

TCP and UDP Ports Used by Cisco CallManager

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Introduction

This document provides a list of most of the TCP and UDP ports that a Cisco CallManager environment utilizes. This document provides important information for when you configure both Quality of Service (QoS) and Firewall/VPN solutions on a network when there is an Architecture for Voice, Video and Integrated Data (AVVID) solution implemented.

Prerequisites

Requirements

There are no specific prerequisites for this document.

Components Used

The information in this document is based on these software and hardware versions:

- Cisco CallManager 3.3(x)

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

Refer to the [Cisco Technical Tips Conventions](#) for more information on document conventions.

TCP/UDP Ports Used in a Cisco CallManager Environment

This table shows the TCP/UDP ports used in a Cisco CallManager environment.

Protocol	Remote Source Port	CallManager Destination Port	CallManager Source Port	Remote Device Destination Port	Remote Devices	Notes
DTC			TCP 135		CallManagers in the same cluster	
SSH		TCP 22			Secure Shell Client	
Telnet		TCP 23			Telnet Client	
DNS		UDP 53			DNS Servers	
DHCP	UDP 68	UDP 67			DHCP Server	
DHCP			UDP 68	UDP 67	DHCP Client	
TFTP		UDP 69				Dynamic Ports used after initial connect
HTTP		TCP 80			Administrator / User Web browsers	CCMAdmin and CCMUser pages
OSI (DAP, DSP, DISP)		TCP or UDP 120			DCD Directory	
NTP		UDP 123				
WINS		UDP 137-139			WINS Server	Windows Internet Name Service
SNMP		UDP 161				
SNMP Trap				UDP 162		

LDAP		TCP 389		TCP 389	Directory Services	When integrated with Corporate Directory
HTTPS / SSL		TCP 443				
SMB		TCP 445		TCP 445	CallManagers in the same cluster	
Syslog		TCP 514		UDP 514	Syslog service	
RMI		TCP 1099-1129			RMI Service. Attendant Console	
MS SQL		TCP 1433		TCP 1433	CallManagers in the same cluster	
H.323 RAS				UDP 1718	Gatekeeper discovery	
H.323 RAS				UDP 1719	Gatekeeper RAS	CallManager prior to 3.3. Cisco Conference Connection
H.323 RAS			UDP 1024-4999	UDP 1719	Gatekeeper RAS	CallManager 3.3
H.323 H.225		TCP 1720		TCP 1720	H.323 Gateways / Anonymous Device Cisco Conference Connection / Non-Gatekeeper Controlled H.323 Trunk	
H.323 H.225/ICT		TCP 1024-4999			CallManager Gatekeeper Controlled H.323 Trunks	CallManager 3.3

H.323 H.245		TCP 1024-4999	TCP 1024-4999		CallManager H.323 Gateways / Anonymous Device / H.323 Trunks	
H.323 H.245		TCP 11000-65535			IOS H.323 Gateways. Cisco Conference Connection	
SCCP		TCP 2000			Skinny Clients (IP Phones)	
Skinny Gateway (Analogue)		TCP 2001			Analogue Skinny Gateway	Obsolete
Skinny Gateway (Digital)		TCP 2002			Digital Skinny Gateway	Obsolete
MGCP Control		UDP 2427			MGCP Gateway Control	
MGCP Backhaul		TCP 2428			MGCP Gateways Backhaul	
RTS Serv			2500			
Cisco Extended Service		TCP 2551			Active / Backup Determination	
Cisco Extended Service		TCP 2552			DB Change Notification	
RIS Data Collector		TCP 2555			Inter RIS communication	
RIS Data Collector		TCP 2556			Used by clients (IIS) to communicate with RIS	

CTI/QBE		TCP 2748			TAPI/JTAPI Applications	Connects with CTI Manager. Used by IVR, CCC, PA, Cisco Softphone, CRS, ICD, IPCC, IPMA, Attendant Console and any other application that utilizes the TAPI or J/TAPI plugin / TSP.
IPMA Service		TCP 2912			IPMA Assistant Console	
Media Streaming Application		UDP 3001			Change Notification	
SCCP		TCP 3224			Media Resources	Conference Bridges / Xcoders
MS Terminal Services		TCP 3389			Windows Terminal Services	
Entercept HID Agent				TCP 5000	Host Intrusion Detection Console	
CallManager SIP		TCP/UDP 5060		TCP 5060	SIP Trunk Default Port	Can use TCP 1024 - 65535
VNC http helper		TCP 580x				Remote Control
VNC Display		TCP 690x			Virtual Network Computer Display	Remote Control

CallManager Change Notification		TCP 7727			CallManager Change Notification. Cisco database layer monitor, Cisco TFTP, Cisco IP media streaming, Cisco TCD, Cisco MOH	RealTime Change Notification
IPMA Service		TCP 8001			IP Manager Assistant	Change Notification
ICCS		TCP 8002		TCP 8002	CallManagers in the same cluster	Intra Cluster Communication
CTIM		TCP 8003				
Cisco Tomcat		TCP 8007			Web Requests	
Cisco Tomcat		TCP 8009			Web Requests	
Cisco Tomcat		TCP 8111			IIS, Web Requests to IPMA worker thread	
Cisco Tomcat		TCP 8222			IIS, Web Requests to EM application worker thread	
Cisco Tomcat		TCP 8333			IIS, Web Requests to WebDialer application worker thread	
DC Directory		TCP 8404			Embedded Directory Services	Used for Directory services. Application Authentication / configuration. SoftPhone Directory. User Directory

Cisco Tomcat		TCP 8444			IIS, Web Requests to EM Service worker thread	
Cisco Tomcat		TCP 8555			IIS, Web Requests to Apache SOAP worker thread	
Cisco Tomcat		TCP 8998			Web Requests	
Cisco Tomcat		TCP 9007			IIS, Web Requests to CAR worker thread	
RTP	UDP 16384-32767			UDP 16384-32767	Voice Media	IP IVR Media. CCC IVR Media, Cisco SoftPhone, Media Streaming Application
Cisco SNMP Trap Agent		UDP 61441			Cisco Alarm Interface	Receives some SNMP alarm in XML format.

Other AVVID Products

For Cisco Unity, refer to the [Cisco Unity and Quality of Service \(QoS\)](#) paper that describes any additional ports used (primarily between Microsoft Exchange and Cisco Unity) that are not listed in the table in this document. The actual Cisco Unity voice ports are registered via the TAPI service provider (TSP) using the Skinny protocol (TCP port 2000).

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NetPro Discussion Forums - Featured Conversations for Voice


Service Providers: Voice over IP

Voice & Video: Voice over IP

Voice & Video: IP Telephony

Voice & Video: IP Phone Services for End Users
Voice & Video: Unified Communications
Voice & Video: IP Phone Services for Developers
Voice & Video: General

Related Information

- [Cisco Unity and Quality of Service \(QoS\)](#)
 - [Voice Technology Support](#)
 - [Voice and IP Communications Product Support](#)
 - **Recommended Reading:** [Troubleshooting Cisco IP Telephony](#) 
 - [Technical Support & Documentation - Cisco Systems](#)
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