Cisco Media Delivery Engine 3100

Product Overview

The Cisco® Media Delivery Engine 3100 (MDE 3100) is part of the Cisco Enterprise Content Delivery System (ECDS), an overall media-delivery system that helps organizations easily scale video and media delivery over their WAN infrastructure. The Cisco MDE 3100 is a dedicated appliance that can run all the ECDS applications, including the Service Engine, Service Router, and CDS Manager. The Cisco MDE 3100 is an ideal media delivery platform for campus and data center deployments that require scalability for a large number of sites, users and clients. Multiple MDE 3100 may be stacked together to further scale deployments and achieve loadbalancing. The Cisco MDE 3100 provides 4 TB of total storage, including up to 3.8 TB for prepositioning and dynamic caching of the content. The Cisco MDE 3100 offers a base media license of 1 Gbps throughput and up to 2000 simultaneous streams. An additional upgrade license is available to increase the capacity to a total of 2 Gbps and 5000 simultaneous connections.

Figure 1 shows the Cisco MDE 3100.

Figure 1.   Cisco MDE 3100

Features and Benefits

Table 1 lists the features and benefits of the Cisco MDE 3100.

Table 1.   Cisco MDE 3100 Features and Benefits

Feature	Benefit
Live stream splitting	Offers ability to efficiently split a single stream entering the Cisco ECDS network to serve multiple users, allowing the administrator to offer live streaming in a manner that scales
Content prepositioning	Uses off-hours bandwidth and delivers a consistent experience for video and other applications
Content ingest	Ingests content for live video, video on demand, and other web components for efficient media delivery and offloading of the origin server
Dynamic caching	Reduces the WAN usage for Longtail video and other content over HTTP
Dedicated Cisco Integrated Management Controller (IMC) port for device management	Manages the hardware and device environment specifics through a dedicated Cisco IMC port
Built-in storage for hosting recovery software	Uses 4 GB of internal memory to support recovery of the system and configuration from a remote, centralized management station
DataCenter & Campus Scale	Provides a robust 2-rack-unit (2RU) footprint that is ideal for data center and campus deployments

Product Specifications

Table 2 lists Cisco MDE 3100 product specifications.

Table 2.   Cisco MDE 3100 Product Specifications

Feature	Specification
Size	2RU (fits standard Telco racks with additional kit)
Weight (set)	~35 lbs
Dimensions (H x W x D)	3.45 x 17.2 x 28.4 in. (8.76 x 43.69 x 72.14 cm)
CPU	2.40GHz Xeon E5620 x2
Hard drive	Eight 500-GB Serial Advanced Technology Attachment (SATA), 7200 rpm
Total HDD bays	16
Memory	16-GB DDR3
Redundant Array of Independent Disks (RAID)	No
Data network interfaces	Four Gigabit Ethernet ports
Other interfaces	One serial console; Cisco Integrated Management Console
Power	650W PSU
Backup power supply	Yes (optional)
Power rating	100 to 240 VAC, 10 to 5A, 50 or 60 Hz
CD-ROM or DVD drive	Yes
Internal USB drive	4 GB
Operating temperature	50 to 95°F (10 to 35°C)
Nonoperating temperature	−40 to 149°F (−40 to 65°C)
Operating altitude	0 to 10,000 ft (0 to 3000m); maximum ambient temperature. Decreases by 1°C per 300m) (984 ft)
Nonoperating altitude	40.000 ft (12,000m)
Operating humidity	5 to 93% noncondensing
Nonoperating humidity	5 to 93% noncondensing

Safety

Table 3 lists regulatory and standards-compliance specifications for the Cisco MDE 3100.

Table 3.   Cisco MDE 3100 Regulatory and Standards-Compliance Specifications

Specification	Description
Safety	- UL 60950-1 No. 21CFR1040 - CAN/CSA-C22.2 No. 60950-1 - NOM-NYCE - NOM-10-SCFI-10993 - IRAM IEC60950-1 - CB IEC60950-1 - EN 60950-1 - IEC 60950-1 - GOST IEC60950-1 - SASO - SABS/CB IEC6095-1 - CCC*/CB GB4943-1995 - CNS14336 - CB IEC60950-1 - AS/NZS 60950-1

Specification	Description
	• GB4943
EMC: Emissions	• 47CFR Part 15 (CFR 47) Class A • AS/NZS CISPR22 Class A • CISPR2 2 Class A • EN55022 Class A • ICES003 Class A • VCCI Class A • EN61000-3-2 • EN61000-3-3 • KN22 Class A • CNS13438 Class A
EMC: Immunity	• EN50082-1 • EN61000-6-1 • EN55024 • CISPR24 • EN300386 • KN 61000-4 Series

Ordering Information

Table 4 lists ordering information.

Table 4.   Cisco MDE 3100 Ordering Information

Product Name	Part Number
Media Delivery Engine 3100, 2RU, 16GB, HW	MDE-3100-K9
500 GB Hard Drive for MDE 3100, 2 RU	MDE-HDDSTA2-500GB
ECDS Software for MDE 3100, 2 RU	MDE-3100-SW253-K9
ECDS Base Media license for MDE 3100 – 1 Gbps/2000 concurrent connections	MDE-3100-ML1G-2000
Optional Content Acquisition license for MDE 3100	MDE-3100-CALIC
Management Software License for ECDS System, MDE 3100	MDE-MGMTSW-LIC
Optional Media Acquirer Software License Upgrade for MDE 3100	MDE-3100-CALIC-UP
ECDS Media License MDE-3100- 1Gbps/3000 streams upgrade License	MDE-3100-ML1G-3000

Service and Support

Cisco and our partners provide a broad portfolio of smart, personalized services and support that can help you realize the full value of your video investment and increase business agility and network availability. This portfolio of services promotes business transformation through a network-based collaboration platform that enables business to collaborate anywhere, anytime.

Cisco SMARTnet® Service, an award-winning technical support service, is available for Cisco MDE appliances and the ECDS solution. Cisco SMARTnet Service offers direct, anytime access to Cisco engineers and an extensive range of technical resources. Cisco SMARTnet Service delivers rapid problem resolution, flexible device-by-device coverage, and premium service options to help maximize operational efficiency.

For more information about these services, please visit:
www.cisco.com/go/services/digitalmedia

For More Information

For more information about the Cisco Media Delivery Engine 3100, contact your local Cisco account representative.

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Printed in USA

C78-677839-00   06/11