Component Protocols and APIs

This chapter lists the protocols and call control application program interfaces (APIs) that are supported by various Cisco Unified Communications components.

Call Control Signaling Protocols

Cisco Unified Communications components support an array of call control signaling protocols. The following table shows the call control signaling protocols that are supported by each component.

Table 1: Call Control Signaling Protocol Support

	DPNSS	H.320	H.323	ISDN	MGCP	SCCP	SIP	QSIG	T1 CAS
Cisco Emergency Responder						x	x		
Cisco IP Communicator						x	x		
Cisco Unified Communications Manager	x		x	x	x	x	x	x[1]	x
Cisco Unified Communications Manager Express			x			x	x		
Cisco Unified Communications Manager, Business Edition	x		x	x	x	x	x	x	x

	DPNSS	H.320	H.323	ISDN	MGCP	SCCP	SIP	QSIG	T1 CAS
Cisco Unified Contact Center Enterprise			x			x	x		
Cisco Unified Contact Center Express			x			x	x		
Cisco Unified Customer Voice Portal			x			x	x		
Cisco Unified IP Phones						x	x		
Cisco Unified MeetingPlace			x				x		
Cisco Unified Personal Communicator							x		
Cisco Unified Presence							x[2]		
Cisco Unified Survivable Remote Site Telephony			x			x	x		
Cisco Unified Video Advantage						x[3]			
Cisco Unity Connection						x	x		
Cisco Unity Express							x		
Cisco Unified SIP Proxy							x		
Gateways	x	x	x	x	x	x[4]	x	x	x

1 Cisco Unified Communications Manager does not support QSIG protocol directly, but only through a MGCP gateway. In such cases Cisco Unified Communications Manager also supports DPNSS, ISDN, and T1 CAS protocols.

2 Also supports SIMPLE.

3 Cisco Unified Video Advantage does not support SCCP directly, but only through a SCCP based endpoint.

4 VG248 and VG224 supports SCCP. ISR platforms can also register their FXS ports to Cisco Unified Communication Manager through SCCP.

Cisco Unified Communications Application Program Interfaces

Cisco Unified Communications Application Programming Interfaces (APIs) provide you with the flexibility to customize the capabilities of many Cisco Unified Communications components.

The following table shows the call control signaling APIs that are supported by each component.

Table 2: Cisco Unified Communications Application Programing Interfaces

	AXL	CTIQBE	HTTP	IMAP	JTAPI	LDAP	MRCP	SNMP	SOAP	SQL	TAPI	TFTP	VPIM	VXML	XML
Cisco Emergency Responder			x					x			x				
Cisco Unified Communications Manager	x	x	x		x	x		x	x	x	x	x			x
Cisco Unified Communications Manager Express	x		x					x	x		x	x		x	x
Cisco Unified Communications Manager, Business Edition	x	x	x	x	x	x		x	x	x	x	x	x		
Cisco Unified Contact Center Enterprise		x	x		x	x		x[5]		x					
Cisco Unified Contact Center Express			x		x	x	x			x				x	
Cisco Unified Customer Voice Portal			x				x	x						x	

	AXL	CTIQBE	HTTP	IMAP	JTAPI	LDAP	MRCP	SNMP	SOAP	SQL	TAPI	TFTP	VPIM	VXML	XML
Cisco Unified IP Phones			x									x			x
Cisco Unified MeetingPlace			x			x		x	x [6]	x					x[7]
Cisco Unified Personal Communicator		x	x	x		x			x			x			
Cisco Unified Presence	x	x	x			x		x	x	x					
Cisco Unity			x	x		x				x			x		
Cisco Unity Connection	x		x	x		x		x		x			x		
Cisco Unity Express		x	x	x [8]	x			x			x	x	x		
Gateways															x

5 Supported in Windows platforms.

6 Support between Video Integration and Video Admin

7 Cisco Unified Meeting Place supports XML between Video Integration and Video Admin and between Video Admin and MCU

8 Cisco Unity Express is not fully IMAP compliant. IMAP integration is supported only for Outlook, Outlook Express, Lotus Notes and Entourage 2008