



# Cisco 900 Series Integrated Services Routers Overview

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This chapter provides an overview of Cisco 900 Series Integrated Services Routers (ISRs). The chapter contains the following sections:

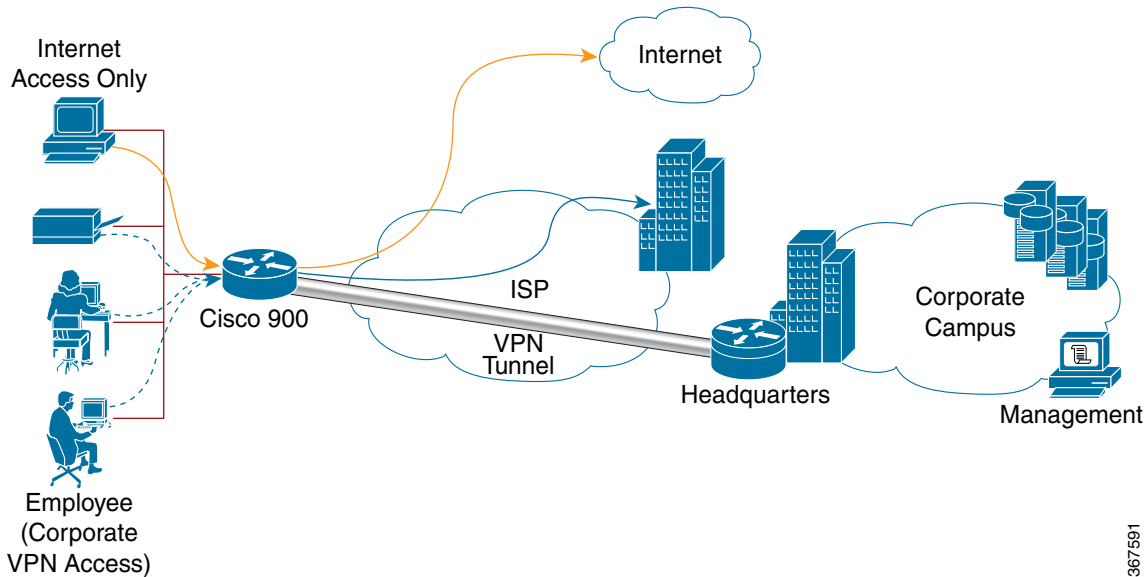
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## Overview of the Cisco 900 Series ISR

Cisco 900 Series ISRs are entry level branch routers that provide secure network connectivity for small offices to a central location. These powerful, fixed-configuration routers provide secure broadband and Metro Ethernet and connectivity. Service providers offering managed Ethernet WAN services can deploy them in customer locations as CPE.

Figure 1-1 explains a scenario where the Cisco 900 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 900 Series Deployment Example



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## Cisco 900 Series ISR Models

Cisco 900 Series ISRs are available in the following models:

- Cisco C921-4P
- Cisco C921J-4P
- Cisco C931-4P

Table 1-1 summarizes the LAN and WAN interface options available for the Cisco 900 Series ISR models.

Table 1-1 LAN and WAN Interfaces of the Cisco 900 Series ISRs

900 Series Models	LAN Interfaces	GE WAN Interfaces
Cisco C921-4P	4 port 10/100/1000 Mbps managed switch	2 Gigabit Ethernet ports
Cisco C921J-4P	4 port 10/100/1000 Mbps managed switch	2 Gigabit Ethernet ports
C921-4PLTEGB	4 port 10/100/1000 Mbps managed switch	2 Gigabit Ethernet ports

900 Series Models	LAN Interfaces	GE WAN Interfaces
C921-4PLTEAU	4 port 10/100/1000 Mbps managed switch	2 Gigabit Ethernet ports
C921-4PLTENA	4 port 10/100/1000 Mbps managed switch	2 Gigabit Ethernet ports
C926-4P	4 port 10/100/1000 Mbps managed switch	1 Gigabit Ethernet ports
C926-4PLTEGB	4 port 10/100/1000 Mbps managed switch	1 Gigabit Ethernet ports
C927-4P	4 port 10/100/1000 Mbps managed switch	1 Gigabit Ethernet ports
C927-4PM	4 port 10/100/1000 Mbps managed switch	1 Gigabit Ethernet ports
C927-4PLTEGB	4 port 10/100/1000 Mbps managed switch	1 Gigabit Ethernet ports
C927-4PMLTEGB	4 port 10/100/1000 Mbps managed switch	1 Gigabit Ethernet ports
C927-4PLTEAU	4 port 10/100/1000 Mbps managed switch	1 Gigabit Ethernet ports
Cisco C931-4P	4 port 10/100/1000 Mbps managed switch	2 Gigabit Ethernet ports

## Cisco 900 Series ISR Features

Some of the key features supported by Cisco 900 Series ISRs are:

- Redundant WAN connections for failover protection and load balancing
- Dynamic failover protocols such as Virtual Router Redundancy Protocol (VRRP; RFC 2338) and Hot Standby Router Protocol (HSRP)
- Network perimeter security with integrated application inspection firewall
- Data privacy through high-speed IP Security (IPsec) Triple Data Encryption Standard (3DES) and Advanced Encryption Standard (AES) encryption
- Enforced security policy with intrusion prevention
- Security hardware acceleration
- Next-generation encryption for secure network communications systems, reliable for the next decade
- Supports LAN connections
- Simplifies and centralizes configuration and management of wireless and wireline devices. Supports WLAN services without requiring a wireless LAN controller
- Supports separate console and USB ports

## LEDs on the Cisco 900 Series ISR

Table 1-2 describes the LEDs on the Cisco 900 Series ISR.

**Table 1-2 LEDs on the Cisco 900 Series ISR**

LED	Color	Description
SYS	OFF	System is off.
	Blink	Boot up phase or in ROM Monitor mode.
	Steady on	Normal operation.
	Amber(steady)	Thermal trip.
	Amber(blink)	ROMMON code signing verification failure.
VPN OK	Green	At least one VPN session is active.
	OFF	VPN not connected.
LAN	Green(Solid)	LAN connection is established
	Green (Blinking)	Data transmission is happening on the link.
	OFF	LAN is not connected.
WAN	Green(Solid)	WAN link is established.
	Green (Blinking)	Data transmission is happening on the link.
	OFF	WAN link is not connected.
DSL CD	OFF	Shut.
	Green(Blinking)	Training, or no shut and cable disconnected.
	Green (solid)	Trained.
DSL Data	OFF	Shut.
	Green(Blinking)	TX/RX Data.
RSSI	Green (Solid)	Signal > -60 dBm Very strong signal
	Yellow	60dBm > Signal > -75dBm Strong signal
	Yellow(blinking)	75dBm > Signal > -90dBm Fair signal
	OFF	Signal < -90 dBm Unusable signal
SIM	OFF	No SIM.
	Steady on	SIM present in slot.
	Blink	TXD/RXD data.



