

webMethods Process Engine 9.9 Readme

October 2015

This file contains important information you must read before using webMethods Process Engine 9.9. You can find user documentation on the [Documentation website](#) or the [TECHcommunity 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

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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](#).

- WPE-1551
A process with an invalid SOAP address in the web service descriptor executes successfully. If a process containing an invalid SOAP address in a web service descriptor is executed by the Process Engine, the process executes successfully and no error is displayed in webMethods Monitor.
Workaround: The error shows in the Integration Server log as a “service cannot be found” error.

3.0 Usage Notes

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

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 9.9

- PRT_8.2_SP2_Fix20
- PRT_9.7_Fix6
- PRT_9.8_Fix1

Release 9.8

- PRT_8.2_SP2_Fix19
- PRT_9.0_SP1_Fix6

- PRT_9.7_Fix1

Release 9.7

- PRT_8.2_SP2_Fix15
- DC_8.2_SP2_DBS_Fix10
- PRT_9.0_SP1_Fix3
- DC_9.5_SP1_DBS_Fix3
- PRT_9.5_SP1_Fix6
- DC_9.6_DBS_Fix1
- PRT_9.6_Fix3

Release 9.6

- PRT_8.2_SP1_Fix11
- PRT_9.5_SP1_Fix2

Release 9.5

- PRT_8.2_SP2_Fix9
- PRT_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 9.8

- WPE-3278
In some situations, user task step iterations may complete out of order.
When a user task step is executed multiple times to have several iterations in a process instance and one of the iteration is completed, it would appear Process Engine completed another iteration of the same step.
This issue is now resolved.

- WPE-3266
 In some situations, activity log may not be logged properly.
 When `pub.prt.log:logActivityMessages` is invoked from an outbound mapping service of a user task step, it does not come up in Process Instance Details view.
 This issue is now resolved.
- WPE-3280
 In some situations, a migrated process model instance may fail.
 When the migrated process model has a boundary timer event step, but no timeout value is set for the timer, the instances may fail.
 This issue is now resolved.
- WPE-3251
 In some situations, a Task Engine callback may result in a process instance restart.
 Upon receiving a callback from Task Engine for a completed process instance, Process Engine attempts to restart the user task step, which results in process failure.
 This issue is now resolved. Process Engine will check the status of the process instance before attempting to restart the user task step. If the instance was not running, the callback will be ignored.
- WPE-3274
 In some situations, a completed process instance may fail.
 A parent process that completes before any of its child instances complete is erroneously logged as failed when the child instance rejoins the parent.
 This issue is now resolved.

Release 9.7

- WPE-3068 (PRT_9.6_Fix3)
 In some situations, Process Engine fails to create JMS topics.
 When webMethods Broker is configured with basic authentication and SSL encryption is also enabled, the following error is seen when the WmPRT package is loaded:
 Error creating PE internal JMS topic: [BRM.10.4042] JMS: Broker protocol error: 537
 Error updating client group permissions: [BRM.10.4042] JMS: Broker protocol error: 537
 This issue is now resolved.
- WPE-2989 (DC_9.5_SP1_DBS_Fix3)
 A join timeout may not work as expected.
 This situation can occur in systems with an IBM DB2 database. Join timeouts may fire at times other than the configured join expiration.
 This issue is now resolved. The PRTTIMEENTRY table DATE column type is changed to TIMESTAMP.
- WPE-2895 (DC_8.2_SP2_DBS_Fix10, DC_9.5_SP1_DBS_Fix3)
 Process Engine performance decreases in heavy load conditions.

When using an Oracle database under heavy load conditions, the PRTSTEPQUEUE table in the Process Engine schema can cause reductions in performance.

This issue is now resolved with database schema enhancements. Redundant indexes have been dropped and Oracle-specific recommendations for improved handling of LOB data have been incorporated.

- WPE-2818 (PRT_9.0_SP1_Fix3)

In some situations, a call activity step may result in an unexpected pipeline structure.

When a process contains a user task inside a parallel branch and it is invoked as a BPMN call activity step, the invoking process receives the pipeline that has the actual input nested inside body/data.

This issue is now resolved.

- WPE-3145 (PRT_9.5_SP1_Fix6)

Referenced document named "body" causes an error.

A native webMethods document containing a reference to a document named "body" causes the following error: [ISS.0098.0049C] Exception:com.wm.app.b2b.server.ServiceException: [PRT.0101.9125] Service wm.prt.dispatch:handlePublishedInput failed while executing trigger.

Rejecting Document for

TriggerStore:Tele2LOMProcess.Tele2LOMProcess.Default:subscriptionTrigger.

This issue is now resolved.

- WPE-3124 (PRT_8.2_SP2_Fix15)

Pipeline data is lost when a referenced process completes.

After resubmitting a step in a referenced child process triggered by a native Broker document, the pipeline is mistakenly interpreted as a JMS pipeline. This behavior makes it appear as if the pipeline data is lost.

This issue has been resolved.

- WPE-3087 (PRT_9.5_SP1_Fix5)

In some situations, process instance step records may not be logged.

When the "Generate Service" option is disabled for a receive step, instances of such a process model may not have step records logged in the Process Audit table.

This issue is now resolved.

- WPE-3083 (PRT_9.5_SP1_Fix5)

A parent process does not fail when callable process fails.

When a call activity step is invoked from within a subprocess in the parent process and the callable process fails, the parent process does invoke the process-wide Error Handler step. However, the status of the parent process remains as 'Started'.

This issue is now resolved.

- WPE-2929 (PRT_8.2_SP2_Fix14)

In some situations, timeouts may not fire as expected.

In a clustered Process Engine environment, timeouts are incorrectly removed from the cache. This causes the timeouts to not fire as expected.

This issue is now resolved.

- WPE-3024 (PRT_9.5_SP1_Fix5)
 In some situations, a null pointer exception may occur in Process Engine.
 When a process model invokes a subprocess as a webMethods referenced process, the following null pointer exception may occur:
 java.lang.NullPointerException at com.wm.app.prt.storage.Storage.isDebugEnabled(Storage.java:932)
 This issue is now resolved.
- WPE-3057 (DC_9.6_DBS_Fix1)
 Archiving or deleting process audit log data using partitions is supported only for Oracle databases.
 Process Engine supports data archiving and deletion using partitions only for Oracle databases. The more efficient method of using database partitioning is not supported for MS SQL and IBM DB2 databases.
 This issue is now resolved. Archiving with database partitions is now supported for MS SQL and DB2 databases, assuming your database license includes partitioning. Sample scripts are available in this folder: <webM_install_dir>/common/db/scripts/<db>/processaudit/72/partition_support. For more information about implementing archiving database partitions, see the readme.txt file in the above folder.
- WPE-3037 (PRT_9.5_SP1_Fix5)
 Errors generated with a process model using the JMS protocol.
 The internal service wm.prt.performance:analyzeCollection generates the exception "[PRT.0101.9125] Service wm.server.triggers:getProperties failed." for any model that uses the JMS protocol.
 This issue is now resolved.
- WPE-3012 (PRT_8.2_SP2_Fix14)
 Under certain uncommon circumstances, completed task information may be lost by the Process Engine.
 In particular, if there are insufficient JDBC connections configured and the Integration Server is restarted while the Process Engine is handling completed task requests from the Task Engine, it is possible to lose information, requiring the Task Engine re-submit the completed tasks.
 This issue is now resolved.
- WPE-2990 (PRT_9.5_SP1_Fix4)
 JMS message subscription mappings fail to function as expected.
 In this case, when a JMS message contains a document with the specific name "header", the document is overwritten with an internal "header" structure after being published to the Process Engine, thus changing the message structure, causing the mappings to fail.
 This issue is now resolved.
- WPE-2985 (PRT_8.2_SP2_Fix13)
 A step downstream from a user task fails to resubmit.
 This situation occurs when a user task completes and a step downstream in the process model fails. Information for re-submission is dropped in the communication from Task Engine to Process Engine, making it impossible for the resubmit to succeed on this downstream step.

This issue is now resolved.

- WPE-2851 (DC_9.5_SP1_DBS_Fix3, PRT_9.5_SP1_Fix4)

In some situations, Process Engine performance may be reduced.

This situation can occur when the data partitioning solution is applied to archiving. Initially, the WMPROCESS_ATREST_MAINT trigger was added to maintain the WMPROCESSATREST table of the ProcessAudit schema. In certain situations, this trigger can cause a reduction in Process Engine throughput where the number of processes stored per second is reduced.

This issue is now resolved. The WMPROCESS_ATREST_MAINT trigger is removed, and a new public service `pub.prt.audit.truncateProcessAtRest` is added. This service truncates the Process Audit table WMPROCESSATREST. You can schedule this service to run on an interval of your choosing using the Integration Server Scheduler. For more information, see the topic "Scheduling Services" in the PDF publication *webMethods Integration Server Administrator's Guide*.

This service is relevant only for users who are implementing the optional database partitioning scripts for Process Audit data archiving. In that case, the WMPROCESSATREST table contains an entry for every completed process instance which, at some point, must be cleaned up. Use this service for that purpose only.

Also, to enable Process Engine to log ATRESTTIMESTAMP columns of ProcessAudit tables, you must add the following line to the file `..\IntegrationServer\packages\WmPRT\config\prt.cnf`:
`watt.prt.auditLogProcessAtRest=true`

- WPE-2907 (PRT_9.0_SP1_Fix3)

Correlation to running process model instances fails after updating a process model.

This situation can occur when a process model version is updated and the newer version is enabled. In this case, correlation to running instances of the older (disabled) version of the process fails.

This issue is now resolved. An instance created from a particular version of a process model completes on that same version, even if that version is no longer enabled.

- WPE-2909 (PRT_8.2_SP2_Fix12)

A step fails to resubmit when a user task fails.

This situation occurs when a user task fails and the corresponding step in the process model has a join expression associated with it. Information for re-submission is dropped in the communication from Task Engine to Process Engine, making it impossible for the resubmit to succeed.

This issue is now resolved.

- WPE-2856 (PRT_9.5_SP1_Fix3)

A JMS reply message is incorrectly formatted after a step resubmittal.

This situation occurs with JMS transition messaging using Nirvana as the JMS provider. After a process instance step resubmittal, the data structure of the message does not correspond to the data structure definition, resulting in an inability to process the message.

This issue is now resolved.

Release 9.6

- WPE-2607 (PRT_8.2_SP1_Fix10)

A timeout handler may execute unexpectedly in clustered environment. In a clustered Process

Engine environment, a timeout handle may be executed more than once.
This issue is now resolved.

- WPE-2741 (PRT_8.2_SP1_Fix11)

In some situations, Integration Server threads may stop responding.

This situation occurs after applying WPE-2583, which is included in these fix packages:

PRT_8.0_SP2_Fix13 and later

PRT_8.2_SP1_Fix1 and later

PRT_8.2_SP2_Fix7 and later

In a clustered Process Engine environment, Integration Server threads may wait for a JDBC connection from the Process Engine pool. This may cause slowness and possibly the server may stop responding.

This issue is now resolved.

- WPE-2753 (PRT_9.5_SP1_Fix2)

In some situations, a Rosetta Net process model may fail with an exception.

The following exception may be seen in the log:

[BPM.0102.0036E] nnn exception getting model identifier:

[PRT.0101.10302] Process instance nnn:1 could not be found

This issue is now resolved.

- WPE-2930

When migrating the Process Audit database to 9.6 from an earlier version, some data may not be migrated.

If there is data associated with processes in the WMERROR and WMSERVICEACTIVITYLOG tables in the IS Core Audit database, that data does not get migrated to the 9.6 Process Audit database.

This issue is now resolved, but migration of data from IS Core Audit to Process Audit is only supported if the tables are in the same schema.

Release 9.5

- WPE-2615 (PRT_8.2_SP2_Fix9)

Null customID value causes pub.prt.log:logCustomId to throw a database exception.

When pub.prt.log:logCustomId is invoked without supplying a value for "customID", the following exception appears in the logs:

[SoftwareAG][Oracle JDBC Driver][Oracle]ORA-01400: cannot insert NULL into ("WM_20_QS"."WMPROCESSASSOC"."EXTERNALID")

This issue is now resolved. The service will still throw an exception when the value is missing.

- WPE-2608 (PRT_9.0_SP1_Fix1)

Duplicate activity log messages are being displayed in the Monitor user interface in My webMethods.

After running a process and opening My webMethods to: Process Instances > Process Instance Detail > Activity Messages, duplicate log messages are displayed.

This issue is now resolved.

- WPE-2574 (PRT_9.0_SP1_Fix1)

In some situations, Process Engine may encounter a database deadlock exception.

Under heavy load conditions, the following exception may be seen in the server log:

“[PRT.0101.0512E] Database Storage problem. Exception: [sag-cjdbc42-0011] [SQLServer JDBC Driver][SQLServer]Transaction (Process ID nnn) was deadlocked on lock resources with another process and has been chosen as the deadlock victim. Rerun the transaction.”

This issue is now resolved. Process Engine will re-run the database transaction using a new connection.

- WPE-2593 (PRT_9.0_SP1_Fix1)

In some situations, the WmPRT package throws an exception during package loading.

When the WmPRT package tries to connect to a Broker instance that is configured with basic authentication, the following errors are written to the server log:

[PRT.0101.0832I] Error updating client group permissions: [BRM.10.5000] JMS: No permissions for current operation.

[PRT.0101.0831I] Error creating JMS internal topic: [BRM.10.5000] JMS: No permissions for current operation.

This issue is now 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.

7.0 Terminology Changes

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

Release 9.5

Old Term	New Term
Nirvana	Universal Messaging

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 9.6

Removed Item	Replacement, if any
Audit Logging Dashboard Status in Home Page	The previous Integration Server Audit Logging mechanism has been replaced with an internal mechanism.
Loggers Environment Information in Home Page	The previous Integration Server Audit Loggers have been replaced with an internal mechanism.

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

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

10.0 Added, Removed, Deprecated, or Changed Parameters

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

11.0 Added, Removed, Deprecated, or Changed APIs

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

12.0 Copyright Information

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13.0 Support

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