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Tech Notes



Understanding NM-1V and NM-2V Voice Network Modules

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Document ID: 8016

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Introduction

Cisco Voice Network Modules provide enterprises, managed service providers, and service providers the ability to directly connect the public switched telephone network (PSTN) and legacy telephony equipment to existing Cisco 2600, Cisco 3600, and Cisco 3700 routers. The NM-1V and NM-2V carrier modules support Voice Interface Cards (VICs) to provide this connectivity.

Note: The NM-1V and NM-2V carrier modules do not support WAN Interface Cards (WICs), which are data-only interface cards. The "V" in the product name indicates that these are voice carrier modules. The WIC carrier module product numbers are NM-1W and NM-2W.

Prerequisites

Requirements

There are no specific requirements for this document.

Components Used

The information in this document is based on the following hardware versions:

- Cisco NM-1V One Voice/Fax Interface Card Slot Network Module (supports two voice calls)
- Cisco NM-2V Two Voice/Fax Interface Card Slot Network Module (supports four voice calls)

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

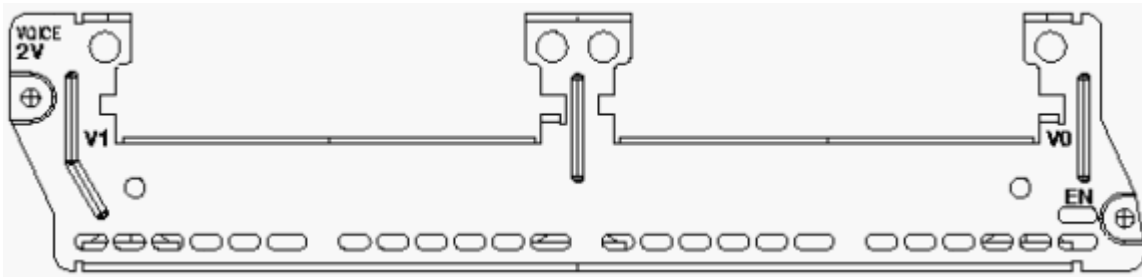
Conventions

For more information on document conventions, see the [Cisco Technical Tips Conventions](#).

Network Diagram

The following diagram illustrates the NM-2V carrier module.

NM-2V Voice Network Module



Features

The following features are available with the components listed in this document:


- Voice/fax over IP
- Router-based, modular design
- High-performance digital signal processing (DSP) architecture
- Cisco IOS® quality of service (QoS) features: Resource Reservation Protocol (RSVP), weighted fair queuing (WFQ), fragmentation, and interleave
- Compliant with the H.323 standard for audio and videoconferencing
- Works with existing phone and fax equipment
- Voice features require a Cisco IOS Plus feature set

Cisco IOS Support	VG200	2600	2600XM/ 2650XM	2691	3620, 3640	3660	3725/3745
NM-1V	12.1(1) XE, 12.1(3) T, 12.1 (5) XM, 12.2 (1), 12.2(2) T, 12.3 (1)	11.3 (2) XA, 11.3 (3) T, 12.0 (1) T, 12.0 (1), 12.0 (3) T, 12.0 (5) XK, 12.0 (7) T, 12.1 (11) T, 12.1 (1), 12.1 (5) YB, 12.1 (5) YD, 12.2 (1), 12.2 (2) T, 12.2 (2) XT, 12.2 (11) YT, 12.3 (1)	12.1(14), 12.2(8) T1, 12.2 (11)T, 12.2 YT, 12.2 (12), 12.2 (15)ZJ, 12.3(1), 12.3(2)T	12.2 (8) T1, 12.2 (11) YT, 12.2 (15) ZJ, 12.3 (1), 12.3 (2)T	11.3 (1)T, 12.0 (1)T, 12.0 (1), 12.0 (2)T, 12.0 (2) XC, 12.0 (2) XD, 12.0 (3)T, 12.0 (5) XK, 12.0 (7)T, 12.1 (1) T, 12.1 (3)T, 12.0 (1), 12.1 (5) YB, 12.1 (7)T, 12.0 (7) YD, 12.2 (1), 12.2 (1) T, 12.2 (11) YT, 12.2 (2)T, 12.2 (15) ZJ, 12.3 (1), 12.3 (2)T	12.0 (5) T, 12.0 (5) XK, 12.0 (7) 12.1 (1) T, 12.1 (1), 12.1 (5) YD, 12.2 (1), 12.2 (2) T, 12.2 (2) XT, 12.2 (8) T, 12.2 (11) YT, 12.2 (15) ZJ, 12.3 (1), 12.3 (2)T	12.2(8)T1, 12.2(11) YT, 12.2 (15)ZJ, 12.3(1), 12.3(2)T



Note: The Cisco IOS versions provided are typically the minimum versions required to support the platform, module, or feature in question. To find a complete list of Cisco IOS Software versions that support each feature, module, interface card, or chassis, refer to the [Software Advisor](#) ([registered](#) customers only) .

Related Information

- [Voice Hardware Compatibility Matrix \(Cisco 175x, 1760, 2600, 3600, 3700, VG200, Catalyst 4000, Catalyst 6500/6000\)](#)
- [Voice over IP for the Cisco 3600 Series Configuration Guide](#)
- [Voice Technologies](#)
- [Voice, Telephony and Messaging Devices](#)
- [Voice Software](#)
- [Voice, Telephony and Messaging TAC eLearning Solutions](#)
- **Recommended Reading:** [Troubleshooting Cisco IP Telephony](#) 
- [Technical Support - Cisco Systems](#)

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