



Compatibility Matrix for Cisco UCS Director Express for Big Data, Release 3.5

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Compatibility Matrix

Cisco UCS Director Express for Big Data

Cisco UCS Director Express for Big Data is a single-touch solution within Cisco UCS Director that automates deployment of Big Data infrastructure. Cisco UCS Director Express for Big Data provides a single management pane across physical infrastructure and across Hadoop and Splunk Enterprise software. It supports key Hadoop distributions, including Cloudera, MapR, and Hortonworks.

Cisco UCS Director Express for Big Data delivers end-to-end automation of Hadoop cluster deployment, allowing you to spin up and expand clusters on-demand. The physical infrastructure configuration is handled automatically, with minimal user input. The configuration includes compute, internal storage, network, and installation of operating system, Java packages, and Hadoop, along with the provisioning of Hadoop services. This is achieved through Cisco UCS service profiles wherein both the physical infrastructure and Hadoop configuration are incorporated into a Hadoop cluster deployment profile.

Cisco UCS Director Express for Big Data also delivers end-to-end automation of Splunk cluster deployment, with minimal user input. This is achieved through Cisco UCS service profiles wherein both the physical infrastructure and Splunk configuration are incorporated into a Splunk cluster deployment profile.

Requirements

This section contains the following:

- [Cisco UCS Director Express for Big Data](#)
- [Cisco UCS Director Express for Big Data Bare Metal Agent](#)

Cisco UCS Director Express for Big Data

Cisco UCS Director Express for Big Data is a self-contained virtual machine that can be imported into, and run within a VMware vSphere environment. Cisco UCS Director Express for Big Data is packaged and delivered to the end-user in the Open Virtualization Format (OVF) for deployment on VMware vSphere. Depending on the hosting virtualization platform (For example, VMware vSphere), download and import the appropriate Cisco UCS Director Express for Big Data format.

The following table outlines the minimum system requirements for Cisco UCS Director Express for Big Data:

Resources	Minimum Requirements
vCPU	3000 MHz
Memory	12 GB
Primary Disk (Hard Disk 1)	100 GB
Secondary Disk (Hard Disk 2)	100 GB

Cisco UCS Director Express for Big Data Bare Metal Agent

The Cisco UCS Director Express for Big Data Bare Metal Agent (BMA) is a separate virtual machine appliance that works with the Cisco UCS Director Express for Big Data appliance to provide more supporting services necessary in a PXE boot environment. These functions include services such as Dynamic Host Control Protocol (DHCP), Hypertext Transfer Protocol (HTTP), and Trivial File Transfer Protocol (TFTP).

The following table outlines the minimum system requirements for Cisco UCS Director Express for Big Data Bare Metal Agent:

Resources	Minimum Requirements
vCPUs	2
Memory	3 GB
Primary Disk (Hard Disk 1)	100 GB
Secondary Disk (Hard Disk 2)	100 GB

Cisco Server Support for Hadoop Distribution Deployments

The table shows Cisco UCS Director Express for Big Data compatibility with Cisco UCS hardware and software. This table does not reflect the compatibility between Cisco UCS hardware and software.

For information regarding Cisco UCS compatibility, see the [Cisco UCS Hardware and Software interoperability Matrices](#) for the appropriate releases.



Note All Cisco UCS Director Express for Big Data functionality may not be available across all supported Cisco UCS software versions. Certain features may not be available in older versions of Cisco UCS software.

Components	Supported Models	Supported Software	
		From Version	To Version
Cisco UCS Manager	Software	Cisco UCS Infrastructure Bundle and Cisco UCS Manager Software Bundle, Release 2.2	<p>Cisco UCS Infrastructure Bundle and Cisco UCS Manager Software Bundle, Release 3.1(2b), Release 3.1(2f), and Release 3.2(0.204a) for M3 Rack servers</p> <p>Cisco UCS Infrastructure Bundle and Cisco UCS Manager Software Bundle, Release 3.1(2b), Release 3.1(2f), and Release 3.2(0.204a) for M4 Rack servers and Storage servers</p> <p>Cisco UCS Infrastructure Bundle and Cisco UCS Manager Software Bundle, Release 3.2(1) for M5 Rack servers</p>
Cisco UCS 6200 Series Fabric Interconnects	<ul style="list-style-type: none"> • 6248UP • 6296UP 	Cisco UCS Infrastructure Bundle and Cisco UCS Manager Software Bundle, Release 2.2	Cisco UCS Infrastructure Bundle and Cisco UCS Manager Software Bundle, Release 3.1(2b)
Cisco UCS 2000 Series FEX Modules	2232PP 10GigE	Cisco UCS Infrastructure Bundle and Cisco UCS Manager Software Bundle, Release 2.2	Cisco UCS Infrastructure Bundle and Cisco UCS Manager Software Bundle, Release 3.1(2b)
Cisco UCS C-Series Rack-Mount Servers (Managed by Cisco UCS Manager)	<ul style="list-style-type: none"> • C240 M3 Rack Server • C240 M4 Rack Server • C240 M5 Rack Server • C220 M3 Rack Server • C220 M4 Rack Server • C220 M5 Rack Server • S3260 Storage Server 	Cisco UCS C-Series Rack-Mount Server Software Bundle, Release 2.2	<p>Cisco UCS C-Series Rack-Mount Server Software Bundle, Release 3.1(2b)</p> <p>Cisco UCS Infrastructure Bundle and Cisco UCS Manager Software Bundle, Release 3.1(2b) for M4 Rack servers and Storage servers</p> <p>Cisco UCS Infrastructure Bundle and Cisco UCS Manager Software Bundle, Release 3.2(1) for M5 Rack servers</p>

Components	Supported Models	Supported Software	
		From Version	To Version
Cisco UCS 6300 series Fabric interconnects	<ul style="list-style-type: none"> • 6324 • 6332 • 6332-16UP 	Cisco UCS Infrastructure Bundle and Cisco UCS Manager Software Bundle, Release 3.1	Cisco UCS Infrastructure Bundle and Cisco UCS Manager Software Bundle, Release 3.1(3b)

Cisco Server Support for Splunk Enterprise Deployments

The table shows Cisco UCS Director Express for Big Data compatibility with Cisco UCS hardware and software. This table does not reflect the compatibility between Cisco UCS hardware and software.

For information regarding Cisco UCS compatibility, see the [Cisco UCS Hardware and Software interoperability Matrices](#) for the appropriate releases.



Note All Cisco UCS Director Express for Big Data functionality may not be available across all supported Cisco UCS software versions. Certain features may not be available in older versions of Cisco UCS software.

Components	Supported Models	Supported Software	
		From Version	To Version
Cisco UCS Manager	Software	Cisco UCS Infrastructure Bundle and Cisco UCS Manager Software Bundle, Release 2.2	Cisco UCS Infrastructure Bundle and Cisco UCS Manager Software Bundle, Release 3.1(2b), Release 3.1(2f), and Release 3.2(0.204a) for M3 Rack servers Cisco UCS Infrastructure Bundle and Cisco UCS Manager Software Bundle, Release 3.1(2b), Release 3.1(2f), and Release 3.2(0.204a) for M4 Rack servers
Cisco UCS 6200 Series Fabric Interconnects	6296UP	Cisco UCS Infrastructure Bundle and Cisco UCS Manager Software Bundle, Release 2.2	Cisco UCS Infrastructure Bundle and Cisco UCS Manager Software Bundle, Release 3.1(2b)

Components	Supported Models	Supported Software	
		From Version	To Version
Cisco UCS C-Series Rack-Mount Servers (Managed by Cisco UCS Manager)	<ul style="list-style-type: none"> • C220 M4 Rack Server for the Master Node, Deployment Node, and the Search Heads. • C240 M4 Rack Server and S3260 Storage Server for the Indexers. • C240 M5 Rack Server • C220 M5 Rack Server 	Cisco UCS C-Series Rack-Mount Server Software Bundle, Release 2.2	Cisco UCS C-Series Rack-Mount Server Software Bundle, Release 3.1(2b) Cisco UCS Infrastructure Bundle and Cisco UCS Manager Software Bundle, Release 3.1(2b) for M4 Rack servers and Storage servers
Cisco UCS 6300 series Fabric interconnects	<ul style="list-style-type: none"> • 6324 • 6332 • 6332-16UP 	Cisco UCS Infrastructure Bundle and Cisco UCS Manager Software Bundle, Release 3.1	Cisco UCS Infrastructure Bundle and Cisco UCS Manager Software Bundle, Release 3.1(3b)

Cisco UCS C220 M3 Supported RAID Controllers

Cisco UCS C220 M3 supported RAID controller options and cable requirements are listed in the table:



Caution

Do not mix controller types in the server. Do not use the embedded MegaRAID controller and a hardware RAID controller card at the same time. This combination is not supported and could result in data loss.



Note

This server supports up to two PCIe-style RAID controllers. Do not mix controller types in the server. The RAID controllers support RAID levels 0, 1, 10, 5, 6, 50, 60 and it does not support Just a Bunch of Disks (JBOD). For more information, See [Cisco UCS C220 M3 Server Installation and Service Guide](#).

Controller	Style	Maximum Drives	SCPM	Required Cables
Cisco LSI MegaRAID SAS 9266CV-8i	PCIe	<ul style="list-style-type: none"> • SFF: 24 • LFF: 12 	SCPM (SuperCap power module)	<ul style="list-style-type: none"> • 8 drives: 2 mini-SAS (UCSC-CABLE1) • 4 drives: 1 mini-SAS (UCSC-CABLE1)
Cisco LSI MegaRAID SAS 9271CV 8i	PCIe	<ul style="list-style-type: none"> • SFF: 24 • LFF: 12 	SCPM (SuperCap power module)	<ul style="list-style-type: none"> • 8 drives: 2 mini-SAS (UCSC-CABLE1) • 4 drives: 1 mini-SAS (UCSC-CABLE1)

Cisco UCS C240 M3 Supported RAID Controllers

Cisco UCS C240 M3 supported RAID controller options and cable requirements are listed in the table:



Caution Do not mix controller types in the server. Do not use the embedded MegaRAID controller and a hardware RAID controller card at the same time. This combination is not supported and could result in data loss.



Note This server supports up to two PCIe-style RAID controllers. Do not mix controller types in the server. The RAID controllers support RAID levels 0, 1, 10, 5, 6, 50, 60 and it does not support JBOD. For more information, See [Cisco UCS C240 M3 Server Installation and Service Guide](#).



Note The SAS expander is required for the SFF 24-drive option and the LFF 12-drive option.

Controller	Style	Maximum Drives	SCPM	Required Cables
Cisco LSI MegaRAID SAS 9266CV-8i	PCIe	<ul style="list-style-type: none"> • SFF/Expander: 24 Internal • LFF/Expander: 12 Internal 	SCPM (SuperCap power module)	<ul style="list-style-type: none"> • 24 drives, SFF/expander: (kit pair CSC-CABLE6) • 12 drives, LFF/expander: (kit pair UCSC-CABLE4)

Controller	Style	Maximum Drives	SCPM	Required Cables
Cisco LSI MegaRAID SAS 9271CV 8i	PCIe	<ul style="list-style-type: none"> • SFF/Expander: 24 Internal • LFF/Expander: 12 Internal 	SCPM (SuperCap power module)	<ul style="list-style-type: none"> • 24 drives, SFF/expander: (kit pair CSC-CABLE6) • 12 drives, LFF/expander: (kit pair UCSC-CABLE4)
Cisco UCS Nytro MegaRAID 8110-4i 200GB	PCIe	<ul style="list-style-type: none"> • SFF/Expander: 24 Internal • LFF/Expander: 12 Internal 	SCPM (SuperCap power module)	<ul style="list-style-type: none"> • 24 drives, SFF/expander: (kit pair CSC-CABLE6) • 12 drives, LFF/expander: (kit pair UCSC-CABLE4)

Cisco UCS S3260 M3 Supported RAID Controllers

Cisco UCS S3260 M3 supported RAID controller options and cable requirements are listed in the table:



Note The RAID controllers support JBOD and RAID levels 0, 1, 5, 6, 10, 50, and 60. For more information, See [Cisco UCS S3260 Storage Server Installation and Service Guide](#).

Controller	Style	Maximum Drives	SCPM	Required Cables
Embedded RAID (PCH SATA)	Chip on-board in each server node	2 rear-panel SSDs (each server node)	N/A	None. Chip on-board in each server node.
Cisco UCS C3X60 12G SAS RAID UCSC-C3X60-R1GB UCSC-C3X60-R4GB (with 1-GB or 4-GB write cache)	Mezzanine	60 internal	SCPM (SuperCap power module)	None. Card installs to mezzanine socket inside the server node.
Cisco UCS 12G SAS HBA pass-through controller UCSC-C3X60-HBA	Mezzanine	60 internal	No	None. Card installs to mezzanine socket inside the server node.

Cisco UCS C220 M4 Supported RAID Controllers

Cisco UCS C220 M4 supported RAID controller options and cable requirements are listed in the table:



Caution Do not mix controller types in the server. Do not use the embedded MegaRAID controller and a hardware RAID controller card at the same time. This combination is not supported and could result in data loss. For more information, See [Cisco UCS C220 M4 Server Installation and Service Guide](#).



Note This RAID controller is available with the onboard modular flash-based write cache (FBWC) in 1 GB, 2 GB, or 4 GB. This controller supports JBOD and RAID levels 0, 1, 5, 6, 10, 50, and 60 with the onboard modular flash-based write cache (FBWC). The Raid Levels 5, 6, 50, and 60 are supported with 1 GB, 2GB, and 4GB FBWC.

Controller	Style	Maximum Drives	SCPM	Required Cables
Cisco UCS 12G SAS Modular RAID Controller.	PCIe	<ul style="list-style-type: none"> • SFF/No Expander: 8 Internal • LFF/No Expander: 4 Internal 	SCPM (SuperCap power module)	<ul style="list-style-type: none"> • 8 drives, SFF/no expander: (UCS-220CBLMR24=) • 4 drives, LFF/no expander: (UCS-220CBLMR12=)

Cisco UCS C240 M4 Supported RAID Controllers

Cisco UCS C240 M4 supported RAID controller options and cable requirements are listed in the table:



Caution Do not mix controller types in the server. Do not use the embedded MegaRAID controller and a hardware RAID controller card at the same time. This combination is not supported and could result in data loss. For more information, See [Cisco UCS C240 M4 Server Installation and Service Guide](#).



Note This RAID controller is available with the onboard modular flash-based write cache (FBWC) in 1 GB, 2 GB, or 4 GB. This controller supports JBOD and RAID levels 0, 1, 5, 6, 10, 50, and 60 with the onboard modular flash-based write cache (FBWC). The Raid Levels 5, 6, 50, and 60 are supported with 1 GB, 2GB and 4GB FBWC. Without the FBWC, the RAID controller supports JBOD and RAID levels 0, 1, and 10.



Note The SAS expander is required for the SFF 24-drive option and the LFF 12-drive option.

Controller	Style	Maximum Drives	SCPM	Required Cables
Cisco UCS 12G SAS Modular RAID Controller.	PCIe	<ul style="list-style-type: none"> • SFF/Expander: 24 Internal • LFF/Expander: 12 Internal 	SCPM (SuperCap power module)	<ul style="list-style-type: none"> • 24 drives, SFF/expander: (UCS-240CBLMR24=) • 12 drives, LFF/expander: (UCS-240CBLMR12=)

Cisco UCS S3260 M4 Supported RAID Controllers

Cisco UCS S3260 M4 supported RAID controller options and cable requirements are listed in the table:



Note This RAID controller supports RAID levels 0, 1, 5, 6, 10, 50, and 60 and it does not support JBOD. For more information, See [Cisco UCS S3260 Storage Server Installation and Service Guide](#).



Note Up to two M4 server nodes are supported per S3260 chassis.

Controller	Style	Maximum Drives	Required Cables
Cisco UCS C3X60 12G SAS RAID Controller for M4 Server Nodes (with 4 GB cache) UCS-C3K-M4RAID	Mezzanine connector	60	None. Card installs to mezzanine socket inside the server node.

Cisco UCS C220 M5 Supported RAID Controllers

Cisco UCS C220 M5 supported RAID controller options and cable requirements are listed in the table:



Caution Do not mix controller types in the server. Do not use the embedded SATA controller and a hardware RAID controller card at the same time. This combination is not supported and could result in data loss. For more information, See [Cisco UCS C220 M5 Server Installation and Service Guide](#).

Controller	Server Version/Maximum Drives Controlled	RAID Levels	Optional Supercap Backup?	Required Cables
Embedded RAID (PCH SATA)	<ul style="list-style-type: none"> • SFF 10-drives: 8 internal SATA drives (drive bays 1 - 8) • LFF 4-drives: 4 internal SATA drives 	0, 1, 10	No	Use SAS/SATA cable included with chassis to connect interposer to drive backplane.
Cisco 12G Modular RAID Controller UCSC-RAID-M5 Includes 2-GB cache	<ul style="list-style-type: none"> • SFF 10-drives: 10 internal SAS/SATA drives • LFF 4-drives: 4 internal SAS/SATA drives 	0, 1, 5, 6, 10, 50, 60	Yes	Use SAS/SATA cable included with chassis to connect controller to drive backplane.
Cisco 12G Modular SAS HBA UCSC-SAS-M5	<ul style="list-style-type: none"> • SFF 10-drives: 10 internal SAS/SATA drives • LFF 4-drives: 4 internal SAS/SATA drives 	Non-RAID	No	Use SAS/SATA cable included with chassis to connect controller to drive backplane.

Controller	Server Version/Maximum Drives Controlled	RAID Levels	Optional Supercap Backup?	Required Cables
Cisco 12G 9400-8e 12G SAS HBA For External JBOD	All server versions: 8 external SAS/SATA ports, controlling up to 1024 external drives	Non-RAID	No	<p>Cisco does not sell cables for external drive attachment.</p> <p>Use cables with Mini-SAS HD connectors to connect to the HBA and the appropriate connector on the other end to attach to your storage device.</p> <p>Note This HBA does not support optical cables for connection to external storage (copper only).</p>

Cisco UCS C240 M5 Supported RAID Controllers

Cisco UCS C240 M5 supports a single, PCIe-style, SAS RAID or HBA controller that plugs into a dedicated internal socket. The supported RAID controller options and cable requirements are listed in the table:



Caution

For SFF, 8-drives version only (UCSC-C240-M5S): Do not mix controller types in the server. Do not use the embedded SATA controller and a hardware RAID controller card at the same time. This combination is not supported and could result in data loss. For more information, See [Cisco UCS C240 M5 Server Installation and Service Guide](#).



Note

NVMe PCIe SSDs cannot be controlled by a SAS/SATA RAID controller.

Controller	Server Version/Maximum Drives Controlled	RAID Levels	Optional Supercap Backup?	Required Cables
Embedded RAID (PCH SATA)	<ul style="list-style-type: none"> • All server versions can use the embedded SATA controller to control two internal SATA M.2 drives. • SFF 8-drives only (UCSC24M5) 8 front-loading, SATA-only drives. 	0, 1, 10	No	UCSC-C240-M5S only: Use the SAS/SATA cable included with the chassis to connect the interposer to the front drive backplane. No cables are required for control of internal SATA M.2 drives.
Cisco 12G Modular RAID Controller UCSC-RAID-M5 Includes 2-GB cache; controls up to 16 drives.	This controller is supported only in the following server versions: <ul style="list-style-type: none"> • SFF 8-drives (UCSC24M5) 8 front-loading, plus 2 rear-loading SAS/SATA drives • LFF 12-drives (UCSC24M1) 12 front-loading, plus 2 rear-loading SAS/SATA drives 	0, 1, 5, 6, 10, 50, 60	Yes	Use SAS/SATA cable included with chassis to connect controller to drive backplanes.

Controller	Server Version/Maximum Drives Controlled	RAID Levels	Optional Supercap Backup?	Required Cables
<p>Cisco 12G Modular RAID Controller UCSC-RAID-M5HD</p> <p>Includes 4-GB cache; controls up to 26 drives</p>	<p>This controller is supported only in the following server version:</p> <ul style="list-style-type: none"> • SFF 24-drives (UCSC24M5) 24 front-loading, plus 2 rear-loading SAS/SATA drives 	<p>0, 1, 5, 6, 10, 50, 60</p>	<p>Yes</p>	<p>Use SAS/SATA cable included with chassis to connect controller to drive backplanes.</p>
<p>Cisco 12G Modular SAS HBA UCSC-SAS-M5</p> <p>Controls up to 16 drives.</p>	<p>This controller is supported only in the following server versions:</p> <ul style="list-style-type: none"> • SFF 8-drives (UCSC8M5) 8 front-loading, plus 2 rear-loading SAS/SATA drives • LFF 12-drives (UCSC12M5) 12 front-loading, plus 2 rear-loading SAS/SATA drives 	<p>Non-RAID</p>	<p>No</p>	<p>Use SAS/SATA cable included with chassis to connect controller to drive backplanes.</p>

Controller	Server Version/Maximum Drives Controlled	RAID Levels	Optional Supercap Backup?	Required Cables
Cisco 12G Modular SAS HBA (For Up To 24 Drives) UCSC-SAS-M5HD Controls up to 24 drives.	This controller is supported only in the following server version: <ul style="list-style-type: none"> SFF 24-drives (UCSC24M5X) 24 front-loading, plus 2 rear-loading SAS/SATA drives 	Non-RAID	No	Use SAS/SATA cable included with chassis to connect controller to drive backplanes.

Bare Metal Operating System Support

Cisco UCS Director Express for Big Data with the Cisco UCS Director Express for Big Data Bare Metal Agent supports the following operating systems in bare metal provisioning workflows:

- RHEL 6.5/6.6 variants for Cisco UCS C220 M3 and C240 M3 rack servers.
- RHEL 6.5 for Cisco UCS C220 M4 and C240 M4 rack servers.
- RHEL 6.6 for Cisco UCS C220 M4 and C240 M4 rack servers.
- RHEL 6.8 for Cisco UCS C220 M4 and C240 M4 rack servers.
- RHEL 7.2 for Cisco UCS C220 M5 and C240 M5 rack servers, Cisco UCS C220 M4 and C240 M4 rack servers, Cisco UCS C220 M3 and C240 M3 rack servers, and Cisco UCS S3260 storage server.
- RHEL 7.3 for Cisco UCS C220 M5 and C240 M5 rack servers, Cisco UCS C220 M4 and C240 M4 rack servers, Cisco UCS C220 M3 and C240 M3 rack servers, and Cisco UCS S3260 storage server.
- CentOS 7.3 for Cisco UCS C220 M5 and C240 M5 rack servers, Cisco UCS C220 M4 and C240 M4 rack servers, Cisco UCS C220 M3 and C240 M3 rack servers, and Cisco UCS S3260 storage server.

Supported Hadoop Distributions

Cisco UCS Director Express for Big Data supports the following Hadoop distributions:

- Cloudera 5.4, 5.5, 5.6, 5.8, 5.10, and 5.11
- MapR 3.1, 4.0, 4.1, 5.0, 5.1, and 5.2
- Hortonworks 2.1, 2.2, 2.3, 2.4, and 2.5.3
- BigInsights 4.2

Table 1: Java and JDK Software for Hadoop Distributions

Hadoop Distribution	Supported Hadoop Distribution Versions	Installed Java and JDK
Cloudera	5.0.1, 5.0.6, 5.2.0, 5.2.1, 5.3.0, 5.4.1, 5.5.0, 5.6.0, 5.8.0, 5.10, and 5.11	oracle-j2sdk1.7
MapR	3.1.1, 4.0.1, 4.0.2, 4.1.0, 5.0.0, 5.1.0, and 5.2.1	java-1.7.0-openjdk
Hortonworks	2.1, 2.2, 2.3, 2.4, and 2.5.3	java-1.7.0-openjdk
BigInsights	4.2	java-1.8.0-openjdk



Note You can choose and install the required Oracle JDK version.

Supported Splunk Distribution

Cisco UCS Director Express for Big Data supports the following Splunk distribution:

Splunk Distribution	Supported Splunk Distribution Version
Splunk	6.3.2, 6.4.0, 6.5.2, and 6.6.1

Splunk Distribution Version to Upgrade	Supported Upgrade Version
Splunk 6.4	Splunk 6.5
Splunk 6.4	Splunk 6.6.1

Supported Oracle JDK Software Versions

This section lists the supported Oracle JDK software versions:

Supported Oracle JDK Versions for Cloudera and Upgrade Scenarios

Hadoop Distribution	Oracle JDK 1.6	Oracle JDK 1.7	Oracle JDK 1.8
Cloudera Enterprise 5.11.1	—	JDK 1.7.0_25	JDK 1.8.0_121
Cloudera Enterprise 5.10.0	—	JDK 1.7.0_25	JDK 1.8.0_121

Hadoop Distribution	Oracle JDK 1.6	Oracle JDK 1.7	Oracle JDK 1.8
Cloudera Enterprise 5.8.0	—	JDK 1.7.0_25	JDK 1.8.0_60
Cloudera Enterprise 5.6.x	—	JDK 1.7.0_25	JDK 1.8.0_60
Cloudera Enterprise 5.5.0	—	JDK 1.7.0_25	JDK 1.8.0_60
Cloudera Enterprise 5.4.x	—	JDK 1.7.0_25	JDK 1.8.0_60
Cloudera Enterprise 5.3.x	—	—	JDK 1.8.0_11

Hadoop Distribution Version to Upgrade	Supported Upgrade Version
Cloudera Enterprise 5.4.x, JDK 1.8	Cloudera Enterprise 5.5.0, JDK 1.8
Cloudera Enterprise 5.4.x, JDK 1.8	Cloudera Enterprise 5.6.x, JDK 1.8
Cloudera Enterprise 5.4.x, JDK 1.8	Cloudera Enterprise 5.8.x, JDK 1.8
Cloudera Enterprise 5.6.x, JDK 1.8	Cloudera Enterprise 5.8.x, JDK 1.8
Cloudera Enterprise 5.8.0, JDK 1.8	Cloudera Enterprise 5.10.0, JDK 1.8
Cloudera Enterprise 5.8.0, JDK 1.8	Cloudera Enterprise 5.11.1, JDK 1.8

Supported Oracle JDK Versions for MapR and Upgrade Scenarios

Hadoop Distribution	JDK 1.7	JDK 1.8
MapR 5.2.1	Yes	Yes
MapR 5.2.0	Yes	Yes
MapR 5.1.0	Yes	Yes
MapR 5.0.0	Yes	Yes
MapR 4.1.0	No	Yes

Hadoop Distribution Version to Upgrade	Supported Upgrade Version
MapR 5.0.0, JDK 1.8	MapR 5.1.0, JDK 1.8
MapR 4.0.2, JDK 1.8	MapR 5.2.0, JDK 1.8

Supported Oracle JDK Software Versions for Hortonworks and Upgrade Scenarios

Hadoop Distribution	JDK 1.7	JDK 1.8
Hortonworks 2.5.3	—	Yes
Hortonworks 2.4	—	Yes
Hortonworks 2.3	—	Yes
Hortonworks 2.2	Yes	Yes

Hadoop Distribution Version to Upgrade	Supported Upgrade Version
Hortonworks 2.2, JDK 1.7	Hortonworks 2.3, JDK 1.8
Hortonworks 2.2, JDK 1.7	Hortonworks 2.4, JDK 1.8

Supported External Database

MySQL and Oracle 11g are the external databases supported in Cisco UCS Director Express for Big Data.



Note Oracle 11g is supported in Cloudera and Hortonworks.

Upgrade Hadoop Distribution Software

You can upgrade to the latest Hadoop distributions from the following Hadoop distributions:

Table 2: Cloudera

Hadoop Distribution Version to Upgrade	Supported Upgrade Version
Cloudera-5.0.1	Cloudera-5.4.1
Cloudera-5.0.6	Cloudera-5.4.1
Cloudera-5.2.0	Cloudera-5.4.1
Cloudera-5.2.1	Cloudera-5.4.1

Hadoop Distribution Version to Upgrade	Supported Upgrade Version
Cloudera-5.3.0	Cloudera-5.4.1
Cloudera-5.4.x	Cloudera-5.6.x
Cloudera-5.8.0	Cloudera-5.10.0
Cloudera-5.8.0	Cloudera-5.11.1

Table 3: MapR

Hadoop Distribution Version to Upgrade	Supported Upgrade Version
MapR-4.0.2	MapR-4.1.0
MapR-4.0.2	MapR-5.0.0
MapR-4.1.0	MapR-5.0.0

Table 4: Hortonworks

Hadoop Distribution Version to Upgrade	Supported Upgrade Version
Hortonworks-2.2 (ambari-1.7.0-centos6.tar.gz)	Hortonworks-2.3 Note Download ambari-2.1.1-centos6.tar.gz from http://public-repo-1.hortonworks.com/ambari/centos6/2.x/updates/2.1.1 .

Obtaining Documentation and Submitting a Service Request

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