

webMethods CloudStreams Server 9.8 Readme

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This file contains important information you must read before using webMethods CloudStreams Server 9.8. You can find webMethods CloudStreams Server 9.8 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

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

Security and globalization information

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1.0 Critical Information

This section lists the 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](#).

None.

2.0 Known Issues

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

- WST-1242
Streaming Provider/Subscriber functionality configured with a proxy server fails.
Currently, Streaming Providers and Streaming Subscribers that are configured with a proxy server, do not return responses from the SaaS backend and fail with an SSL internal error. As a result, the Subscriber may not be enabled in some cases.
The root cause of this issue is in the Salesforce Streaming API itself. For more information, see the Salesforce known issue *ID W-1781587*.
Workaround: Use the Streaming Provider/Subscriber functionality without a proxy configuration.
- WST-2336
CloudStreams does not support invocation of a cloud service that expects a JSON payload, if the payload has an array with a single element in it.
If the JSON request payload in the runtime contains an array with a single element, the service invocation fails. In the following example, the JSON payload will be supported by CloudStreams only if while invoking the service, the fields array contains multiple array elements in it.

```
{
  "pipelineId": "df-049705928Y6E3UQM6Q33",
  "pipelineObjects": [
    {
      "fields": [
        {
          "key1": "value1",
          "key2": "value2"
        }
      ]
      "name": "account"
    }
  ]
}
```

```
]
}
```

Workaround: To post such messages, build the JSON request payload as a String and pass the payload as a stream to the request body.

- WST-2378

CloudStreams does not support an array of JSON objects without the key/root in the request body. Some APIs may expect an array of JSON objects without the key/root in the request payload. As shown in the following example, CloudStreams does not support designing a cloud service's request signature that has a keyless JSON object array, using document types.

Example:

```
[
  {
    "EmployeeName": "Alex",
    "Department": "HR"
  },
  {
    "EmployeeName": "John",
    "Department": "Finance"
  }
]
```

Workaround: To invoke such services, choose binary stream as the request signature while creating the cloud service. To post such messages, build the request payload JSON (as shown above) as String and pass it as a stream to the request body of the service.

- WST-2375

Issues found while reading CloudStreams/Mediator objects from the Terracotta cache. When Mediator and CloudStreams are installed on the same Integration Server instance, either CloudStreams or Mediator can come across an issue while reading objects from the Terracotta cache.

Workaround: Install Mediator and CloudStreams on separate Integration Server instances.

- WST-2380

Creation of cloud services for certain connectors like Salesforce Chatter and Facebook's Get User Info and Get Page API is slow.

Due to the size of the artifacts/stubs of these APIs, the service creation process may acquire a large memory footprint. This causes the service creation process to be slow.

Workaround: To avoid delays in service creation, map streams instead of doctypes in design time.

Further, while invoking the service, build a JSON request payload as a String and pass that as a stream. If you want to use doctypes as the request metadata, it is recommended to increase the heap size in order to accommodate the large doctype generation.

3.0 Usage Notes

This section provides additional information you need to work with the current release of webMethods CloudStreams Server.

- 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 does not support HTTP PATCH method while working with REST resources.
- 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.

4.0 Fixes Included in Each Release

This section lists the fixes that have been included in each release. Go to the Knowledge Center on the [Empower website](#) for detailed information about fixes.

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.

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.SoapVS:

[CLS.0050.0212E] Unknown exception deploying virtual service: WmCloudStreams.SoapVS Cause: 0
[CLS.0050.0048E] Error getting endpoints for service:WmCloudStreams.SoapVS, Cause: Unknown exception deploying virtual service: WmCloudStreams.SoapVS Cause: 0
[CLS.0030.0356E] 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)
[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.

6.0 Documentation Changes

This section describes significant changes to the documentation in each release, such as the addition, relocation, or removal of product guides, online help, chapters, or other major content.

Release 9.8

None.

Release 9.7

None.

Release 9.6

None.

7.0 Terminology Changes

Release 9.8

None.

Release 9.7

None.

Release 9.6

None.

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.

Release 9.8

None.

Release 9.7

None.

Release 9.6

None.

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

Release 9.8

None.

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> .

Removed Service	Replacement
None.	

Deprecated Service	Replacement
None.	

Changed Service	Description
None.	

Release 9.6

None.

10.0 Added, Removed, Deprecated, or Changed Parameters

Release 9.8

None.

Release 9.7

None.

Release 9.6

None.

11.0 Added, Removed, Deprecated, or Changed APIs

Release 9.8

None.

Release 9.7

None.

Release 9.6

None.

12.0 Copyright Information

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13.0 Support

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