Cloudera Stream Processing 2.0.1

# Cloudera Stream Processing Release Notes

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## CLOUDƎRA

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# Contents

# What's new in Cloudera Stream Processing

Cloudera Stream Processing 2.0.1 is a maintenance release that includes a number of bug fixes.

CSP 2.0.1 includes the following bug fixes:

- CSP-310 – The SMM parcel does not contain all dependencies, including Node and Forever.
- CSP-319 – SMM does not trigger alerts immediately when SRM fails.
- CSP-348 – SRM requires a cluster restart for any SRM-control changes to take effect.
- CSP-363 – SRM record replication may fail.
- CSP-366 – SMM logs show duplicate Cloudera Manager authentication entries.
- CSP-407 – SMM displays a UI error on the Topic page when you specify a custom time range.
- CSP-414 – SMM metrics may display errors.
- CSP-415 – SMM Data-In Data-out metrics display discrepancies between the global metric and an individual partition metric.
- CSP-499 – When SMM is configured with SSL, SMM fails to start.
- CSP-530 – SMM clusters left running will fail with an Out o Memory message in the SMM log, and a "Failed to fetch" error displayed on the SMM UI.
- CSP-541 – NullPointerException displays when Cloudera Manager is on https but SMM is configured to use http.
- CSP-555 – The SMM metric TOTAL_FETCH_CONSUMER_REQUEST_LATENCY does not return accurate values.
- CSP-594 – The identifier length in Oracle migration scripts is not compatible with Oracle 11gR2 and Oracle 12.1.

# Component support

CSP 2.0.1 includes the following components.

> **Important:**
>
> CSP 2.0.x installs Streaming components on CDH clusters. For information about installing Streaming components on CDP Private Cloud Base, see *Runtime documentation* for your software version. For information about installing Streaming components in CDP Public Cloud, see *CDF for Data Hub documentation* about Streams Messaging clusters.

- Schema Registry 0.8.0
- Apache Kafka 2.2.0 delivered in the following two ways:

  - If you install CDH 6.3.0 or later, Kafka is included in your CDH installation.
  - If you are using CDH 5.13.0 or later, you must install Kafka using the CDK 4.1 parcel.
- Streams Messaging Manager 2.1.0
- Streams Replication Manager 1.0.0

**Related Information**
Runtime documentation
CDF for Data Hub documentation

# Known issues

A summary of known issues for this version of Cloudera Stream Processing.
**SRM does not sync re-created source topics until the offsets have caught up with target topic**

Problem: Messages written to topics that were deleted and re-created are not replicated until the source topic reaches the same offset as the target topic. For example, if at the time of deletion and re-creation there are a 100 messages on the source and target clusters, new messages will only get replicated once the re-created source topic has 100 messages. This leads to messages being lost.

Workaround: N/A.

**SRM may automatically re-create deleted topics**

Problem: If auto.create.topics.enable is enabled, deleted topics are automatically recreated on source clusters.

Workaround: Prior to deletion, remove the topic from the topic allowlist (whitelist) with the srm-control tool. This prevents topics from being re-created.

```
srm-control topics --source [SOURCE_CLUSTER] --target [TARGET_CL
USTER] --remove [TOPIC1][TOPIC2]
```

**Replication failing when SRM driver is present on multiple nodes**

Problem: Kafka replication fails when the SRM driver is installed on more than one node.

Workaround: N/A

**SRM cannot replicate Sentry authorization rules from one Kafka cluster to another**

Problem:When Sentry contains Kafka authorization policies for any ConsumerGroup resource, SRM cannot replicate authorization rules from one Kafka cluster to another in environments where Sentry is enabled. This is due to a Kafka resource conversion error in Sentry. For more information regarding the underlying Sentry issue, see SENTRY-2535 and the Kafka known issues in CDH Known Issues.

Workaround: Disable authorization policy synchronization in SRM. This can be achieved by setting the sync.topic.acls.enabled property to false.

**Deployment of the activation.jar for airgapped SMM environments**

Problem: SMM downloads and installs the activation-1.1.1.jar as part of the startup process. This requires the host to be connected to the internet to be able to download the jar from the central repository. If the host is not connected to the internet, you get an error.

Workaround: In case the host is not connected to the Internet, the activation-1.1.1.jar needs to be downloaded manually by the administrator and copied to the following application lib folder: /opt/cloudera/parcels/STREAMS_MESSAGING_MANAGER-2.1.0.2.0.1.0-29/libs.

**The Condition field in the Alert Policy UI displays incorrect values**

Problem: When you edit or update an alert policy with REST API in SMM, the CONDITION field in the Alert Policy UI does not display correct values.

Workaround: Reset the Attribute/Metric drop-down value before selecting the operator value again.

**Exception in the SMM UI - Not displaying any data**

Problem: If the topic (or) producer name contains keywords such as clientId/topic/partition, then SMM would not display the metrics for those resources. This is due to the bug in regular expression which captures the topic (or) partition information from the metric name. Moreover, SMM throws "For Input String" error in the UI when there exists another topic whose name is a suffix of the first one.

For example,

For a topic named with "hello.topic.world", SMM would not display the metrics for the resource as the topic name contains the keyword "topic". If there exists another topic named as world whose name is a suffix of the first one, then SMM throws "For Input String" error in the UI.

Workaround: There is no workaround for this issue.

**SMM logs are not moving to the custom location**

Problem: SMM logs are not created in the custom location.

Workaround: No workaround.

**SMM throws error if Service Monitor is not on CM host**

Problem: If the Cloudera Manager Service Monitor and Cloudera Manager Server are deployed on different hosts, SMM is unable to fetch metrics correctly. As a result, historic data for consumer offsets and lag are not displayed, only the latest data is available.

You receive the following error message and cause in the streams-messaging-manager.log:

```
ERROR
com.hortonworks.smm.kafka.services.clients.ConsumerGroupManage
mentTask: Error while fetching consumer group information.
Caused by: org.apache.avro.AvroRemoteException: java.net.ConnectE
xception: Connection refused (Connection refused)
```

Workaround: No workaround.

**Cannot read property 'indexOf' thrown when ETELatencyMetrics is disabled**

Problem: If latency metrics is disabled and you click the latency tab on the Topic Profile page in the SMM UI, then the following error appears:

```
Cannot read property 'indexOf' of null.
```

Workaround: Latency metrics should be configured and enabled before you view it on the SMM UI.

# Download locations

The Cloudera Stream Processing (CSP) software artifacts can be downloaded from the Cloudera Archive. To access the CSP artifacts, you must have an active subscription agreement and a license key file along with the required authentication credentials (username and password).

## Download instructions

The license key file and authentication credentials are provided in an email sent to customer accounts from Cloudera as part of the subscription fulfillment process.

⚠️ **Important:** You must have your download credentials to access the CSP files in the https://archive.cloudera.com/p/csp/ repository.

Your authentication credentials are not the same as the credentials you use to access the support portal.

In case you did not receive an email or do not have access to your authentication credentials, you can retrieve them in the following ways:

• Contact your Cloudera sales representative.
• File a non-technical case within the Cloudera support portal for our Support team to assist you.
• Use the CDP Private Cloud Credential Generator (requires a license key):

  1. Log in to the account associated with your license and subscription agreement on cloudera.com.
  2. Go to the CDP Private Cloud Base Downloads page.
  3. Click Download Now.
  4. Enter the text of the "PGP Signed Message" within your license key in the Generate Credentials text box.
  5. Click Generate Credentials.

  The Credential Generator returns your username and password.

After you have obtained your credentials, you can use them to access the software artifacts on the Cloudera Archive.

## Download locations

You can directly click the links provided in the following tables and provide your credentials through a browser prompt.

### Table 1: CSD files

| File | Location |
| --- | --- |
| Schema Registry | https://archive.cloudera.com/p/csp/2.0.1.0/csd/SCHEMAREGISTRY-0.8.0.jar |
| Streams Messaging Manager | https://archive.cloudera.com/p/csp/2.0.1.0/csd/STREAMS_MESSAGING_MANAGER-2.1.0.jar |
| Streams Replication Manager | https://archive.cloudera.com/p/csp/2.0.1.0/csd/STREAMS_REPLICATION_MANAGER-1.0.0.jar |

### Table 2: Manifest file

| File | Location |
| --- | --- |
| CSD Manifest | https://archive.cloudera.com/p/csp/2.0.1.0/parcels/manifest.json |

### Table 3: Centos OS parcel files

| File | Location |
| --- | --- |
| Schema Registry parcel file | https://archive.cloudera.com/p/csp/2.0.1.0/parcels/SCHEMAREGISTRY-0.8.0.2.0.1.0-29-el7.parcel |
| Schema Registry parcel sha file | https://archive.cloudera.com/p/csp/2.0.1.0/parcels/SCHEMAREGISTRY-0.8.0.2.0.1.0-29-el7.parcel.sha |
| Streams Messaging Manager parcel file | https://archive.cloudera.com/p/csp/2.0.1.0/parcels/STREAMS_MESSAGING_MANAGER-2.1.0.2.0.1.0-29-el7.parcel |
| Streams Messaging Manager parcel sha file | https://archive.cloudera.com/p/csp/2.0.1.0/parcels/STREAMS_MESSAGING_MANAGER-2.1.0.2.0.1.0-29-el7.parcel.sha |
| Streams Replication Manager parcel file | https://archive.cloudera.com/p/csp/2.0.1.0/parcels/STREAMS_REPLICATION_MANAGER-1.0.0.2.0.1.0-29-el7.parcel |
| Streams Replication Manager parcel sha file | https://archive.cloudera.com/p/csp/2.0.1.0/parcels/STREAMS_REPLICATION_MANAGER-1.0.0.2.0.1.0-29-el7.parcel.sha |

### Table 4: SLES 12 parcel files

| File | Location |
| --- | --- |
| Schema Registry parcel file | https://archive.cloudera.com/p/csp/2.0.1.0/parcels/SCHEMAREGISTRY-0.8.0.2.0.1.0-29-sles12.parcel |
| Schema Registry parcel sha file | https://archive.cloudera.com/p/csp/2.0.1.0/parcels/SCHEMAREGISTRY-0.8.0.2.0.1.0-29-sles12.parcel.sha |
| Streams Messaging Manager parcel file | https://archive.cloudera.com/p/csp/2.0.1.0/parcels/STREAMS_MESSAGING_MANAGER-2.1.0.2.0.1.0-29-sles12.parcel |
| Streams Messaging Manager parcel sha file | https://archive.cloudera.com/p/csp/2.0.1.0/parcels/STREAMS_MESSAGING_MANAGER-2.1.0.2.0.1.0-29-sles12.parcel.sha |
| Streams Replication Manager parcel file | https://archive.cloudera.com/p/csp/2.0.1.0/parcels/STREAMS_REPLICATION_MANAGER-1.0.0.2.0.1.0-29-sles12.parcel |
| Streams Replication Manager parcel sha file | https://archive.cloudera.com/p/csp/2.0.1.0/parcels/STREAMS_REPLICATION_MANAGER-1.0.0.2.0.1.0-29-sles12.parcel.sha |

### Table 5: Ubuntu 18 parcel files

| File | Location |
| --- | --- |
| Schema Registry parcel file | https://archive.cloudera.com/p/csp/2.0.1.0/parcels/SCHEMAREGISTRY-0.8.0.2.0.1.0-29-bionic.parcel |
| Schema Registry parcel sha file | https://archive.cloudera.com/p/csp/2.0.1.0/parcels/SCHEMAREGISTRY-0.8.0.2.0.1.0-29-bionic.parcel.sha |

| File | Location |
|------|----------|
| Streams Messaging Manager parcel file | https://archive.cloudera.com/p/csp/2.0.1.0/parcels/STREAMS_MESSAGING_MANAGER-2.1.0.2.0.1.0-29-bionic.parcel |
| Streams Messaging Manager parcel sha file | https://archive.cloudera.com/p/csp/2.0.1.0/parcels/STREAMS_MESSAGING_MANAGER-2.1.0.2.0.1.0-29-bionic.parcel.sha |
| Streams Replication Manager parcel file | https://archive.cloudera.com/p/csp/2.0.1.0/parcels/STREAMS_REPLICATION_MANAGER-1.0.0.2.0.1.0-29-bionic.parcel |
| Streams Replication Manager parcel sha file | https://archive.cloudera.com/p/csp/2.0.1.0/parcels/STREAMS_REPLICATION_MANAGER-1.0.0.2.0.1.0-29-bionic.parcel.sha |

## Table 6: Ubuntu 16 parcel files

| File | Location |
|------|----------|
| Schema Registry parcel file | https://archive.cloudera.com/p/csp/2.0.1.0/parcels/SCHEMAREGISTRY-0.8.0.2.0.1.0-29-xenial.parcel |
| Schema Registry parcel sha file | https://archive.cloudera.com/p/csp/2.0.1.0/parcels/SCHEMAREGISTRY-0.8.0.2.0.1.0-29-xenial.parcel.sha |
| Streams Messaging Manager parcel file | https://archive.cloudera.com/p/csp/2.0.1.0/parcels/STREAMS_MESSAGING_MANAGER-2.1.0.2.0.1.0-29-xenial.parcel |
| Streams Messaging Manager parcel sha file | https://archive.cloudera.com/p/csp/2.0.1.0/parcels/STREAMS_MESSAGING_MANAGER-2.1.0.2.0.1.0-29-xenial.parcel.sha |
| Streams Replication Manager parcel file | https://archive.cloudera.com/p/csp/2.0.1.0/parcels/STREAMS_REPLICATION_MANAGER-1.0.0.2.0.1.0-29-xenial.parcel |
| Streams Replication Manager parcel sha file | https://archive.cloudera.com/p/csp/2.0.1.0/parcels/STREAMS_REPLICATION_MANAGER-1.0.0.2.0.1.0-29-xenial.parcel.sha |

## Table 7: Ubuntu 14 parcel files

| File | Location |
|------|----------|
| Schema Registry parcel file | https://archive.cloudera.com/p/csp/2.0.1.0/parcels/SCHEMAREGISTRY-0.8.0.2.0.1.0-29-trusty.parcel |
| Schema Registry parcel sha file | https://archive.cloudera.com/p/csp/2.0.1.0/parcels/SCHEMAREGISTRY-0.8.0.2.0.1.0-29-trusty.parcel.sha |
| Streams Messaging Manager parcel file | https://archive.cloudera.com/p/csp/2.0.1.0/parcels/STREAMS_MESSAGING_MANAGER-2.1.0.2.0.1.0-29-trusty.parcel |
| Streams Messaging Manager parcel sha file | https://archive.cloudera.com/p/csp/2.0.1.0/parcels/STREAMS_MESSAGING_MANAGER-2.1.0.2.0.1.0-29-trusty.parcel.sha |
| Streams Replication Manager parcel file | https://archive.cloudera.com/p/csp/2.0.1.0/parcels/STREAMS_REPLICATION_MANAGER-1.0.0.2.0.1.0-29-trusty.parcel |
| Streams Replication Manager parcel sha file | https://archive.cloudera.com/p/csp/2.0.1.0/parcels/STREAMS_REPLICATION_MANAGER-1.0.0.2.0.1.0-29-trusty.parcel.sha |