

	Restrictions	V8.0 Ma P00	V7.6 Ma P01	V7.5 Ma P01
Hardware / Software Requirements				
Product Status		Main Release	Patch Release	End of Engineering (ab 29.07.2022)
Minimum requirement for server				
CPU		Dual-Core Intel® 2 GHz	Dual-Core Intel® 2 GHz	Dual-Core Intel® 2 GHz
Memory		24 GB	12 GB	6 GB
Recommended for server				
CPU		Quad-Core Intel® 3 GHz	Quad-Core Intel® 3 GHz	Quad-Core Intel® 3 GHz
Memory		48 GB	16 GB	12 GB
Minimum requirement for client				
CPU		Dual-Core Intel® 2 GHz	Dual-Core Intel® 2 GHz	Dual-Core Intel® 2 GHz
Memory		12 GB	8 GB	4 GB
Recommended for client				
CPU		Dual-Core Intel® 3 GHz	Dual-Core Intel® 3 GHz	Dual-Core Intel® 3 GHz
Memory		16 GB	12 GB	8 GB
Virtualisationplatform				
VMware ESXi		6.0, 6.7	6.0, 6.7	5.1, 5.5, 6.0
Vmware Server		auf Anfrage	auf Anfrage	auf Anfrage
Vmware vSphere		auf Anfrage	auf Anfrage	auf Anfrage
Network bandwidth between server / client		1 Gbit	1 Gbit	100 Mbit
Minimum Screen Resolution		1280 x 1024	1280 x 1024	1280 x 1024
Minimum Requirement Replication				
Network bandwidth between server / client & Server / Server		1'000 Mbit	1'000 Mbit	100 Mbit
Response time between Server / Client & Server / Server		5 Ms	5 Ms	5 Ms

Higher hardware requirements apply for hospitals or above 3000 Ports. (e.g RAID Controller incl. BBWC option)

Operating Systems

Server				
Windows Server 2008 R2 (64 Bit)		-	-	x
Windows Server 2008 R2 SP1 (64 Bit)		-	x	x
Windows Server 2012 Foundation / Essentials / Standard	PDF Help	x	x	x
Windows Server 2012 R2 Foundation / Essentials / Standard	PDF Help	x	x	x
Windows Server 2016	PDF Help	x	-	-
Windows Server 2019	PDF Help	x	-	-
Client				
Windows 7 SP1 Professional / Ultimate (32 Bit)		-	x	x
Windows 7 Professional / Ultimate (64 Bit)		-	x	x
Windows 8.1 Pro / Enterprise		-	x	x
Windows 10 Pro / Enterprise	PDF Help	x	x	x
CitrixServer ³⁾		x	x	x
Windows Terminal Server and Remote Desktop		x	x	x

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Features				
Application Language		D/F/E/I	D/F/E/I	D/F/E/I
Multitenant	CM / DM / HC	x	x	x
Replication (Double-Take® for Windows Server)		x	x	x
Account Management				
Siemens HiPath 4000		-	-	x
Siemens Hicom		-	-	x
Workflow Management		-	-	-

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Features with Avaya Aura CM				
Account Management				
People / sets billing		X	X	X
Account billing		X	X	X
Import rating models		X	X	X
Export of call charge data		X	X	X
Charge extended benefits		X	X	X
Configuration Management				
Terminal programming		X	X	X
Site management		X	X	X
Pickup Group management		-	-	-
Hunt Group management	ab AES 6.3	-	-	-
Speed Dial lists management	ab AES 6.3	X	X	X
Off-PBX Telephone Integration	EC500 ab AES 6.3	-	-	-
Terminal move across vendor		X	X	X
Session Manager: Call Routing, SIP User	2008 R2 & IE9.0	X	X	X
Network management in the mixed PBX group		X	X	X
ENUM DNS data Management		X	X	X
Voice-Mailbox management on Modular- and Aura Messaging	für ACM Endgeräte	-	-	-
Call party name display programming		X	X	X
Central phone directory		-	-	-
Mass mutation		-	-	-
Directory Management				
IP-Attendant	- ohne H.323 1X-Softclient - ohne Avaya 8.x Release	-	-	X
Busy indicator	ohne 3rd SIP	-	-	X
Switch to public network	H323 Verschlüsselung auf AES wird nicht unterstützt	-	-	X
IP-Attendant statistics		-	-	X
Remote call forwarding		-	-	-
LDAPInterface (read / write)		X	X	X
Absences from MS Exchange		X	X	X
Absences participants groups		X	X	X
Talkbase				
tb-Based Console		X	X	X
Switchboard Statistics		X	X	X
Interface SQL		X	X	X
Health Care				
Patients / tenant management	nur für analoge Endgeräte	X	X	X
Interface to third-party systems (ASCII & HL7)		X	X	X
Interface to MSSQL-DB (internal PB)		X	X	X
Interruption of calls		-	-	-
Balance and state request		X	X	X
Play announcement		-	-	-
TV-accounting		X	X	X
Support of Trifact pay machine		X	X	X
Fault Management				
SNMP Receiver ¹⁾	1)	-	X	X
Performance Management				
		-	-	-
Inventory Management				
		X	X	X

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Web Client				
Subscriber data		-	x	x
Web reporting		-	-	-
Configuration Management		-	-	-

Compatibility with Avaya Aura CM

Avaya Aura Communication Manager	7.0_Kompatibilität, 7.1, 8.0, 8.1_Kompatibilität	6.3, 7.0_Kompatibilität, 7.1, 8.0_Kompatibilität	6.2_Kompatibilität, 6.3, 7.0_Kompatibilität, 7.1_Kompatibilität
AES	7.0_Kompatibilität, 7.1, 8.0, 8.1_Kompatibilität	6.3, 7.0_Kompatibilität, 7.1, 8.0_Kompatibilität	6.1, 6.2_Kompatibilität, 6.3, 7.0_Kompatibilität, 7.1_Kompatibilität
Session Manager	7.0_Kompatibilität, 7.1, 8.0, 8.1_Kompatibilität	6.3_Kompatibilität, 7.0_Kompatibilität, 7.1, 8.0_Kompatibilität	6.1, 7.0_Kompatibilität, 7.1_Kompatibilität
System Manager	7.0_Kompatibilität, 7.1, 8.0, 8.1_Kompatibilität	6.3, 7.0_Kompatibilität, 7.1, 8.0_Kompatibilität	6.1, 6.2_Kompatibilität, 6.3, 7.0_Kompatibilität, 7.1_Kompatibilität
Presence Services	-	-	-
Aura Messaging - MSS	-	-	-
Modular Messaging - MSS	-	-	-
Avaya IP DECT	-	R4	R4
IP-Phones (H.323 Protokoll)	1603, 1608, 1616, 16CC, 4620, 4625, 9608, 9610, 9611, 9620, 9621, 9630, 9640, 9641, 9650, CTI	1603, 1608, 1616, 16CC, 4620, 4625, 9608, 9610, 9611, 9620, 9621, 9630, 9640, 9641, 9650, CTI	1603, 1608, 1616, 16CC, 4620, 4625, 9608, 9610, 9611, 9620, 9621, 9630, 9640, 9641, 9650, CTI
IP-Phones (SIP Protokoll)	4620SIP, 9601, 9601+, 9600SIP, 9608SIP, 9608SIPCC, 9611SIP, 9611SIPCC, 9620SIP, 9621SIP, 9621SIPCC, 9630SIP, 9640SIP, 9641SIP, 9641SIPCC, 9650SIP J129, J139, J169, J179	4620SIP, 9601, 9601+, 9600SIP, 9608SIP, 9608SIPCC, 9611SIP, 9611SIPCC, 9620SIP, 9621SIP, 9621SIPCC, 9630SIP, 9640SIP, 9641SIP, 9641SIPCC, 9650SIP J129, J139, J169	4620SIP, 9601, 9601+, 9600SIP, 9608SIP, 9608SIPCC, 9611SIP, 9611SIPCC, 9620SIP, 9621SIP, 9621SIPCC, 9630SIP, 9640SIP, 9641SIP, 9641SIPCC, 9650SIP
Digital-Phones	1408, 1416, 2410, 2420, 9404, 9408	1408, 1416, 2410, 2420, 9404, 9408	1408, 1416, 2410, 2420, 9404, 9408
Analog-Phones	2500	2500	2500
Gateways			
DECT	X-Mobile	X-Mobile	X-Mobile
Add-on Module	BM32, EU24, SBM24	BM32, EU24, SBM24	BM32, EU24, SBM24

	Restrictions	V8.0 Ma P00	V7.6 Ma P01	V7.5 Ma P01
Features with Cisco UCM				
Account Management				
People / sets billing		X	X	X
Account billing		X	X	X
Import rating models		X	X	X
Export of call charge data		X	X	X
Charge extended benefits		X	X	X
Configuration Management				
Terminal programming		X	X	X
Intercom object management		X	X	X
Hunt-Group management		-	-	-
Pickup-Gruppen management		-	-	-
Local End User management	ab CUCM 9.1	X	X	X
Remote Destination Profile und Remote Destination management		X	X	X
Site management		X	X	X
Terminal move across vendor		X	X	X
Network management in the mixed PBX group		X	X	X
ENUM DNS data Management		X	X	X
Voice-Mailbox management on Untity Connection		X	X	X
Call party name display programming		X	X	X
Central phone directory		-	-	-
Call number administration		X	X	X
Mass mutation		-	-	-
Directory Management				
IP-Attendant	CUCM Endgeräte mit SCCP/SIP Protokoll. SIP ab 7.4	-	-	X
Audio Notification	Codec: G.711 µ-Law, G.711 A-Law, G723, G729 Packetization: 30 msec	-	-	X
Busy indicator		-	-	X
Presence information	CUP with 1 SIP domain ohne 3rd SIP	-	-	X
Switch to public network		-	-	X
Remote call forwarding		-	-	X
Support of JTAPI 3rd party		-	-	X
LDAPInterface (read / write)		X	X	X
Absences from MS Exchange		X	X	X
Absences participants groups		X	X	X
Periodic absences per person		X	X	X
Talkbase				
tb-Based Console		X	X	X
Switchboard Statistics		X	X	X
Interface SQL		X	X	X
Health Care				
Patients / tenant management		X	X	X
Interface to third-party systems (ASCII & HL7)		X	X	X
Interface to MSSQL-DB (internal PB)		X	X	X
Interruption of calls		-	-	-
Balance and state request		X	X	X
Play announcement		-	-	-
TV-accounting		X	X	X
Support of Trifact pay machine		X	X	X
Fault Management				
SNMP Receiver ¹⁾	1)	-	X	X
Syslog Receiver	RFC 5426	-	X	X

	Restrictions	V8.0 Ma P00	V7.6 Ma P01	V7.5 Ma P01
Performance Management		-	-	-
Inventory Management		x	x	x
Web Client				
Subscriber data		-	x	x
Web reporting		-	-	-
Configuration Management		-	-	-

Compatibility with Cisco UCM

Cisco Unified Communications Manager		10.5, 11.5, 12.5	9.1, 10.5, 11.5, 12.0_Kompatibilität	9.1, 10.5, 11.5_Kompatibilität ab HF53
Cisco Unity Connection	nur für CUCM Endgeräte	10.5, 11.5, 12.5_Kompatibilität	9.1, 10.5, 11.5, 12.0_Kompatibilität	9.1, 10.5
Cisco Unified Presence		-	9.1, 10.5, 11.5, 12.0_Kompatibilität	9.1, 10.5
IP-Phones (SCCP Protokoll)		Cisco: 6901, 6911, 6921, 6941, 6945, 6961, 7811, 7902, 7905, 7906, 7910, 7911, 7912, 7920, 7921, 7925, 7926, 7931, 7935, 7936, 7937, 7940, 7941, 7941G-GE, 7942, 7945, 7960, 7961, 7961G-GE, 7962, 7965, 7970, 7971, 7975, 7985, 8941, 8945, ATA_186, ATA_191 Analog Phone, CTI Port, IP-STE	Cisco: 6901, 6911, 6921, 6941, 6945, 6961, 7811, 7902, 7905, 7906, 7910, 7911, 7912, 7920, 7921, 7925, 7926, 7931, 7935, 7936, 7937, 7940, 7941, 7941G-GE, 7942, 7945, 7960, 7961, 7961G-GE, 7962, 7965, 7970, 7971, 7975, 7985, 8941, 8945, ATA_186, Analog Phone, CTI Port, IP-STE	Cisco: 6901, 6911, 6921, 6941, 6945, 6961, 7811, 7902, 7905, 7906, 7910, 7911, 7912, 7920, 7921, 7925, 7926, 7931, 7935, 7936, 7937, 7940, 7941, 7941G-GE, 7942, 7945, 7960, 7961, 7961G-GE, 7962, 7965, 7970, 7971, 7975, 7985, 8941, 8945, ATA_186, Analog Phone, CTI Port, IP-STE
IP-Phones (SIP Protokoll)		Cisco: 3905, 6901, 6911, 6921, 6941, 6945, 6961, 7821, 7841, 7861, 7911, 7931, 7940, 7942, 7945, 7962, 7965, 7971, 7975, 8811, 8821, 8831, 8841, 8851, 8861, 8941, 8945, 8961, 9951, 9971, ATA_187, ATA_190, ATA_191, Unified Client Services Framework, Dual Mode for iPhone, Dual Mode for Android, Jabber for Tablet, E20 Third Party SIP Device: Basic &Advanced	Cisco: 3905, 6901, 6911, 6921, 6941, 6945, 6961, 7821, 7841, 7861, 7911, 7931, 7940, 7942, 7945, 7962, 7965, 7971, 7975, 8811, 8821, 8831, 8841, 8851, 8861, 8941, 8945, 8961, 9951, 9971, ATA_187, ATA_190, ATA_191, Unified Client Services Framework, Dual Mode for iPhone, Dual Mode for Android, Jabber for Tablet, E20 Third Party SIP Device: Basic &Advanced	Cisco: 3905, 6901, 6911, 6921, 6941, 6945, 6961, 7821, 7841, 7861, 7911, 7931, 7940, 7942, 7945, 7962, 7965, 7971, 7975, 8811, 8821, 8831, 8841, 8851, 8861, 8941, 8945, 8961, 9951, 9971, ATA_187, ATA_190, ATA_191, Unified Client Services Framework, Dual Mode for iPhone, Dual Mode for Android, Jabber for Tablet, E20 Third Party SIP Device: Basic &Advanced
IP-Softphone Client (SCCP Protokoll)		IP_Communicator	IP_Communicator	IP_Communicator

	Restrictions	V8.0 Ma P00	V7.6 Ma P01	V7.5 Ma P01
IP-Softphone Client (SIP Protokoll)		Unified Mobile Communicator (<CUCM 10.0), Unified Personal Communicator	Unified Mobile Communicator (<CUCM 10.0), Unified Personal Communicator	Unified Mobile Communicator (<CUCM 10.0), Unified Personal Communicator
Add-on Module		Cisco: 7914, 7915, 7916, 8800, 8900, 9900, CKEM	Cisco: 7914, 7915, 7916, 8800, 8900, 9900, CKEM	Cisco: 7914, 7915, 7916, 8800, 8900, 9900, CKEM
Voice Gateways	ab CUCM 8.5 mit SCCP Protokoll	VG202, VG204, VG224, VG248, VG310, VG320, VG350, VG450	VG202, VG204, VG224, VG248, VG350	VG202, VG204, VG224, VG248, VG350

	Restrictions	V8.0 Ma P00	V7.6 Ma P01	V7.5 Ma P01
Features with Avaya CS1000				
Account Management				
Person / equipment / account billing		x	x	x
Import rating models		x	x	x
Export of call charge data		x	x	x
Charge extended benefits		x	x	x
Configuration Management				
Network		x	x	x
S0 management		x	x	x
Programming of lists		x	x	x
Pilot telephone number management (OVL 57)		x	x	x
Terminal programming (OVL 10 & 11)		x	x	x
Account programming (OVL 88)		x	x	x
Time synchronization (OVL 2) ⁶⁾	6)	x	x	x
Pager management (multiple node)		x	x	x
NRS (Gatekeeper) management		x	x	x
TDM / IP Terminal Converter		-	-	-
Terminal move across vendor		x	x	x
Virtual node and phone		x	x	x
Site management		x	x	x
Data Import Move&Change		x	x	x
Branch Office		x	x	x
Mass mutation		x	x	x
Directory Management				
Health Care support		x	x	x
Support of TAPI 1st and 3rd party		-	-	-
LDAPInterface (read / write)		x	x	x
Absences from MS Exchange		x	x	x
PC attendant console with M2250 and CIU box ⁴⁾		x	x	x
Busy status indicator network		x	x	x
Emergency console with M2250 and CIU box		x	x	x
Remote call forwarding		-	-	-
Absences participants groups		x	x	x
Periodic absences per person		x	x	x
Health Care				
Patients / tenant management		x	x	x
Interface to third-party systems (ASCII & HL7)		x	x	x
Interruption of calls		-	-	-
Balance and state request		x	x	x
Play announcement		-	-	-
Billing of TV costs via Trinity/Trifon		x	x	x
Support of Trifact pay machine		x	x	x
Performance Management				
Traffic (OVL 2 data)		x	x	x
Traffic (TFS016, TFC012, TFC102)		x	x	x
Statistics (call charge data)		x	x	x
Fault Management				
Receipt over SDI		x	x	x
Receipt over SNMP (CS1000 ,NRS, Signaling S ¹⁾	1)	-	x	x
Inventory Management		V3.2.1143	V3.2.1143	V3.2.1143

	Restrictions	V8.0 Ma P00	V7.6 Ma P01	V7.5 Ma P01
Web Client				
Subscriber data		-	x	x
Web reporting		-	-	-
Configuration Management		-	-	-

Compatibility with Avaya CS1000

Meridian Software	20, 21, 22, 23, 24, 25.14, 25.40	20, 21, 22, 23, 24, 25.14, 25.40	20, 21, 22, 23, 24, 25.14, 25.40
Communication Server 1000 Software	4.0, 4.5, 5.0, 5.5, 6.0, 7.0, 7.5, 7.6	4.0, 4.5, 5.0, 5.5, 6.0, 7.0, 7.5, 7.6	4.0, 4.5, 5.0, 5.5, 6.0, 7.0, 7.5, 7.6
NRS (Gatekeeper) Software (VxWorks)	3.0, 4.5, 5.0, 5.5	3.0, 4.5, 5.0, 5.5	3.0, 4.5, 5.0, 5.5
NRS (Gatekeeper) Software (Linux)	5.0, 5.5, 6.0, 7.0, 7.5	5.0, 5.5, 6.0, 7.0, 7.5	5.0, 5.5, 6.0, 7.0, 7.5
Hardware	Opt 11E, Opt 11C, Opt 11 Mini, M51, M61, M71, M81, M51C, M61C, M81C, CS1000	Opt 11E, Opt 11C, Opt 11 Mini, M51, M61, M71, M81, M51C, M61C, M81C, CS1000	Opt 11E, Opt 11C, Opt 11 Mini, M51, M61, M71, M81, M51C, M61C, M81C, CS1000
System Sets	2006, 2008, 2216, 2616, 3110, 3310, 3820, 3901, 3902, 3903, 3904, 3905	2006, 2008, 2216, 2616, 3110, 3310, 3820, 3901, 3902, 3903, 3904, 3905	2006, 2008, 2216, 2616, 3110, 3310, 3820, 3901, 3902, 3903, 3904, 3905
DECT	DCS	DCS	DCS
Virtual Office	3903H, 3903V, 3904H, 3904V	3903H, 3903V, 3904H, 3904V	3903H, 3903V, 3904H, 3904V
Remote Office	x	x	x
Branch Office	x (ohne SRG und BCM)	x (ohne SRG und BCM)	x (ohne SRG und BCM)
IP Phones	i2001, i2002, i2004, 2050, 2007, 1110, 1120, 1140, 1150E, 1165, 1210, 1220, 1230, 2033, 3456	i2001, i2002, i2004, 2050, 2007, 1110, 1120, 1140, 1150E, 1165, 1210, 1220, 1230, 2033, 3456	i2001, i2002, i2004, 2050, 2007, 1110, 1120, 1140, 1150E, 1165, 1210, 1220, 1230, 2033, 3456
WLAN-Phones	2210, 2211, 2212, 6120, 6140	2210, 2211, 2212, 6120, 6140	2210, 2211, 2212, 6120, 6140
Add-on Module	AOM, KBA, DBA, KEM, KEM11xx, KEM12xx	AOM, KBA, DBA, KEM, KEM11xx, KEM12xx	AOM, KBA, DBA, KEM, KEM11xx, KEM12xx
Mobile Extension	UEXT / MOBX	UEXT / MOBX	UEXT / MOBX
SIP DECT	UEXT / SIPN	UEXT / SIPN	UEXT / SIPN
3rd party SIP clients	UEXT / UXTY SIP3	UEXT / UXTY SIP3	UEXT / UXTY SIP3
Meridian Mail	Rel 13	Rel 13	Rel 13
Attendant 1250	-	-	-
Attendant 2250	x	x	x
CTI Adapter ⁵⁾	-	-	-
MCA Adapter	-	-	-
CIU Interface	x	x	x
Connection via ELAN for Configuration Management	x	x	x
ELAN security	x	x	x

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Compatibility with Third-Party Hardware				
MI 400 / 800 / 1013		V 1.32	V 1.32	V 1.32
MI 2014 (mode 2D and 1M)		V 2.23	V 2.23	V 2.23
MI-2014 with SSH-encoding	ab Windows Server 2008	V SSH_2.26 R2.17	V SSH_2.26 R2.17	V SSH_2.26 R2.17
MI 2014 (mode 2D and 1M)	ab Windows Server 2008	1.52	1.52	1.52
AI 3014		2.1	2.1	2.1
Siemens Hicom		-	-	x
Siemens HiPath 4000		-	-	UV.2.0
Trifon Cashpoint		V 1.13.16	V 1.13.16	V 1.13.16

Compatibility with Third-Party Software

Avionic Server		-	V 2.1.0.80	V 2.1.0.80
Chameleon		5.0, 5.6, 6.1	5.6, 5.0	5.6, 5.0
Double-Take ® for Windows Server		5.3, 7.0	5.3, 7.0	5.3, 7.0
Firefox		27.0, 37.0	27.0, 37.0	27.0, 37.0
Internet Explorer		-	9, 10, 11	9, 10, 11
JBoss Application Server 4.2.0.GA		6.1.1.Final	6.1.1.Final	6.1.1.Final
List & Label		25	20	20
Microsoft .NET Framework		4.7.2	4.7.2	4.0
Microsoft Exchange Server		2013, 2016	2010_SP3, 2013, 2016	2010_SP3, 2013, 2016
Microsoft Lync		-	-	-
Microsoft Skype for Business		-	-	-
Microsoft Outlook		2013 / 2016	2010 / 2013 / 2016	2007 / 2010
O&O Defrag Server Edition		18, 19, 21	18, 19, 21	17, 18, 19
Objectivity		12.5.6	11.2.7	11.2.7
Trifon Server		V 2.12.14.17	V 2.12.14.17	V 2.12.14.17
Trinity Server		x	x	x
Winpage		-	-	-
Transport Layer Security (TLS)		1.0, 1.2	1.0, 1.2	1.0

- 1) List of supported devices can be obtained from FROX AG.
- 2) Only for single-station systems.
- 3) Attendant Support supports only outgoing calls. CTIA adapter and the caller ID recognition function are not supported.
- 4) This functionality is not available with Citrix.
- 5) CTIA Adapter with installed KBA is not any more supported from release CS1000 5.0
- 6) This functionality is not any more supported from release 6.0 on CS1000 CoRes Systems

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