



# Cisco 800M Series Integrated Services Routers Overview

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This chapter provides an overview of Cisco 800M Series integrated services routers (ISRs), and information about how to configure the features and contains the following sections:

- [Overview of the Cisco 800M Series ISR, page 1](#)
- [Cisco 800M Series ISR Models, page 2](#)
- [Cisco 800M Series ISR Features, page 3](#)

## Overview of the Cisco 800M Series ISR

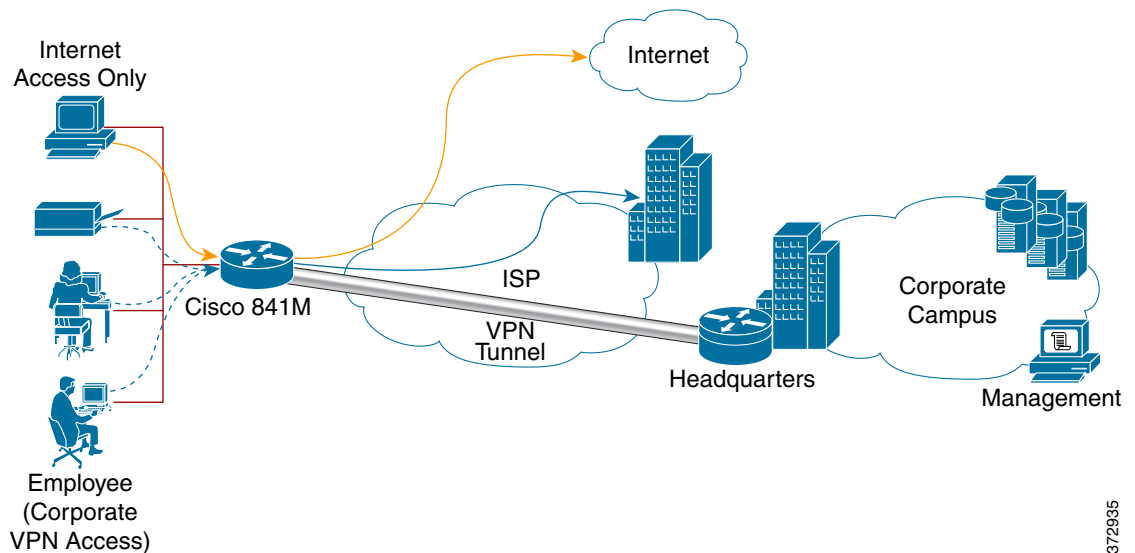
Cisco 800M Series ISRs are entry level branch routers that provide secure network connectivity for small offices to a central location. Cisco 800M Series ISRs are modular routers and provides flexible WAN connectivity options including Gigabit Ethernet (GE), Serial, and 3G to connect the branch office to central office over a secure tunnel. The Cisco 800M Series ISR can be used for deployment in remote small offices, ATMs and retail stores.

The Cisco 800M Series ISR runs Cisco IOS Software and delivers built-in security in a single software image without any additional software license. The Cisco 800M Series ISR provides an open, extensible environment for developing and hosting applications at the network edge.

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Figure 1-1 explains a scenario where the Cisco 800M Series ISR is deployed to provide remote connectivity from a small office to central office over secure VPN tunnels. In this scenario corporate users use a separate VLAN than the Internet users.

Figure 1-1 Cisco 800M Series Deployment Example



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## Cisco 800M Series ISR Models

Cisco 800M Series ISRs are available in two models:

- Cisco C841M-4X (Integrated 4 port GE LAN and 2 port GE WAN)
- Cisco C841M-8X (Integrated 8 port GE LAN and 2 port GE WAN)

The Cisco 800M Series ISR supports highly available and redundant WAN connection options and allows you to easily migrate to different WAN connections. The Cisco 800M Series ISR has 2 WAN slots that can host single port serial module or multi-mode 3G Wireless WAN module. The 3G Wireless WAN module supports multiple 3G technologies on the same pluggable WAN interface and provides service provider independence. These modules are field replaceable which provides flexibility and ease of procurement.

Table 1-1 describes the pluggable WAN configuration modules available for Cisco 800M Series ISR models.

**Table 1-1** *Pluggable WAN Modules*

Module	Description
WIM-3G	Multimode 3G Wireless WAN module
WIM-1T	Single port serial module

The combination of WAN modules supported by the Cisco 800M Series ISR is given as follows:

- Multimode 3G Wireless WAN module in slot 0 and single port serial module in slot 1
- Single port serial module in slot 0 and multimode 3G Wireless WAN module in slot 1
- Single port serial module in slot 0 and single port serial module in slot 1

**Note**

Only one 3G Wireless WAN module is supported at a time on the Cisco 800M Series ISR. If two 3G Wireless WAN modules are present in the 800M Series ISR, the 3G Wireless WAN module in the second slot will be powered down.

[Table 1-2](#) summarizes the LAN and WAN interface options available for the Cisco 800M Series ISR models.

**Table 1-2** *LAN and WAN Interfaces of the Cisco 800M Series ISRs*

800M Series Models	LAN Interfaces	GE WAN Interfaces	Serial WAN	3G WAN
Cisco C841M-4X	4 Gigabit Ethernet LAN ports	2 Gigabit Ethernet ports	Single port serial	Multimode 3G (GSM/CDMA)
Cisco C841M-8X	8 Gigabit Ethernet LAN ports	2 Gigabit Ethernet ports	Single port serial	Multimode 3G (GSM/CDMA)

## Cisco 800M Series ISR Features

The Cisco 800M series ISR comes with advanced IP Services license and support the features available for advanced IP services license.

Some of the key features supported by Cisco 800M Series ISRs are listed as follows:

- GSM/CDMA 3G Wireless WAN modes
- Serial WAN link with HDLC, PPP and Frame Relay encapsulations
- Advanced security features including IP Security (IPsec) VPNs, Dynamic Multipoint VPN (DMVPN) and Tunnel-less Group Encrypted Transport (GETVPN)
- Layer 2 features including VLAN/802.1q Trunking
- Integrated device management using Cisco Configuration Professional Express.
- Remote management and network monitoring using SNMP, Telnet, and HTTP, and locally through a console port

*REVIEW DRAFT—CISCO CONFIDENTIAL***LEDs on the Cisco 800M Series ISR**

Table 1-3 describes the LEDs on the Cisco 800M Series ISR.

**Table 1-3** *LEDs on the Cisco 800M Series ISR*

LED	Color	Description
SYS	Green (blinking)	System is booting.
	OFF	System is off.
	Solid Green	System is in active status.
Slot 0	Amber	Module is inserted in slot 0 but the module is not in service.
	Green	Module is inserted in slot 0 and the module is in service.
	OFF	No module is present in slot 0.
Slot 1	Amber	Module is inserted in slot 1 but the module is not in service.
	Green	Module is inserted in slot 1 and the module is in service.
	OFF	No module is present in slot 1.
VPN OK	Green	At least one VPN session is active.
	OFF	VPN not connected.
PPP OK	Green	At least one PPP session is active.
	OFF	PPP session is not connected.
LAN	Solid Green	LAN connection is established
	Green (Blinking)	Data transmission is happening on the link.
	OFF	LAN is not connected.
WAN	Solid Green	WAN link is established
	Green (Blinking)	Data transmission is happening on the link.
	OFF	WAN link is not connected.