

Software AG Process Performance Manager 9.9 Readme

October 2015

This file contains important information you must read before using Software AG Process Performance Manager 9.9. You can find user documentation on the [Software AG Documentation website](#). At those locations, you can also find the suite-related information listed below.

- webMethods Product Suite Release Notes*
- webMethods and Intelligent Business Operations System Requirements*
- webMethods System Cache Specifications*
- Using the Software AG Installer*
- Installing webMethods and Intelligent Business Operations Products*
- Using the Software AG Update Manager (fixes)*
- Upgrading webMethods and Intelligent Business Operations Products*
- Product Documentation

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1.0 Critical Information

This section lists any critical issues for the current release that were known when this readme was published. For critical information found later, go to the Knowledge Center on the [Empower website](#).

2.0 Known Issues

This section lists any issues for the current release that were known when this readme was published. For known issues found later, go to the Knowledge Center on the [Empower website](#).

- ACS-5801
Session losses caused by invalid UMC sessions
If the server receives a lot of Query-API requests, either by Management Views, Performance Dashboard or MashZone with a lot of logged in users, the mechanism to extend UMC connections could break and stop working if a new connection is established, while the session renewal takes place. As result the UMC-session losses and the user would have to login again before the session has reached the maximum configured lifetime.
There is currently no workaround for this issue.
- Documentation
The English version of the Installation Guide and Operations Guide was not updated so far.
For the latest version of documentation please look on the Empower website where this is available.
- Embedded Help
The English version of the Embedded Help, particularly for CTK modules “Data Extraction”, “Data Source” and “Data Analytics” was not updated completely. For PPM “Create Alert in Optimize” the English version of the Embedded Help and the Online Help are not completed.

3.0 Usage Notes

This section provides any additional information you need to work with the current release of this product.

Installation

- In the current version, the PPM products support only version Java 1.8 Runtime Environments.
- To operate the Applet in a browser, only the Java 1.8 Plug-in in combination with a Java Runtime Environment Version 1.8 is supported.
- Clear the Java Plug-in cache after the installation of a new PPM version.
- If you added project-specific runtime libraries (jar files) to your PPM installation, you will need to update these custom classes in order to match the new PPM version after the upgrade.

To update the project-specific runtime libraries, please contact Software AG product support.

- PPM/MashZone Cloud Agent is access-protected by a user/password combination. The combination is saved in the provided start and stop scripts (User = **Clous** and password = **g3h31m**). We urgently recommend that you change the access data for a productive system. Further information is available in the **PPM Installation** document and **PPM Operation Guide**.
- In addition to the familiar **PPM help topics** contained in the online help, all other PDF documents and the PPM Compendium are provided via a Web service. For a correct representation of the help and the documents the component **ppm_web** must be started.
- SAG Update Manager is used to install or uninstall fixes of PPM. We recommend installing the Update Manager in a separate installation directory than the other Software AG products. Further details on how to use the Update Manager can be found in the document **Using SAG Update Manager**.

Upgrade

- There is no migration tool to upgrade directly from an installed predecessor version to the new version 9.9. However, CTK supports a semi-automated migration for PPM 5.x -> PPM 9.9 and PPM 9.x -> PPM 9.9.
- PPM 9.9 must be installed in another installation folder than its predecessor versions. More information on migrating data and configuration is available in the migration guides:
Migrating from 5.x to 9.9: **PPM Migration 5.x to 9.9**
Migrating from 9.x to 9.9: **PPM Migration 9.x to 9.9**

Analysis

- If client and server are located in different time zones, the server time applies for all queries.
- When using a PPM client with UTF-8 character set support, you need to enter the corresponding **UTF-8** encoding instead of the default **ISO-8859-1** for the CSV export in the client-specific files **csv.xml** and **csv_formatted.xml**. These files can be found in the following directory of every client: **<PPM installation directory>\bin\work\data_ppm \config<client name>report\xsl**. Reports exported in CSV format using **UTF-8** encoding cannot be imported into MS Excel because the encoding used for the CSV file is incompatible to the **UTF-16LE** encoding used by MS Excel. **UTF-16LE** is not supported by PPM.
- When jumping from a Data Analytics analysis realm to the process instance list you need to 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.

Management Views

- The applet-based Management Views from earlier PPM 4.x versions can still be used but are no longer available in the Management View editor.
- In Flex-based Management Views, not all known chart and table formats from analysis are available.

Configuration

- In planned value definition, the use of n-level dimensions as filters is limited to nine levels.
- Process types can only be configured as two-level dimensions.
- Cardinality measures can only be defined at the most detailed and the roughest level for n-level dimensions.

Administration

- Administration of all PPM components is carried out with PPM/MashZone Cloud Controller (ACC). Please note that PPM/MashZone Cloud Agent (ACA) must be started to be able to use ACC.
 - The RMI and Corba registries are managed using the **ppm_core** component.
 - Web application server and Web server for PPM Performance Dashboard, query API, and applet are managed using the **ppm_web** component.
 - PPM clients consist of two components: the actual PPM client server (prefix **_cs**) and the PPM analysis server (prefix **_as**).
- The basic functions for user management (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 central user management. To create new users, the **umcadmin** component must be started in ACA. You can access this service in the Web browser using the URL: <https://<hostname>/umc> (default). Specific PPM access privileges and function privileges are still managed and saved in PPM. For users registered in central user management to be able to use PPM they must have the **PPM user** privilege.
- Initially, the system user **system** with the password **manager** is available in central user management. New PPM users can be created and edited by means of this administrator. For PPM 9.6 a new additional administration user was introduced: username = **administrator**, password = **manage**.
- The signature of the Java applet supplied with PPM expires on May 18, 2016 at 2:00am CEST.
- Activating the SSL encryption is possible only using ACC. For further information please refer to the **PPM Operation Guide**.

Demo Database

- The demo databases are available after installation in the directory **<PPM installation directory>\server\bin\work\data_ppm \custom\<client>**.
- Process instance demo data ranges from 2009-2011.
- The English version of the demo database contains additional scenarios pertaining to MashZone integration including predefined dashboards and scenarios for the new Data analytics component. For further information please refer to the document PPM Installation.

Display SAP Transaction

- Due to increased security restrictions in the Java Runtime Environment (version 1.7.0_45 and higher), the switch from a PPM process instance list to the SAP transaction module using the applet is no longer supported. You can use the Analysis GUI of PPM instead.
- To switch from the process instance list view in PPM to the transaction module in SAP using the PPM Analysis GUI, you need to copy the unsigned JCO driver package to **<PPM installation directory>/ server/bin/work/data_ppm/driver** in order to be able to connect to the right context in SAP. Using PPM Applet for that jump is no longer supported.
- If you want to call an SAP transaction in PPM from a process instance list, you must import a support package in line with SAP-OSS note **1258724**.

4.0 Fixes Included in Each Release

This section lists the latest fix level that has been included in each release for each product component. A release is listed in this section only if changes occurred in that release. Go to the Knowledge Center on the [Empower website](#) for detailed information about fixes.

Release 9.8

- PPM/MashZone 9.8.0 Fix Version (9.8.0.4) scheduled 08/21/2015
- PPM/MashZone 9.8.0 Fix Version (9.8.0.3) scheduled 07/11/2015
- PPM/MashZone 9.8.0 Fix Version (9.8.0.2) scheduled 06/30/2015
- PPM/MashZone 9.8.0 Fix Version (9.8.0.1) scheduled 05/18/2015

Release 9.7

- PPM/MashZone 9.7.0 Fix Version (9.7.0.9) scheduled 08/21/2015

- PPM/MashZone 9.7.0 Fix Version (9.7.0.8) scheduled 07/13/2015
- PPM/MashZone 9.7.0 Fix Version (9.7.0.7) scheduled 06/16/2015
- PPM/MashZone 9.7.0 Fix Version (9.7.0.6) scheduled 05/19/2015.

Release 9.6

- PPM/MashZone 9.6.0 Fix Version (9.6.0.11) scheduled 09/05/2015
- PPM/MashZone 9.6.0 Fix Version (9.6.0.10) scheduled 07/10/2015
- PPM/MashZone 9.6.0 Fix Version (9.6.0.9) scheduled 06/15/2015
- PPM/MashZone 9.6.0 Fix Version (9.6.0.8) scheduled 05/18/2015
- PPM/MashZone 9.6.0 Fix Version (9.6.0.7) scheduled 04/20//2015.

Release 9.5.x

- PPM/MashZone 9.5.1 Fix Version (9.5.1.9) scheduled 24/09/2015
- PPM/MashZone 9.5.1 Fix Version (9.5.1.8) scheduled 05/11/2015.

5.0 Other Resolved Issues

This section lists the issues that were resolved in each release but were not part of the fixes listed in the previous section. A release is listed in this section only if changes occurred in that release.

Release 9.9

- ACS-5763 (Pivotal ID 5196300)
User name swapped during migration
During the migration of users and groups from a 5.x legacy system to a 9.x system, the given name and last name was transferred in reverse order.
This issue has been resolved.
- ACS-5708 (Pivotal ID 5198921)
Error while running PPM Import
There was a fatal error in the ppmimport when using sort merge and parsing EPC-IDs larger than 2^{31} , as it can occur if there is a high volume of new and changed process instances over an extended period of time.
This issue has been resolved.
- ACS-5706 (Pivotal ID 5197156)
PPM Legend color different from chart

In some charts the color shown in the legend was not displayed properly.
This issue has been resolved.

- ACS-5674 (Pivotal ID 5199407)
Misleading error message during failed login
There was a misleading error message if user tried to login into PPM with a wrong password "The central User Administration is currently not available. Please try again later."
This issue has been resolved.
- ACS-5556 (Pivotal ID 1107785)
Query API Authentication
DTDs that are part of the Query API could not be read without authorization.
The DTDs can now be accessed without authentication from the Webserver.
- ACS-5552 (Pivotal ID 5194673)
Change password via client
Users without the UMC function privilege "User administrator" were not able to change their own passwords.
This issue has been resolved.
- ACS-5454(Pivotal ID 5190246)
Error while creating favorite folder
When creating a favorite folder in the favorite tree, the folder name could not be edited directly.
The folder is created and the name is the default name: "New Folder". After creating the folder, it could be renamed.
This issue has been resolved.
- ACS-5433 (Pivotal ID 5184781)
Customers with automatic process tree extension might have a process tree with a huge number of process types attached to it. Due to the automatic extension the tree is updated every night after a new import. For each user that logs into the system for the first time the next day, the login takes around 15 seconds. Subsequent logins of the user on the same day were much faster. An in-depth analysis revealed that the initial creation of the user's process tree according to his/her user rights takes so long. This issue is resolved in the current version. The initial login for the user is now much faster.
- ACS-5349 (Pivotal ID5181467)
The tooltip in the Web UI is not wrapped
For some EPC objects containing long description texts it occurred, that the tooltip texts which can be displayed when hovering over the EPC functions are not wrapped correctly.
This issue has been resolved.

Release 9.8

- ACS-4950 (Pivotal ID 5167960)
An HTTP 500 error occurred involving the link from PPM to WebMethods Optimize when a URL is

configured in CTK.

This issue has been resolved.

- ACS-4786 (Pivotal ID 1095831)
An error occurred trying to delete several processes. The following message was displayed
"Internal error. Errors occurred while instantiating class
"com.idsscheer.ppm.server.keyindicator.onlineki.ZOnlineKIConfigExtender"."
This issue has been resolved.
- ACS-4378 (Pivotal ID 5151346, 5141362)
The performance decreased when configuring user defined measures.
This issue has been resolved.

Release 9.7

- ACS-4300 (Pivotal ID 5149655, 1079686)
An error occurs during the login to the UMC.
With the actual version of PPM/Mashzone Cloud Controller this issue has been resolved.
- ACS-4211 (Pivotal ID 5146358)
KPI Table settings error. It was not possible to fill up KPI values with ZERO value.
This issue has been resolved.
- ACS-3959 (Pivotal ID 5134894)
After a new calculation of all process instances is triggered using the import option "**-keyindicator new**" the analysis server is not updated after the re calculation has finished. As a result of that, the data of analysis server and PPM server are inconsistent.
This issue has been resolved.
- ACS-3608 (Pivotal ID 5129980)
The display of the cross table labels was not correct in case of rotation by 270'.
This issue has been resolved.

Release 9.6

- ACS-3718 (Pivotal ID: 5130993)
During the iteration of a start-based time range dimension with weekly steps, the first week was included in the calculation if the start time of a time range was on the first day of a week and the time of day was specified with later than 00:00:00 o'clock. This error is resolved in the current version.
- ACS-3691 (Pivotal ID: 1079940)
During the import of process instance-independent measure series with time values exact to the week, the specified week was sometimes changed depending on the language used during the import of the values. This error is resolved in the current version.

- ACS-3689 (Pivotal ID: 5129784)
The iteration of a time range dimension with weekly steps returned invalid results if the start time or time of the time range was within a week that included the turn of the year. This error is resolved in the current version.
 - ACS-3687 (Pivotal ID: 5126521)
Error listing PPM Clients running PPM CTK 9.5
After the installation of the GA version of PPM (9.5.1.0) is finished, CTK is called to create new PPM clients. However, the start of CTK failed due to access right violations when trying to open several log files. This issue is resolved in the current version.
 - ACS-3686 (Pivotal ID: 5130202)
Issues with EPC visualization & PPM EPCs are not displayed correctly
In version 9.6 process instances are not correctly visualized using the EPC view. Most connectors, functions and events are not drawn correctly. This issue is resolved in the current version.
 - ACS-3592 (Pivotal ID: 1079856)
Legend values are doubled in Management View.
This was a bug in the Combined Chart. The legend entries are added twice in the Management View and report charts. This issue is resolved in the current version.
 - ACS-3428 (Pivotal ID: 1077654)
No error message if database sequence reaches maximum during XML import.
This issue is only related to IBM DB2 databases. After the database sequence reaches the maximum value, the XML import stops without displaying any error message in the log file. The issue was resolved in that way, that the XML import issues an exception and the import is canceled.
 - ACS-3403 (Pivotal IDs: 5123748, 1078599)
Report: User defined KPI name is ignored in cross table output (for XLS format).
When a user has created a cross-table in analysis with two measures in the header where one of them has a user defined name the resulting XLS report did not display this configured name correctly. This issue is resolved in the current version.
- ACS-3367 (Pivotal ID: 1075144)
Wrong operator mode in CTK for CalcAttr Module.
If an operator was added with “replace with” or “embed” in the CalcAttr Module of the CTK, the operator mode changed to PPM3 even if it was PPM4 before. This issue is resolved in the current version.

Release 9.5

- ACS-3180 (Pivotal ID 5114720)
If a table filter was applied to the KPI and Dimension module of the CTK, the language-specific descriptions of dimensions were removed. This error is resolved in the current version.
- ACS-3082 (Applix ID 310783)

Query API: An exception occurred calling charts without axis titles.

It was impossible to use PPM charts in MashZone if the chart did not have an axis title.

The following exception occurred (taken from the MashZone log file):

com.aris.mashzone.wsclients.ppm.gen.ZPSCException_Exception: The structure of the XML item "queryresult" is not compatible with the corresponding DTD. This error is resolved in the current version.

- ACS-3071 (Applix ID 309777)
Time consuming query when using cross tables in combination with 10+ dimensions.
The response time of the cross table has been significantly improved in the current version.
- ACS-2861 (Applix ID 308957)
Report output: Cells had an invalid width if the page layout was set to Landscape. This applied only to XLS format - all other formats are not affected. This error is resolved in the current version.
- ACS-815 (Applix ID 292000)
PPM Operation Guide: The description in Section 7.4 (log settings) has been improved.

6.0 Documentation Changes

This section describes significant changes to the documentation, such as the addition, relocation, or removal of product guides, online help, chapters, or other major content. A release is listed in this section only if changes occurred in that release.

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.

Release 9.5

- The formerly used ARIS Release Notes for PPM were renamed to Process Performance Manager Readme.
- The formerly used ARIS Delta Notes for PPM were renamed to Release Notes.

- The formerly used ARIS Platform Matrix is replaced by the webMethods Requirements Matrix.

7.0 Terminology Changes

A release is listed in this section only if changes occurred in that release.

Release 9.9

Old Term

Software AG PPM/MashZone 9.8.

New Term

Software AG PPM/MashZone 9.9.

Release 9.8

Old Term

Software AG PPM/MashZone 9.7

User Management Component UMC

New Term

Software AG PPM/MashZone 9.8.

Central User Management.

Release 9.7

Old Term

Software AG PPM/MashZone 9.6

IDS Scheer and IDS

New Term

Software AG PPM/MashZone 9.7

None.

Release 9.6

Old Term

Software AG PPM and MashZone 9.5

PPM and MashZone Cloud Agent

New Term

Software AG PPM/MashZone 9.6

PPM/MashZone Cloud Agent

Release 9.5

Old Term

ARIS Cloud Agent

ARIS Process Performance Manager

ARIS MashZone

New Term

PPM and MashZone Cloud Agent

Process Performance Manager

MashZone

8.0 Added, Removed, Deprecated, or Changed Items

This section lists features, functionality, controls, portlets, properties, or other items that have been added, removed, deprecated, or changed. A release is listed in this section only if changes occurred in that release.

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	Versions of Microsoft Internet Explorer 9.x and below are not supported any more.

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
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.

Added Item

New report output engine

Additional administration account

Start/Stop items in Windows start menu

CTK Event Type configuration wizard for measures and dimensions

Data source lists

Removed Item

SAP Transaction support in PPM Applet

Deprecated Item

Old report output engine

Changed Item

PPM/MashZone Cloud Agent port

Loadbalancer standard HTTP port

Loadbalancer standard HTTPS port

Release 9.5

Added Item

SAG Installer for Linux operating systems

Description

A new report output engine was introduced for PPM 9.6 based on Aspose.

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.

For every newly created PPM client, a separate start and stop entry is created in the Windows Start Menu.

This new wizard is supposed to support the configuration of measures and dimensions based on the EDA Event Type in the CTK.

Introduction of multiple data source configuration with different types.

Replacement, if any

Replacement, if any

New report output engine based on Aspose

Description

New default port: 17002

New default port: 4080

The user can change these values if necessary

New default port: 4443

The user can change these values if necessary

Description

To install PPM and MashZone under Linux, you also can use the SAG Installer in version 9.5 SP1. Please refer to the **PPM Installation** document for more information on Linux installation.

Added Item

Scaled system functionality for PPM

Description

This functionality also known as Master - Subserver scenario is available again for version 9.5 SP1.

Removed Item

SAP Content Package HR

SAP Netweaver Support

Java 6 Runtime and Support

Replacement, if any

Only Java 7 Runtime and Support available

Changed Item

Installation of Process Extractors

Description

All Process Extractors are installed by default. They don't need to be selected anymore during installation routine.

Installation of SAP Content Packages

The SAP-specific Content Packages MM and SD are installed by default. They don't need to be selected during installation routine.

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

A release is listed in this section only if changes occurred in that release.

Release 9.9

Changed Service

PPM Platform Manager 9.9

Description

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

WM Platform Manager.

Description

Changed Service

PPM/MashZone Cloud Agent 9.8

Description

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**

PPM/MashZone Cloud Agent 9.7

Description

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**

PPM and MashZone Cloud Agent

Description

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

Release 9.5**Changed Service**

PPM and MashZone Cloud Agent

Description

The service was renamed from ARIS Cloud Agent to PPM and MashZone Cloud Agent.
The service listens on port 17001 by default

Zookeeper

ZooKeeper listens on port 17050 by default

Elastic Search

The elastic search service listens on port 17047 by default

Cloud Search

The cloud search service listens on port 17048 by default

PostgreSQL DB

The PostgreSQL DB service listens on port 17049 by default

UMC Admin

The UMC Admin service listens on port 17100 by default

PPM RMI registry

The PPM RMI registry service listens on port 17500 by default

PPM CORBA registry

The PPM CORBA registry service listens on port 17590 by default

Changed Service	Description
PPM Web service	The Tomcat Web service for PPM listens on port 17101 by default (port for AJP service is 17102)
PPM Client and Analysis Server	The PPM client server installed first listens on port 17501 by default (the analysis server listens on port 17502). Any further client will use the next free ports in this row (for example: the second client will use ports 17503 and 17504)

10.0 Copyright Information

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11.0 Support

Visit the [Empower website](#) to learn about support policies and critical alerts, read technical articles and papers, download products and fixes, submit feature/enhancement requests, and more.

Visit the [TECHcommunity website](#) to access additional articles, demos, and tutorials, technical information, samples, useful resources, online discussion forums, and more.

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