

webMethods NERV 9.6 Readme

April 2014

This file contains important information you must read before using webMethods NERV 9.6. You can find additional information about webMethods NERV 9.6 on the [Software AG Documentation website](#). In addition, the following suite-related information is also available at that location:

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

You can find the following information in the Products section of the [Empower website](#):

Security Information
Globalization Information

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1.0 Critical Information

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

None.

2.0 Known Issues

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

- EDA-878
NERV emits cached events at start-up before the activation of deployed emit configuration bundles
By default, NERV is configured to provide guaranteed delivery of events. Each event is written to a persistent cache before NERV attempts to emit it. After the event is emitted successfully, it is removed from the cache. If the emitting process is aborted or terminated before all events are sent and removed from the cache, NERV will re-emit the events found in the cache next time it starts. This may happen before deployed emit configuration bundles have been activated. As a result, the events are sent to the default endpoint, instead of the endpoint(s) defined in the deployed custom routes. This issue occurs randomly only if you use custom routes defined in an emit configuration bundles.
There is currently no workaround for this issue.
- EDA-874
A synchronous invocation of the emit() method during the activation of any deployed NERV configuration bundle causes NERV to block.
If a deployed custom NERV emit configuration bundle attempts to emit an event synchronously during bundle activation, a deadlock might occur.
As a workaround, in your custom NERV emit configuration bundles, call the emit() method in a separate thread.

3.0 Usage Notes

This section highlights product limitations and changes to product behavior introduced in this release.

- NERV now supports guaranteed delivery. It is enabled by default and set to the maximum safety level.
When using guaranteed delivery the throughput may be degraded by up to 90 %.
When using custom routes with multiple destinations and parallel processing configured for the multicast there may be more than 1 duplicate event when flushing events upon JVM restart.

4.0 Fixes and Enhancements

This section describes the fixes and enhancements included in webMethods NERV 9.6.

4.1 Fixes and Service Packs Included in This Release

This section lists the fixes and service packs for previous releases that have been included into the current release. If only some issues in a fix or service pack have been included, that partially included fix or service pack is not listed here, and those issues are listed separately in [Section 4.2 Resolved Issues](#). See the Knowledge Center section of the [Empower website](#) for more information about fixes and service packs.

- webMethods NERV 9.5 SP1 Fix 1

4.2 Resolved Issues

This section lists issues that were resolved in this release and that are not included in the fixes and service packs listed in [Section 4.1 Fixes and Service Packs Included in This Release](#). These issues might have been resolved in a fix or service pack that was not included in its entirety into this release, or they might have been resolved since the last fix or service pack was released.

None.

4.3 Enhancements

For a detailed list of the enhancements included in webMethods NERV 9.6, see the Release Notes available on the [Software AG Documentation website](#).

4.4 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.

None.

4.5 Terminology Changes

This section lists terminology that has changed since the last full release of the product.

None.

4.6 Added, Removed, Deprecated, or Changed Items

This section lists product functionality that has been added, removed, deprecated, or changed since the last full release of the product. Deprecated Built-In services and APIs are listed in the relevant sections that follow this one.

Added Item

Description

com.softwareag.eda.nerv.guaranteed.delivery.level

Specifies the guaranteed delivery level for storing events. The default value is `MAXIMUM_STRONG`. Other possible values are `NONE`, and `MAXIMUM_EVENTUAL`.

Note: When you set up the guaranteed delivery level to `MAXIMUM_STRONG` or `MAXIMUM_EVENTUAL`, the value you have defined for the `com.softwareag.eda.nerv.maximum.redelivery.attempts` property is disregarded. Instead, NERV attempts to redeliver events infinitely.

com.softwareag.eda.nerv.cache.configuration.location

Specifies the location of the Ehcache configuration files. It is used together with the `com.softwareag.eda.nerv.guaranteed.delivery.level` property.

com.softwareag.eda.nerv.jms.auto.generate.topics

Enables NERV to create topics automatically on the specified JMS provider. The default value is `true`. If set to `false`, users must create topics manually on the JMS provider.

Removed Item

Replacement Item (if applicable)

None.

Deprecated Item

Replacement Item (if applicable)

None.

Changed Item

Description

None.

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

This section lists Built-In services that have been added, removed, deprecated, or changed since the last full release of the product.

None.

4.8 Added, Removed, Deprecated, or Changed APIs

This section lists APIs that have been added, removed, deprecated, or changed since the last full release of the product.

Added API	Description
Configuration.THREAD_POOL	New subscription configuration.
DefaultConstants. DEFAULT_AUTO_GENERATE_TOPICS	The default value is true. If set to false, users must create topics manually on the JMS provider.
DefaultConstants. DEFAULT_IN_MEMORY_CHANNEL_ SIZE_VALUE	Default count of events that can exist in the in-memory channel.
DefaultConstants.DEFAULT_IN_MEMORY_ CONCURRENT_CONSUMERS_VALUE	Default count of consumers that can work at the same time.
DefaultConstants.DEFAULT_MAXIMUM_ REDELIVERY_ATTEMPTS_VALUE	Default count of attempts to redeliver unsend messages.
DefaultConstants. DEFAULT_REDELIVERY_DELAY_VALUE	Default delay in milliseconds between attempts to redeliver unsend messages.
DefaultConstants.GUARANTEED_DELIVERY_ LEVEL_MAXIMUM_EVENTUAL	Value used for enabling the MAXIMUM EVENTUAL level of guaranteed delivery.
DefaultConstants.GUARANTEED_DELIVERY_ LEVEL_MAXIMUM_STRONG	Value used for enabling the MAXIMUM STRONG level of guaranteed delivery.
DefaultConstants. GUARANTEED_DELIVERY_LEVEL_NONE	Value used for disabling guaranteed delivery of events.
DefaultConstants. PROP_AUTO_GENERATE_TOPICS	Property to set if the generation of topics is enabled or disabled.
DefaultConstants. PROP_CACHE_CONFIGURATION_ LOCATION	Property for setting the location of the configuration for guaranteed delivery cache.

Added API

DefaultConstants.
PROP_GUARANTEED_DELIVERY_LEVEL

DefaultConstants.
PROP_IN_MEMORY_
CONCURRENT_CONSUMERS

EndpointResolver.
generateInMemoryEndpointURINoOptions
(EDAEventTypeID)

EndpointResolver.
generateInMemoryEndpointURINoOptions
(String)

NERVSingleton.getAutoCreateTopics()

PropertiesProvider.getProperties()

PropertiesProvider.getProperty(String)

Subscription.useThreadPool(int)

Subscription.useThreadPool
(ThreadPoolConfiguration)

ThreadPoolConfiguration.
ThreadPoolConfiguration(int, int, String)

ThreadPoolConfiguration.getMaxPoolSize()

ThreadPoolConfiguration.getPoolSize()

ThreadPoolConfiguration.getThreadName()

ThreadPoolConfiguration.getType()

XSDParserResolver.resolveXsdParser()

SchemaElementTree.getFilterableProperties()

SchemaElementTree.getWalker()

Description

Property for setting the guaranteed delivery level.

Property for setting the concurrent consumers count of the in memory VM channels.

Generates an endpoint URI denoting the in memory VM channel which corresponds to the specified event type.

Generates an endpoint URI denoting the in memory VM channel which corresponds to the specified event type.

Returns the status of auto generation of topics in JMS.

Gets all properties from a preinitialized java.util.Properties object.

Gets a value of a property from a preinitialized java.util.Properties object.

Configures the subscription to use a thread pool with the specified size.

Configures the subscription to use a thread pool with the specified configuration.

Constructs an object based on the provided parameters.

Gives access to the maximum size of the pool to be used by NERV.

Gives access to the initial size of the pool to be used by NERV.

Gives access to the template name used by NERV when processing threads are spawned.

Returns the configuration type represented as an integer.

Resolves a XSDParser instance.

Gets the filterable properties.

Gets a schema element tree walker.

Added API	Description
SchemaElementTreeNode.getEffectiveRestriction()	Gets the restriction for the current node.
SchemaElementTreeNode.hasRestriction()	Check whether this node has a restriction.
XsdConverter	Converts IS schemata to EDA event types.
XsdConverterFactory	Factory to create instances of XsdConverter and XsdInfo.
XsdInfo	Represents a XML schema.

Removed API	Replacement API (if applicable)
EndpointResolver. generateDefaultInMemoryEndpointURI(String)	Generates endpoint with a given event type.

Deprecated API	Replacement API (if applicable)
None.	

Changed API	Description
EndpointResolver. generateDefaultInMemoryEndpointURI(String, PropertiesProvider)	Generates an endpoint URI denoting the default in memory VM channel which corresponds to the specified event type.
DefaultConstants. DEFAULT_IN_MEMORY_CHANNEL_SIZE_VALUE	Replaces DefaultConstants.IN_MEMORY_CHANNEL_DEFAULT_SIZE. Constant type has been changed from String to int.

5.0 Copyright Information

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6.0 Support

To obtain support for webMethods Product Suite components, refer to the following resources:

[Empower website](#)

Visit the Empower website to learn about support policies and critical alerts, read technical articles and papers, download products, fixes, and service packs, submit feature/enhancement requests, and more.

[Software AG Developer Community for webMethods](#)

Visit the Software AG Developer Community to access additional articles, demos, and tutorials, technical information, samples, useful resources, online discussion forums, and more.

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