software AG

ARIS Process Performance Manager
RELEASE NOTES

Version 10.5

October 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 file contains important information about using ARIS Process Performance Manager 10.5. 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.

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.**

- 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**). From 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 10.5. However, CTK supports a semi-automated migration for PPM 9.x and PPM 10.x to PPM 10.5.

- PPM 10.5 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 10.5.**

- You must perform the following steps to upgrade the MashZone NextGen custom widgets from version 9.12 to the new version 10.5 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** 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 the usage of **Process Mining configurator**. From version 10.4 onwards 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 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): **20190904.101559_ppm-web-run-prod-10.5.0.0-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 User Management. To create new users, you must start the **umcadmin** component in Cloud Agent. 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 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 is 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 Changes in version 10.5

7.1 Resolved issues in current version

ACS-10781

Filtering on indexed time dimensions

Defining a time dimension index with the refinement **BY_DAY** and running a query for this dimension based on a filter triggering the use of the index had the effect that when the earliest time stamp of the filter referred to a year for which no data was available, the filter was applied to the first year that contained data. Consequently, wrong query results were returned.

ACS-10644

Function flow behavior of unsupported requests

Previously, the **Function Flow** widget allowed the creation of queries that did not make sense from a functional point of view and would produce functionally incorrect results.
Now, it is no longer possible to create queries in which measures or dimensions of different levels of detail can be mixed. This is prevented due to a change in the UI (column can no longer be assigned using Drag-and-Drop). Furthermore, with old widgets that have such a configuration, ARIS PPM rejects the requests by issuing an error message. In addition, these columns are marked red in the **Assign data** dialog, so that the user knows that he has to change something at this point.

7.2 Documentation canchges

- PPM Compendium in PPM 10.5
- PPM Help topics in PPM 10.5
- PPM Embedded Help in PPM 10.5
- PPM Migration for former versions PPM 9.x, 10.0 to 10.5
- PPM System Architecture in PPM 10.5
- PPM Operation Guide in PPM 10.5
- PPM Installation in PPM 10.5
- PPM Database Systems in PPM 10.5
- PPM Advanced Analysis PPM 10.5
- PPM Data Analytics in PPM 10.5
- PPM Data Import in PPM 10.5
- PPM Customizing in PPM 10.5
- PPM Customizing Toolkit 10.5
- PPM Process Extractors in PPM 10.5
- PPM Process Extractor SAP-2-PPM - SAP Administration in PPM 10.5

- PPM Content Package for SAP MM PPM 10.5

- PPM Content Package for SAP SD PPM 10.5

- PPM Process Events Import PPM 10.5

- PPM Cloud Infrastructure PPM 10.5

- PPM Widgets for MZNG in PPM 10.5

- PPM Process Conformance Checking with ARIS in PPM 10.5

7.3 Terminology changes

Old Term	New Term
ARIS Process Performance Manager 10.4	ARIS Process Performance Manager 10.5

7.4 Added, removed, deprecated or changed items

Added Item	Description
Database platform Oracle 19	Usage of database Oracle 19 is possible now.

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").	

Support of region-specific encodings.

The encoding (that can be selected during client creation in CTK) will 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.

Shared fragment mechanism and corresponding configuration elements for shared fragments.

The usage of shared functions.

Configuration classes (for example, 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*.

Changed Item	Description
Analysis Server indices	Analysis Server indices as configured in **AnalysisServer_settings.properties** file are added/removed automatically during process data import and analysis server restart (before version 10.5 a reinitialization of the Analysis Server was needed). Also, indices for dimensions which are assigned to a limited set of process types consume less RAM. Changes to core configurations (such as keyindicator or processtree) make it necessary to run a (potentially empty) PPM import to make indices usable again.

Function right **Conformance configuration** is renamed into **ARIS data transfer** and extended.

To import models into ARIS, the user needs the function right **ARIS data transfer**
This function right was previously named **Conformance configuration** and also enables users to configure reference models for the conformance check in PPM.

7.5 Added, removed, deprecated, or changed Built-In Services

Changed Service	Description
ARIS PPM/ MashZone Cloud Agent 10.5	The service was renamed from ARIS PPM/MashZone Cloud Agent 10.4. New default port: 17013.
	The new name of Cloud Agent runnables is composed as in the following example:
	20190928.091714_ppm-web-run-prod-10.5.0.0-runnable.zip

7.6 Added, removed, deprecated, or changed parameters

In this version, no changes were made to parameters.

7.7 Added, removed, deprecated, or changed APIs

In this version, no changes were made to APIs.

8 Former versions

8.1 Release 10.4

8.1.1 Fixes included in 10.4

- PPM/MashZone 10.4.0 fix version (10.4.3), released 07/16/2019
- PPM/MashZone 10.4.0 fix version (10.4.2), released 06/12/2019
- PPM/MashZone 10.3.0 fix version (10.4.1), released 05/07/2019

8.1.2 Resolved issues in 10.4

ACS-10563 (Pivotal ID 1380525, Fix 3)

If users were in several groups, it could happen that permissions on favorites
folders were not correctly present. It could only occur that the user had too
few permissions.

ACS-10479 (Fix 2)

Under certain conditions it can happen on some operating systems that a custom
cursor could not be loaded by ARIS PPM while starting the CTK UI.

ACS-10404 (Fix 1)

Memory problem with large/complex graphs
Function Flow widget is not able to display huge and complex graphs. No error
message is displayed.

ACS-10407 (Fix 1)

Function Flow widget does not show error messages from layout computation
The function flow widget does not display any error message if issues occur
drawing the workflow graph.

8.1.3 Documentation changes

- 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

8.1.4 Terminology changes

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

8.1.5 Added, removed deprecated or changed items

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").	
Support of region-specific encodings.	The encoding (that can be selected during client creation in CTK) will 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.	
Shared fragment mechanism and corresponding configuration elements for shared fragments.	
The usage of shared functions.	

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*.

8.1.6   Added, removed, deprecated, or changed Built-In Services

Changed Service	Description
ARIS PPM/ MashZone Cloud Agent 10.4	The service was renamed from ARIS 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**

8.1.7   Added, removed, deprecated, or changed parameters

In this version, no changes were made to parameters.

8.1.8   Added, removed, deprecated, or changed APIs

In this version, no changes were made to APIs.

8.2   Release 10.3

8.2.1   Fixes included in 10.3

- PPM/MashZone 10.3.0 fix version (10.3.7), released 10/17/2019
- PPM/MashZone 10.3.0 fix version (10.3.6), released 08/06/2019
- PPM/MashZone 10.3.0 fix version (10.3.5), released 07/12/2019
- PPM/MashZone 10.3.0 fix version (10.3.4), released 05/31/2019
- 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

8.2.2 Resolved issues in 10.3

- ACS-10886 (fix 7)

  Filtering on indexed time dimensions.

  Defining a time dimension index with the refinement **BY_DAY** and running a query for this dimension based on a filter triggering the use of the index had the effect that when the earliest time stamp of the filter referred to a year for which no data was available, the filter was applied to the first year that contained data. Consequently, wrong query results were returned.

  ACS-10599 (fix 6)
  When replacing measures in some charts, the wrong name is displayed on the axis.

- ACS-10473 (Pivotal ID 1380525, fix 6)
  Users residing in several groups are facing issues with permissions on favorites folders. The permissions are not properly delegated.

- Documentation (fix 6)
  With the current fix version the complete ARIS PPM Technical Documentation is available in Portuguese language.

- ACS-10486 (fix 5)
  With the current fix version Portuguese language is available also for ARIS PPM CTK.

- ACS-10473 (Pivotal ID 5369759, fix 4)
  In certain cases and operating systems a custom cursor might not be loaded by ARIS PPM while starting the CTK GUI

- ACS-10357 (Pivotal ID 5365108 fix 4)
  In the Report Editor graphics marked "behind the text" were no longer displayed. However they were displayed properly in the executed report.

- ACS-10380 (fix 4)
  With the current version ARIS PPM also supports Portuguese language. This includes the user interface and commandline tools.

- 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).

- 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.

- 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.

- 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.

- 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.

- 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.

- 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.

- 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.

- 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.

- ACS-9366 (Pivotal ID 5335485)

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

- 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.

- ACS-9215 (Pivotal ID 5326556)

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

- 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.

- 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.

8.2.3   Documentation changes

- 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 in PPM 10.3

- 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

8.2.4 Terminology changes

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

8.2.5 Added, removed, deprecated or changed items

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.
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.

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).	
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) will 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.

8.2.6 Added, removed, deprecated, or changed Built-In Services

Changed Service	Description
ARIS PPM/ MashZone 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**

8.2.7   Added, removed, deprecated, or changed parameters

In this version, no changes were made to parameters.

8.2.8   Added, removed, deprecated, or changed APIs

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	

8.3   Release 10.1

8.3.1   Fixes included in 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

8.3.2   Resolved issues in 10.1

- ACS-10887 (fix 9)

  Filtering on indexed time dimensions

  Defining a time dimension index with the refinement **BY_DAY** and running a query for this dimension based on a filter triggering the use of the index had the effect that when the earliest time stamp of the filter referred to a year for which no data was available, the filter was applied to the first year that contained data. Consequently, wrong query results were returned.

- ACS-9744 (fix 8)
  Trend lines in charts were not configured properly.

- 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.

- 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.

- 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.

- ACS-9359 (fix 6)
  The **EPC** view of a process instance list with a cardinality measure (based on a function dim) is empty.

- ACS-9169 (Pivotal ID 5324830, fix 5)
  The key EMAIL defined for the parameter **ALARMVALUE_BEHAVIOUR** was ignored.

- ACS-9136 (fix 5)
  Changing the **Include enumeration of superior section** option via **Change properties** dialog was ignored.

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

- ACS-9094 (fix 4)
  The temporary folder for HTML-Reports was not deleted after a report has been created.

- ACS-9077 (fix 4)
  In some circumstances, the **Show more details** and **Show less details** buttons have moved the slider but the visible nodes and edges were not affected.

- 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.

- 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.

- 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.

- ACS-9049 (fix 4)

  Since MashZone NextGen 10.1.0.4 node labels of Function Flow widgets were no longer visible.

- ACS-9015 (fix 4)

  When PPM has been started with the language setting Japanese the filter dialogue doesn't work correctly with quarter filters.

- 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.

- 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.

- 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.

- 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.

- 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.

- 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.

- 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.

- 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.

- ACS-8646 (Fix 2)
  Jump to UMC from PPM GUI doesn't work.

- ACS-8737 (Pivotal ID 5309856, Fix 2)
  Client server startup fails when analysis server startup takes too much time.

- 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.

- 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" .

- 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.

- 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.

- 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.

- 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.

- 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.

- 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.

- 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.

- 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.

- ACS-8546 (Fix1)

  Fix uninstallation fails with nonzero exit code.

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

- 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.

- 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.

- 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.

- 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.

- 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.

8.3.3 Documentation changes

- 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

8.3.4   Terminology changes

Old Term	New Term
ARIS Process Performance Manager 10.0	ARIS Process Performance Manager 10.1

8.3.5   Added, removed, deprecated or changed items

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.
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);

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

Changed Service	Description
ARIS PPM/ MashZone 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**

8.3.7 Added, Removed, Deprecated, or Changed Parameters

In this version, no changes were made to parameters.

8.3.8 Added, Removed, Deprecated, or Changed APIs

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.

8.4　　Release 9.12

8.4.1　　Fixes included in 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

8.4.2　　Issues resolved in 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.

- ACS-9728 (Fix 15)
  Trend lines in charts were not configured properly.

- 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.

- 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.

- ACS-9174 (Fix13)
  Under certain circumstances, it happened that statistics were missing in the log files or were not calculated correctly.

- ACS-9163 (Pivotal ID 5324830, (Fix13)
  The key EMAIL defined for the parameter ALARMVALUE_BEHAVIOUR was ignored.

- ACS-9137 (Fix13)
  Changing the "Include enumeration of superior section" option via "Change properties" dialog
  was ignored.

- ACS-9100 (Fix13)
  The temporary ACS-9100 (Fix13folder for HTML-Reports was not deleted after the report has
  been created.

- 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.

- 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.

- ACS-8790 (Pivotal ID 5312503, Fix11)
  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.

- 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.

- 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.

- 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.

- 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.

- 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.

- ACS-8463 (Fix 9)
  Usage of data fields within report template leads to duplication of fields.

- 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.

- 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.

8.4.3 Documentation Changes

- 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

8.4.4 Terminology Changes

Old Term	New Term
ARIS Process Performance Manager 9.10	ARIS Process Performance Manager 9.12

8.4.5 Added, removed, deprecated or changed Items

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.
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
Process Import component and tool	

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/*)

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.

8.4.6   Added, removed, deprecated, or changed Built-In Services

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

8.4.7   Added, removed, deprecated, or changed parameters

In this version, no changes were made to parameters.

8.4.8   Added, removed, deprecated, or changed APIs

In this version, no changes were made to APIs.

9   Copyright information

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