# Beveiligde communicatie tussen CMS en CUCM inschakelen

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Gebruikte componenten
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Beveiligde communicatie tussen CMS en CUCM/IMP-server inschakelen
CUCM-specifieke configuratie voor delen van aanwezigheid tussen Webapp en Jabber-client
Verifiëren

# Inleiding

Dit document beschrijft hoe u de communicatie tussen de Cisco Meeting Server (CMS) en Cisco Unified Communications Manager (CUCM) kunt inschakelen.

# Voorwaarden

## Vereisten

Cisco raadt kennis van de volgende onderwerpen aan:

- CMS versie 3.8 en hoger
- CUCM en IM&P
- Jabber

## Gebruikte componenten

De informatie in dit document is gebaseerd op de volgende software- en hardware-versies:

- CMS versie 3.8
- CUCM en IM&P 14 SU (3)

De informatie in dit document is gebaseerd op de apparaten in een specifieke laboratoriumomgeving. Alle apparaten die in dit document worden beschreven, hadden een opgeschoonde (standaard)configuratie. Als uw netwerk live is, moet u zorgen dat u de potentiële impact van elke opdracht begrijpt.

# Achtergrondinformatie

Dit document schetst het proces voor het opzetten van beveiligde communicatie tussen CMS en CUCM voor het delen van de aanwezigheid van Jabber/Web app. Het legt de gedetailleerde stappen uit voor het configureren en oplossen van problemen van de updatestatus van Jabber-gebruikers tijdens web app vergaderingen op het CMS. De Meeting Server kan worden geconfigureerd om de aanwezigheidsstatus van Jabber-gebruikers bij te werken terwijl zij zich bezighouden met een Cisco Meeting Server web app vergadering.

# Configureren

## Beveiligde communicatie tussen CMS en CUCM/IMP-server inschakelen

Log in CUCM op de OS admin pagina, navigeer naar Security > Certificate Management, en download het TOMCATcertificaat.

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Show - Settin	gs • Security • Software Upgrades • Services • Help •							
Certificate Lis	t							
Generate S	elf-signed 斗 Upload Certificate/Certificate chain 🔋 Generate CSR 🔋	Reuse Ce	ertificate					
CAPF-trust	High_Assurance_SUDI_CA_0a6475524cd8617c62	Trust	CA- signed	RSA	High_Assurance_SUDI_CA	Cisco_Root_CA_2099	08/10/2099	This certificate was used to sign the MIC installed on Cisco en Presence of this certificate allows the end point to communica' securely with UCM using the MIC when associated with a secu
CAPF-trust	Cisco_Basic_Assurance_Root_CA_2099_01a65af15ee994ebe1	Trust	Self- signed	RSA	Cisco_Basic_Assurance_Root_CA_2099	Cisco_Basic_Assurance_Root_CA_2099	05/27/2099	This certificate was used to sign the MIC installed on Cisco en Presence of this certificate allows the end point to communica securely with UCM using the MIC when associated with a secu
CAPF-trust	CAPE-4c15e524	Trust	Self- signed	RSA	CAPF-4c15e524	CAPF-4c15e524	05/07/2028	
CAPF-trust	Cisco_Boot_CA_M2_01	Trust	Self- signed	RSA	Cisco_Root_CA_M2	Cisco_Root_CA_M2	11/12/2037	This certificate was used to sign the MIC installed on Cisco en Presence of this certificate allows the end point to communical securely with UCM using the MIC when associated with a secu
CAPF-trust	Cisco_Root_CA_2099_019a335878ce16c1c1	Trust	Self- signed	RSA	Cisco_Root_CA_2099	Cisco_Root_CA_2099	08/10/2099	This certificate was used to sign the MIC installed on Cisco en Presence of this certificate allows the end point to communical securely with UCM using the MIC when associated with a secu
CAPF-trust	Cisco_Manufacturing_CA_SHA2_02	Trust	CA- signed	RSA	Cisco_Manufacturing_CA_SHA2	Cisco_Root_CA_M2	11/12/2037	This certificate was used to sign the MIC installed on Cisco en Presence of this certificate allows the end point to communical securely with UCM using the MIC when associated with a secu
ipsec	cucm14test.test.com_6dffacb16e53663f3d9af4a66f355758	Identity	Self- signed	RSA	cucm14test.test.com	cucm14test.test.com	09/30/2028	Self-signed certificate generated by system
ITLRecovery	ITLRECOVERY_cucm14test_77cea7891d68be201eff4e1e038db166	Identity	Self-	RSA	cucm14test.test.com	ITLRECOVERY_cucm14test	05/01/2028	Self-signed certificate generated by system
tomcat	cucm14test.test.com_36a79869000000000004	Identity	CA-	RSA	cucm14test.test.com	S-WIN2008R2-CA	10/04/2025	Certificate Signed by S-WIN2008R2-CA
tomcat-ECDSA	cucm14test-EC.test.com_486beedc456be0fb40ff7716b999d3a4	Identity	Self-	EC	cucm14test.test.com	cucm14test-EC.test.com	09/30/2028	Self-signed certificate generated by system



Log in op de Cisco Unified Presence Server (CUPS) op de beheerpagina van het besturingssysteem, navigeer naar Security > Certificate Management en download het CUPS-certificaat.

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Certificate	Common Name	Usage	Туре	Кеу Туре	Distribution	Issued By	Expiration	Description
cup	impnew.test.com	Identity	CA-signed	RSA	impnew.test.com	S-WIN2008R2-CA	10/04/2025	Certificate Signed by S-WIN2008R2-CA
cup-ECDSA	impnew-EC.test.com	Identity	Self-signed	EC	impnew.test.com	impnew-EC.test.com	09/30/2028	Self-signed certificate generated by system
cup-trust	Impnew-EC	Trust	Self-signed	EC	Impnew	Impnew-EC	09/30/2028	Trusted local cluster own-certificate
cup-trust	impnew-EC.test.com	Trust	Self-signed	EC	impnew.test.com	impnew-EC.test.com	09/30/2028	Trusted local cluster own-certificate

Aanwezigheids-CUPS-certificaat

Download het ROOT CA-certificaat dat het Tomcat- en Cup-certificaat heeft ondertekend.

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Certificate List (	'1 - 5 of 5)							Rows per Page 50
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Certificate *	Common Name/Common Name_SerialNumber	Usage	Туре	Key Type	Distribution	Issued By	Expiration	Description
tomcat-trust	cucm14test-EC.test.com_486beedc456be0fb40ff7716b999d3a4	Trust	Self-signed	EC	cucm14test.test.com	cucm14test-EC.test.com	09/30/2028	Trust Certificate
tomcat-trust	S-WIN2008R2-CA_0d758d12017cb7bf49a9a7381b3d388e	Trust	Self-signed	RSA	S-WIN2008R2-CA	S-WIN2008R2-CA	09/29/2028	Signed Certificate
tomcat-trust	moneyweit.com_socerowite.com/socerowite.com/socerowite.com	Inust	Servisigned	N5A	impriew.test.com	impnew.test.com	09/30/2028	Trust Certificate
tomcat-trust	cucm14test.test.com_36a7986900000000004	Trust	CA-signed	RSA	cucm14test.test.com	S-WIN2008R2-CA	10/04/2025	Trust Certificate
tomcat-trust	imonew-EC.test.com_779ac9d72e3/6e922687583a1071417e	Trust	Self-signed	EC	impnew.test.com	impnew-EC.test.com	09/30/2028	Trust Certificate
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Root certificate of Tomcat

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Certificate List										
Generate Self	f-signed 🌇 Upload Certifi	ate/Certificate cha	n 💽 Generat	te CSR 💽 Ret	use Certif	icate				
Status										
(i) 4 records fo	ound									
Certificate List	t (1 - 4 of 4)									Rows per Page 50
Find Certificate Li	ist where Certificate	✓ begins with	✓ cup-trust		Find	Clear Filter	4			
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Certificate	Common Name	Usage	Туре	Key Type		Distribution		Issued By	Expiration	Description
cup-trust	impnew-EC	Trust	Self-signed	EC	impne	ew		Impnew-EC	09/30/2028	Trusted local cluster own-certificate
cup-trust	impnew-EC.test.com	Trust	Self-signed	EC	impne	ew.test.com		impnew-EC.test.com	09/30/2028	Trusted local cluster own-certificate
cup-trust	S-WIN2008R2-CA	Trust	Self-signed	RSA	S-WI	N2008R2-CA		S-WIN2008R2-CA	09/29/2028	Signed Certificate
cup-trust	impnew	Trust	Self-signed	RSA	impne	ew		impnew	09/30/2028	Trusted local cluster own-certificate
Generate Self-s	igned Upload Certificate	Certificate chain	Generate CSR	Reuse Certific	ate					

Root certificate for CUPS

Maak een certificaatbundel van CUCM-certificaten. Een bundelcertificaat betekent, het plaatsen van het servercertificaat bovenop, het tussenliggende certificaat (om het even welk) in het midden, en het ROOT certificaat onderaan, gevolgd door één (1) wagenterugloop.

Hier is een voorbeeld voor het BUNDLE-certificaat:

1	BEGIN CERTIFICATE	
2	MIIFqsCCBJOgAwIBAgIKNqeYaQAAAAAABDANBgkqhkiG9w0BAQsFADBBMRMwEQYK	
3	CZImiZPyLGQBGRYDY29tMREwDwYKCZImiZPyLGQBGRYBUsEXMBUGA1UEAxMOUy1X	
4	SU4yMDA4UjItQ0EwHhcNMjMxMDA0MTMyNsE2WhcNMjUxMDA0MTMsNsE2WjBXMQsw	
5	CQYDVQQGEwJJTjEMMAoGA1UECBMDa2FyMQwwCgYDVQQHEwNpbmQxDjAMBgNVBAoT	
6	BWNpc2NvMRwwGgYDVQQDExNjdWNtMTR0ZXN0LnR1c3QuY29tMIIBIjANBgkqhkiG	
7	9w0BAQEFAAOCAQ8AMIIBCgKCAQEAoYE9sn27hV05JUwAEwutEy5RA4WwsxIvkqEI	
8	ah0fDpRI2GgY+mrH9q70hAvG3uDYBtBHKYJpkYepeULNjZkhO7a39IeeJMG8/q28	
9	SCk2+j1VIyw8gt+CnG6E6ibCD+HNdtKfwL0ipSd1TnlieX6DsF0521K4Alm4yrsN	
10	+b0/wSIkfV0+ValyC90nbTCUkIKgvqvqGsdiyndb6TRfhi+w4RD+0NgOBjWHqcXX	
11	WXgp9JWYQdy7YeX8Y2k1jBAyRhSPfa35hojy470hE91N8axmHRm2m5htqEe0kSOy	
12	2oO9pj7f7AqlwsVAfVpQCxx1ZsXtZARHpGdswpm4M8r5MoXPtwIDAQABo4ICjTCC	
13	AokwDgYDVR0PAQH/BAQDAgWgMB0GA1UdJQQWMBQGCCsGAQUFBwMBBggrBgEFBQcD	
14	AjAoBgNVHREEITAfggh0ZXN0LmNvbYITY3VjbTE0dGVsdC50ZXN0LmNvbTAdBgNV	
15	HQ4EFgQUTMTpsuTuO5EBHZwgGFb6qii7MS8wHwYDVR0jBBgwFoAUaL6fIQ4Vp+QI	Server Certificate on TOP
16	UDs/X6MwFAVhJ4IwgcgGA1UdHwSBwDCBvTCBuqCBt6CBtIaBsWxkYXA6Ly8vQ049	
17	Uy1XSU4yMDA4UjItQ0EsQ049V010MjAwOFIyLENOPUNEUCxDTj1QdWJsaWM1MjBL	
18	ZXklMjBTZXJ2aWNlcyxDTj1TZXJ2aWNlcyxDTj1Db25maWdlcmF0aW9uLERDPVMs	CUCM TOMCAT CEPT
19	REM9Y29tP2N1cnRpZmljYXR1UmV2b2NhdG1vbkxpc3Q/YmFsZT9vYmp1Y3RDbGFs	COCM TOWCAT CERT
20	csljUkxEaXN0cmlidXRpb25Qb21udDCBugYIKwYBBQUHAQEEga0wgaowgacGCCsG	
21	AQUFBsAChoGabGRhcDovLy9DTj1TLVdJTjIwMDhSMi1DQSxDTj1BSUEsQ049UHVi	
22	bGljJTIwS2V5JTIwU2VydmljZXMsQ049U2VydmljZXMsQ049Q29uZmlndXJhdGlv	
23	bixEQs1TLERDFWNvbT9jQUN1cnRpZmljYXR1P2Jhc2U/b2JqZWN0Q2xhc3M9Y2Vy	
24	$d{\tt GlmaWN} hd{\tt GlvbkFldGhvcml0eTA9BgkrBgEEAYI3FQcEMDAuBiYrBgEEAYI3FQiF$	
25	$y \texttt{rsWhcnoHIXB} j \texttt{S6B5} \texttt{uhFhsusPgeGpusehts3XAIBZAIBAjAnBg\texttt{krBgEEAYI3FQoE} and \texttt{same starses} and $	
26	GjAYMAoGCCsGAQUFBwMBMAoGCCsGAQUFBwMCMA0GCSqGSIb3DQEBCwUAA4IBAQCQ	
27	hREe62JHVx1N7JNgY0REi4V953FiyQPIVYFYVEdaKA1+Afv1S214D7ohFIjL5rSA	
28	ThWiFFSWlmEa5Cjlg9giZleHIZuDuoR6XEKWB/bkC9BXoDkKMFV7bh9CoOsFmXk8	
29	r6xeN7HScAHAs3wFILUnAip1KP/7odBkNUsgT39NJAL1UgVPpT81r61k8OR5TaYI	
30	9vs4dw5oCqsI7Z0Av8ZDKNfDTsWoOGtUZdCMIxasJ05ALmMBtagqYBNj16URkR8i	
31	f2sOkb+NdPZD4XAEOOtW8rji124ukr7JBgeWYsjsD2tsZsJgs1MprNaVuMDh280Q	
32	JQFAiCOp2GgYjkJBZcH2	
33	END · CERTIFICATE	
34	BEGIN · CERTIFICATE	
35	MIIDXTCCAkWgAwIBAgIQDXWNEgF8t79Jqac4Gz04jjANBgkqhkiG9w0BAQsFADBB	
36	MRMwEQYKCZImiZPyLGQBGRYDY29tMREwDwYKCZImiZPyLGQBGRYBUzEXMBUGA1UE	
37	AxMOUy1XSU4yMDA4UjItQ0EwHhcNMjMwOTI5MTMxMsIsWhcNMjgwOTI5MTMyMsIy	
38	WjBBMRMwEQYKCZImiZPyLGQBGRYDY29tMREwDwYKCZImiZPyLGQBGRYBUzEXMBUG	
39	A1UEAxMOUy1XSU4yMDA4UjItQ0EwggEiMA0GCSqGSIb3DQEBAQUAA4IBDwAwggEK	
40	AoIBAQCXa6tjSyOUyn6GkoSbe98SaSKrUNGbCORKnI41tWEiX0vPITEsqZUPRJq4	
41	7C8useeDiJPUbWAY9e8F4nm+VhG3EKqkwekr1JAF1mV4hkypxR0Wz64b4yO4Ln8e	Poot cortificate at bottom
42	3E/F6/SXA6HOqHDylq1QMWSA/FXB441GKbSnfA4pjTBSnMF5WL+iBruYHp9tX6EJ	Root certificate at bottom
43	IJq5Fe+RZYNh/mLuB+0Qf10Cn4sqsxZGf8DxhJNHU+2mSq7h319exxioDcwiVwZ0	
44	xqUKrvBs6jBtOg4Kvs3zz4AHyP91SAA2vp42MwtBdis8O3wx+vm/HoVr0fHum/W1	
45	Z92iwR9JxA4tKoJHVpBwMVnrK7TrAgMBAAGjUTBPMAsGA1UdDwQEAwIBhjAPBgNV	
46	HRMBAf8EBTADAQH/MB0GA1UdDgQWBBRovp8hDhWn5AhQOs9fosAUBWEngjAQBgkr	
47	BgEEAYI3FQEEAwIBADANBgkqhkiG9w0BAQsFAAOCAQEAV5nsa91K4BISCAuBgMMe	
48	YSPExL5kExPQcFtJtlFjnC5uTC4I0MQQFfuralBQfr4DokDXK5892npt5DAFors5	
49	k60GpH1bRPBaoxJhK0TaSimL6yAZ0fZo380nrVRD2Klug/1VeXF/2h1TeZc73utt	
50	k5sqewqTQO4NHrBp0Udybmpf2L5BJhlctoH490PI0HEbmVDE0WALKXliqsuEZrmm	
51	Mr10MRRLs22BpX2WSqw90IrmpWI3fds2kE2S1DvuaNcc7B8W0hgWT3HxnyuMTyZi	
52	b6Yf7hb5F3ZSOpHFU1bZ22tqk4qouEigyoaUZaLcVhV5UdBCCvwyU19yU6+EscnM	
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54	END · CERTIFICATE	
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Tomcat certificaatbundel

Maak een certificaatbundel van CUPS-certificaten. Een bundelcertificaat betekent: het plaatsen van het servercertificaat bovenop, het tussenliggende certificaat (om het even welk) in het midden, en het ROOT certificaat onderaan, gevolgd door één (1) wagenterugloop.

1	BEGIN CERTIFICATE	
2	MIIFqTCCBJGgAwIBAgIKNrMm8gAAAAABTANBgkqhkiG9w0BAQsFADBBMRMwEQYK	
3	CZImiZPyLGQBGRYDY29tMREwDwYKCZImiZPyLGQBGRYBUzEXMBUGA1UEAxMOUy1X	
4	SU4yMDA4UjItQ0EwHhcNMjMxMDA0MTMsOTU0WhcNMjUxMDA0MTM0OTU0WjBjMQsw	
5	CQYDVQQGEwJJTjEOMAwGA1UECBMFa2FybmExDDAKBgNVBAcTA2JnbDEOMAwGA1UE	
6	ChMFY21sY28xDDAKBgNVBAsTA2thcjEYMBYGA1UEAxMPaW1wbmV3LnR1c3QuY29t	
7	MIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgKCAQEAkHb9jsWyhi6i4IkSx8hC	
8	21U5L2HBQ28RDQw1vT3CFGZut+dayK9KshYtsOAhRFwLPWgGtABJWMr98f+DM0RG	
9	FsmCtNolZsE0qSQCR6b/kbQuC+6LhhgpIM8I44StLaAF4neZ/5dmCU9sJNCpnbpH	
LO	EbgbXKhW8V4ZBZeLP0T2savk5V+vriGuMjV299vGrEu49kB0EN2M+mnfcnf2OxT5	
11	wtFqCY9jijKSKC4Ocu6iJS8A7Hi/yJQJ1NeUmnLpGpF/HKUrclu5pBdfiV1EXBkS	
12	LX2bm49PFGRS0guxJ2VC457vmAgACgKvwE5s3HvW1t3Tp1WE4AZt5n3s9tsYS0C7	
13	bwIDAQABo4ICfsCCAnswHQYDVR01BBYwFAYIKwYBBQUHAwEGCCsGAQUFBwMCMA4G	CUDE Castificate
4	A1UdDwEB/wQEAwIFoDAaBgNVHREEEsARgg9pbXBuZXcudGVsdC5jb20wHQYDVR00	COPS Certificate
1.5	BEYEFOxymV/idcIDMEVOisWR/vRAo9ktMB8GA1UdIwOYMBaAFGi+nvEOFafkCFA7	
16	P1+iMBOFYSeCMIHIBaNVHR8EgcAwab0wabagabegabSGabFsZGFw0i8vL0NOPVMt	
7	V010MiAwOFIvLUNBLENOFVdJTiJwMDhSMixDTilDRFA=0049UHVibGliJTIwS2V5	
18	JTIwU2VvdmljZXMs0049U2VvdmljZXMs0049029uZmlndXJhdGlvbixE0s1TLERD	
19	FWNybT9jZXJ0aWZpY2F0ZVJ1dm9jYXRpb25MaXN0F2Jhc2U/b2JgZWN002xhc3M9	
20	Y1JMRG1sdHJpYnV0aW9uUG9phnOwgboGCCsGAOUFBwEBBIGtMIGgMIGnBggrBgEF	
21	BOCWAGaBmmxkYXA6Lv8v0049Uv1XSU4vMDA4UiIt00Es00490U1BLENOPVB1Ymxp	
12	YulluMEt.] = SiluMEN1 cn2nY2VsLENOPUN1 cn2nY2VsLENOPUNybm2nZ2VyYXBnb24 s	
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24	2ml i VXRnb25BdXRob2JndHkwPOYJKwYBBAGCNwIIHBDAwLaYmKwYBBAGCNwIIIhca7	
25	FoX.16BvFvY0vc=hoDVb1 =z4HbchzHohc91vC2W0C2OTwJvVJKvVRB3CC1vUKBBov	
26	CD1KBaarBaFFBO-D111KBaarBaFFBO-D1i1NBakahkiG9v0B10+F11OC10F1UJDv	
27	2=MOFWaIW4bisbs/VCDCbIMDG54TF+FINTBasoavaw12XI1do0.JiN3T7Xd+Fo3G0	
28	IIVD:DN2g226wiV5C2i+TLe/aVnc1C5wN6krL/8DEnBnmonwbOVdgDIICbn4r21iNV	
26	=N-BrH=OYOUr2/FV=BObUb1DGowfryMi5S9r40k15wYc88b0bopL1T/Sc2mov5m22	
20	D5mSV fit hW2 SwmMmO+Swm7db Tu2 = fT few 0Fb F1 2+ DDOHC = a0m 0w0DSHVCi0Fd a	
21	V22+1.IGev13vDt4+sqOviVEVND8m8+WIBIUEvtoXaoUbs8ff0FaDXVf/2mWrB.IDD	
22	2m/lt0nc21HdcKFHDw==	
22	PND: CERTIFICATE	
24	BEGIN (CEDITIFICATE	
25	MITDXTCChkWabwIBhaTODXWNEaF8t79Jaac4Ga04jjhNBakahkiG9w0BhOsFhDBB	
26	MDM+POVEC7Tm+i7D+I COBCDVDV29+MDF+D+VEC7T++i7D+ICOBCDVBIL+PVMBIC31IIF	
27	awouruly Sud-MDA 40 i T+00F wHo-MMiMwOTI 5MTMwMa Taxbo MMi owOTI 5MTMvMa Tax	
28	WiREMDMyFOVEC7Twi7DvICOBCDVDV20+MDFyDyVEC7Twi7DvICOBCDVBII/FVMBIG	
20	1 JUPA WOIL 1 V SUA WID AUG TE OFFICE AND A CORRECT TO SUM THE SUM AND A TED A SUM THE SUM AND A SUM THE AND A SUM	
10	a TRACCY a 6t i SuOII un 6Ct o She 985 a SK - IINChCODE n T41 t WF i YOU DTTF = 7711DD Ja4	
11	7CBuseeDi JDHWBY0e8F4pp+UbCSFKebysby1JBF1=U4bburyD0%=F4b4u041p8a	
12	2F/F6/SV16H0_HDu1_s10MWS3/DVB441CFbS_f14piTBSpMD5WI+iR_UVHp6+V6FJ	Root Certificate
12	LasPa+P7VNb /mLvB+00f100n4agav7Cf8Dvb.DVHII+2m8g7b210avvioDcviUv70	
14	walls we have been and the second state of the	
15	2021xD0.Tx34+Ko.THUnRxMUxxE7Tx3aMB33C+UTBDM3=C31UdDwOF3xTBbi3DBaNU	
16	HDWR3 69FBT3D3OH /WROC31UHDrOWERDown9bDbWr53b00r06cr3UBWFrrdi3OBrby	
17	ReFFLVI2FOFFLvIBLDINErkehtiGGv0Fl0-FL0CCOPIUS	
18	VSDFvI5FvD0cFt.ttlFimC5vTC4T0M00Ffv=1B0f=4DxF5802r=+5D3F===5	
16	ECCoRT bDDB accord Start	
10	<pre>SectorsTOOANHyBa0Hdubra f21 SB.Tb 1 ct = M400DTOUPL=UDFOWSTEV1 :F2</pre>	
51	<pre>Assignment = 22Es Y2W8 are 0.1 remain 12 fd = 21 F201 Dates Marshall = 2000 h = 20000 h = 2000 h</pre>	
12	httonksbaabpaawaqwootimpetarusakbaatuvuawee/bowongwianknyuMiyat	
10	Area Nois uno synchrothysedradonridlosnysrchurondrccamloidloerseuw	
14	FND (CERTIFICATE	
15	LND CERTIFICATE	
10		



CUPS-certificaatbundel

Druk op de bundelcertificaten die eerder op de CMS-server zijn gemaakt via WinSCP.

Name	Size	Туре	Name	Size	Changed	Rights	Owner
<b></b>		Parent director	C2wip.key	198 KB	5/16/2020 3:44:38 PM	rr	admin
cupbun.cer	4 KB	Security Certifi	CA.cer	198 KB	8/17/2021 9:36:00 PM	rr	admin
eucmbun.cer	4 KB	Security Certifi	CA222.cer	198 KB	8/17/2021 10:53:32 PM	rr	admin
			CA2222.cer	198 KB	8/24/2023 9:35:26 AM	rr	admin
			CB1.csr	198 KB	8/24/2023 2:58:43 PM	rr	admin
			CB1.key	198 KB	8/24/2023 2:58:43 PM	rr	admin
			CB222.cer	198 KB	8/17/2021 11:07:26 PM	rr	admin
			CB222.csr	198 KB	8/18/2021 4:21:01 AM	rr	admin
			CB222.key	198 KB	8/18/2021 4:21:01 AM	rr	admin
			CB2222.cer	198 KB	8/24/2023 9:35:26 AM	rr	admin
			a) cmm.csr	198 KB	4/20/2022 11:12:14 PM	rr	admin
			Cmm.key	198 KB	4/20/2022 11:12:14 PM	rr	admin
			Cms.cer	198 KB	9/21/2021 12:18:15 PM	rr	admin
			and cms.lic	198 KB	10/26/2023 5:54:51 PM	rr	admin
			🙀 cucmbun.cer	198 KB	10/4/2023 7:18:03 PM	rr	admin
			En cup.cer	198 KB	10/4/2023 3:51:03 PM	rr	admin
		1	cupbun.cer	198 KB	10/4/2023 7:22:10 PM	rrr	admin
			Feb_09_2023_14_14.bak	518 KB	2/9/2023 2:13:12 PM	rr	admin
			Feb_10_2023_13_27.bak	518 KB	2/10/2023 1:25:05 PM	rrr	admin

Certificaatbundel naar CMS kopiëren

Wijs TOMCAT bundelcertificaat toe op Callbridge met callbridge ucm certs <cert-bundle>.



Call Bridge-vertrouwen

Wijs CUP server bundelcertificaat toe op CallBridge met callbridge imps certs <cert-bundle>.



Voer decallbridge opdracht uit om te controleren of de certificaatbundels zijn toegewezen.



Callbridge vertrouwen cert check

Log in CUCM als CM-beheerder, navigeer naar User Management > User Settings > Access Control Group, klik op Add New en maak een Access Control Group CUCM\_AXL\_Group.

alialia cisco	Cisco Unified CM For Cisco Unified Comm	1 Administrati	on				
System 🔻	Call Routing 👻 Media Resource	s < Advanced Features	▼ Device ▼	Application 👻	User Management	Bulk Administration 👻	Help 🔻
Access Co	ontrol Group Configuration						
Save							
⊂Status —							
i Statu	us: Ready						
Access C	ontrol Group Information						
Name*	•	CUCM_AXL_GROUP					
Available	for Users with User Rank as *	1 - Default User Rank			<b>v</b>		
Save							
(i) *- ir	ndicates required item.						
AXL-groep	naken						

Wijs de rol toe Standard AXL API Access aan de eerder gecreëerde Access Control Group.

cisco	Cisco Unified CM Administration Skep to Content Navigation For Cisco Unified CommuniCations Solutions	Cisco Unified CM Administration v cisco About L
System +	Call Routing 👻 Media Resources 🔹 Advanced Features 👻 Device 👻 Application 👻 User Management 👻 Bulk Administration 🎽 Help 👻	
Access Cor	troi Group Configuration Related Links;	Back To Find/List
Save	🗶 Delete [ Copy of Add New	Back To Find/List
Status		Roles
(i) Status	i: Ready	Dependency Records
- Access Co	trol Group Information	
Name*	CUCM_AXL_GROUP	
Available fo	r Users with User Rank as * 1 - Default User Rank v	

Toewijzen van API-toegang aan AXL-groep

Name* CUCM_AXL_GROUP	
Role Assignment	
Role Standard AXL API Access	
	Assign Role to Group
	Delete Role Assignment
Save	

Navigeer naar User Management > Application User, klik op Add New en maak een Application User AXLuser. Wijs vervolgens de toegangscontrolegroep toe, die eerder is gemaakt.

n 🗢 Call Routing 👻 Media Resources 👻 Advanced Restures 🐃 Device 🐃 Application 👻 User Management 🐃 Bulk Administration 🐃 Help 🐃		
ication User Configuration		
San		
-	📲 ڬ Find and List Access Control Groups — Mozilla Firefox 🦳 🗌	>
Slefus: Really		
lication User Information		_
ID* axluser1	https://10.106.113.229/ccmadmin/userGroupFindList.	=
im Password asses	Find and List Access Control Groups	
A Credentals	The design of th	_
m Digest Credentials	III seetive III clearve Hild voi seetise [ Crose	
reserve Group V	r Status	
Rank" 1-Default Geer Rank v	20 meants found	
cost Presence Suberigton		_
unest Out-of-dialog REFER.	Access Control Group (1 - 30 of 30) Rows our P	age 50
cospt Unsolicited Notification		
cept Replaces Header	Find Access Control Group where Name × Begins with × Find (Clear Filter) @	
e Information	Tana *	
Me Devices Auto-registration Template	Admin-3rd Party API	1
CSFseistern Device Association	Application Client Users	1
CPTiel Find more Route Points	CUCM_AKLGROUP	1
SEP0896AD5F6397		1
**	Standard CAR, Admin Usars	
relied Devices	Standard CCH Admin Uters	
	Standard CCM End Users	1
	Bandard CCH Material Annual Control Contr	
able Profiles	Standard Curl Front Approximation	
	Strategy Coll Server Machineses	
	C Restar Cit Server Machine	1
~~	Standard CCM Super Lines	
Controlled Device Profiles	Standard Confidential Access Level Users	1
~	Standard CTL Allow Call Handlering	1
~	Standard CTI Allow Call Park Monitoring	1
	Standard CTI Allow Cat Recording	1
PF Information	Standard CTL Allow Calling Number Medification	1
coaled CAPP Profiles	Standard CTI Allow Control of All Devices	1
	Standard CTI Allow Control of Phones supporting Connected Xfer and conf	1
View Details	Standard CTI Allow Control of Phones supporting Rollover Mode	1
	Slandard CTI Allow Reception of SRTP Key Material	
Sisco Unified CM Administration  If Case Information  If Case Informatio	Stenderd CTI Enebled	1
(Add to Assess Control Course)	Blandard CTI Secure Connection	1
Add to Access Control Group	Ganiard FM A-Drantization Prevy Bioble	

Een gebruiker maken en AXL-groep toewijzen

Maak een CUP-gebruiker en wijs deze twee rollen toe: Third Party Application Users en Admin-3rd Party API.

Application User Configu	ration									
🔜 Save 🗙 Delete 🗋	Copy 🖧 Add New		https://10.106.113.229/ccmadmin/userGroupFindList.do?whe 50%	☆ =						
Application User Informat	ion									
User ID*	Dupuser Edit C	Credential	Find and List Access Control Groups							
Passworu			Select All Clear All Ad Selected T Clear							
Confirm Password										
Digest Credentials			1 31 records found							
Confirm Digest Credentials										
BUF Presence Group*	Randard Presence group		Access Control Group (1 - 31 of 31)	Rows ner Rane St. v						
User Rank*	t-Default User Rank v									
Accept Presence Subscript	lion		Find Access Control Group where Name * begins with * ad Find Clear Filter 🕀 😅							
Accept Out-of-dialog REF	ER.		Name *	Rank						
Accept Unsolicited Notifics	tion		Admin-3rd Party API	1						
Accept Replaces Header			Application Client Users	1						
Barris Islands		1000	CUCM_AXQ_GROUP	1						
Device Information			CUP_User_GRP	1						
Available Devices	Auto-registration Template		Standard Audit Users	1						
	CSPteet	<b>Device Association</b>	Standard CAR Admin Users	1						
	SEP0896AD5F6396	Find more Route Po	Standard CCM Admin Users	1						
	SEP08964D5F6397		Standard CCM End Users	1						
	**		Standard CCM Gateway Administration	1						
Controlled Devices			Standard CCM Phone Administration	1						
			Standard CCM Read Only	1						
			Standard CCM Server Maintenance	1						
Available Profiles			Standard CCM Server Monitoring	1						
			Standard CCM Super Users	1						
			Standard Confidential Access Level Users	1						
		_	Standard CTI Allow Call Monitoring	1						
CTI Controlled Device Profile	**	-	Standard CTI Allow Call Park Monitoring	1						
		<b>v</b>	Standard CTI Allow Call Recording	1						
		^	Standard CTI Allow Calling Number Modification	1						
			Standard CTI Allow Control of All Devices	1						
CAPF Information			Standard CTI Allow Control of Phones supporting Connected Xfer and conf	1						
Associated CAPF Profiles			Standard CTI Allow Control of Phones supporting Rollover Mode	1						
			Standard CTI Allow Reception of SRTP Key Material	1						
			Standard CTI Enabled	1						
	) <u>Ven Deta</u>	9	Standard CTI Secure Connection	1						
Permissions Information	1		Standard EM Authentication Proxy Rights	1						
Groups			Standard EM Roaming Across Clusters Super Users	1						
	Add to Acce	ss Control Group	Standard Packet Sniffer Users	1						
	Remove from	Access Control Group	Standard RealitimeAndTraceCollection	1						
Roles	View Details		Standard TebSync User	1						
~~m3			Third Party Application Users	1						
	View Details		(Static Vill (Fast VII) (VOD Statics)							

#### CUP-gebruiker maken

Certificaatverificatie voor de CUCM en het Cisco Unified Communications Manager IM & Presence Service (IMPS)-certificaat op de CMS inschakelen met:

callbridge ucm verify <enable/disable>

callbridge imps verify <enable/disable>



Callbridge verify CUCM en CUPS-cert

Controleer dit door de opdracht uit te voerencallbridge.



Gesprekscontrole

Voeg nu CUCM Fully Qualified Domain Name (FQDN) toe en de User **XL** en **CUPS** die eerder op CMS zijn gemaakt met callbridge ucm add <hostname/IP> <axl\_user> epresence\_user>.

axl\_user = AXL-gebruiker op CUCM

Presence\_user = CUP-gebruiker gemaakt eerder

```
wb3>
wb3> callbridge ucm add <hostname/IP> <axl_user> <presence_user>
Onlv 1 UCM node is allowed. Delete existing UCM node to add a new UCM node.
wb3> callbridge ucm add cucm14test.test.com axluser cupuser
Enter axl user password:
Enter presence user password:
UCM node updated successfully. Restart the callbridge for changes to take effect.
wb3>
wb3>
```

CUCM toevoegen aan CallBridge

Controleer nu of CMS de CUCM-services vertrouwt met de hulp van:

callbridge ucm <hostname/IP> axl\_service status

callbridge ucm cucm14test.test.com axl\_service status



#### Callbridge AXL status

callbridge imps <hostname/IP> <presence\_user> presence\_service status

wb3> callbridge imps impnew.test.com cisco presence\_service status



Status van CallBridge-aanwezigheid

Beschikbare diensten betekent dat CUCM en CMS elkaar vertrouwen voor AXL- en Presence-diensten.



CUCM heeft Lichtgewicht Directory Access Protocol (LDAP) gebruikers gesynchroniseerd en ook bijgewerkt op de CUPS. De gebruikers moeten dezelfde web app gebruikers-id en Jabber JID hebben en moeten in de web app met dezelfde gebruikers-id zijn ondertekend, zodat de aanwezigheid kan worden bijgewerkt op Jabber.

CUCM-specifieke configuratie voor delen van aanwezigheid tussen Webapp en Jabber-client

CUCM moet LDAP geconfigureerd hebben.

LDAP-systeem:

LDAP System Configuration								
⊂ Status								
Please Delete All LDAP Directories Before Making Changes on This Page								
Diagon Diaghta LDAD Authentiagtion Refere Making Changes on This Data								
Thease Disable LDAF Authentication before Making changes on this Page								
LDAP System Information								
Enable Synchronizing from LDAP Server								
LDAP Server Type Microsoft Active Directory V	)							
LDAP Attribute for User ID sAMAccountName V	)							

CUCM LDAP-configuratie 1

LDAP-map:

LDAP Directory								Relat	ed Links: Back to
🔜 Save 🗶 Delete 🗋 Copy	Perform Fi	ull Sync Now	Add New						
LDAP Directory Information									
LDAP Configuration Name*	ADDOT240								
LDAP Manager Distinguished Name*	administrator@	@test.com			=				
LDAP Password*									
Confirm Password*					=				
LDAP User Search Base*	OU=Acano,DC=	=test,DC=com							
LDAP Custom Filter for Users	< None >			<b>v</b>					
Synchronize*	💿 Users Only	y 🔘 Users an	d Groups						
LDAP Custom Filter for Groups	< None >			~					
-LDAP Directory Synchronization	Schedule								
Perform Sync Just Once									
Perform a Re-sync Every*	7		DAY						
Next Re-sync Time (YYYY-MM-DD h	h:mm)* 2022-	10-21-00:00	DAT						
	2023	10-31 00:00							
Standard User Fields To Be Synch	nronized ——					 	 		
Cisco Unified Communications Mana	ger User Fields	LDAP Attribut	e					Cisco Unified Communications Manager User Field	s LDAP Attribute
User ID		sAMAccountN	lame					First Name	givenName
Middle Name		middleName	*					Last Name	sn
Manager ID		manager						Department	department
Phone Number v					Mail ID	mail			
Title title					Home Number	homephone			
Mobile Number		mobile						Pager Number	pager
Directory URI		mail	<b>``</b>					Display Name	displayName

#### CUCM LDAP-configuratie 2

#### LDAP-verificatie:

### CUCM LDAP-configuratie 1 CUCM LDAP-configuratie 1 CUCM LDAP-configuratie 1

LDAP Authentication		
Save		
-Status		
U Status: Ready		
LDAP Authentication for End User	s	
Use LDAP Authentication for End	l Users	
LDAP Manager Distinguished Name*	administrator@test.com	
LDAP Password*	••••••	
Confirm Password*	••••••	
LDAP User Search Base*	OU=Acano,DC=test,DC=com	
LDAP Server Information		
Hos	t Name or IP Address for Server *	LDAP Port* Use TLS
		389
Add Another Redundant LDAP Ser	ver	

CUCM LDAP configuratie 3

Gebruikers van LDAP naar CUCM getrokken met Mail-ID geconfigureerd:

End User Configuration								
🔚 Save 🗙 Delete 🕂 Add New 🛑 Revoke Refresh Token								
Status								
i Status: Ready								
User Information ———								
User Status	Active Enabled LDAP Synchronized User							
User ID*	test							
Self-Service User ID	1000							
PIN	•••••	Edit Credential						
Confirm PIN	••••••							
Last name*	test							
Middle name								
First name	test							
Display name	test test							
Title								
Directory URI	test@test.com							
Telephone Number								
Home Number								
Mobile Number								
Pager Number								
Mail ID	test@test.com							
Manager User ID								

#### Gebruikers in CUCM

CUCM gebruiker bijgewerkt op CUPS server:

ababi	<b>Cisco Unified CM</b>	IM and Pres	ence Adm	inistratio	n		Navigation	Cisco Unified CM IN	1 and Pres	ence Admir	nistration 🕚	✓ G0
cisco	For Cisco Unified Communi-	cations Solutions						4	A8	cisco	Logout	About
System -	Presence • Messaging •	Application - Bulk /	Administration 🔫	Diagnostics -	Help 👻							
E Presence	Topology	Node User Assi	gnment (impr	ew.test.com)								
6-1	impnew.test.com	Status										
All Unassigned Users (0)		i 2 records	found									
ali A	ssigned Users (2)											
		User Assignm	ient (1 - 2	of 2)						Rows p	per Page	50 <b>v</b>
		Find User Assig	nment where L	Jser ID 🗸 🗸	begins with v		Find Clear Filter	4				
		User ID 🔺	First Name	Last Name	IM Address	Directory URI	Failed Over	Node		Presence R	edundancy G	roup
		test	test	test	test@test.com	test@test.com		impnew.test.com	De	faultCUPSu	bcluster	
		test2	test2	2	test2@test.com	test2@test.com		impnew.test.com	De	faultCUPSu	bcluster	

Gebruikers in CUPS

Dezelfde LDAP Directory is ook geconfigureerd op het CMS. De gebruikersdatabase wordt geüpload en gesynchroniseerd op CMS.



#### Status 🔻 Configuration 🔻 Logs 🔻

Users		
Filter	Submit Query	
Name	Email	
Gogi	gogi@s.com	gogi@s.com
Saiacano	saiacano@s.com	Saiacano@s.com
cms user	cmsuser1@saml.com	cmsuser1@saml.com
go go	gogo@federation.com	gogo@federation.com
ivrman	ivrman@s.com	ivrman@s.com
joey	joey@s.com	joey@s.com
popo1 1	popo11@saml.com	popo11@saml.com
prashant	prkapur@s.com	prkapur@s.com
replication user	replicationuser@saml.com	replicationuser@saml.com
sai 1	sai1@saml.com	sai@saml.com
sai1 acano	sai1acano@federation.com	sai1acano@federation.com
saml superuser	ssosuperuser@saml.com	ssosuperuser@saml.com
sankar v		sankar@s.com
shakur 2pac	2pac@s.com	2pac@s.com
test test	test@test.com	test@test.com
test2	test2@test.com	test2@test.com
user 1	user1@saml.com	user1@saml.com

CMS-gebruikers

Nu, aangezien u reeds hebt bevestigd dat CMS op CUCM kan vertrouwen, kunt u met het testen van Presence te werk gaan.

wb3> wb3> callbridge ucm add <hostname/IP> <axl\_user> <presence\_user> Onlv 1 UCM node is allowed. Delete existing UCM node to add a new UCM node. wb3> callbridge ucm add cucm14test.test.com axluser cupuser Enter axl user password: Enter presence user password: UCM node updated successfully. Restart the callbridge for changes to take effect. wb3> wb3> []

CUPS en CUCM toevoegen aan CMS

Verifiëren

Ondertekend op twee clients met dezelfde gebruiker (gesynchroniseerd via dezelfde LDAP):



Gebruikersaanmelding in Jabber en webapp

Beide cliënten ondertekenden in de zelfde gebruiker test@test.com.

М		0		Φ - □	×
1 test.space		c c	test test     test     test     test     test     test		
	test test's Home	٩	% My Profile		
	Last logn 2023-10-26 at 13:57. See details		Settings Sign Out		
	Join a meeting			Ì	
	My spaces		Add Contact New Custom Contact		
	test.space D	Join			

Aanwezigheid in Jabber en Webapp voor gesprek



De status van de aanwezigheid verandert wanneer de vraag van webapp wordt aangesloten

Wanneer een Jabber-gebruiker zich aanmeldt bij de web-app en zich bij een vergadering aansluit, werkt de Meeting Server de Jabber-status bij tot 'In een vergadering, in een oproep' en keert deze terug naar de vorige status nadat de gebruiker de vergadering beëindigt. Bijvoorbeeld, als de status van de gebruiker op Jabber 'Beschikbaar' toont, wordt het bijgewerkt naar 'In een vergadering, In een oproep' wanneer in een web app vergadering. Nadat de gebruiker de vergadering verlaat, wordt de status van Jabber opnieuw ingesteld op 'Beschikbaar'. Als de Jabber-gebruiker in een andere vergadering/oproep is tijdens het deelnemen aan de web-app-vergadering, werkt de Meeting Server de Jabber-status niet bij. Als de Jabber-gebruiker zijn status heeft ingesteld op 'DND - Niet storen' voordat hij zich aansluit bij de web-app-vergadering, werkt de Meeting Server de Jabber-status niet bij. Als de gebruiker de Jabber-status tijdens de web-app vergadering handmatig bijwerkt, heeft de Meeting Server geen invloed op de handmatig bijgewerkte gebruikerstatus.

## Over deze vertaling

Cisco heeft dit document vertaald via een combinatie van machine- en menselijke technologie om onze gebruikers wereldwijd ondersteuningscontent te bieden in hun eigen taal. Houd er rekening mee dat zelfs de beste machinevertaling niet net zo nauwkeurig is als die van een professionele vertaler. Cisco Systems, Inc. is niet aansprakelijk voor de nauwkeurigheid van deze vertalingen en raadt aan altijd het oorspronkelijke Engelstalige document (link) te raadplegen.