



Virtual CME 12.6 Supported Firmware, Platforms, Memory, and Voice Products

About Virtual Cisco Unified Communications Manager Express (Virtual CME) Revised: April 15, 2019	
Feature Support	For information on Virtual CME feature support across platforms and protocols, see Unified CME Platform Protocol Compatibility Matrix .
Documentation	See Unified CME product documentation .
Cisco IOS Compatibility	Other Cisco IOS software releases may inherit Virtual Unified CME 12.6. To get a list of Cisco IOS software releases that support Virtual Unified CME 12.6, go to Feature Navigator .
Downloads	To download Virtual Unified CME software and phone firmware files, go to the Cisco Software Download site.
DDTS Information	To find the latest Virtual Unified CME DDTS information, go to Bug Toolkit and search by product, for Cisco Unified Communications Manager Express (Unified CME).

Cisco Unified IP Phone Support*			
Device Type	SCCP Firmware Filename	SIP Firmware Filename	Comments
Cisco ATA 191	--	12_0_1SR1-1	
Cisco ATA-190	--	ATA190.1-2-1(004)	
Cisco ATA-187	--	9.2.2	
Cisco VG350	Cisco IOS Release 15.6(3)M2	--	
Cisco VG320	Cisco IOS Release 15.6(3)M2	--	
Cisco VG310	Cisco IOS Release 15.6(3)M2	--	
Cisco Unified IP Phone 3905	--	APP3905.9-2-1-0.zz CP3905.9-2-1-0.loads	
Cisco Unified IP Phone 3911/3951	--	BOOT3951.0-0-0-9.zz* DSP3951.0-0-0-2.zz SIP3951.8-1-4a.loads SIP3951.8-1-4a.zz	

Cisco Unified IP Phone Support*			
Device Type	SCCP Firmware Filename	SIP Firmware Filename	Comments
Cisco Unified IP Phone 6901/6911	--	APP6901SIP.9-2-1-0.zz.sgn APP6911SIP.9-2-1-0.zz.sgn BFS6911SIP.9-2-1-0.zz.sgn KNL6901SIP.9-2-1-0.zz.sgn KNL6911SIP.9-2-1-0.zz.sgn SIP6901.9-2-1-0.loads SIP6911.9-2-1-0.loads	
Cisco Unified IP Phone 6921/6941/6961	--	BOOT69xx.0-0-0-14.zz.sgn DSP69xx.0-0-0-8.zz.sgn SIP69xx.9-2-1-0.loads SIP69xx.9-2-1-0.zz.sgn	
Cisco Unified IP Phone 6945	--	SIP6945.9-2-1-0.bin1.sgn SIP6945.9-2-1-0.bin2.sgn SIP6945.9-2-1-0.bin3.sgn SIP6945.9-2-1-0.bin4.sgn SIP6945.9-2-1-0.loads	
Cisco Unified IP Phone 7811		kern2.78xx.12-0-1-11.sbn kern78xx.12-0-1-11.sbn rootfs2.78xx.12-0-1-11.sbn rootfs78xx.12-0-1-11.sbn sboot2.78xx.12-0-1-11.sbn sboot78xx.12-0-1-11.sbn sip78xx.12-0-1-11.loads	
Cisco Unified IP Phone 7821		kern2.78xx.12-0-1-11.sbn kern78xx.12-0-1-11.sbn rootfs2.78xx.12-0-1-11.sbn rootfs78xx.12-0-1-11.sbn sboot2.78xx.12-0-1-11.sbn sboot78xx.12-0-1-11.sbn sip78xx.12-0-1-11.loads	

Cisco Unified IP Phone Support*			
Device Type	SCCP Firmware Filename	SIP Firmware Filename	Comments
Cisco IP Conference Phone 7832		kern7832.12-1-1-12.sbn prelo7832.BR-01-06.sbn rootfs7832.12-1-1-12.sbn sboot7832.BR-01-10.sbn sip7832.12-1-1-12.loads	Supported from Unified CME 12.3 (Cisco IOS XE Fuji 16.9.1)
Cisco Unified IP Phone 7841		kern2.78xx.12-0-1-11.sbn kern78xx.12-0-1-11.sbn rootfs2.78xx.12-0-1-11.sbn rootfs78xx.12-0-1-11.sbn sboot2.78xx.12-0-1-11.sbn sboot78xx.12-0-1-11.sbn sip78xx.12-0-1-11.loads	
Cisco Unified IP Phone 7861		kern2.78xx.12-0-1-11.sbn kern78xx.12-0-1-11.sbn rootfs2.78xx.12-0-1-11.sbn rootfs78xx.12-0-1-11.sbn sboot2.78xx.12-0-1-11.sbn sboot78xx.12-0-1-11.sbn sip78xx.12-0-1-11.loads	
Cisco Unified IP Phone 7905	--	-- CP7905080001SIP060412A.zup (unsigned)	
Cisco Unified IP Phone 7906 and 7911	--	SIP11.9-2-1S.loads apps11.9-2-1TH1-13.sbn cnu11.9-2-1TH1-13.sbn cvm11sip.9-2-1TH1-13.sbn dsp11.9-2-1TH1-13.sbn jar11sip.9-2-1TH1-13.sbn term06.default.loads term11.default.loads	

Cisco Unified IP Phone Support*			
Device Type	SCCP Firmware Filename	SIP Firmware Filename	Comments
Cisco Unified IP Phone 7912	--	CP7912080001SIP060412A.sbin	
Cisco Unified IP Phone 7940 and 7960	--	P003-8-12-00.bin P003-8-12-00.sbn POS3-8-12-00.loads* POS3-8-12-00.sb2	
Cisco Unified IP Phone 7941G and 7941G-GE	--	SIP41.9-2-1S.loads apps41.9-2-1TH1-13.sbn cnu41.9-2-1TH1-13.sbn cvm41sip.9-2-1TH1-13.sbn dsp41.9-2-1TH1-13.sbn jar41sip.9-2-1TH1-13.sbn term41.default.loads term61.default.loads	
Cisco Unified IP Phone 7942G and 7962G	--	SIP42.9-2-1S.loads apps42.9-2-1TH1-13.sbn cnu42.9-2-1TH1-13.sbn cvm42sip.9-2-1TH1-13.sbn dsp42.9-2-1TH1-13.sbn jar42sip.9-2-1TH1-13.sbn term42.default.loads term62.default.loads	
Cisco Unified IP Phone 7945G and 7965G	--	SIP45.9-2-1S.loads apps45.9-2-1TH1-13.sbn cnu45.9-2-1TH1-13.sbn cvm45sip.9-2-1TH1-13.sbn dsp45.9-2-1TH1-13.sbn jar45sip.9-2-1TH1-13.sbn term45.default.loads term65.default.loads	
Cisco Unified IP Phone 7961G and 7961G-GE	--	SIP41.9-2-1S.loads apps41.9-2-1TH1-13.sbn cnu41.9-2-1TH1-13.sbn cvm41sip.9-2-1TH1-13.sbn dsp41.9-2-1TH1-13.sbn jar41sip.9-2-1TH1-13.sbn term41.default.loads term61.default.loads	

Cisco Unified IP Phone Support*			
Device Type	SCCP Firmware Filename	SIP Firmware Filename	Comments
Cisco Unified IP Phone 7970G and 7971G	--	SIP70.9-2-1S.loads apps70.9-2-1TH1-13.sbn cnu70.9-2-1TH1-13.sbn cvm70sip.9-2-1TH1-13.sbn dsp70.9-2-1TH1-13.sbn jar70sip.9-2-1TH1-13.sbn term70.default.loads term71.default.loads	
Cisco Unified IP Phone 7975G	--	SIP75.9-2-1S.loads apps75.9-2-1TH1-13.sbn cnu75.9-2-1TH1-13.sbn cvm75sip.9-2-1TH1-13.sbn dsp75.9-2-1TH1-13.sbn jar75sip.9-2-1TH1-13.sbn term75.default.loads	
Cisco Unified IP Phone 8811	--	boot1288xx.BE-01-007.sbn fbi88xx.BE-01-010.sbn kern88xx.12-0-1-11.sbn kern288xx.12-0-1-11.sbn m0patch288xx.BE-01-001.sbn rootfs88xx.12-0-1-11.sbn rootfs288xx.12-0-1-11.sbn sb288xx.BE-01-024.sbn sb2288xx.BE-01-010.sbn sip88xx.12-0-1-11.loads ssb288xx.BE-01-005.sbn vc488xx.12-0-1-11.sbn	
Cisco Unified IP Phone 8821		dtblob8821.HE-01-005.sbn fbi8821.HE-01-010.sbn kern8821.11-0-3SR6-15.sbn rootfs8821.11-0-3SR6-15.sbn sb28821.HE-01-020sbn sip8821.11-0-3SR6-15.loads vc48821.11-0-3SR6-15.sbn	
Cisco Unified IP Phone 8831	--	kern8831.10-3-1SR3-5.sbn rootfs8831.10-3-1SR3-5.sbn sboot8831.10-3-1SR3-5.sbn sip8831.10-3-1SR3-5.loads	
Cisco IP Conference Phone 8832		kern8832.12-1-1-23.sbn loader8832.VO-01-003.sbn rootfs8832.12-1-1-23.sbn sb28832.VO-01-015.sbn sip8832.12-1-1-23.loads	

Cisco Unified IP Phone Support*			
Device Type	SCCP Firmware Filename	SIP Firmware Filename	Comments
Cisco Unified IP Phone 8841	--	boot1288xx.BE-01-007.sbn fbi88xx.BE-01-010.sbn kern88xx.12-0-1-11.sbn kern288xx.12-0-1-11.sbn m0patch288xx.BE-01-001.sbn rootfs88xx.12-0-1-11.sbn rootfs288xx.12-0-1-11.sbn sb288xx.BE-01-024.sbn sb2288xx.BE-01-010.sbn sip88xx.12-0-1-11.loads ssb288xx.BE-01-005.sbn vc488xx.12-0-1-11.sbn	
Cisco Unified IP Phone 8845		fbi8845_65.BEV-01-006.sbn kern8845_65.12-0-1-11.sbn rootfs8845_65.12-0-1-11.sbn sb28845_65.BEV-01-015.sbn sip8845_65.12-0-1-11.loads vc48845_65.12-0-1-11.sbn	
Cisco Unified IP Phone 8851	--	sip88xx.12-1-1-12.loads boot1288xx.BE-01-007.sbn fbi88xx.BE-01-010.sbn kern88xx.12-1-1-12.sbn kern288xx.12-1-1-12.sbn m0patch288xx.BE-01-001.sbn rootfs88xx.12-1-1-12.sbn rootfs288xx.12-1-1-12.sbn sb288xx.BE-01-024.sbn sb2288xx.BE-01-013.sbn ssb288xx.BE-01-007.sbn vc488xx.12-1-1-12.sbn ciscoheadsetfirmware.xml Cisco_Creek_Patch.ptc	
Cisco Unified IP Phone 8851NR	--	sip88xx.12-1-1-12.loads boot1288xx.BE-01-007.sbn fbi88xx.BE-01-010.sbn kern88xx.12-1-1-12.sbn kern288xx.12-1-1-12.sbn m0patch288xx.BE-01-001.sbn rootfs88xx.12-1-1-12.sbn rootfs288xx.12-1-1-12.sbn sb288xx.BE-01-024.sbn sb2288xx.BE-01-013.sbn ssb288xx.BE-01-007.sbn vc488xx.12-1-1-12.sbn ciscoheadsetfirmware.xml Cisco_Creek_Patch.ptc	

Cisco Unified IP Phone Support*			
Device Type	SCCP Firmware Filename	SIP Firmware Filename	Comments
Cisco Unified IP Phone 8861	--	boot1288xx.BE-01-007.sbn fbi88xx.BE-01-010.sbn kern288xx.12-1-1-12.sbn kern88xx.12-1-1-12.sbn m0patch288xx.BE-01-001.sbn rootfs288xx.12-1-1-12.sbn rootfs88xx.12-1-1-12.sbn sb2288xx.BE-01-013.sbn sb288xx.BE-01-024.sbn sip88xx.12-1-1-12.loads ssb288xx.BE-01-007.sbn vc488xx.12-1-1-12.sbn ciscoheadsetfirmware.xml Cisco_Creek_Patch.ptc	
Cisco Unified IP Phone 8865		fbi8845_65.BEV-01-006.sbn kern8845_65.12-1-1-12.sbn rootfs8845_65.12-1-1-12.sbn sb28845_65.BEV-01-015.sbn sip8845_65.12-1-1-12.loads vc48845_65.12-1-1-12.sbn ciscoheadsetfirmware.xml Cisco_Creek_Patch.ptc	
Cisco Unified IP Phone 8941/8945	--	BOOT894x.0-0-0-9.bin.sgn SIP894x.9-2-2-0.bin1.sgn SIP894x.9-2-2-0.bin2.sgn SIP894x.9-2-2-0.bin3.sgn SIP894x.9-2-2-0.bin4.sgn SIP894x.9-2-2-0.bin5.sgn SIP894x.9-2-2-0.bin6.sgn SIP894x.9-2-2-0.bin7.sgn SIP894x.9-2-2-0.bin8.sgn SIP894x.9-2-2-0.bin9.sgn SIP894x.9-2-2-0.loads	
Cisco Unified IP Phone 8961	--	dkern8961.100609R2-9-2-2SR1-9.sebn kern8961.9-2-2SR1-9.sebn rootfs8961.9-2-2SR1-9.sebn sboot8961.031610R1-9-2-2SR1-9.sebn sip8961.9-2-2SR1-9.loads skern8961.022809R2-9-2-2SR1-9.sebn	

Cisco Unified IP Phone Support*			
Device Type	SCCP Firmware Filename	SIP Firmware Filename	Comments
Cisco Unified IP Phone 9951	--	dkern9951.100609R2-9-2-2SR1-9.sebn kern9951.9-2-2SR1-9.sebn rootfs9951.9-2-2SR1-9.sebn sboot9951.031610R1-9-2-2SR1-9.sebn sip9951.9-2-2SR1-9.loads skern9951.022809R2-9-2-2SR1-9.sebn	
Cisco Unified IP Phone 9971	--	dkern9971.100609R2-9-2-2SR1-9.sebn kern9971.9-2-2SR1-9.sebn rootfs9971.9-2-2SR1-9.sebn sboot9971.031610R1-9-2-2SR1-9.sebn sip9971.9-2-2SR1-9.loads skern9971.022809R2-9-2-2SR1-9.sebn	
Cisco DX650	--	10.1(2.41)	
KEM Module**	--	SIP9971.9-2-3-27.loads SIP9951.9-2-3-27.loads SIP8961.9-2-3-27.loads For 8851/8851NR/8861/8865 support of KEM, refer the firmware information provided against the respective device type.	
Cisco Unified Video Advantage	Cisco Unified Video Advantage 1.0(2), 2.0 and higher supported with Cisco Unified IP Phone 7931, 794X, 796X, and 797X, and Cisco IP Communicator.		
* The firmware information provided in the table specifies the minimum recommended version supported for the release. Later versions are also supported, unless otherwise specified.			
** For more information on KEM Module Support on Unified CME, see KEM Support for Cisco Unified SIP IP Phones .			

Supported Platforms and Memory Specifications: SIP IP Phones*									
Cisco Platform	Resource Profile	Hypervisor	vCPU	Maximum Total IP Phones ¹	Maximum SIP IP Phones	Active Calls Supported	Hard Disk	Recommended Memory	Recommended Flash Memory
Cisco CSR	Small	ESXi 6.5.0	1	450	450	120	8 GB	4 GB	8 GB

1000V Series Routers	Medium	ESXi 6.5.0	2	450	450	120	8 GB	4 GB	8 GB
	Large	ESXi 6.5.0	4	450	450	120	8 GB	4 GB	8 GB
	Large plus Extra RAM	ESXi 6.5.0	4	450	450	120	8 GB	8 GB	8 GB

* These memory recommendations and maximum numbers of IP phones are for common Virtual CME configurations only. Systems with large numbers of phones and complex configurations may require additional memory or a higher performance platform.

1. Total number of connected IP phones cannot exceed Maximum Total listed including SCCP and SIP phones on the same router.

Note: The CPU utilization for Virtual CME with 120 calls for basic call, hold/resume as well as supplementary service scenarios is within the 70 percentage range.

Note: The SCCP endpoints supported on Virtual CME (Cisco VG 350, 320 and 310) are validated only for registration (450) with Virtual CME.

Note: For Virtual CME, you will have to configure a maximum throughput value of 100 Mbps. This value could be lesser based on the number of active calls and system codecs applicable. For information on throughput licenses, see [Changing Throughput Licenses](#).

Compatible Voice Products		
Product Name	Version	Comments
Cisco Unified Communications Manager	--	See the Cisco Unified Communications Manager compatibility information .
Unified CME Telephony Service Provider (TSP)	2.2.0.4	Compatible with Unified CME 7.0 using Cisco IOS Release 12.4(20)T1 or a later release. Provides support for Windows Vista.
Cisco Unity Connection	--	See Unity Connection System Requirements Document .
Cisco Unity Express	--	See the Cisco Unity Express Compatibility matrix .
Cisco VG310, VG320, VG350	Cisco IOS Release 15.6(3)M2 (for VG310, VG320, VG350)	Verified with SCCP analog ports.

Obtain Documentation and Submit a Service Request

For information on obtaining documentation, using the Cisco Bug Search Tool (BST), submitting a service request, and gathering additional information, see [What's New in Cisco Product Documentation](#).

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