

# Cloudera Data Platform Data Center with IBM 7.1.1 offers migration paths from earlier versions of Hortonworks Data Platform and Cloudera Enterprise Data Hub platforms, and provides improved stability, security, and performance; Cloudera Workload Experience Manager with IBM is now available on premises

## Table of contents

<a href="#">1 Overview</a>	<a href="#">4 Technical information</a>
<a href="#">3 Key requirements</a>	<a href="#">4 Ordering information</a>
<a href="#">3 Planned availability date</a>	<a href="#">5 Terms and conditions</a>
<a href="#">3 Program number</a>	<a href="#">8 Prices</a>
<a href="#">4 Publications</a>	

## Overview

### Cloudera Data Platform Data Center with IBM<sup>(R)</sup> enhancements

Cloudera Data Platform Data Center with IBM combines many of the capabilities of Cloudera Enterprise Data Hub and Hortonworks Data Platform, providing a robust data management and analytics platform for on-premises environments. In addition to several enhancements to administration, stability, security, and performance, this release offers a migration path from Hortonworks Data Platform 2.6.5 or Cloudera Enterprise Data Hub 5.13, 5.14, 5.15, or 5.16 to Cloudera Data Platform Data Center with IBM 7.1.1.

Version 7.1.1 of Cloudera Data Platform Data Center with IBM brings the following key updates:

- Support for Cloudera Enterprise Data Hub to Cloudera Data Platform Data Center with IBM in-place upgrade from Cloudera Enterprise Data Hub 5.13, 5.14, 5.15, or 5.16 clusters to Cloudera Runtime 7.1 and upgrade from Cloudera Manager 5.13, 5.14, 5.15, or 5.16 to Cloudera Manager 7.1 in Cloudera Data Platform Data Center 7.1.
- Support for Migration from Cloudera Enterprise Data Hub to Cloudera Data Platform Data Center with IBM upgrade is provided by Cloudera Manager Replication Manager which enables data copy from a Cloudera Enterprise Data Hub 5 or Cloudera Enterprise Data Hub 6 cluster to a Cloudera Runtime 7.1 cluster.
- Support for Hortonworks Data Platform to Cloudera Data Platform Data Center with IBM in-place upgrade path consists of upgrading from Hortonworks Data Platform 2.6.5.x to Cloudera Runtime 7.1 by using Ambari and then migrating the management platform from Ambari to Cloudera Manager. AM2CM tool captures Hortonworks Data Platform Cluster's blueprint from Ambari and converts it to a Cloudera Manager deployment template that is deployed to Cloudera Manager 7.1 and activates the Cloudera Runtime 7.1 parcels.
- Support for Sentry to Ranger Migration converts Sentry privileges into their equivalents within Ranger service policies. Tool also supports migration of Kafka policies from Sentry to Ranger.

- Support for Navigator to Atlas Migration converts Navigator content from business metadata such as Tags, Custom properties (definitions and entity assignments), Managed metadata properties (definitions and entity assignments), Original and updated entity names and descriptions and technical metadata from Hive, Impala, Spark, Referenced HDFS/S3 to Atlas content.
- Streams messaging. This capability is designed to help organizations to achieve a robust Kafka streaming experience, boost Kafka connectivity, and improve operational efficiency. It enables organizations to monitor and manage Kafka clusters. The Streams messaging function also provides business continuity with Streams Replication Manager and the capability to scale up messaging through the use of Schema Registry.

For a list of official Apache versions for Cloudera Data Platform Data Center with IBM 7.1.1, see the [Cloudera Data Platform - Data Center 7.1.1 Release Guide](#).

### **Hortonworks DataFlow enhancements**

Hortonworks DataFlow is an enterprise-ready open source streaming data platform that collects, curates, analyzes, and acts on data in the data center and cloud. Hortonworks DataFlow is powered by key open sourced projects, which include Apache NiFi, Apache Kafka, and Apache Storm. IBM has three offerings that are based on HDF: Cloudera Flow Management with IBM for Ambari, Cloudera Enterprise Stream Processing with IBM for Ambari, and Hortonworks DataFlow Enterprise Management Services.

Version 3.5.1 of Hortonworks DataFlow brings the following key updates:

- Apache NiFi is upgraded from 1.9.0 to 1.11.4. New features and improvements in Apache NiFi include:
  - Parameters. The parameters are a new concept in NiFi that enables users to define parameter contexts that are attached to process groups so that any property (including sensitive properties and properties that do not support expression language) can be parameterized. This is particularly useful in continuous integration and continuous delivery (CI/CD) pipelines when deploying workflows across multiple environments. Parameters are designed to be used as replacements of the variables.
  - Predictive monitoring. NiFi has an internal analytics framework that can be enabled to predict back pressure occurrence when provided with the configured settings for threshold on a queue. It uses recent observations from a queue (either number of objects or content size over time) and calculates predictions based on a model to anticipate back pressure.
  - SQL reporting task. The QueryNiFiReportingTask enables users to run SQL queries against tables that contain information about Connection Status, Processor Status, Bulletins, Process Group Status, JVM Metrics, Provenance, and Connection Status Predictions. In combination with Site to Site, it can be particularly useful to define fine-grained monitoring capabilities simultaneously with running workflows.
- Kafka is upgraded from 2.1.0 to 2.3.1.
- Schema Registry is upgraded from 0.7.0 to 0.8.1.

For a list of official Apache versions for Hortonworks DataFlow V3.5.1, see the [Hortonworks Docs DataFlow 3.5.1.1 Release Notes](#).

### **Workload Experience Manager**

Cloudera Workload Experience Manager for IBM is a tool that provides insights to help you gain in-depth understanding of the workloads you send to clusters managed by Cloudera Manager. In addition, it provides information that can be used for troubleshooting failed jobs and optimizing slow jobs that run on those clusters. After a job ends, information about job execution is sent to Cloudera Workload Experience Manager with IBM with the Telemetry Publisher, a role in the Cloudera Manager Management Service.

Cloudera Workload Experience Manager with IBM uses the information to display metrics about the performance of a job. Additionally, Cloudera Workload Experience Manager with IBM compares the current run of a job to previous runs of the same job by creating baselines. You can use the knowledge gained from this information to identify and address abnormal or degraded performance or potential performance improvements.

Previously available as a cloud service, Workload XM is now available on-premises. For more information, see the [Cloudera Workload Experience Manager](#) documentation.

IBM clients can download these releases from Passport Advantage<sup>(R)</sup>.

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## Key requirements

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

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## Planned availability date

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July 14, 2020

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## Accessibility by people with disabilities

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Accessibility Compliance Reports (previously known as a VPAT) containing details on accessibility compliance to standards, including the Worldwide Consortium Web Content Accessibility Guidelines, European Standard EN 301 349, and US Section 508, can be found on the [IBM Accessibility Conformance Report Request](#) website.

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## Reference information

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For more information about Cloudera Data Platform Data Center with IBM, see Software Announcement [JP20-0108](#), dated May 5, 2020.

For more information about Hortonworks DataFlow, see Software Announcement [JP19-0114](#), dated October 22, 2019.

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## Program number

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Program number	VRM	Program name
5737-M27	7.1.1	Cloudera Data Platform Data Center with IBM
5737-N18	7.1.1	Cloudera Data Platform Data Center with IBM E Flex
5737-I18	3.5.1	Hortonworks DataFlow
5737-N49	2.1.0	Cloudera Workload Experience Manager with IBM

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## Offering Information

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

More information is also available on the [Passport Advantage and Passport Advantage Express<sup>\(R\)</sup>](#) website.

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## Publications

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None

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## Technical information

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### **Specified operating environment**

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#### **Software requirements**

##### **Cloudera Data Platform Data Center with IBM**

For details, see the [Cloudera Manager](#) documentation.

##### **Hortonworks DataFlow**

For details, see Cloudera software [requirements](#).

##### **Cloudera Workload Experience Manager for IBM**

For details, see the Cloudera [documentation](#).

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### **Planning information**

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#### **Packaging**

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#### **Passport Advantage**

Cloudera Workload Experience Manager with IBM (5737-N49)

<b>Part number description</b>	<b>Part number</b>
Cloudera Workload Experience Manager with IBM Virtual Server Committed Term License	D28NTLL

#### **Charge metric**

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

<b>Program identifier</b>	<b>License Information document title</b>	<b>License Information document number</b>
5737-M27	Cloudera Data Platform Data Center with IBM	<a href="#">L-MBIS-BQ2U4F</a>
5737-N18	Cloudera Data Platform Data Center with IBM E Flex	<a href="#">L-MBIS-BQ2UAL</a>
5737-I18	Hortonworks DataFlow	<a href="#">L-MBIS-BQ2V7N</a>
5737-N49	Cloudera Workload Experience Manager with IBM	<a href="#">L-MBIS-BQ2VBG</a>

Select your language of choice and scroll down to the Charge Metrics section. Follow-on releases, if any, may have updated terms. See the [License Information documents](#) website for more information.

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### License Information number

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The following License Information documents apply to the offerings in this announcement:

<b>Program identifier</b>	<b>License Information document title</b>	<b>License Information document number</b>
5737-M27	Cloudera Data Platform Data Center with IBM	<a href="#">L-MBIS-BQ2U4F</a>

<b>Program identifier</b>	<b>License Information document title</b>	<b>License Information document number</b>
5737-N18	Cloudera Data Platform Data Center with IBM E Flex	<a href="#">L-MBIS-BQ2UAL</a>
5737-I18	Hortonworks DataFlow	<a href="#">L-MBIS-BQ2V7N</a>
5737-N49	Cloudera Workload Experience Manager with IBM	<a href="#">L-MBIS-BQ2VBG</a>

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Yes

### **Limited warranty**

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### **Volume orders (IVO)**

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No

### **Passport Advantage applies**

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Cloudera products adhere to the Cloudera software lifecycle policy. For software support lifecycle details, see the [Software Support Lifecycle Policy](#) website.

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#### **Variable charges apply**

No

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#### **Educational allowance available**

Not applicable.

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