

Cisco Video Management and Storage System Network Module

The Cisco® Integrated Video Surveillance solution enables you to rapidly deploy highly distributed, IP-enabled video surveillance at your offices while migrating traditional analog surveillance equipment to IP.

The solution offers the lowest total cost of ownership (TCO) for the branch office, ease of integration through network transparency, reliable data interoperability, and maximized overall security. It allows you to consolidate costly branch-office servers and deploy new applications centrally while still offering real-time access to physical security video and data.

The Cisco Integrated Video Surveillance solution is comprised of:

- Cisco integrated services routers
- Cisco IP Video Surveillance 16-Port Analog Video Gateway (AVG) Network Module
- Cisco Video Management and Storage System (VMSS) Network Module
- Cisco Integrated Storage System (ISS) Network Module
- Additional products from the Cisco Video Surveillance Manager product line

This data sheet is for the Cisco Video Management and Storage System (VMSS) Network Module for the Cisco integrated services routers.

Product Overview

Cisco VMSS offers a powerful system for highly distributed video surveillance systems:

- Manage all of your video sources through a single converged interface
 - Support for Cisco IP Video Surveillance Integrated Analog Video Gateway
 - Support for most major third-party IP cameras and encoders and decoders
- View live and archived video through the same Internet Explorer “thin client” interface
- Store archival video locally
 - Up to 500 GB of local storage and the ability to expand to external Small Computer System Interface over IP (iSCSI) or Network File System (NFS) storage for long-term archival
- Intelligently manage your video store through event-based up-speeding of video stream recording
- Notify relevant security personnel using e-mail messages, pages, and Short Message Service (SMS)
- Control system access with highly configurable user privileges

In addition to these benefits of distributed video surveillance, Cisco VMSS provides a low TCO solution and transparently preserves all existing network services. For additional information about Cisco VMSS, visit <http://www.cisco.com/go/isrvideo>.

Product Line

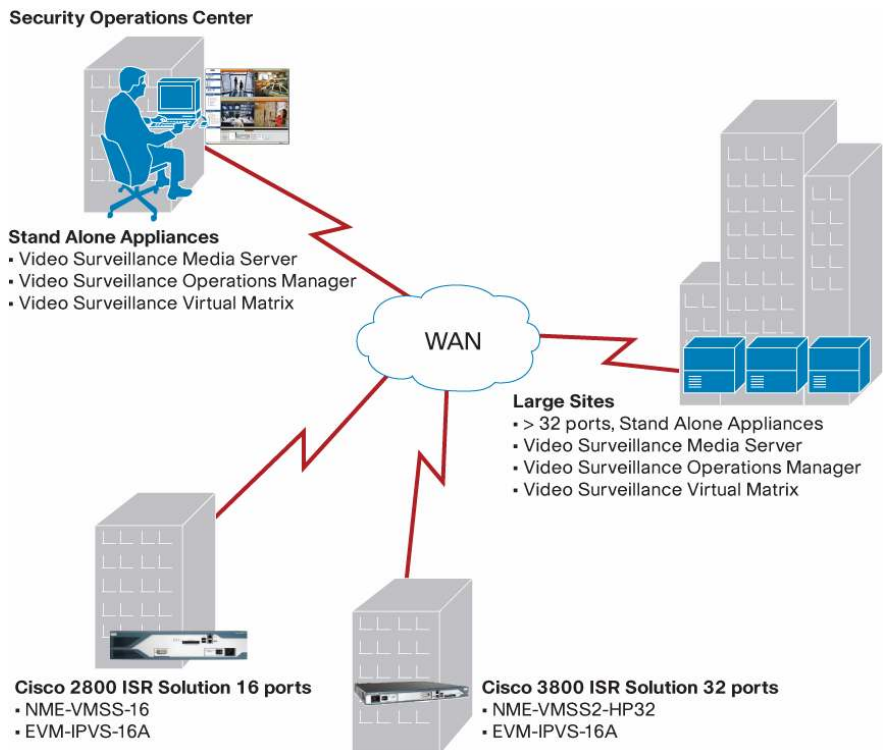
The Cisco VMSS Network Module belongs to the Cisco Video Surveillance Manager line of products (Figure 1). Addressing varying customer needs based on branch-office size, bandwidth availability, and usage patterns, this product line is designed to scale to very large enterprisewide deployments.

The Cisco VMSS modules are designed to be deployed in highly distributed environments as edge devices at branch offices; appropriate products exist for high-density locations for individual deployments (Figure 2). This product line can act as one homogenous solution for coverage of all of your video surveillance deployment needs. For more details about the Cisco Video Surveillance Manager appliances, refer to <http://www.cisco.com/web/solutions/ps/products.html#netcentric>.

Figure 1. Cisco VMSS Network Module



Figure 2. Cisco VMSS Deployment Architecture



Cisco VMSS Software Licensing

Cisco VMSS Software is licensed on a per-input stream basis (16 or 32), and these licenses are tied to the specific hardware for which the license is generated. These licensed ports may be any combination of Cisco IP Video Surveillance Analog Video Gateway Module streams, IP camera streams, or third-party encoder streams. Note that starting with software release Cisco VMSS 2.2, you are no longer required to enter in license keys for the VMSS.

Product Specifications

Table 1 gives product specifications.

Table 1. Cisco VMSS Network Module Specifications

	Cisco VMSS with 16 Port License (NME-VMSS-16)	Cisco VMSS with 16 Port License (NME-VMSS2-16)	Cisco High-Performance VMSS with 16-Port License (NME-VMSS-HP16)	Cisco High-Performance VMSS with 32-Port License (NME-VMSS2-HP32)	Cisco High-Performance VMSS with 32-Port License (NME-VMSS-HP32)
RAM	512 MB	2 GB	2 GB	2 GB	2 GB
Hard disk	120 GB	500 GB	160 GB	500 GB	160 GB
Router platforms	Cisco 2811, 2821, 2851, 3825, and 3845 Integrated Services Routers	Cisco 2811, 2821, 2851, 3825, and 3845 Integrated Services Routers	Cisco 3825 and 3845 Integrated Services Routers	Cisco 3825 and 3845 Integrated Services Routers	Cisco 3825 and 3845 Integrated Services Routers
Cisco IOS® Software (on router)	Cisco IOS Software Release 12.4(15)T or later	Cisco IOS Software Release 12.4(15)T or later	Cisco IOS Software Release 12.4(15)T or later	Cisco IOS Software Release 12.4(15)T or later	Cisco IOS Software Release 12.4(15)T or later
Cisco VMSS license options	16-port Cisco Video Surveillance Operations Manager (VSOM) and Video Surveillance Media Server (VSMS) stream license	16-port Cisco VSOM and VSMS stream license	16-port Cisco VSOM and VSMS stream license	32-port Cisco VSOM and VSMS stream license	32-port Cisco VSOM and VSMS stream license
Cisco VMSS Software	Cisco VMSS 1.0 or later	Cisco VMSS 2.2 or later	Cisco VMSS 1.0 or later	Cisco VMSS 2.2 or later	Cisco VMSS 1.0 or later
Internal network interfaces	10/100/1000 Gigabit Ethernet connectivity to router backplane	10/100/1000 Gigabit Ethernet connectivity to router backplane	10/100/1000 Gigabit Ethernet connectivity to router backplane	10/100/1000 Gigabit Ethernet connectivity to router backplane	10/100/1000 Gigabit Ethernet connectivity to router backplane
External network interfaces	10/100/1000 Gigabit Ethernet	10/100/1000 Gigabit Ethernet	10/100/1000 Gigabit Ethernet	10/100/1000 Gigabit Ethernet	10/100/1000 Gigabit Ethernet
Physical characteristics	<ul style="list-style-type: none"> Dimensions (H x W x D): 1.55 x 7.10 x 7.2 in. (3.9 x 18.0 x 18.3 cm) Weight: 1.5 lb (0.7 kg) maximum 	<ul style="list-style-type: none"> Dimensions (H x W x D): 1.55 x 7.10 x 7.2 in. (3.9 x 18.0 x 18.3 cm) Weight: 1.5 lb (0.7 kg) maximum 	<ul style="list-style-type: none"> Dimensions (H x W x D): 1.55 x 7.10 x 7.2 in. (3.9 x 18.0 x 18.3 cm) Weight: 1.5 lb (0.7 kg) maximum 	<ul style="list-style-type: none"> Dimensions (H x W x D): 1.55 x 7.10 x 7.2 in. (3.9 x 18.0 x 18.3 cm) Weight: 1.5 lb (0.7 kg) maximum 	<ul style="list-style-type: none"> Dimensions (H x W x D): 1.55 x 7.10 x 7.2 in. (3.9 x 18.0 x 18.3 cm) Weight: 1.5 lb (0.7 kg) maximum
Operating environment	<ul style="list-style-type: none"> Operating temperature: 41 to 104°F (5 to 40°C) Nonoperating and storage temperature: –40 to 158°F (–40 to 70°C) Operating humidity: 5 to 85% (noncondensing) Operating altitude: –197 to 6000 ft (–60 to 1800m) 	<ul style="list-style-type: none"> Operating temperature: 41 to 104°F (5 to 40°C) Nonoperating and storage temperature: –40 to 158°F (–40 to 70°C) Operating humidity: 5 to 85% (noncondensing) Operating altitude: –197 to 6000 ft (–60 to 1800m) 	<ul style="list-style-type: none"> Operating temperature: 41 to 104°F (5 to 40°C) Nonoperating and storage temperature: –40 to 158°F (–40 to 70°C) Operating humidity: 5 to 85% (noncondensing) Operating altitude: –197 to 6000 ft (–60 to 1800m) 	<ul style="list-style-type: none"> Operating temperature: 41 to 104°F (5 to 40°C) Nonoperating and storage temperature: –40 to 158°F (–40 to 70°C) Operating humidity: 5 to 85% (noncondensing) Operating altitude: –197 to 6000 ft (–60 to 1800m) 	<ul style="list-style-type: none"> Operating temperature: 41 to 104°F (5 to 40°C) Nonoperating and storage temperature: –40 to 158°F (–40 to 70°C) Operating humidity: 5 to 85% (noncondensing) Operating altitude: –197 to 6000 ft (–60 to 1800m)

<p>Safety</p>	<ul style="list-style-type: none"> UL 60950-1, First Edition, Standard for safety for information technology equipment [US]] CAN/CSA-C22.2 No. 60950-1-03, Safety of information technology equipment including electrical business equipment [Canada] IEC 60950-1:2001, Safety of information technology equipment / Second Edition -2005) [World-Wide]- 2nd Ed. 2005 (is optional and will roll in by Dec.1st 2010) EN 60950 -1:2001, Safety of information technology equipment [CENEL EC; includes EU and EFTA]] GB4943-2001, Safety of information technology equipment [PRC]] AS/NZS 60950-1, Safety of information technology equipment including electrical business equipment [Australia] NOM-019, Safety of data processing equipment [Mexico]] 	<ul style="list-style-type: none"> UL 60950-1, First Edition, Standard for safety for information technology equipment [US]] CAN/CSA-C22.2 No. 60950-1-03, Safety of information technology equipment including electrical business equipment [Canada] IEC 60950-1:2001, Safety of information technology equipment / Second Edition -2005) [World-Wide]- 2nd Ed. 2005 (is optional and will roll in by Dec.1st 2010) EN 60950 -1:2001, Safety of information technology equipment [CENEL EC; includes EU and EFTA]] GB4943-2001, Safety of information technology equipment [PRC]] AS/NZS 60950-1, Safety of information technology equipment including electrical business equipment [Australia] NOM-019, Safety of data processing equipment [Mexico]] 	<ul style="list-style-type: none"> UL 60950-1, First Edition, Standard for safety for information technology equipment [US]] CAN/CSA-C22.2 No. 60950-1-03, Safety of information technology equipment including electrical business equipment [Canada] IEC 60950-1:2001, Safety of information technology equipment / Second Edition -2005) [World-Wide]- 2nd Ed. 2005 (is optional and will roll in by Dec.1st 2010) EN 60950 -1:2001, Safety of information technology equipment [CENEL EC; includes EU and EFTA]] GB4943-2001, Safety of information technology equipment [PRC]] AS/NZS 60950-1, Safety of information technology equipment including electrical business equipment [Australia] NOM-019, Safety of data processing equipment [Mexico]] 	<ul style="list-style-type: none"> UL 60950-1, First Edition, Standard for safety for information technology equipment [US]] CAN/CSA-C22.2 No. 60950-1-03, Safety of information technology equipment including electrical business equipment [Canada] IEC 60950-1:2001, Safety of information technology equipment / Second Edition -2005) [World-Wide]- 2nd Ed. 2005 (is optional and will roll in by Dec.1st 2010) EN 60950 -1:2001, Safety of information technology equipment [CENEL EC; includes EU and EFTA]] GB4943-2001, Safety of information technology equipment [PRC]] AS/NZS 60950-1, Safety of information technology equipment including electrical business equipment [Australia] NOM-019, Safety of data processing equipment [Mexico]] 	<ul style="list-style-type: none"> UL 60950-1, First Edition, Standard for safety for information technology equipment [US]] CAN/CSA-C22.2 No. 60950-1-03, Safety of information technology equipment including electrical business equipment [Canada] IEC 60950-1:2001, Safety of information technology equipment / Second Edition -2005) [World-Wide]- 2nd Ed. 2005 (is optional and will roll in by Dec.1st 2010) EN 60950 -1:2001, Safety of information technology equipment [CENEL EC; includes EU and EFTA]] GB4943-2001, Safety of information technology equipment [PRC]] AS/NZS 60950-1, Safety of information technology equipment including electrical business equipment [Australia] NOM-019, Safety of data processing equipment [Mexico]]
<p>EMC</p>	<p>Emission:</p> <ul style="list-style-type: none"> 47 CFR Part 15 Class A CISPR22 Class A EN300386 Class A EN55022 Class A EN61000-3-2 EN61000-3-3 SD/EMI (India) KN22 (Korea) VCCI Class I AS/NZS CISPR 22 Class A <p>Immunity:</p> <ul style="list-style-type: none"> CISPR24 EN300386 EN50082-1 EN55024 SD/EMI (India) KN22 (Korea) EN61000-6-1 	<p>Emission:</p> <ul style="list-style-type: none"> 47 CFR Part 15 Class A CISPR22 Class A EN300386 Class A EN55022 Class A EN61000-3-2 EN61000-3-3 SD/EMI (India) KN22 (Korea) VCCI Class I AS/NZS CISPR 22 Class A <p>Immunity:</p> <ul style="list-style-type: none"> CISPR24 EN300386 EN50082-1 EN55024 SD/EMI (India) KN22 (Korea) EN61000-6-1 	<p>Emission:</p> <ul style="list-style-type: none"> 47 CFR Part 15 Class A CISPR22 Class A EN300386 Class A EN55022 Class A EN61000-3-2 EN61000-3-3 SD/EMI (India) KN22 (Korea) VCCI Class I AS/NZS CISPR 22 Class A <p>Immunity:</p> <ul style="list-style-type: none"> CISPR24 EN300386 EN50082-1 EN55024 SD/EMI (India) KN22 (Korea) EN61000-6-1 	<p>Emission:</p> <ul style="list-style-type: none"> 47 CFR Part 15 Class A CISPR22 Class A EN300386 Class A EN55022 Class A EN61000-3-2 EN61000-3-3 SD/EMI (India) KN22 (Korea) VCCI Class I AS/NZS CISPR 22 Class A <p>Immunity:</p> <ul style="list-style-type: none"> CISPR24 EN300386 EN50082-1 EN55024 SD/EMI (India) KN22 (Korea) EN61000-6-1 	<p>Emission:</p> <ul style="list-style-type: none"> 47 CFR Part 15 Class A CISPR22 Class A EN300386 Class A EN55022 Class A EN61000-3-2 EN61000-3-3 SD/EMI (India) KN22 (Korea) VCCI Class I AS/NZS CISPR 22 Class A <p>Immunity:</p> <ul style="list-style-type: none"> CISPR24 EN300386 EN50082-1 EN55024 SD/EMI (India) KN22 (Korea) EN61000-6-1

Ordering Information

Refer to Table 2 for ordering information.

Table 2. Part Numbers for Cisco VMSS Network Modules and Software

Product Part Number	Product Description
NME-VMSS2-16	Cisco VMSS Network Module for Cisco 2800 and 3800 Series Integrated Services Routers, 2GB RAM, 500GB Storage, 16 Port License
NME-VMSS-16	Cisco VMSS Network Module for Cisco 2800 and 3800 Series Integrated Services Routers, 512 MB RAM, 120GB Storage, 16 Port License
NME-VMSS-HP16	Cisco VMSS Network Module for Cisco 3800 Series Integrated Services Routers, 2GB RAM, 160GB Storage, 16 Port License
NME-VMSS2-HP32	Cisco VMSS Network Module for Cisco 3800 Series Integrated Services Routers, 2GB RAM, 500GB Storage, 32 Port License
NME-VMSS-HP32	Cisco VMSS Network Module for Cisco 3800 Series Integrated Services Routers, 2GB RAM, 160GB Storage, 32 Port License

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For More Information

For more information about the Cisco VMSS and Cisco Video Surveillance Media Manager solutions, visit <http://www.cisco.com/go/isrvideo> or contact your local Cisco account representative.

For more information about Cisco integrated services routers, visit <http://www.cisco.com/go/isr> or contact your local Cisco account representative.



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