

webMethods CloudStreams Server 9.12 Readme

October 2016

This file contains important information you must read before using webMethods CloudStreams Server 9.12. You can find system requirements, user documentation, and installation and upgrade instructions 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](#).

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](#).

- WST-2794

For REST resources, if a Request resource excludes the root, CloudStreams fails to map a literal value to an xpath expression.

While mapping a literal value to xpath, the xpath mapping handler does not consider the excludeRoot attribute for a REST resource's Request signature. As a result, the target path where the literal value should be set does not get formed properly for any resource, for which excludeRoot is set as true.

There is currently no workaround for this issue.

- WST-2819

CloudStreams fails to parse a response when the response formatter.builder is configured as "binary", and the request Accept header is set to "application/json".

When the response formatter.builder for a Cloud Connector Service is configured to "binary", and the Accept header is configured to "application/json", CloudStreams fails to parse the resulting back end response.

There is currently no workaround for this issue.

3.0 Usage Notes

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

- A CloudStreams REST resource supports only one type of message builder and formatter for all response codes.
- CloudStreams does not support the RPC/encoded style WSDL.
- CloudStreams does not support the RPC/literal style WSDL.
- CloudStreams engine supports HTTP URL redirection only for GET, HEAD, and POST methods. This is as per HTTP 1.1 RFC.

- CloudStreams does not support sharing of Connector Virtual Services, Virtual Services, and Policies across nodes in a clustered setup. These artifacts should be manually deployed to a clustered node on need basis.
- Streaming Provider/Subscriber functionality will not work if configured with a proxy server for the Salesforce backend. This is due to a limitation from the Salesforce backend.
- For SOAP based connectors, if WSDL has multiple bindings for a given service, CloudStreams does not support changing multiple URLs dynamically to connect to the service endpoint.
- The MashZone based CloudStreams Analytics dashboard is deprecated from the 9.10 release.

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

- WST_9.10_Fix4

Release 9.10

- WST_9.9_Fix2

Release 9.9

- WST_9.8_Fix2

Release 9.8

- WST_9.7_Fix1.

Release 9.7

- WST_9.6_Fix2.

Release 9.6

- WST_9.5_SP1_Fix2.

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 9.12

- WST-2817
CloudStreams is not able to handle URI_CONTEXT style parameter values with special characters. CloudStreams fails to process a Cloud Connector Service request, which specifies a value with special characters for parameters of type URI_CONTEXT. In such cases, the outbound request fails to reach the back end.
This issue is resolved.

Release 9.10

- WST-2378
CloudStreams does not support creating Cloud Connector Services that have an array of JSON objects without the key/root in the request payload.
In the absence of a parent root for the collection, it is not possible to represent the objects under the request payload. Because of this limitation, it is not possible to create or invoke services, which expect a root less array in the request payload.
This issue is resolved.
- WST-2644
Cloud Connector Services, which require mapping of parameters, fail to run.
For a REST based connector, a parameter value cannot be assigned to another parameter by specifying a parameter to parameter mapping. This is because CloudStreams does not support parameter to parameter mapping.
This issue is resolved. Parameter to parameter mapping is now supported.
- WST-2638
CloudStreams is unable to handle excludeRoot properties in Request signature using XML.
For a REST based connector which communicates in XML, if the “excludeRoot” option is set to “true”, then while sending a Request to the backend, CloudStreams is not able to exclude the root of the Request.
This issue is resolved.
- WST-2639
Cloud Connector service signature does not populate the picklist values.
Cloud Connector service signature does not populate the picklist values even if the schema element has enumeration defined.

This issue is resolved. Now Cloud Connector service signature field's picklist attributes are populated with enumerated values available from the schema.

Release 9.9

- WST-2555
Authentication failure when Twitter resources expect messages to be sent as a query parameter.
Some Twitter resources expect messages to be sent as a query parameter. While using such resources, if the messages sent contain a space, authentication failure is observed.
This issue is resolved.
- WST-2524
User is not able to see service references or dependents for CloudStreams artifacts.
While checking dependents or references for CloudStreams assets using Software AG Designer, the user is not able to see the service references or dependents.
This issue is resolved.

Release 9.8

- WST-2126
Connections after given timeouts are not automatically refreshed using OAuth refresh tokens.
If OAuth refresh tokens are provided and session management is turned on, CloudStreams connections are not refreshing the access tokens automatically using the provided refresh tokens.
This functionality may work with only the Salesforce provider and without using any proxies in the connection.
Workaround: Manually update the access tokens with the latest valid access tokens.
- WST-2142
Virtual service deployment errors are reported by CloudStreams Server at startup, when a cluster is enabled.
In a clustered environment, at server startup, when a CloudStreams Server node joins a cluster, for each virtual service deployed on that node, if there is a corresponding entry in the shared virtual services cache, the CloudStreams Server node attempts to undeploy the existing deployed service, and thereafter attempts to redeploy the same service using the shared cache data for that service entry. Undeploy and subsequent redeploy of the connector virtual service fails with errors reported in the server logs.
Extract of the error for the default SOAP connector virtual service WmCloudStreams.SapVS:

```
[CLS.0050.0212E] Unknown exception deploying virtual service: WmCloudStreams.SapVS Cause: 0
[CLS.0050.0048E] Error getting endpoints for service:WmCloudStreams.SapVS, Cause: Unknown
exception deploying virtual service: WmCloudStreams.SapVS Cause: 0
[CLS.0030.0356E] VirtualServiceDeployer - unable to get endpoints for WmCloudStreams.SapVS, caught
this: type (com.softwareag.pg.exceptions.PGException), msg (Error getting endpoints for
```

```
service:WmCloudStreams.SoapVS, Cause: Unknown exception deploying virtual service:  
WmCloudStreams.SoapVS Cause: 0)  
[CLS.0030.0363W] VirtualServiceDeployer.redeployUndeployedIfNecessary - service  
(WmCloudStreams.SoapVS) caught this: type (com.softwareag.pg.exceptions.DeploymentException) message  
(VirtualServiceDeployer - unable to get endpoints for WmCloudStreams.SoapVS, caught this: type  
(com.softwareag.pg.exceptions.PGException), msg (Error getting endpoints for  
service:WmCloudStreams.SoapVS, Cause: Unknown exception deploying virtual service:  
WmCloudStreams.SoapVS Cause: 0 ))
```

This error is benign. Syncing up virtual service from shared cache is not supported in CloudStreams, so the sync up action performed by the node is redundant.

Release 9.7

- WST-1898
CloudStreams is not able to delete a connection from a different Administrator user.
When an Administrator creates a CloudStreams connection, for example, a Salesforce connection and a different Administrator tries to delete that connection, the following error appears: "*Unable to modify; node <node_name> is locked by another user*".
This issue is resolved. Now any Administrator user can delete a CloudStreams connection.
- WST-2066
Authorization header value for OAuth v1.0a and v2.0 is not set correctly.
For CloudStreams connectors using OAuth (v1.0a or v2.0), the "Authorization" header value in the outgoing message is not correctly set as per the OAuth version specification. For v1.0a, it should be set to "OAuth" and for v2.0 it should be set to "Bearer".
This issue is resolved.
- WST-2019
When a password is auto filled in the Integration Server Administration page, it does not get updated in the connection node.
When the username for a connection node is updated and the password is filled using the browser's auto fill feature, the CloudStreams server fails to register the updated password. As a result, when the connection is enabled, the older password is used in combination with the updated username.
This issue is resolved.
- WST-2008
Request does not redirect when a SaaS provider provides a redirection response to the request.
When a SaaS provider responds with a HTTP redirect response for a cloud connector service, the request is not automatically redirected to the new URL.
This issue is resolved. As per HTTP protocol guidelines, redirect will happen only for GET, HEAD, and POST requests.

Release 9.6

- **WST-1389**

While generating the JSON request/response messages, CloudStreams adds an IS document type root element to the message.

Currently, if JSON request/response message is represented as an IS document type for a connector service, the generated JSON message has the IS document type root element added as a key.

This issue is resolved. Now, adding an IS document type as the root element to the message is configurable.

- **WST-1411**

CloudStreams returns a ClassCastException when executing a SOAP connector service with an RPC/literal WSDL.

When users attempt to execute a SOAP connector service with the RPC/literal style WSDL, the process fails. This issue occurs because CloudStreams does not support the RPC/literal style WSDL in SOAP connectors.

This issue is resolved. Now CloudStreams does not return a ClassCastException, but users will not be able to send a valid request or to parse a valid response because CloudStreams server does not support the RPC/literal style WSDL.

- **WST-1491**

CloudStreams services cannot handle JSON responses with multiple root nodes.

CloudStreams Server cannot parse a JSON response with more than one root node. For example, when a REST resource returns the following JSON response {"node1": "value1", "node2": "value2"}, the CloudStreams engine will fail to parse the response.

This issue is resolved. With REST virtual services, when working with requests and responses of the Content-Type application/json, the message content can contain one or more root nodes.

- **WST-1563**

CloudStreams keeps all virtual service application references, even when the application is removed from the virtual service and is redeployed.

When changing the consumer application definitions for a deployed virtual service, CloudStreams retains the old application definitions and uses them for run-time governance.

This issue is not applicable to CloudStreams.

- **WST-1685**

Cloud connector service (SOAP) does not pick the user-defined Default Values, specified for SOAP headers.

Currently, the execution of a cloud connector service (SOAP) does not pick any user-defined Default Values configured in the SOAP header tab. Only the default value configured in the Connector Descriptor (XML) or explicitly specified to the service pipeline is picked during the service execution.

Resolution: Explicitly map or specify a value to the service pipeline for the desired SOAP header. For non-mapped headers and modifiable mapped headers, CloudStreams picks up the user

specified default value set in the Headers tab.

Release 9.5

- WST-1363
For REST connectors, only the “Header” map type is supported as a target for assignment in the mapping statements.
This issue is resolved.
- WST-1364
The “Connector Virtual Services” tab of the CloudStreams “Virtual Services” administration page may show erroneous data regarding the list of connector services associated with a connector virtual service after connector services are configured. This issue happens when connector service is reconfigured to use another connector virtual service.
This issue is resolved.
- WST-1365
REST based connector connection does not get enabled when password contains & (ampersand) character.
For example, the Salesforce back-end allows the & (ampersand) character in a password. But the CloudStreams REST cloud connector framework does not enable a connection if a password contains special characters such as " (quote), & (ampersand), ' (apostrophe), < (less than symbol), < (greater than symbol).
This issue is 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

- TLS and security related information
- Wire logging information updated
- CloudStreams FAQ and Troubleshooting Guide updated

Release 9.9

- The *webMethods CloudStreams FAQ and Troubleshooting* guide available at

<http://documentation.softwareag.com/> provides FAQs and troubleshooting tips.

Release 9.8

- Software AG documentation is now no longer available on the Software AG installer from this release. You can access all Software AG documentation on the [Documentation website](#).

Release 9.5

- The *Administering webMethods CloudStreams* guide is available at <http://documentation.softwareag.com/>.

7.0 Terminology Changes

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

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
Support for Transport Layer Security (TLS) 1.1 and 1.2	CloudStreams now supports the latest versions of TLS standard v1.1 and v1.2. Using Java Secure Socket Extension (JSSE) based libraries, CloudStreams supports TLS v1.1 and v1.2 for outbound connections.
Wire logging message	If you now enable the Connection factory wire logging option from the CloudStreams > Administration > General screen in the Integration Server Administrator, a warning message appears. The message informs the side effects of turning on this setting.

Changed Item	Description
Regrouping between Basic and Advanced views and reordering of fields within the Credentials , Transport Protocol , and Request Headers connection groups.	Authentication Type field is now moved ahead of the Preemptive Auth field so that fields in the Basic view stay ahead of the fields visible in the Advanced view for the Credentials connection group. Element Character Set and Strict Transfer Encoding fields are moved to the Advanced view for the Transport Protocol connection group. Request Header Names and Request Header Values fields are moved to the Advanced view for the Request Headers connection group.

Release 9.10

Deprecated Item	Replacement, if any
Software AG MashZone based CloudStreams Analytics dashboard.	The Software AG MashZone based CloudStreams Analytics dashboard is deprecated from this release.

Changed Item	Description
CloudStreams User Interface	The HTML-based utility used to administer webMethods CloudStreams has a new look and feel. Menu and screen locations have not changed and there is no change in the User Interface functionality.

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

Added Service	Description
pub.cloudstreams.admin.service:batchupdate	The batchUpdate service complements the update service by allowing batches of CloudStreams connector service nodes to be updated in one operation. You can use the batchUpdate service to update multiple CloudStreams connector service nodes from a lower version of the connector API to a higher version.

Changed Service	Description
pub.cloudstreams.admin.service:update	This service allows you to update a CloudStreams connector service node from one version of connector API to a higher version for various attributes such as the <i>Connection Alias</i> and the <i>Virtual Service Name</i> . The changes in this service are two new input parameters, <i>simulate</i> and <i>force</i> .

Release 9.7

Added Service	Description
pub.cloudstreams.admin.service:update	Updates a CloudStreams connector service node for various attributes such as the <i>Connection Alias</i> and the <i>Virtual Service Name</i> .

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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