Added Parameter	Description

Removed Parameter	Replacement, if any

Deprecated Parameter	Replacement, if any

Changed Parameter	Description

14   Added, Removed, Deprecated, or Changed APIs

RELEASE 10.4

Added API	Description

Removed API	Replacement, if any

Deprecated API	Replacement, if any

Changed API	Description

RELEASE 10.3

Added API	Description

Removed API	Replacement, if any
Query API (API _* context). The formerly deprecated external query-API (represented by <base-url>/ppm/API_<client> has been removed from the product. It is no longer possible to query data via the API_* context	

Deprecated API	Replacement, if any

Changed API	Description

RELEASE 10.2

Added API	Description

Removed API	Replacement, if any

Deprecated API	Replacement, if any
SOAP service of PPM Query API (context: */ppm/API_<PPM Client>/services/*)	
External Query-API	The external Query-API (http://<host>:<port>/ppm/API_<PPM Client>) is now deprecated and will be replaced by a different web service in a future version of PPM.

Changed API	Description

RELEASE 10.1

Added API	Description

Removed API	Replacement, if any

Deprecated API	Replacement, if any
SOAP service of PPM Query API (context: */ppm/API_<PPM Client>/services/*)	

Deprecated API	Replacement, if any
External Query-API	The external Query-API (http://<host>:<port>/ppm/API_<PPM Client>) is now deprecated and will be replaced by a different web service in a future version of PPM.

Changed API	Description

RELEASE 10.0

Added API	Description

Removed API	Replacement, if any

Deprecated API	Replacement, if any
SOAP service of PPM Query API (context: */ppm/API_<PPM Client>/services/*)	
External Query-API	The external Query-API (http://<host>:<port>/ppm/API_<PPM Client>) is now deprecated and will be replaced by a different web service in a future version of PPM.

Changed API	Description

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YPI-RM-104-20190401