

webMethods ebXML Module 7.1 Readme

May 2008

This file provides important information you should read before using webMethods ebXML Module 7.1. You can find additional information about webMethods ebXML Module 7.1 on the [Software AG Documentation Web site](#). In addition, the following suite-related information is also available at that location:

Product Documentation (includes installation and upgrade information)
eStandards System Requirements

You can find the following information in the Products section of the [Empower Web site](#):
Security Information
Globalization Information

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1.0 Critical Information

The following list describes 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 Product Support Web site](#).

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 section of the [Empower Product Support Web site](#).

- 1-1RPQXF
Unable to edit the Trading Partner Agreement, in Trading Networks, when opened for the first time. After creating the Trading Partner Agreement in webMethods Trading Networks using the importCPA service of the ebXML Module, when you edit the TPA, Trading Networks throws an error. This occurs only for the first time when you open the TPA for editing.
There is currently no workaround for this issue.
- 1-1T792D
Interoperability testing has not been performed with any third party software at the time of release of this version of ebXML Module.

3.0 Usage Notes

- WEX-249
Ensuring that SMIME/XML - Signing and Encryption work on 8.0 SP1.
When using SMIME/XML for signing and encryption for webMethods ebXML Module 7.1 on Integration Server 8.0 SP1, perform the following steps:
 - a. Set the `watt.config.systemProperties` server configuration parameter in the Extended Settings screen, as follows:
`watt.config.systemProperties=javax.xml.soap.MessageFactory=com.sun.xml.messaging.saaj.soap.ver1_1.SOAPMessageFactory1_1Impl,javax.xml.soap.SOAPFactory=com.sun.xml.messaging.saaj.soap.ver1_1.SOAPFactory1_1Impl,javax.xml.soap.SOAPConnectionFactory=com.sun.xml.messaging.saaj.client.p2p.HttpSOAPConnectionFactory,javax.xml.soap.MetaFactory=com.sun.xml.messaging.saaj.soap.SAAJMetaFactoryImpl`
 - b. Remove the `javax.xml.transform.TransformerFactory` information (if specified) from the `watt.config.systemProperties` parameter.
 - c. Install the unlimited policy jar files under `Software AG_directory\jvm\win160\jre\lib\security`. Doing so will prevent the following error messages from appearing when running the XML encryption service 'com.wm.estd.ebXML.xmlSecurity:xmlEncrypt'. (available with the optional webMethods ebXML Module 7.1 package 'WmebXMLSecurity') on Integration Server 8.0 SP1 with the symmetric key algorithm specified as `http://www.w3.org/2001/04/xmlenc#aes256-cbc` or `http://www.w3.org/2001/04/xmlenc#aes192-cbc`
`http://www.w3.org/2001/04/xmlenc#aes192-cbc`
[ebXML.0002.1014E] Exception during Out Task execution:
com.wm.estd.ebXML.EbException: com.wm.estd.ebXML.security.EbSecurityException:
com.wm.estd.ebXML.security.EbSecurityException: com.wm.estd.ebXML.EbException:
com.wm.app.b2b.server.ServiceException: com.wm.estd.ebXML.EbXEncException:

com.entrust.toolkit.xencrypt.exceptions.EncryptedElementException: Failed to initialize EncryptedElementSet.

- 1-1SXRED
webMethods ebXML Module 7.1 supports mimeType encoding only for payloads in the ebXML message. In ebXML Module 7.1, mimeType encoding is applicable only for payloads of the ebXML message. In ebXML Module 6.0.1, the mimeType encoding was applicable for the ebXML envelope and the payloads. This behavior is working as designed.
- 1-1SXT03
webMethods ebXML Module 7.1, on receiving an ebXML message with mimeType encoded payloads from a sender, converts the format of the mimeType encoding of the payload to binary format. On receiving an ebXML message with payloads that have mimeType encoding, the ebXML Module is unable to persist the message in the format sent by the sender. Instead, it converts the mimeType encoding format (base64, 7bit, 8bit, quoted-printable) to binary format. This behavior is working as designed.
- 1-1SXSX9
webMethods ebXML Module 7.1 creates temporary files when handling large documents. ebXML Module does not delete these temporary files, thereby resulting in an error, "File Already Exists". This is an issue with the Integration Server. Install the IS_7-1-1_Core_Fix4 to delete the temporary files automatically, after handling the large documents.
- 1-1T60OB
webMethods ebXML Module 7.1 does not provide an option to encrypt first and then sign messages. webMethods ebXML Module 7.1 allows users to first sign and then encrypt the messages. This is as per the ebXML Message Service Version 1.0 Specification and ebXML Message Service Version 2.0 Specification. In ebXML Module 6.0.1, there was an option to encrypt and sign in any order. ebXML Module 7.1 does not support this functionality.
- webMethods ebXML Module 7.1 uses the webMethods Integration Server Reverse HTTP Gateway server. The Reverse Gateway replaces the Relay Server implementation that was provided in webMethods ebXML Module 6.0.1. For information about using a Reverse Gateway server with ebXML Module 7.1, see the *webMethods ebXML Module Installation and User's Guide*.
- webMethods ebXML Module 7.1 sends an asynchronous response, irrespective of the TPA's syncMode settings, when more than one response is expected by the sender from the receiver. This behavior is working as designed. For example:
 - In ebMS 1.0, after sending a message, the sender expects both the deliveryReceipt and the Acknowledgment from the receiver and the receiver responds with two independent ebXML messages: one with the deliveryReceipt element and the other with the Acknowledgment element.
 - In a multi-hop scenario in ebMS 2.0, when both the sender and the last intermediate node send a request for Acknowledgments from the receiver, the receiver sends two independent acknowledgments: one with "To Party MSH" actor URI targeted to the sender and the other with the "Next MSH" actor URI targeted to the last intermediate node.
- The ebXML Module Samples package is posted on Advantage, and no longer packaged with the ebXML Module. The *webMethods ebXML Module Sample User's Guide* is available along with the samples package.

4.0 Enhancements and Fixes

4.1 Fixes and Service Packs Included in This Release

webMethods ebXML Module 7.1 includes the following fixes and service packs made available since the last release. See the Knowledge Center section of the [Empower Product Support Web site](#) for more information about service packs and fixes.

- ebxml_6-0-1_Fix2
- ebxml_6-0-1_Fix3
- ebxml_6-0-1_Fix5
- ebxml_6-0-1_Fix6
- ebxml_6-0-1_Fix8
- ebxml_6-0-1_Fix10
- ebxml_6-0-1_Fix12
- ebxml_6-0-1_Fix14
- ebxml_6-0-1_Fix16
- WmehXML_6-0-1_SP1_Fix7
- WmehXML_6-0-1_SP1_Fix9
- WmehXML_6-0-1_SP1_Fix10
- WmehXML_6-0-1_SP1_Fix13
- WmehXML_6-0-1_SP1_Fix14
- WmehXML_6-0-1_SP1_Fix15

4.2 Other Resolved Issues

This section lists other issues that were resolved in this release.

- 1-1JUHMG (WmehXML_6-0-1_SP1_Fix15)
When an ebXML messaging fails because the specified Location /host/port is invalid, the corresponding error message is not logged into the Activity log.
If the specified Location/host/port of the receiving trading partner is invalid, the ebXML messaging fails and this error message which has the root cause of the failure is not logged in the Activity log.
This issue is now resolved. The error messages are logged into the Activity log.
- 1-1JE51M (WmehXML_6-0-1_SP1_Fix14)
Need to update webMethods ebXML Module 6.0.1 to include the functionality to support multiple actions feature specified in the ebXML specification 2.0.
As per the ebXML specification 2.0, the 'ServiceBinding' element in CPA has one 'Service' child element, zero or more 'CanSend' child elements, and zero or more 'CanReceive' child elements. Because of this possibility of having more than one CanSend/CanReceive child elements defined and each CanSend/CanReceive child element can be associated to one "action" attribute, multiple actions for a single conversation are possible. That is, the CPA can have multiple actions defined or declared before hand for a transaction between two parties. For a particular transaction, the user should have an option to pickup any of the defined "action" elements.
This issue is now resolved by including an extra input, "PerformAction", in wm.ip.ebxml.MSH:sendUsingTPA service, which allows users to dynamically select an action required for a transaction.
- 1-1GKI7T (WmehXML_6-0-1_SP1_Fix13)
In webMethods ebXML Module 6.0.1, when there is a failure in delivering the ebXML message, the delivery status is not updated in Trading Networks to indicate the delivery failure.
When sending ebXML messages with delivery semantics as *BestEffort*, if the address specified is incorrect or connection to the receiver could not be established, the user status in Trading Networks is not updated to indicate that an error occurred in the transaction.
This issue is now resolved.
- 1-1A2R26 (WmehXML_6-0-1_SP1_Fix10)
The webMethods ebXML Module 6.0.1 does not check the digital signatures for Acknowledgments, Pings, Pongs, Status Requests, and Status Responses.
In webMethods ebXML Module 6.0.1, after applying the WmehXML_6-0-1_SP1_Fix5 fix, it does not check the digital signatures for Acknowledgments, Pings, Pongs, Status Requests, and Status Responses. Because of this issue, the messages with invalid signatures run successfully without any error. Messages with invalid signatures should fail and display a "Failure while verifying a signature" error message.
This issue is now resolved. The webMethods ebXML Module 6.0.1 checks the digital signatures for Acknowledgments, Pings, Pongs, Status Requests, and Status Responses.
- 1-15H4TY (WmehXML_6-0-1_SP1_Fix9)
In the webMethods ebXML Module, the Payload signature digest is missing when the ebXML message is routed from the Sender to the Receiver by the Router.
In a multihub environment, whenever a Sender sends a signed message to the Receiver via a Router, it sends a Payload signature digest along with the message to the Router. Then, the Router should send the message

to the Receiver along with the Payload signature digest as below.

```
<dsig:Reference URI="">
```

```
<dsig:Reference URI="cid:Sample-XML-PO">====>Payload SignatureDigest
```

But the Router does not include the Payload signature digest, thus causing a security breach.

This issue is now resolved. The Router includes the Payload signature digest to the message.

- 1-14S05P (WmwebXML_6-0-1_SP1_Fix7)

In webMethods ebXML Module 6.0.1, the value of the Content-ID field in the ebXML Envelope does not contain the angular brackets.

According to RFC 2045, the Content ID field value in the ebXML Envelope and Payload should contain the angular brackets. In webMethods ebXML Module 6.0.1, when the built-in service

wm.ip.ebxml.coder:createEnvelopeStream creates a Mime Envelope for ebXML messages, the value of the Content-ID field is without angular brackets.

This issue is resolved.

- 1-XCSG3 (ebxml_6-0-1_Fix16)

At Integration Server startup or restart or when the WmwebXML package is reloaded, extra ebXML processing rules are created in the processing rules list for Trading Networks (and seen in the Trading Networks console).

This fix addresses this issue and prevents ebXML processing rules from being duplicated.

- 1-UL8KD (ebxml_6-0-1_Fix14)

When sending ebXML messages, ebXML Module 6.0.1 makes the number of attempts to send the message, as set in Trading Networks. If it fails to receive an Acknowledgement from the Partner, ebXML Module 6.0.1 sends itself an ebXML Error message. When the ebXML Module receives an ebXML Error message, it incorrectly changes the User Status of the initiating document to endMessage:<numberOfAttempts>'. Additionally, ebXML Module 6.0.1 is unable to relate the generated error document to the ebXML sending message document.

This fix changes the User Status of the initiating document from 'SendMessage:<numberOfAttempts>' to 'SendMessage:Err'. It also generates the valid error message document which is related to the original message sent by the sender.

- 1-TFU0H (ebxml_6-0-1_Fix12)

The XML Signature for webMethods ebXML Module does not include the C14N transform text.

This fix corrects the signature.

- 1-TFOCI (ebxml_6-0-1_Fix12)

webMethods ebXML Module does not send multiple payloads in the same ebxml message.

This fix corrects the payload issue.

- 1-T9Y0P (ebxml_6-0-1_Fix12)

When webMethods ebXML Module sends ebxml message and requests a Sync Ack back from the partner, we do not receive the sync ack even though the partner says that they have sent us a sync ack.

This fix enables webMethods ebXML Module to correctly receive the sync ack from the partner.

- 1-T7A9L (ebxml_6-0-1_Fix12)
XML signature verification fails when webMethods ebXML Module receives XML signed documents from partners.
This fix corrects the verification.
- 1-TFYKV (ebxml_6-0-1_Fix10)
The webMethods ebXML Module incorrectly considers incoming messages expired because it interprets timestamps without the 'Z' indicator (for UST/GMT) as local time. This is not in compliance with the ebXML standard as defined in <http://www.ebxml.org/specs/ebMS2.pdf>. The standard states that timestamps are always in UST and the 'Z' indicator is optional.
This fix correctly handles the timezone as UST without the 'Z' indicator for incoming messages.
- 1-OS34R (ebxml_6-0-1_Fix8)
Cannot persist payload content part in TN transaction store.
- 1-OOKRO (ebxml_6-0-1_Fix6)
In a multi-hop messaging, a connection error should not stop the retries of reliable delivery.
- 1-N5EIV (ebxml_6-0-1_Fix5)
Addressable CID URI does not conform to standard.
In this fix, all addressable Content-IDs are in the form of "<Content-ID>".
- 1-N5EJU (ebxml_6-0-1_Fix5)
Content-IDs for payloads are not unique.
In this fix, a globally unique ID is generated for all Content-IDs.
- 1-MFMH5 (ebxml_6-0-1_Fix3)
Acknowledgment from webMethods has no Acknowledgment element on AckRequested elements.
When the sender requests an acknowledgement, webMethods ebXML Module creates the acknowledgement but does not include a required Acknowledgement element. Additionally, when the sender does not request an acknowledgement, webMethods ebXML Module sends an acknowledgement anyway.
This has now been rectified.
- 1-MGG4X (ebxml_6-0-1_Fix3)
HTTP response 2xx interpreted as an error.
The webMethods ebXML Module interprets all HTTP response codes except 200 as an error. According to the HTTP and ebXML standards, all 2xx codes are success codes; other Message Service Handler (MSH) software will return 2xx codes on success.
The webMethods ebXML Module now correctly interprets the 2xx error codes as success codes.
- 1-LZKLT (ebxml_6-0-1_Fix2)
ebXML sync ack format structure is incorrect. The http response headers are not set up correctly.

4.3 Enhancements

- 1-1005HA
Support for ebXML CPP/CPA v2.0.
webMethods ebXML Module 7.1 supports the ebXML CPP/CPA v2.0 Specifications. This allows the user to import the CPA files created from CPP/CPA 2.0 Schema Definition.
- 1-1BKPYO
Support Multiple Action Values when importing the CPA file.
webMethods ebXML Module 7.1 supports Multiple Action Values when importing the CPA file. The users can now set the action in the ebXML Send Message services to pick the value for the action from multiple values in the TPA.
- 1-TDHK3
Ability to set email (MIME) subject when sending ebXML using SMTP.
webMethods ebXML Module 7.1 allows you to set the subject in the email for ebXML messages that are sent using SMTP Transport. The subject is set as ebXML message (CPA ID = <CPA ID> and Conversation ID = <Conversation ID>).

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.

- The *webMethods ebXML Module Installation Guide*, *webMethods ebXML Module User's Guide*, and *webMethods ebXML Module Built-In Services Guide* have been merged into one single guide, *webMethods ebXML Module Installation and User's Guide*. This guide is available from the [Software AG Documentation Web site](#) and can also be downloaded as part of the product documentation library from the webMethods Installer.

4.5 Terminology Changes

None.

4.6 Deprecated Items

Deprecated Item

All ebXML Module 6.0.1 TN document types are deprecated:

- ebXML v1.0 Default
- ebXML v1.0 Payload
- ebXML v1.0 Error

Description

The ebXML Module 6.0.1 TN document types are not compliant with the ebXML Messaging Service version 2.0 specifications and are deprecated.

ebXML Module 7.1 has a new set of TN document types that are compliant with the ebXML Messaging Service version 2.0 specifications. They are:

- ebXML Default

Deprecated Item

- ebXML v1.0 Receipt
- ebXML v1.0 Routing

Description

- ebXML Payload
- ebXML Error
- ebXML Receipt
- ebXML Routing

4.7 Added, Removed, or Changed Built-in Services

Added Service

wm.ip.ebxml.util:migrateTPA

Description

Migrates the ebXML Module 6.0.1 TPA to the ebXML Module 7.1 TPA.

Removed Service

wm.ip.ebxml.hook:processServiceElement

Description

Provides the default implementation for processing the Service element in the ebXML envelope; invokes a webMethods service when the service type is “webMethods”.

This service is not required in ebXML Module 7.1, and has been removed.

The user now has to define a flow service that has the signature given by the wm.ip.ebxml.rec:payloadProcess specification.

wm.ip.ebxml.MSH:ping

Provides the Message Service Handler (MSH) Ping service as specified in ebXML Message Service, versions 1.0 and 2.0. Enables one MSH to determine whether another MSH is operating. This service sends a Ping message to an MSH, and responds to a received Ping message with a Pong message.

Starting with the ebXML Message Service Version 2.0 Specification, it is mandatory to use the TPA structure for all ebXML Messages, and hence this service is removed. Instead, use the service wm.ip.ebxml.MSH:pingUsingTPA.

Removed Service

wm.ip.ebxml.MSH:route

Description

Routes a given ebXML message according to the definition of the message.

Starting with the ebXML Message Service Version 2.0 Specification, it is mandatory to use the TPA structure for all ebXML Messages, and hence this service is removed. Instead, use the service `wm.ip.ebxml.MSH:routeUsingTPA`.

wm.ip.ebxml.MSH:send

Provides the entry point for outgoing ebXML messages. Submit outgoing ebXML messages to this service.

Starting with the ebXML Message Service Version 2.0 Specification, it is mandatory to use the TPA structure for all ebXML Messages, and hence this service is removed. Instead, use the service `wm.ip.ebxml.MSH:sendUsingTPA`.

wm.ip.ebxml.MSH:status

Provides the Message Status Request service as specified in ebXML Message Service, versions 1.0 and 2.0. This service performs the following:

- Sends a Message Status Request message to an MSH.
- Responds to a received Message Status Request message with a Message Status Response message.

Starting with the ebXML Message Service Version 2.0 Specification, it is mandatory to use the TPA structure for all ebXML Messages, and hence this service is removed. Instead, use the service `wm.ip.ebxml.MSH:statusUsingTPA`.

Changed Service

wm.ip.ebxml.cpa:exportCPA

Description

Extracts the original CPA from a Trading Partner Agreement (TPA) that was originally created by using the CPA.

The `wm.ip.ebxml.cpa:exportCPA` service has been modified to be compliant with the ebXML CPP/CPA v2.0 Specifications.

Changed Service

Description

wm.ip.ebxml.cpa:importCPA

Creates and configures two Trading Networks profiles and a TPA from a CPA.

The wm.ip.ebxml.cpa:importCPA service has been modified to be compliant with the ebXML CPP/CPA v2.0 Specifications.

wm.ip.ebxml.MSH:sendBizDoc

Sends the content parts of an existing BizDocEnvelope object as an ebXML message. This service must be used with a TPA.

A new input parameter, action, has been introduced to specify the action to be executed by the receiver's Message Service Handler.

wm.ip.ebxml.MSH:sendErrorMsg

Receives the BizDocEnvelope object and the error information and outputs the message ID of the message where the error occurred. The message ID in this case is the ID of the error message.

The output parameters have been introduced to maintain consistency between the output parameters generated from all other send services.

wm.ip.ebxml.MSH:sendUsingTPA

The send service that uses a TPA. This service constructs an ebXML Message and submits it to the internal queue as a task to be processed. If the required TPA is not present, an exception is thrown.

A new input parameter, action, has been introduced to specify the action to be executed by the receiver's Message Service Handler.

Note: All the above services were flow services in ebXML Module 6.0.1. In ebXML Module 7.1, all these services are converted to Java services.

4.8 Added, Removed, or Changed APIs

None.

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 Product Support Web site](#)

Visit the Empower Web site 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, useful resources, online discussion forums, and more.

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