

Cloudera DataFlow platform's Cloudera Flow Management 1.0, Cloudera Stream Processing 2.0, and Cloudera Streams Management 2.0 help you ingest, manage, and gain insights from near real-time streaming data

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Overview

Cloudera DataFlow is a scalable, near real-time streaming analytics platform that ingests, curates, and analyzes data for key insights and immediate actionable intelligence. Cloudera Flow Management 1.0, Cloudera Stream Processing 2.0, and Cloudera Streams Management 2.0 are key parts of the Cloudera DataFlow platform.

- Cloudera Flow Management ensures that data of any type can be captured from any source and streamed into the enterprise securely.
- Cloudera Stream Processing provides the messaging backbone for near real-time streaming use cases.
- Cloudera Streams Management is the premium management module for Apache Kafka. It includes Cloudera Streams Messaging Manager and Cloudera Streams Replication Manager.

Cloudera Flow Management is a no-code data ingestion and management solution powered by Apache NiFi. With NiFi's intuitive graphical interface and processors, Cloudera Flow Management delivers highly scalable data movement, transformation, and management capabilities to the enterprise.

Cloudera Flow Management includes two primary components:

- Apache NiFi. The core data ingestion engine has a no-code graphical user interface and supports processors for connectivity, transformation, and content routing.
- Apache NiFi Registry. The companion to NiFi enables DevOps style development and deployment of flow files. It also supports flow versioning, promoting flows from one environment into another, and flow deployment.

Cloudera Stream Processing provides advanced messaging, stream processing, and analytics capabilities powered by Kafka as the core stream processing engine. It also provides stream management capabilities.

Cloudera Stream Processing is fully integrated with the enterprise platform services, including Cloudera Manager for cluster management and monitoring, Apache Sentry for role-based authorization, and a new Schema Registry service that provides governance and schema management capabilities.

Cloudera Streams Management is the premium management module for Kafka and is available as an add-on to Cloudera Stream Processing. Cloudera Streams

Management is a bundle that includes Cloudera Streams Messaging Manager and Cloudera Streams Replication Manager.

- Cloudera Streams Messaging Manager is an operations monitoring and management tool that provides end-to-end visibility in an enterprise Kafka environment. With Cloudera Streams Messaging Manager, you can:
 - Gain clear insights about your Kafka clusters.
 - Understand the end-to-end flow of message streams from producers to topics to consumers.
 - Better troubleshoot your Kafka environment to identify bottlenecks, throughput, consumer patterns, and traffic flow.
 - Analyze the stream dynamics between producers and consumers using various filters.
 - Optimize your Kafka environment based on key performance insights gathered from various brokers and topics.
 - With the tight integration of Apache Atlas, you can gain complete data lineage across multiple Kafka hops, producers, and consumers with powerful data-flow visualization.
- Cloudera Streams Replication Manager consists of two main components:
 - The Stream Replication Engine is a next-generation multicluster and cross-data center replication engine for Kafka clusters.
 - Stream Replication Management Services consists of Cloudera SRM Driver, Cloudera SRM Client, and Cloudera SRM Service (a REST API and Kafka Streams application).

Key requirements

For requirements details, see the [Software requirements](#) section.

Planned availability date

November 12, 2019

Accessibility by people with disabilities

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Program number

Program number	VRM	Program name
5737-L96	1.0.0	Cloudera Flow Management
5737-L97	2.0.0	Cloudera Stream Processing
5737-L98	2.0.0	Cloudera Streams Management

Offering Information

Product information is available on the [IBM Offering Information](#) website.

More information is also available on the [Passport Advantage^{\(R\)}](#) and [Passport Advantage Express^{\(R\)}](#) website.

Publications

None.

Services

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Technical information

Specified operating environment

Software requirements

For Cloudera Flow Management 1.0, see the [System Requirements](#) website.

For Cloudera Stream Processing 2.0, see the [System Requirements](#) website.

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Cloudera Flow Management (5737-L96)

Part number description	Part number
Cloudera Flow Management Virtual Processor Core Committed Term License	D26FNLL

Cloudera Stream Processing (5737-L97)

Part number description	Part number
Cloudera Stream Processing Virtual Server Committed Term License	D26FSLL

Cloudera Streams Management (5737-L98)

Part number description	Part number
Cloudera Streams Messaging Manager Virtual Server Committed Term License	D26GDLL
Cloudera Streams Replication Manager Virtual Server Committed Term License	D26FTLL

Charge metric

The charge metrics for these licensed products can be found in the following License Information documents:

Program identifier	License Information document title	License Information document number
5737-L96	Cloudera Flow Management	L-MBIS-BGXRUJ
5737-L97	Cloudera Stream Processing	L-MBIS-BGXRZC
5737-L98	Cloudera Streams Management	L-MBIS-BGXS3K

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Program identifier	License Information document title	License Information document number
5737-L96	Cloudera Flow Management	L-MBIS-BGXRUJ
5737-L97	Cloudera Stream Processing	L-MBIS-BGXRZC
5737-L98	Cloudera Streams Management	L-MBIS-BGXS3K

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