

webMethods Optimize for Infrastructure 9.12 Readme

October 2016

This file contains important information you must read before using webMethods Optimize for Infrastructure 9.12. You can find user documentation on the [Documentation website](#) or the [TECHcommunity website](#). At those locations, you can also find suite-related security and globalization information.

Included in this file is information about functionality that has been added, removed, 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 recommends against using deprecated functionality in new projects.

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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](#).

- webMethods Optimize for Infrastructure 9.12 monitors current and older supported versions of webMethods products. However, it requires Infrastructure Data Collector 9.12, Analytic Engine 9.12, Universal Messaging 9.12, and My webMethods Server 9.12 for execution.

- When using Broker Basic Authentication, do not set ACL on the Analysis client group.
- In order for Optimize for Infrastructure 9.12 to function correctly, it is strongly recommended that all customers install OPT_9.12_Fix1.

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](#).

- OBE-8297
In Optimize, when you create a rule for a KPI with a condition equal to value zero and you select the Generate historical rule violations option, attempting rules back-population fails.
There is currently no workaround for this issue.
- OBE-8414
When you change the display name of a measure attribute, the KPIs that are set for this measure stop functioning.
To work around this issue, set the display name back to the original display name.
- OBE-8876
The Value drop-down list in the Rule Audit page in Optimize is not populated correctly.
On the Advanced tab in the Rule Audit page, when you filter by username, the Value drop-down list does not show all available users.
There is currently no workaround for this issue.
- OBE-8904
In the Optimize KPI Summary page, the Event table might not load properly.
In the KPI Summary page, sometimes the Event table in the KPI Performance panel fails to load.
To work around this issue, refresh the page.
- OBE-8932
Back-populating rules in Optimize might fail.
In some cases, when you click the Generate Rule Violations button on the Rule List page, the initiated rule back-population operation fails. Although no error message appears, the status of the back-population job in the Job Audit page, is "Failed".
There is currently no workaround for this issue.
- WID-1437
The Infrastructure Data Collector migration utility fails to start on HP-UX systems.
This issue is resolved by OPT_9.12_Fix1.

- WID-1436
Trading Network assets cannot be monitored in Optimize.
You cannot monitor Trading Network assets because the WmTNextDC package does not initialize properly.
This issue is resolved by OPT_9.12_Fix1.

3.0 Usage Notes

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

- To maintain performance, Optimize now requires a greater quantity of database connections than are provided by default in the webMethods Database Pool Connection settings. For typical systems, the maximum number of connections should be increased to 80. To change the number of available database connections, navigate to Administration > System-Wide > Environments > Database Pool Connections, and then on the Pool Settings panel, change the value in the Maximum Connections field from 36 to 80.
- The KPI Summary Page does not support extended display durations. If you want the KPI Summary page to remain active for long periods of time without user interaction, you must add a workspace and use the Workspace Refresh portlet to keep the page current.
- To configure the Journal Logging with file rollover by "File size only" or by "Size Or Period", you must type both the number and unit of measure in the Max File Size field. For example, to set the Max File Size to 10 MB, type "10MB".
- SSL registration of Analytic Engine web services is not supported.

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 9.12

- OPT_9.0_SP1_Fix14
- OPT_9.5_SP1_Fix13
- OPT_9.6_SP1_Fix9
- OPT_9.7_Fix13

- OPT_9.8_Fix11
- OPT_9.9_Fix9
- OPT_9.10_Fix4
- CMP_9.10_Fix1

Release 9.10

- OPT_9.0_SP1_Fix12
- OPT_9.5_SP1_Fix9
- OPT_9.6_SP1_Fix7
- OPT_9.7_Fix7
- OPT_9.8_Fix5
- CMP_9.8_Fix2
- OPT_9.9_Fix2
- CMP_9.9_Fix1

Release 9.9

- OPT_9.0_SP1_Fix9
- OPT_9.5_SP1_Fix7
- OPT_9.6_SP1_Fix4
- OPT_9.7_Fix5
- OPT_9.8_Fix3
- CMP_9.8_Fix1

Release 9.8

- OPT_8.2_SP1_Fix14
- OPT_9.0_SP1_Fix7
- OPT_9.5_SP1_Fix5

- OPT_9.6_SP1_Fix2
- OPT_9.7_Fix2

Release 9.7

- OPT_8.0_SP3_Fix10
- OPT_8.2_SP1_Fix12
- OPT_9.0_SP1_Fix6
- OPT_9.5_SP1_Fix3
- OPT_9.6_SP1_Fix1

Release 9.6

- OPT_8.0_SP3_Fix9
- OPT_8.2_SP1_Fix11
- OPT_9.0_SP1_Fix1
- OPT_9.5_SP1_Fix2

Release 9.5

- OPT_7.1_SP2_Fix15
- OPT_8.0_SP3_Fix9
- OPT_8.2_SP1_Fix11
- OPT_9.0_SP1_Fix1

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 9.10

- WID-1221
The Asset page fails to display status "Refused" for Integration Server assets.
In My webMethods Server, on the Applications > Administration > Analytics > Infrastructure Components > Assets page, when you edit the connection parameters for an Integration Server asset and you accidentally enter an invalid password, the status of the asset is not updated to "Refused" but remains "Accepted," even though no new KPI readings are collected from this asset because of the invalid password.
This issue has been resolved.
- OBE-7017
The Analytics Overview page continues to display KPI instances for deleted assets.
In My webMethods Server, after you delete an asset from the Applications > Administration > Analytics > Infrastructure Components > Assets page and you go to the Applications > Monitoring > System-Wide > Analytics Overview page, you can still see KPI data for the removed asset.
This issue has been resolved.
- OBE-7145
Data remains unprocessed in the Universal Messaging JMS queues when an Analytic Engine node is down.
When the Analytic Engine is running in a clustered environment, and some of the nodes are down, the data that is pushed to the respective Universal Messaging queue is not processed until the nodes come back up again.
This issue has been resolved.
- OBE-7597
On the KPI Instance Detail page, when you plot KPIs with collection intervals of 2, 4, or 8 hours, the graph displays incorrect times for reading values.
In My webMethods Server, when you plot KPIs on the KPI Instance Detail page with collection intervals of 2, 4, or 8 hours, the KPI reading values that are displayed on the graph are plotted at incorrect times.
This issue has been resolved.
- OBE-7536
The Advanced search tab on the Problems page does not return correct results.
In My webMethods Server, on the Applications > Monitoring > System-Wide > Problems page, when you use the Advanced search tab to filter problems setting the "Field Name" to "Duration" and selecting "Greater Than" or "Less Than" as operators, your search might be misleading, since they also contain problems with duration that is equal to the selected value.
This issue has been resolved. The "Greater Than" and "Less Than" operators no longer return problems with Duration equal to the selected filter Value. Also, the following operators have been added when filtering by duration:
"Greater Than or Equal To" and "Less Than or Equal To"
- OBE-7511

An error prevents you from editing or copying an instant rule with no user specified.
In My webMethods Server, on the KPI Instance Detail page, when you create an instant rule without specifying a user for the Send Alert To drop-down list, and then you navigate to the Applications > Administration > Analytics > Rules > Rule List Page, you cannot edit or copy the rule. The following error is displayed in the Alerts panel on the Add/Edit/Copy Rule page:
User is unknown or email address is undefined.
This issue has been resolved.

- OBE-7990
The Define Environments page allows you to create an environment with no name.
In My webMethods Server, on the Administration > System-Wide > Environments > Define Environment page, when you click Add Environment, you can save your environment with no value for Environment Name.
This issue has been resolved.
- OBE-7491
The KPI Instance Detail page incorrectly aggregates KPIs of type Sum or Count to the beginning of the hour.
In My webMethods Server, on the KPI Instance Detail page, when you plot KPIs of type Sum or Count, the KPI data values are incorrectly aggregated to the beginning of the hour, instead of the end.
This issue has been resolved.
- OBE-7485
The Select All icon on the Database Pool Configuration page does not select all listed pools.
In My webMethods Server, on the Applications > Administration > System-Wide > Environments > Database Pool Configuration, when you click the Select All icon, not all listed pools are selected.
This issue has been resolved.

Release 9.9

- WID-1189
IS Terracotta Cluster component fails to collect readings.
This issue is now resolved.
- WID-1196
Modifying the MWS discovery credentials to an invalid user/password should result in a discovery failure.
This issue is now resolved.

Release 9.8

- WID-1075/WID-1116
Service request counts for Integration Server count KPI may show negative values.
The Infrastructure Data Collector Integration Server Is Service long Count KPI may return negative values.

This issue has been resolved.

- OBE-6734
Central Configuration - Define Environment allows an empty environment to be created.
Central Configuration - Define Environment allows an empty environment to be created if a user presses the ENTER key before entering any value in the name field.
This issue has been resolved.
- OBE-6282
KPI Instance Detail graph is incorrectly plotting data points where a given data point is comprised of multiple events with the exact timestamp down to the millisecond.
This issue has been resolved.
- OBE-4182
Threshold rule expressions might fail if the underlying event map is renamed.
If the event map referenced by with a threshold rule expression was renamed, in some cases the threshold rule evaluation will fail.
This issue has been resolved.

Release 9.7

- OBE-6466
The Analytic Engine logs an SQL error when deploying KPI definitions where a large number of events were processed before the definition was defined.
The following error is written to the AE log when deploying KPI definitions containing a large number of events that were processed before the definition was created:
"TemporaryEventStage.UnknownKey] ... ERROR: java.sql.SQLException: [SoftwareAG][Oracle JDBC Driver][Oracle]ORA-01795: maximum number of expressions in a list is 1000", when there are over 1000 temporary events recorded within Optimize prior to defining the KPI definition.
This issue has been resolved.
- WID-985
In some cases, KPI data is not collected for Terracotta based Integration Server clusters.
Optimize does not collect KPI data for Terracotta based Integration Server clusters in some situations. This problem occurs because of DNS resolution in the network. If a fully qualified host name is required to connect from Infrastructure Data Collector to an Integration Server host then IS Cluster monitoring fails.
This issue has been resolved.
- WID-991
The Infrastructure Data Collector version 8.2.2 to version 9.6 data migration utility fails in some cases.
The Infrastructure Data Collector migration{bat | sh} which migrates data from version 8.2.2 to 9.6 fails with a file not found exception.
This issue has been resolved.

- WID-987
 The Infrastructure Data Collector migrate.sh migration utility fails on Solaris
 When the Infrastructure Data Collector ./migrate.sh script is executed, it fails to run and throws the following exception

```
bash-3.00$ pwd
/FS/fs0311/CV/home/wmguest/SoftwareAG96/InfrastructureDC/bin/migrate
bash-3.00$ cd ./migrate.sh
bash: cd: ./migrate.sh: Not a directory
bash-3.00$ ./migrate.sh
./migrate.sh: syntax error at line 13: `INSTALL_DIR=$' unexpected
This issue has been resolved.
```
- OBE-6031
 The Analytic Engine may not start properly on UNIX.
 The Analytic Engine fails to start properly on UNIX if the startupAnalyticEngineNoWrapper.sh is used.
 This issue has been resolved.

Release 9.6

- OBE-5878
 The My webMethods Asset Extraction page does not show some assets, when these assets share the same name.
 When using the Assets Extraction page within MWS to extract Optimize assets such as KPI definitions, rules, dimensions, and so on, assets that shared the same name are not displayed for extraction.
 This issue has been resolved
- OBE-4274
 In some cases, Analytic Engine fails to start when running under the HP UX operating system. Due to an issue with the Java Server Wrapper, when running on the HP-UX operating system, Analytic Engine fails to start properly when using the startup.sh script. No logs are created but a core dump file is created and the following error text (truncated) appears on the console:

```
bash-4.2$ ./startup.sh
bash-4.2$ wrapper | --> Wrapper Started as Console
DLPI Error (Primitive:0x0b, Errno:0x03, UnixErr:0x00)
DLPI Error (Primitive:0x0b, Errno:0x03, UnixErr:0x00)
DLPI Error (Primitive:0x0b, Errno:0x03, UnixErr:0x00)
This issue has been resolved.
```

Release 9.5

- WID-909
The Infrastructure Data Collector OSGI profile uses an inappropriate JMX port, which may lead to log errors.
The Infrastructure Data Collector OSGI profile is always installed with default JMX port as 8044. The same port is used as default in CTP profile, which is also managed by SAG Installer as CTP prerequisites. This port conflict results in Infrastructure Data Collector log errors.
This issue has been resolved.
- WID-904
ART connection components are deleted when migrating from Optimize 8.2.1 to the 9.0.1 version. When migrating from Optimize 8.2.1 to 9.0.1, ART connection components and related KPIs are cleared, and users must reselect the components and KPIs to resume monitoring.
This issue has been resolved.
- OBE-5933
In some cases, Infrastructure Data Collector fails to collect events.
In some cases, Infrastructure Data Collector does not collect events because the Integration Server is not functioning correctly, and as a result no Object Status rules show violations.
This issue has been resolved.

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 9.12

- A new “Using Command Central to Manage Optimize” chapter has been added to the *Administering webMethods Optimize* guide. This chapter is moved from the *Software AG Command Central Help*. The chapter describes the currently supported operations in Command Central for managing Optimize.
- The “Monitored KPI Definitions” chapter of the *Administering webMethods Optimize* guide has been updated with information about KPI definitions for Event Routing.
- The “Built-In Rules” chapter of the *Administering webMethods Optimize* guide has been updated with information about Event Routing rules.
- The “Monitored KPI Definitions” chapter of the *Administering webMethods Optimize* guide has been

updated with information about KPI definitions for Universal Messaging named objects.

- The “Adding Terracotta Server and Terracotta Server Array Assets for Discovery” section of the *Administering webMethods Optimize* guide has been updated with information about monitoring Terracotta Server and Terracotta Server Array assets over HTTPS.
- The “The Assets Page” section of the *Administering webMethods Optimize* guide has been updated with information about monitoring My webMethods Server with a root context.
- The “Managing webMethods Optimize Environments” chapter of the *Configuring BAM* guide has been updated with information about configuring in-process event publication.

Release 9.10

- The “Monitored KPI Definitions” chapter of the *Administering webMethods Optimize* guide has been updated with information about KPI definitions for MashZone NextGen, UM Cluster, and Presto delta KPIs.
- The “Monitored KPI Definitions” chapter of the *Administering webMethods Optimize* guide now contains information about newly added diagnostic KPIs about the following component types: InfrastructureDataCollector, ApamaCorrelator, BrokerServer, SNMP, IntergrationServer, ISCluster, MyWebMethodsServer, Presto, Universal Messaging Realm, and TerracottaConnection.
- The “Adding an Asset” section of the *Administering webMethods Optimize* guide now contains information about adding Universal Messaging Cluster and MashZone NextGen assets.

Release 9.9

The *Administering webMethods Optimize* guide has been revised as follows:

- The “Monitored KPI Definitions” chapter has been updated with information about KPI definitions for Apama, Presto Catalina, Presto UM, IS File Polling, and Terracotta monitoring.
- The “Adding an Asset” section of the guide now contains information about adding Apama, Presto, Terracotta, SNMP3, and Terracotta assets.
- The “Configuring and Using the Infrastructure Data Collector” section of the guide now contains information about configuring Infrastructure Data Collector for clustering.
- The “Configuring and Using the Infrastructure Data Collector” section also contains information about changing the Infrastructure Data Collector ports.
- The “Configuring Event Routing Settings for Optimize” section in this guide has also been updated with details regarding the setup of Software AG Event Routing in your Optimize system.

The *webMethods Optimize User’s Guide* now includes information about using the “Investigate” button

to jump to Process Performance Manager and further investigate process-related intrinsic data from Optimize. You will also find information about creating an alert in Optimize from the PPM user interface.

The *Software AG Command Central* help contains information about administering the Optimize Analytic Engine using the Command Central user interface.

Release 9.8

- **Universal Messaging Delta KPIs** - Appendix A “Monitored KPI Definitions” of the “*Administering Optimize*” PDF publication now contains the “Universal Messaging KPI Definitions” section that lists and explains KPIs for monitoring Universal Messaging Servers has been updated with additional KPIs.
- **Presto KPIs** - Appendix A “Monitored KPI Definitions” of the “*Administering Optimize*” PDF publication now contains the “Presto KPI Definitions” section that lists and explains KPIs for monitoring Universal Messaging Servers has been updated with additional KPIs.
- **Terracotta KPIs** - Appendix A “Monitored KPI Definitions” of the “*Administering Optimize*” PDF publication now contains the “Terracotta KPI Definitions” section that lists and explains KPIs for monitoring Universal Messaging Servers has been updated with additional KPIs.

Release 9.5

The *Administering webMethods Optimize* guide has been revised as follows:

- **Universal Messaging KPIs** - Appendix A “Monitored KPI Definitions” has been updated with a new section titled “Universal Messaging KPI Definitions” that lists and explains new KPIs for monitoring Universal Messaging Servers.
- **Optimize Schema Overview** - Appendix D “Optimize Schema Overview” has been added describing the Optimize database schema and components.

The *Optimize User’s Guide* has been revised as follows:

- The title of the guide has been simplified with the removal of the *Optimizing BPM and System Resources with BAM* subtitle, so the guide is now simply titled *Optimize Users Guide*.
- **KPI Delete** - Chapter 2 “Monitoring Business Component and System Process Performance” has been updated to include information on a new feature of the Analytics Overview page that facilitates deletion of KPIs.
- **Process Analytics** - Process Analytics functionality has been revised, and the following chapters have been removed: Chapter 9 “Process Analytics Concepts,” Chapter 11 “Analyzing How a Process is Doing,” Chapter 12 “Analyzing Information on Analytic Engine clustering with

Terracotta has been updated and enhanced in the *Configuring BAM* guide.

7.0 Terminology Changes

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

Release 9.6

Old Term	New Term
KPI hierarchy	Dimension hierarchy
Fact	Measure
Dimension Definition	Dimension

Release 9.5

Old Term	New Term
KPI hierarchy	Dimension hierarchy
Fact	Measure
Dimension Definition	Dimension

8.0 Added, Removed, Deprecated, or Changed Items

This section lists 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 9.12

Added Item	Description
EDA	Event routing framework is embedded in products like IS, Optimize, MWS etc. Monitoring of EDA to these products will be through a JMX port
MWS root context	Monitoring MWS with root context defined
Universal Messaging named objects	Monitoring of UM name objects
Terracotta HTTPS	Monitoring of Terracotta over HTTPS

Release 9.10

Added Item	Description
UM Cluster Monitoring	Monitoring of UM Cluster Nodes
Ability to delete Key Performance Indicators by date and name	You are now able to delete KPIs by date and name.

Changed Item	Description
Presto 9.10 only	Name changed to MashZone Next Gen

Release 9.9

Added Item	Description
Presto Catalina JMX	Presto Catalina monitoring
Presto UM	Presto UM monitoring
Apama	Apama monitoring
Integration Server File Polling	File Polling port monitoring
MWS HTTPS	MWS running HTTPS port enabled. Monitoring secure port.
SNMP v3 Support	SNMP v3 monitoring
Changing Infrastructure Data Collector ports after configuration	The properties file and location of the Infrastructure Data Collector port assigned during installation has been changed. See documentation on how to modify the Infrastructure Data Collector port after startup/configuration has completed.
Aesthetic enhancements for Process Dashboards	Aesthetic improvements have been made to the Process dashboards including: Principle picker now uses enter key to submit form when entering keyword characters, general control alignment and styling
Command Central integration for Analytic Engine	User can now start, stop, restart and receive the status for the Analytic Engine using Command Central. This includes configuring event routing for the Analytic Engine

Added Item	Description
Performance and scalability improvements	<ul style="list-style-type: none"> 100 times improvement in clustered Analytic Engine throughput performance 2 times faster Analytic Engine startup 500 percent increase in dimensional handling throughput 30% throughput improvement in State engine

Release 9.8

Added Item	Description
Universal Messaging Delta KPI's	New Universal Messaging Delta KPI's. The difference between the last 2 reading values of the target KPI.
Presto Monitoring	Presto Monitoring.
Terracotta Monitoring	Enhanced Terracotta monitoring to include Cache, Cache Manager, TSA, TSA Server, Terracotta Connection. Discover TMS by Group Name or discover Direct by TSA Name.
Intrinsic Stage Metrics available in the UI	The intrinsic metrics associated with Stages are now available for use in the Analytics Overview.
New KPI type - Counter	A new KPI type, called Counter, has been added. This KPI counts the number of data points received for a specific fact over a fixed aggregation period.
New Rule Violation/Resolution EDA event	Optimize now is able to emit Rule Violation/Resolution EDA events

Removed Item	Replacement, if any
Terracotta Monitoring	Removed TMC Connection for Terracotta Server.

Deprecated Item	Replacement, if any
Removal of BAM_AGG_... database tables	The BAM_AGG_... database tables usage is being removed from future releases. These tables are currently used for Optimize Only UI support and will no longer be used.

Release 9.7

Added Item	Description
Terracotta Management Console	Monitoring of the Terracotta Management Console and Terracotta Server Array.
Integration Server Delta KPI's	New Integration Server KPI's. The difference between the last 2 reading values of the target KPI.
Integration Server JDBC Functional Alias Component	New Integration Server component type.

Release 9.6

Added Item	Description
Ability to monitor milestones	Added support for analysis of process stages and milestones. Optimize for Process now provides the following information in the form of both EDA events and REST services: stage started, stage completed, stage breached.

Release 9.5

Added Item	Description
Universal Messaging Discovery and Monitoring	Optimize for Infrastructure can now discover and monitor webMethods Universal Messaging Servers.

Removed Item	Replacement, if any
The following Integration Server KPIs have been removed: com.wm.isextdc.IntegrationServer com.wm.isextdc.IsSocketPort com.wm.isextdc.IsHttpPort	

9.0 Added, Removed, Deprecated, or Changed APIs

Release 9.7

Added API	Description
Rest Services	These services enable users to access Optimize data in various ways.

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.

OPTINF-RM-912-20161018