# 启用CMS和CUCM之间的安全通信

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验证

# 简介

本文档介绍如何启用思科Meeting Server (CMS)和思科统一通信管理器(CUCM)之间的通信。

# 先决条件

要求

Cisco 建议您了解以下主题:

- CMS版本3.8及更高版本
- CUCM和IM&P
- Jabber

使用的组件

本文档中的信息基于以下软件和硬件版本:

- CMS版本3.8
- CUCM和IM&P 14 SU (3)

本文档中的信息都是基于特定实验室环境中的设备编写的。本文档中使用的所有设备最初均采用原 始(默认)配置。如果您的网络处于活动状态,请确保您了解所有命令的潜在影响。

# 背景信息

本文档概述了在CMS和CUCM之间建立安全通信的流程,以实现Jabber/Web应用在线状态共享。 其中介绍了在CMS上的Web应用会议期间配置和排除Jabber用户更新状态的详细步骤。可对会议服 务器进行配置,以更新Jabber用户参与思科会议服务器Web应用会议时的在线状态。

# 启用CMS和CUCM/IMP服务器之间的安全通信

# 在操作系统管理页面登录CUCM,导航至Security > Certificate Management(或者点击ASA),然后下载TOMCAT证书。

abab 9	Cisco Unified Operating System Administra	ntion						Navigation Cisco Unified OS Administration
cisco	For Cisco Unified Communications Solutions							cisco About
Show - Setti	ngs • Security • Software Upgrades • Senices • Help •							
Certificate Li	ist							
Generate	Self-signed 👜 Upload Certificate/Certificate chain 🔋 Generate CSR 🧃	Reuse C	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 secure
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 communica 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-ECDS	A cucm14test-EC.test.com_486beedc456be0fb40ff7716b999d3a4	Identity	Self-	EC	cucm14test.test.com	cucm14test-EC.test.com	09/30/2028	Self-signed certificate generated by system

CUCM Tomcat证书

### 登录操作系统管理页面上的Cisco Unified Presence Server (CUPS),导航至Security > Certificate Management,然后下载CUPS证书。

uludu Cisco	Unified IM and Pre	sence O	perating	Syste	em Administrat	ion	Navigatio	n Cisco Unified IM and Presence OS Administration 👻 Go
For Cisco	Unified Communications Solu	tions						cisco About Logout
Show - Settings - S	ecurity 👻 Software Upgrades 👻	Services •	Help 👻					
Certificate List								
Generate Self-signed	Upload Certificate/Certifica	te chain 🧕	Generate CSR	Reu	se Certificate			
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Certificate List (	1 - 23 of 23)							Rows per Page 50 v
Find Certificate List whe	ere Certificate v begins	with v	lect item or er	ter search	Find Clear Filter	-		
Certificate	Common Name	Usage	Туре	Кеу Туре	Distribution	Issued By	Expiration	Description
cup	impnew.test.com	Identity C	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 S	Self-signed	EC	impnew.test.com	impnew-EC.test.com	09/30/2028	Self-signed certificate generated by system
cup-trust	Impnew-EC	Trust S	Self-signed	EC	Impnew	Impnew-EC	09/30/2028	Trusted local cluster own-certificate
cup-trust	impnew-EC.test.com	Trust S	Self-signed	EC	impnew.test.com	impnew-EC.test.com	09/30/2028	Trusted local cluster own-certificate

Presence CUPS证书

#### 下载签署Tomcat和Cup证书的根CA证书。

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Show • Settings • Sec	curty • Software Upgrades • Services • Help •							
Certificate List								
Generate Self-signed	🕒 Upisad Certificate/Certificate chain 📵 Generate CSR 📵 Reuse Certificate							
Status								
i 5 records found								
Certificate List (1	- 5 of 5)							Rows per Page 5
Find Certificate List when	e Certificate v   begins with v   tomcat-trust   [Find] Select item or enter search text v	Clear Filter	÷ -					
Certificate *	Common Name/Common Name_SerialNumber	Usage	Type	Key Type	Distribution	Issued By	Expiration	Description
tomcat-trust	cucm14test-EC.test.com 486beedo456be0fb40ff7716b999d3a4	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	monew.rest.com_46507/02/0506060158671939046904655	Trust	Serraignea	KSA	impnew.test.com	impnew.test.com	09/30/2028	Trust Certificate
tomcat-trust	cucm14test.test.com_36a798690000000004	Trust	CA-signed	RSA	cucm14test.test.com	S-WIN2008R2-CA	10/04/2025	Trust Certificate
tomcat-trust	impnew-EC.test.com_779ac9d72e3/6e922687583a1071417e	Trust	Self-signed	EC	impnew.test.com	impnew-EC.test.com	09/30/2028	Trust Certificate

[Ganarata Californiad]||Ilohust Cartificate/Cartificate chain]|[Ganarate CCD]|[Baura Cartificat

Tomcat的根证书

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cisco For	Cisco Unified Communicat	ions Solutions						cisco About Log
Show - Settings	✓ Security ▼ Software Up	grades 👻 Serv	ices 👻 Help 👻					
Certificate List								
Generate Self	-signed 🌇 Upload Certifica	te/Certificate chai	n 🔋 Generat	e CSR 🔋 Rei	use Certificate			
Status								
(i) 4 records fo	und							
Certificate List	t (1 - 4 of 4)							Rows per Page 50
Find Certificate Li	ist where Certificate	✓ begins with	✓ cup-trust		Find Clear Filter	ф <u>–</u>		
			Select iten	n or enter search	n text 🗸			
Certificate	Common Name	Usage	Туре	Кеу Туре	Distribution	Issued By	Expiration	Description
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
cup-trust	S-WIN2008R2-CA	Trust	Self-signed	RSA	S-WIN2008R2-CA	S-WIN2008R2-CA	09/29/2028	Signed Certificate
cup-trust	impnew	Trust	Self-signed	RSA	impnew	impnew	09/30/2028	Trusted local cluster own-certificate
Generate Self-s	igned Upload Certificate/C	ertificate chain	Generate CSR	Reuse Certific	ate			

CUPS的根证书

创建CUCM证书的证书捆绑包。捆绑证书是指将服务器证书放在顶部,中间证书(任意)和根证书放在底部,然后一(1)回车符。

以下是捆绑包证书的示例:

1	BEGIN · CERTIFICATE	
2	MIIFqsCCBJOgAwIBAgIKNqeYaQAAAAABDANBgkqhkiG9w0BAQsFADBBMRMwEQYK	
3	CZImiZPyLGQBGRYDY29tMREwDwYKCZImiZPyLGQBGRYBUzEXMBUGA1UEAxMOUy1X	
4	SU4yMDA4UjItQ0EwHhcNMjMxMDA0MTMyNsE2WhcNMjUxMDA0MTMsNsE2WjBXMQsw	
5	CQYDVQQGEwJJTjEMMAoGA1UECBMDa2FyMQwwCgYDVQQHEwNpbmQxDjAMBgNVBAoT	
6	BWNpc2NvMRwwGgYDVQQDExNjdWNtMTR0ZXN0LnR1c3QuY29tMIIBIjANBgkghkiG	
7	9w0BAQEFAAOCAQ8AMIIBCgKCAQEAoYE9sn27hV05JUwAEwutEv5RA4WwsxIvkgEI	
8	ah0fDpRI2GgY+mrH9g70hAvG3uDYBtBHKYJpkYepeULNjZkh07a39IeeJMG8/g28	
9	SCk2+j1VIvw8gt+CnG6E6ibCD+HNdtKfwL0ipSd1Tn1ieX6DsF0521K4Alm4vrsN	
10	+b0/wSIkfV0+ValvC90nbTCUkIKayayaGsdiyndb6TBfbi+w4BD+0NaOBiWHacXX	
11	WXcm9JWYOdv7YeX8Y2kliBAvBbSPfa25boiv470bE91N8avmHBm2m5btcEe0kSOv	
12	2009ni7f7hg1wsVhfVnOCxx1ZsXtZhBHnGdswnm4M8r5MoXPtwIDhOhBo4ICiTCC	
12	AckyDorDVB0PA0H/BA0DAcWcMB0GA1UdJ00WB0GCC-GA0UFBwMBBcccrBcEFB0cD	
14	AiAoBoNUHREEITAfoob02XN0ImNubVITY2VibTE0dGVsdC502XN0ImNubTAdBoNU	
15	HO4FFaOUTMTn=uTuO5FEH2waGFb6aii77MS8xHxYDUD0iBBaxFa3UaI6fT04Uat0T	Contrast Contificate on TOD
16	ID=/YEMyF3Ub.14Twee=C31H4HySRvDCB+TCB+#CB+ECB+T+B=WyFYY3EL+9*0040	Server Certificate on TOP
17	U.1V8H4.MD3 4H4 T+ 00P+0040U010M43.00FT-U PNODINFIC-DT+104W T+ 104W T+ 104W T+	
10	SVENSSYMERSSIESSOFSOFSOFSOFSESSOFSESSESSESSESSESSESSESSESSESSESSESSESSES	
10	ZARIMJBIZAJZAWNICYRDIJIIZAJZAWNICYRDIJIDBZ5mawdiemroaw9dLERDFVM5	CUCM TOMCAT CERT
19	REM91295P2N1ChRp2m1j1AR10mV2b2NhdG1VbRxpC3Q/ImrE219VImp113RbbGrE	
20	CEIJUKKEAKNUCHIIGAKEBE250B2IGGCBG	
21	AQUEBEAChoGabGRheDovLysDTjITLVdJTjIWMDhSM1DQSxDTjIBS0ESQ0490HV1	
22	bGljJT1wS2V5JT1wU2Vydm1jZXMsQU49U2Vydm1jZXMsQU49Q29uZm1ndXJhdG1v	
23	bixEQs1TLERDPWNvbT9JQUN1cnRpZm1jYXR1P2Jhc2U/b2JqZWN0Q2xhc3M9Y2Vy	
24	dG1maWNhdG1vbkF1dGhvcm10eTA9BgkrBgEEAYI3FQcEMDAuBiYrBgEEAYI3FQiF	
25	yrsWhcnoHIXBjS6B5uhFhsusPgeGpusehts3XAIBZAIBAjAnBgkrBgEEAYI3FQoE	
26	GjAYMAoGCCsGAQUFBwMBMAoGCCsGAQUFBwMCMA0GCSqGSIb3DQEBCwUAA4IBAQCQ	
27	hREe6ZJHVx1N7JNgY0REi4V953FiyQPIVYFYVEdaKA1+Afv1S214D7ohFIjL5rSA	
28	ThWiFFSW1mEa5Cj1g9gi21eHIZuDuoR6XEKWB/bkC9BXoDkKMFV7bh9CoOzFmXk8	
29	r6xeN7HScAHAz3wFILUnAip1KP/7odBkNUzgT39NJAL1UgVPpT81r61k8OR5TaYI	
30	9vs4dw5oCqzI7Z0Av8ZDKNfDTzWoOGtUZdCMIxasJ05ALmMBtagqYBNj16URkR8i	
31	f2sOkb+NdPZD4XAEOOtW8rjil24ukr7JBgeWYsjsD2tsZsJgslMprNaVuMDh280Q	
32	JQFAiCOp2GgYjkJBZcH2	
33	END · CERTIFICATE	
34	BEGIN · CERTIFICATE	
35	MIIDXTCCAkWgAwIBAgIQDXWNEgF8t79Jqac4Gz04jjANBgkqhkiG9w0BAQsFADBB	
36	MRMwEQYKCZImiZPyLGQBGRYDY29tMREwDwYKCZImiZPyLGQBGRYBUzEXMBUGA1UE	
37	AxMOUy1XSU4yMDA4UjItQ0EwHhcNMjMwOTI5MTMxMsIsWhcNMjgwOTI5MTMyMsIy	
38	WjBBMRMwEQYKCZImiZPyLGQBGRYDY29tMREwDwYKCZImiZPyLGQBGRYBUzEXMBUG	
39	A1UEAxMOUy1XSU4yMDA4UjItQ0EwggEiMA0GCSqGSIb3DQEBAQUAA4IBDwAwggEK	
40	AoIBAQCXa6tjSyOUyn6GkoSbe98SaSKrUNGbCORKnI41tWEiX0vPITEsqZUPRJq4	
41	7C8useeDiJPUbWAY9e8F4nm+VhG3EKqkwekrlJAF1mV4hkypxR0Wz64b4yO4Ln8e	Design of the second second
42	3E/F6/SXA6HOqHDy1q1QMWSA/PXB441GKbSnfA4pjTBSnMP5WL+iBruYHp9tX6EJ	Root certificate at bottom
43	IJq5Fe+RZYNh/mLuB+0Qf10Cn4sqsxZGf8DxhJNHU+2mSq7h319exxioDcwiVwZ0	
44	xqUKrvBs6jBtOg4Kvs3za4AHyP91SAA2vp42MwtBdis8O3wx+vm/HoVr0fHum/W1	
45	Z92iwR9JxA4tKoJHVpBwMVnrK7TrAgMBAAGjUTBPMAsGA1UdDwQEAwIBhjAPBgNV	
46	HRMBAf8EBTADAQH/MB0GA1UdDgQWBBRovp8hDhWn5AhQOs9fosAUBWEngjAQBgkr	
47	BgEEAYI3FQEEAwIBADANBgkqhkiG9w0BAQsFAAOCAQEAV5nsa91K4BI3CAuBgMMe	
48	YSPExL5kExPQcFtJtlFjnC5uTC4I0MQQFfuralBQfr4DokDXK5892npt5DAFors5	
49	k60GpH1bRPBaoxJhK0TaSimL6yAZ0fZo380nrVRDZKlug/1VeXF/2h1TeZc73utt	
50	k5sqewqTQ04NHrBp0Udybmpf2L5BJhlctoH490PI0HEbmVDE0WALKX1iqsuEZrmm	
51	Mr10MRRLs2ZBpX2WSqw90IrmpWI3fds2kE2S1DvuaNcc7B8W0hgWT3HxnyuMTyZi	
52	b6Yf7hb5F3ZSOpHFU1bZ22tqk4qouEigyoaUZaLcVhV5UdBCCvwyU19yU6+EscnM	
53	Ww==	
54	END · CERTIFICATE	
55		
		<ul> <li>Iust 1 carriage return</li> </ul>

Tomcat证书捆绑包

创建CUPS证书的证书捆绑包。捆绑证书是指将服务器证书放在顶部,中间证书(任意)和根证书放在底部,然后一(1)回车符。

<pre>MITFqTCCB.05gAwTBAgTEN:Heb/GAAAABTABETAHEskghkiG6w0BAQ=FADEBENRHADCYTK CIELESPLGGGRKVETUT3:HAMEWDKTCCIELESPLGGGRKTVELENMOGIUHEAMOUJIX SU4yMDA4UjItQ0EwHh-IN4yMaMDA0MTMaOTUOWh-NMjUAMDA0MTMOOTUOWjBjMQaw CQUDVQQEwJJTjCORAwAAIUCCNET 21yhemEADDAEBQUVBACTAJADDDCGRAwAAIUE ChaffT214Y28UDGRAWAAIUCCNET424yMSARAFVAUEAUMAVATALE3QAT295 MITB51ANB9kghkiG6w0BAQEFAAOCAQ0AMTISCGKCAQEAHD5jsWyhiG4TESSANCO 2105LENQSERDVATTCFCCELV44ayKSARAFVAOLUEAUMAVATALE3QAT295 MITB51ANB9kghkiG6w0BAQEFAAOCAQ0AMTISCGKCAQEAHD5jsWyhiG4TESSANCO 2105LENQSERDVATTCFCCELV44ayKSARAFV9ADAFVLFW96AEMTH-50AT5 wFTqCT91j1SRSC4Ocu63J8AATH1/yQQ1HeDmLpOpF/HHUsc1u5DB46TV1EXBAS LIX1bm49FFCB80guxJZUC457wmAgACgKvwE53BtWH25Tp1WF4ALECD1636F23NC7 bwTLAQABe4CfC2CAns+HQUVA01BBV%F1FUFW3BQHAABAFC5+xgDC76AUM49F04N0AG BETEFORMW/JA6CITENEVOjSWY/VA5A5tMW85CALUA4CCC56AQUF9EMMOA4G A1U4DvE5/wQEAwTF0DAABGWYMREEEAABgg6pbKBuIZcud6VadC5jb20wHQTUNKO BETEFORMW/JA6CITENEVOjSWY/VA5A5tMW86AGAU141VQMMAAFC5+xgDC76AUT9FAMCAAG 1U4DvE5/wQEAwTF0DAABgWYMREEEAABgg6pbKBuIZcud6VadC5jb20wHQTUNKO BETEFORMW/JA6CITENEVOjSWY/VA5A5tMW86AGAU141VQMMAAFC5+xgDC76AUT9FAMCAAG 1U4DvE5/wV02ge40910VJM013J2M5Q04Q9C920haIntAAAAFC5+xgDC164C14G1H50g1TLEED FWNvF19JZXJ0aWZP1270UJLabj1XEQ04Q9U3UAIAAAAAAGTJ1D0E50045001D00FWh V0106j3w0F1yLUBELENDV4JJJ3M5Q04Q9U3UAIAAAAAAGTJ1D0E50045001DE1ENDFWB1Ymap YUJWR61edXJ0/W10F2UX0JWD2270C15XJNN1P23ACW1DWBA2CNUUHEBgeTEBEF BQcwAaaBmmakXXAELy@v00490JXXJ04yMDA40J1t00E20h2CNUBEBACCNUUHEG9 YUJWR61edXJ04VU70F2UX0JW29221012XJV1FEBACCNUUHBA4C1400J9IAIT7WE7bA6C0 UXR3gR8q23E91YSC21TLe/XVpc1C59H6krL/8PEABCNUUHBA4C1400J9IAIT7WE7bA6C0 SUKF59HVY0ugebKNb1a6G4F31F21TERBD04CgYmbV3D2JZV7VTSFBBACCNUUHBA7 BAUF9FWY0ugebKNb1a6G4F31F21ENEPUFYK1La00J9IAIT7W4F7bA6C0 SUKF59HVY0ugebKNb126G4F14ERBUEAYAVTSFBBACCNUUHBA7 SUKAbaABAAATATAYYZ92F140AD551F21FFFBACCNUUHBA4C1400J9IAIT7W4F7bA6C0 SUKF59HVY0UgebKNb126G4F31F21FFFFBACCNUUHBA4C1400J9IAIT7W4F7bA6C140047 SUKF59HVY0UgebKNb126G4F31F21FFFFBACCNUUHBA4C1400J9IAT7W4F7bA6C140047 SUKF59HVY0UgebKNb126G4F31F21FFFFFFBACMA4FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF</pre>	
<pre>Climilty_LogGeRUPU39eMREwDwYRC2Imilty_LogGeRYFDLENdBOAlUEAMOUTHOUTDUBJENd SUdyMADUJ = COURTHEINGHMANDAUTHOUTDUBAL CQUIVQQEWJJTjEOMAwGALUECENFa2FybmEwDDAREgNVBAcTA2JnbDEOGAwGALUE CAMFT21a123eDDAREgNVBAsTA2thcjETMEYGALUEAMGFWNHwWJIAR1cQQU395 CQUIVQQEWJJTjEOMAwGALUECENFa2FybmEwDDAREgNVBAcTA2JnbDEOGAwGALUE CAMFT21a123eDDAREgNVBAsTA2thcjETMEYGALUEAMGFWNHwWJIAR1cQQU395 FEmcCND12zEQ2GCR6/LbQUC+tLhapDNEDG(KCQEAHADFbJFW)GEABTML96f+DMN0G FEmcCND12zEQ2GCR6/LbQUC+tLhapDNEDG(KCQEAHADFbJFW)GEABTML96f+DMN0G FEmcCND12zEQ2GCR6/LbQUC+tLhapDNEDG(KCQEAHADFbJFW)GEABTML96f+DMN0G FEmcCND12zEQ2GCR6/LbQUC+tLhapDNEDG(KCQEAHADFbJFW)CDGBACNUCMG5 DEDAKTDM8042E2cIPO13aavk5V+vriGuMyV399vGrEu49kBOED2M+mmfcnf20xT5 wFTqCT9ijSNSC4Ocuv2iJ38A7HL/yQU1NeDmLpG0F/HKUccluBgBdfYUIEXDAG DAWEFSYCRSUQUAUZIJ88X7UC457NmAAGCGFVB523dWN145TJ1KFA2CB0355EVTSOC7 bwIDAQABoACTfcCCCAnswHQTDVR01BEVFAYIKvYEBQUHAVECCC6AQCFBMCNAGG DAWEFSYCRSUQUAUZIJ88X7UC457NmAAACGFVB523dWN145TJ1KFA2CB0355EVTSOC7 BEVEFOxvmU/jdcIIMED0F40049U7J1MNB5gLaW9bV9b09b09b050c640dC5350204014UJ0007MACF F1+JMEQTY3CLJ1MESUGV4017J1MMESgLaW9b09b09b09b050c640019b1202071/JTWS075 JTTWJ3Vydm1j2XM6Q049U7J7J1MMESgLaW9DV9D09D20240049U7J02ahc2M9D JYJ0HaC1aMJyDYDV0WSUGSpbNQwboCCc6AQCFBWEBEIGeMTG6HIGmBggrBgFF BQCWAaaBmmx17XAEJyDYQUEUED0VN1capY2VTLED00FUNchap2307YJCRbD44s ENE95UyzEQ21j500/VUFDEXJ04W27JXTUED0VN1capY2VTVIENBAGCNUTHBDAY JYDNB5258MA503JdHHwYQUTWYEBEACMUHBDAUCJVJXJWKBBAGCNUTHBDAY DVTJNB61adJyDYTV0WWWUGSpbNQWJDACXWCAWCAQCAUVYJWYTWRBBAGCNUTHBDAY DVTJNB61adJyDYTU0WWWUGSpbNQWJDACXWCAWCAQCAUVYJWYTWRBBAGCNUTHBDAY DVTJNB42626jYSC1im1CapY2VDLED0VN1capY2VTLED0F0Nchap2307YJCRbD44s ENE95UYCEQ1b1D2D0VYUTWYUWWYEBAGCNUHBDAYUYUTWYBBAGCNUTHBDAY DVTJNB4040J1SC01ATAUF9045UYUTWYENAUHY21MVYTWYTWRBBAGCNUTHEBAY DVTJNB42626jYSC21im1CapY2CQEANTDY22AUED050AD115YC61BAUGAUEANDY21JFY SNDB504VCC2NIIZFYUQ0ENTDY22AUED050AD115YC61BAUGAUEANDY21JFY SNDB504VCC2NIIZFYUQ0ENTDY22AUED050AD115YC61BAUGAUEANDY2031SNTHWMITYZ1 NUED04DF2VCZIIIZFYUQ0ENTDY22AUED050AD115YC61BAUGAUEANDY2031SNTHWMITYZ1 NUED04DF2VCZIIIZFYUQ0ENTDY22AUED050FAD15N5AD</pre>	
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<pre>S CQTUYQQCEWJJJ2EMAKGALUECEMF22FybmExDDAREgMVBAcTA3JmbEDEMAkGALUE CMFY21aY28wDDAREgMVBATA3chcjEVBCAUCAMPAWJacRL23CuY28c CMFY21aY28wDDAREgMVBATA3chcjEVBCVGAUCAMPAWJacRL23CuY28c ZIUSLIHQ228RDQw1vT3CTGGutwdayRSthY=00AARPw1PWgCADJMArEs0fM00R6 F macChill2ECQGCR6b/bWgC+ELhogPURD448tiaPtaFceJ26anCUSsWVPahp2H EbgNKhW94EB21POT2axAST+riGuHyU298v6cEu49kB0ENN+mafcef3COUT5 wF2GCY9jjESKC4Ocu6i3J8AG7Ni/yU20HUBCmL26pF/HUXr1abpBdfiVLEKB45 IX12m49PFCR80gutJZUC457wmbgACgRvwE5s8HvW1s4Tp1WF4AE53as5s2730C7 bwIDAQAbo4TCfsCCAnswWQTUNO1BETWFAJIKvYBBQUHAECCGCAGAUUT9WCHAAF BDETEFOwrM7/jdcIINEUOg1WR/PREEzARg0gbspbBC2CCGGAUUT9WCHAAF DF11MQAbo4TCfsCCCAnswWQTUNO1BETWFAJIKvYBBQUHAECCGCAGAUUT9WCHAAF BDETEFOwrM7/jdcIINEUOg1WR/PREEzARg0gbspbBC20CCGGAUUT9WACASCH00FUVT0R0 BBETEFOwrM7/jdcIINEUOg1WR/PREEzARg0gbsgbbSZ0FJZCGVC650AUUT9WDW TV0A0H5AwOFIyLUNBELNOPVdJT3IMH0048Q5BatM023ACUU704AF TV0UAH5JxX02WF3JZUC457Vmb1253AUN023AC3UD023hc3H9 U1JRRG1sdHJyTNV0AF9UG9phAcQuE046Q58UMD1AdJAG4b54DQ01TEERD BFVEF0FTSJZX02WF3UG9D1JSUG4WA49Uj20UFBWEBB3CeHICGH5GRBggHSgF SD20F0AaaBmakTXAELy90049DJJX8UG4MA4Uj1500E-0049OUBLENDFUBITmap YyU9MEc1eSUyMFN1cafpY2VS1ENDFVN1cafpY2Vs1ENDFUBINFMBQERGCH01hcaRp TVJURASCB3DHWPVD2WJU20YJX8UG4MA4Uj1500E-0049OUBLENDFUBITMAP YU7MBC1eSUyMFN1cafpY2VS1ENDFVN1cafpY2Vs1ENDFUNHPBJ23VYXRp524s EEM9UyxDQ01jb0/YU7DX30#BgFF20CA5JAUH29AUH2YMF8EGCH01hcaRp ZmjYTXRp525BAUK053JgHHFV9VJX8UG4MA4UJ1500Z4VJXWFWBABCCH01hcaP7 F0XJ6FyFVV0ugeboRhLas4HhgbHb0c53wCAWQCAQ14VyXWFBBAGCH01hcaRp ZmjYSBfjHZSWHM0491a7dbJu2affEew0Eh7112RR0BCag5wD0AACCAgEXUVJ SmMOFWgJWHhishn/XCFChLMF654IFFINTBgsogax1JXL1d00JJNAI7Xd+F0A6Q UNRjRR3q2d2y1YSC1atF/AVpC1C53N6EXFJYF8BbmmpubQVdqRUCASAFABB MBM0FWgJWHA1AUJ1EQ0EWHACMNYMCTISHTBABQHS1G5W0BAAFADBB MBM0FWgJWHA1BAUJ1EQ0EWHACMNYMCTISHTBABQHS1G5W0BAAFADBB MBM0FWgJWAH3D4UJ1EQ0EWHACMNYMCTISHTBABQHS1G5W0BAAFADBB MBM0FWgJWAH3D4UJ1EQ0EWHACMNYMCTISHTBABGAASGWABAFADBB MBM0FWgJWAH3D4UJ1EQ0EWHACMNYMCTISHTBABGAASGWABAFADBB MBM0FWgJWAH3D4UJ1EQ0EWHACMNYMCTISHTBABGAASGWABAFADBB MBM0FWgJWAH3D4UJ1EQ0EWHACMNYMCTISHTBABGAASGWABAFADBBBH MBABCUYCTSTIFFYF</pre>	
<pre>ChtfT21+T21+T21+T21+DDATE_dVTSATA2thcjTTMTVGATUELAMDFAHI+MV7LARI+20/T29+ MTIBIjANBgkghkiGw0ENZATA2thcjTTMTVGATUELAMDFAHIVTGARIALRI20/T29+ MTIBIJANBgkghkiGw0ENZATA2thcjTTMTVGANDFAUFWGCAAJMMr90f41NSAthC 2105LH0228DQ021/T2CTGCut+dayK8kihY=0AhAPHIPWGCAAJMMr90f41NSAthC 2105LH0228DQ021/T2CTGCut+dayK8kihY=0AhAPHIPWGCAAJMMr90f41NSAthC EbgkthM801428E2LPDT2artF5V+r5(ud)V395%CELU498DEDENIMHmfcnf20Art5 In wtFqCT9jiJESK040cut4358A7N1/yJQJINeUmLpGpf/HKUrclu5pBdfiVLEXENS IX1md99FFGR83guaJCVC457vmAgACgKvwE5s3HvM1=T7JNE4A2t5Ma35%st7000FM AlUdDeE/wqEAvTF0AABgW7HEEEAARgg9bK8ALTCud6VadC5jb20HFMCURAFG AlUdDeE/wqEAvTF0AABgW7HEEEAARgg9bK8ALTCud6VadC5jb20HFMCURAFG BEYEFDrumV/jdcIIDMCV0jAWY,PKA6StMt86CAUId1wVDMAAFGC1=ADQUTEMK0AF BEYEFDrumV/jdcIIDMCV0jAWY,PKA6StMt86CAUId1wVDMAAFGC1=ADQUTEMK0AF Pl+jM8QFY8eCMIHIEgNVHR8EgcAwgb0wgbgggbeggbSGgbF3GFW018vL0N0PVMs V100djAw0FTyLUNBLENOVA7J1MMBNMiATJ1DRFAAQ0450HNiAG0jJTIW330V3 JTIWUVJydmij230404903VJMaj3XM409409294mLANAJAG450HNiAbG0jJTIW330V3 JTJWEJyd0j13004901740ZW30490295%DIBENGK1GHUMBAAFG1=HEBP BQwwhaaBmmkYXA6L94Q04901XSU4yMDA40J1FQ0E-Q049QU1BLENOFVB1mmp TyUyMEteSUyMP1ach272VLENOFVM1ch2FYXUEENOFUNHWhD232VYYMN9244 BEASUYM201j500/V70FDXX7047272707HICh2FYXUEENOFUNHWD223VYYMN9244 BEASUYM201j500/V70FDXX704727107HICh2FYXUEENOFUNHDD223VYYMN9244 BEASUYM201j500/V70FDXX704FyU059bH0491VX1CAWQCAQUAVVJIWYBBAGCNAUHLbaw GDARBgsbBTBQCDATARBgyEBFEQCDAJAMBgkghkiG&amp;wDAAQFAAOCAQEAUJDy MM0FFgLMHishn/XCCELLHFGS4IEFEINFBgsogaxv13LLA00J3N17XH7bAGQ UNDjRS325JMA5W30aHh&amp;PYYTWEB4HIDIEW+0XA0VbBH2ACAQEAUJDy MM0FFgLMHishn/XCCELLHFGS4IEFEINFBgsogaxv13LLA00J3N17XH7bAGQ UNDjRS325JMA5W30AHABJ2CTAHJ55V4015MYCD8hD4DJ11/ScAmpwHEAS SayySK5jMA5WMA6031C4DJa1K45Y50FAMACAQCAQUAVJTWTBBAGCNAUHBBw GDARBgsbBTBQCDATARBgyEBFEQCDAJAHBBAKGCS6GBAQ2FAADGA MUDYJXS04yMDA4UJ1+Q0EWHABAYFDJIAFK1/SEBEABMPUHYCIINEBJEBF TBEGIN-CERTIFICATE MIIINTCCAMBgAKIBAGTQUXMMRgFEF79Jqac4Ga04jjAMBgkghkiG&amp;W0BAQ2FAADBB MM4bEYTEZDX55FyU0GORNHABSSEAUHWYCIINIEPyCOFNIEJCJ0ENTS LK00GRHSBBAACAJNUBMWNRKTTrAABHBAACJUEWWEBACHBDANAggK AAEDQ1XX896FMAATABAJQUXMRgFEF79</pre>	
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<pre>F mmCvNol2 = E0q8QCR6b / kbQuC+6L:hsgp IM81448 = LaAF4.mc2 / SdmCU9 = JNCynbpH E0q8XIRW142B2 = L80/II = arx 50 + vr16u3/V399 + cEu49kB0CN2H+msCon2B0xT5 wt FEqCY9 is jKSRC40cu6 is JSSATHi/y 02011 NetImalp6P / HKUr = L1059 EditV1EXB8 IL12bm49PFCR30 guxJ2VC457 vmAgACgKvvE5 = 3H+W1 = 3Tp IME + A2E-3n a set = N30C7 bw IDAQAB0 + IC facCAn = wHQTUNR01 EBT wFAYIR wTB8QUHA*EGCC=6AQUFEWHCHA46 A lUDAWEB / wQEAr1FolDA_BGWVHEEE = ARgg9pbXBuZcudGVadC5 jb 20 wHQTUNR046 DEVEFOx:wW/ jd IIMEVD0 j wK/ yRA0 \$ktB86ALUG1WQURAECC=6AQUFEWHCHA46 A IUDAWEB / wQEAr1FolDA_BGWVHEEE = ARgg9pbXBuZcudGVadC5 jb 20 wHQTUNR04 DEVEFOx:wW/ jd IIMEVD0 j wK/ yRA0 \$ktB86ALUG1WQURAECC=6AQUFEWHCHA46 DIVIDW3WOFI yLUNBLENOFVdJT j IMDDSMixDT j IDRFAsQ049UHVibG1 j TI*82V5 JTI+UGVydm1 j 2XHsQ049U2Vydm1 j ZXHsQ049Q29uEmIndXJAd01 wbixEQ2IILERD PWN+b79 j ZXJ00 X7 27 27 02 V11 dm6 j YKHp80 ShxX100 29 JAC2U h0 3 gWNQQ2xhc 3H9 JYJMR61 = 8HJJWFN10 - M372 J2 20 V12 JAm6 y KHB86CNAUHDED WJC00 UBLENOFVB1 Ymap YyUyME 1 = 8UJWFN10 - M2YV3 ELNOFVH1 cn2 yYV1 ELNOFUH vmBp2 ZVYYIRpb24 = REMSU yREQ i jb 20 / YDFDZXJ0 WZ 27 YF02 TF3 iXH1P3 i = m17 jd HN iYHN FWNL RM1 L RM Zm1 jYKHp 25 SHK0h3 J gdH HWQ YJ WY HITRS y GAURY 12XL 140 GYJNIT XHF0AGQ DAXEggEFEQCDATARBg9rBgFEFQCD3 jAHBg4rhA1G5 WDBAQFFAACCAQEVJD y ZmACMFg1 H4 his IN /XFChLINPES 41 H HJDFHAbc 91 wCAWQCAQI wJ XJ XW YBBACKNUTHEBow GDAEBg9rFYOugeboRYDL = a HHqbrHabc 91 wCAWQCAQI wJ XJ XW YBBACKNUTHEBow GDAEBg9rFYOugeboRYDL = a HHqbrHabc 91 wCAWQCAQI wJ XJ XW YBBACKNUTHEBow GDAEBg9rFYOUgeboRYDL = AHqbrHabc 91 wCAWQCAQI wJ XJ XW YBBACKNUTHEBW MUK yBWACYXCCI III 27 yCQEGRYDY 2 SWREW YWCI J ZW YDW ZW YWEBACKNUTHEB MUK YBWACYXCCI III 27 yCQEGRYDY 2 SWREW YWCI J ZW YDW ZW YWAU ZW YW MYBBACKNUT ZW YW YW YW YWY YWY YWY YWY YWY YW YWY YWY</pre>	
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LX2bm49PF0RS0guxJZUC457vmAgACgKvwE5s3HvW1b3Tp1WE4A2b3n3s9e3Y80C7         bwIDAQABo4IC5sCCAnswHQYDUR01BEYwFAYIKwYEBQUHAwEGCC-GAQUTEMCHA46         AludhwE6/wgEA/FD3aBAGHVTREEEARgg9pbXEXEL3CudGVadC5jb204HQYDVA66         BBYEPOxvmV/jdcIIDMEV0jsWR/yRAo5ktMB6AlUdIwQVMEaAFGi+nyEOFafkCFA7         P1+jMEQTYSeCHIHLBGHUVARSEgcAwgb0wgbaggbeggbSGgbF2CFW01B01joTIwSVS         V010MjAwOFI yUNBLENOVUATJIvMVDKNistnjD1TRA20049UWVibG1joTIwSVS         JTIwT3YydmljZXJOwZPY2F0ZVJIdm9jYXRpb25MaXN0P2Jhc2U/b2JgZWN0Q2hc3M9         PNNvbT9jZXJOwZPY2F0ZVJIdm9jYXRpb25MaXN0P2Jhc2U/b2JgZWN0Zhc3M9         YUJMRG1sdKJyTNU0aWSuUG9ph0wgbogCCs6AQUFBwEBSIGeNtFGdHTGGHTGBBggFBgEF         BCcwAoaBmmukYXAEJ9*Q049UJVMIJSU49MDA4UjICQDE20049UUBLENOPUNvbmJgZ3VYXRpb24s         REMSUyzE01jb20/V0TDZXJOwZPY2F0TF3YXNIP29iamUjdENoFUNItcgHTGABGCNkUHLcq7         F0XJ6ByFWYOugbeoRYbLss4HhgbrHoc91wCXWQCAQUvJWYJKW7BBAGCNkUHLcq7         F0XJ6ByFWYOugbeoRYbLss4HhgbrHoc91wCXWQCAQUvJWYJKW7BBAGCNkUHKBBow         GGAREggrBgEFPCCDATAREBgrBgEFBgCPBjAIBg4pk1G6w0BAQ=FAAOCAQEAVJDy         amOFWgJWAHishn/XCCFLMPG54IF*EINFEgooguv12L1do0J3HAT7W4F0AGQ         WUKyBN3q326yYTXC21tHYE9BaCFNY254MEXBWFTC21m12PyLGQBGKYBUEXBUGCAUUKBBow         ShcHuCCTKCIINFC-TE         MIIDXTCCAkWgAwIBAgIQDXWMEgF8+79JGAC4G204V12smBAGCMXUC3gWC3GAA4BS9FADEB         MHMwEQYKCZIINZ2PLCQBGKYDY254MEXBWFTCZIINZ2PLGQBGKYBUEXBUGALUE         ALUGAMOUJIXSU44MAUJICQUEAMMMWTISIMHAMWTCZILIZPYLGQBGKYBUEXBUGALUE	
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<pre>PHNvbT9jZXJ04W2pY2P2VJ1dm5jTXRpb2SM4XN0P2Jhc2U/b3Jq2WN0Q2mhc3W9 Y1JHRG1sdHJpYnV04W9uUG9pbnQwgboGCCsGAQUFBwEBBIGeHIGqMIGnBggrBgEF BQcwAoaBmmukYXAELybvQ049Uj1XSU4yMDAUj1EQDEsQ049QUIBENOFVB1Ymxp YyUyMEtleSUyMFN1cn2pY2VaLENOFVN1cn2pY2VaLENOFUNtm2p233VyKRpb24s REM9UywEQe1jb20/Y0FDZXJ04W2pY2FDZT9JYN1P29iamVjdENsYXNFWB1cnRp ZmljYKRpb2SBdKRob3JpdHkwPQYJWYEBAGCNaUHEDDAwLgYmWyTBBAGCNaUHERp ZmljYKRpb2SBdKRob3JpdHkwPQYJWYEBAGCNaUHEDDAwLgYmWyTBBAGCNaUHEBDow GDARBgyrBgEFBQcDATARBgyrBgEFBQcDAjANBgkqhkiGsw0BAQsFAAOCAQEAVJDy amMOFWgLW4hishn/XCPChLMPG54IE+EINTBgsoqxsv13XL1do0JjNA17Xd+PoAGQ UKNjRN3q26jYYSC2isTLe/aVpc1C5yN6krL/0PEnBmmopubQUdqRUCbn4z21iNV shcBrUeOY0Vr2/EVeBOVb1DGowfraMjS940k15sYc88h0bopL11/sc2mpw5m22 R5nyys3XfjkM2SwMh0+5us7dbJu2sflew0Ehr12tRKCaq6n9uDBUXCjQFdq Y2A+LJGew1AuPe4+sq0xjYKYNP8m8+WIBIUEv+oXAoVbs8ffQFoFXYf/ZmWrBJRP 2v/At0na21UdcRFUPW== =END-(CERTIFICATE MIIDXTCCAkWgAwIBAgIQDXMNEg78t79Jqac4Gs04jjANBgkqhkiG8w0BAQsFADBB MRMe2QYKC2Imi2PyLGQBGRYDY29tMRewDwYKC2Imi2PyLGQBGRYBUsEXMBUGA1UE AMOUJ1XSU4yMDA4Uj1EQ0EwHcNNjMoTISMTMAMIsMKIGNNSAfHByGHAIBSWAGGK ADIEAMOUJ1XSU4yMDA4Uj1EQ0EwHcNNjMoTISMTMAMIsMximyMsNa6644y04LB 82/Fe/SXAHOqHDJq1QMSAFyEB441GKDSnfA4pjTBSnMPSMt+iBruYHp5XEFJ 7C8useeDiJPUBWAY96F4mm+Vh6SERqWekr1JAFIBNAPSMt+iBruYHp5XEFJ 822iwR9JNA4tKoJHVpBMVnrK7TrAgMBAAGjUTBMASGANtHBWANg4KAJAHIBMAwggKK ADIEAAMOUJ1XSU4yMDA4Uj1eQ0EwBsSBErUNGCORRN141HEXX0VPTEsq2UBRJq4 1222iwR9JNA4tKoJHVpBMVnrK7TrAgMBAAGjUTBMAsGA1UdDwQEAwIBhjAPBgNV 1HNBA58EBTADAQH/MB04J18Q0FAAOCAQEAV5ms91KHB1SCAUBEngjAQB5kr BgEEATI3FQEEAWIBADANBgkqhkiG9wBAQsFAOCAQEAV5ms91KHB1SCAUBBM6 Y3FEL5EEPQCFv5tFjrCSUTC410MQQFfw12BcANbACS92mpt5DAFor5 k60GpHlbRFBaoxJhKOTSSinf4901TBMAsGA1UdDwQEAwIBhjAPBgNV HNMBA58DETADAQH/MB0GA1UdDgWBBcorg8DhJMm5AbQOsf5maD1WEngjAQB5kr BgEEATI3FQEEAWIBADANBgkqhkiG9wD8ADFFBDhFDSDAFor5 k60GpHlbRFBaoxJhKOTSSinme901cmB125BDh1tcoH90PTDEWALTX1iqsuZzrmm Hz10MRLe22BEDXB890901cmW0125BDT0ADCF3BUNDEDWATAUNTzii</pre>	
<pre>Introduction in the interval in the process of the interval of the interval int</pre>	
<pre>Provide a Bernark VIA 6 Ly &amp; vQ 04 9U yIX SU 4yMDAU 01 F0 02 E Q0 49 QUI BLENOFVB1 Ymap YyUyMet 1 e SU yMFN1 cn 2p Y2 Va LENOFVN1 cn 2p Y2 Va LENOFUN vb 2p 23 VyYRpb24s REMSU yu EQ 1 jb 20 / YOFDZX J0 aW 2p Y2 F0 2T 9 Y YNN P2 9 i am Vj dfw1 9 YNN e FWN1 cn Rp 2m jYXRpb25BdXRob3JpdHkwPQYJKwYEBAGCNxUHEDAwLgYmEwYEBAGCNxUHcq7 F6 XJ 6B yFWYO ug ebo RYL bs a 4Hngbr Hobe 9 lw CAWQCAQUF JwYJKwYEBBAGCNxUKEBow GDARBggr BgEFBQcDATAKBggr BgEFBQcDAjANBgkqhkiG9w0BAQsFAAOCAQEAVJDy 3mMOFWgLW 4hi shn / XCFChLMPG54IE+EINTEgsoquev 1 3XL1 do 0 jNAI 7X 4F F0 AGQ UXR jRN3q326 yi YSC2 itTLe / aVpc1C5 yM 6krL / 0 PEnBrnmopubQVdqRUCh 4 + 21 iNV 9 NC FU 40 YOU V2 / EV eBO bV b1 DG ow fr xM 5 9 + 0 k1 5w Y c 0 8 hOb op 11 / S c2mpw 5m 22 80 R5n yyx 3X fj kM2 3w vMn0 + 3 us 7 db Ju 2 s fl 6 sw 0 Eh F1 2 tRRQHC ag 9n 9u QD SUXC jQ Fdq Y3A+LJGew1Au P4 + ag 0x jYTYP 0 m 8 + WI BI UE v+ 0X Ao Vb s 8 ff QF o FXT f / zmWr B JR F 2 v / A to na 31 Ud c RFU Pw ==  END · CERTIFICATE MI ID XTCCAkWgAwIBAgIQD KWD Z 9 tHR Pw W YKC2Im i 2 PyLGQBGRYBU = EXMBUGA1 UE AMOU y1 XSU 4yMDA 4U j I tQ 0 E wHR Pw W YKC2Im i 2 PyLGQBGRYBU = EXMBUGA 1 UE AMOU y1 XSU 4yMDA 4U j I tQ 0 E wHR Pw W YKC2Im i 2 PyLGQBGRYBU = EXMBUGA 1 UE A AMOU y1 XSU 4yMDA 4U j I tQ 0 E wHR Pw W YKC2Im i 2 PyLGQBGRYBU = EXMBUGA 1 UE A AD UA 2V X 5 U YM DA 4U j I tQ 0 E wHR Pw W YKC2Im i 2 PyLGQBGRYBU = EXMBUGA 1 UE A AD LAQCX ac i 3 yOU ym 6 Gk o S be 9 S a S K tU NGC COR FIN 14 tW E X 10 YP HT 5 ag 2U FR A A 0 I BAQCX ac i 3 yOU ym 6 Gk o S be 9 S a S K tU NGC COR FIN 14 tW E X 10 YP HT 5 ag 2U FR A A 1 U EA AMOU y1 XSU 4 yMD A 4U j I tQ 0 E wg EI AMOG C S G S I S D Q EG RU A HI BW Awg GE K A 0 I BAQCX ac i 3 yOU ym 6 G k 0 S B S A S K tU NGC COR FIN 14 tW E X 10 YP HT 5 ag 2U FR A A 0 I BAQCX ac i 3 yOU ym 6 G k 0 S B A 2 FA AD M H M H K 2 K 2 W Z 0 x 4 U tr VB 5 6 J B C Q 4 Kr 3 s a 4 AH P 9 I S JAA 2 Y 4 20 Wr E D A S A 2 W Z 0 Z S A W Z 0 Z S A S A W Z 0 Z S A S A W Z 0 Z S A S A W Z 0 Z S A S A W Z 0 Z S A S A W Z 0 Z S A S A W Z 0 Z S A S A W Z 0 Z S A Z A A W Z Y</pre>	
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<pre>2mlj1Akpb2SbAAk6b30pAntWPQ13/W1bbAc(NUNDLAW2JmWW1BbAc(NU01hcq/ FoXJ6ByFWY0ugeboRYbLss4HhqbrHobc91wCAWQCAQ1wJwYJKWYBBAGCNWURBBow GDAKBggrBgEFBQcDATAKBggrBgFFBQcDAjANBgkqhkiG9w0BAQsFAAOCAQEAVJDy 3mMOFWgLW4hishn/XCPChLMPG54IE+EINTBgsoqxsv13XL1do0JjNAI7Xd+FoAGQ UXRjRN3q326yiY5C2isTLe/aVpc1C5yN6krL/0PEnBnmopubQVdqRUCbn4z21iNV sNcBrUeOY0Vr2/EVeBObVb1DGowfraWj59v40k15wYc88h0bopL11/3c2mpw5m22 R5nyyx8XfjkM2SwvMn0+Sus7dbJu2sfI6sw0EhF12tRRQHCsq9n9uQDSUXCjQFdq Y3A+LJGew1AuPc4+sq0xjYKNP0m8+WIBIUEv+oXAoVbs8ffQFoPXYf/ZmWrBJRP 2v/At0ns31UdcKFUPw== END.CERTIFICATE MIIDXTCCAkWgAwIBAgIQDXWNEgF8t79Jqac4Gs04jjANBgkqhkiG9w0BAQsFADBB MRMw2QYKC2Imi2PyLGQBGRUDY25tMREwDwYKC2Imi2PyLGQBGRYBUsEXMBUGAIUE AxMOUy1XSU4yMDA4UjItQ0EwHhcNMjMwOTISMTMMsIsWhcNMjgwOTISMTMyMsIy WjBBMRMwEQYKC2Imi2PyLGQBGRUDY25tMREwDwYKC2Imi2PyLGQBGRYBUsEXMBUG AlUEAxMOUy1XSU4yMDA4UjItQ0EwgEiMA0CSqGSIb30QEBAQUAA4IBDwAwggK AoIBAQCXa6tjSy0Uyn6GsoBs98sSKrUNGbCORKnI41tWEiX0vPITEsq2UPRJq4 7C8useeDiJPUbMAY9e6F4nm*Vh6SEKqtwekrIJAFImV4hxyBaR0Ws64b4y04Lh8e 3E/F6/SXA6H0qHDy1q1QMSA/PXB441GKbSnfA4pjTBSnMPSWL+iBruYHp9tX6EJ IJq5Fe+R2YNh/mLuB+0Qf1OCn4sqx26f8DxhJNHU+2m3q7h319exxioDcwiVz0 xqUKrvBs6jBt0q4Kvs3sa4AHyPS1SAA2vp42MvtBdis003wxtvm/HoV0fHum/%1 292iwR9JA4tKoJHVPBWMVnrK7TrAMBAAGjUTBPMASGAlUdDwQEAwIBhjAPBgNV HMBA£9EFTADAQH/MB0GAlUdDqQMBBRovp8DhNm5SAhQ0s9foaDBWEngjAQBgkr BgEEAYI3FQEEAwIBADANBydqhkiG9w0BAQsFAAOCAQEAV5nas91K4BISCAuBgMW YSPExL5kExPQcFtJtFjnCSuTC4I0MQQFfuralBQfr4DokDXK5892npt5DAFors5 k60GpH1bRPBaoxJhKOTaSimL6y20f2o380nrVRDZK1uq/UVeXF/2hITe2C73utt k5sqewqTQO4NHrE90Uyhmp12f58DfhlctoH490PI0HEbmVDE0WALKX1iqauE2rmm Wr10MFREs22BoX2W8gr90IrmW13fd22k2231Dvuahcc78BW0hoWTHH2xxii</pre>	
<pre>FoxScbyFw10ugeboxHbLBstnnqbrHobc91wLAWQLAQUWUBAWHDAWHDAWHDAWHDAWHDAWHDAWHDAWHDAWHDAWHD</pre>	
<pre>GLARBGGTBGTEBCELATARBGGTBGLETBQELAJANBGRGTALGAWOBAQETAACCAQLEAVDJY SmMOFWgLW4hishn/XCPChLMPG54IE+EINTBgsoqxxvl3XLldoOJjNAI7Xd+FoAGQ UKRjRN3q326yiY5C2itTLe/aVpc1C5yN6krL/8PEnEnmopubQVdqRUCbn4r2liNV sNcBrUeOYOVr2/EVeBObVblDGowfraWj59v40k15wYc88h0bopLlI/Sc2mpw5m22 R5nyyx3XfjkM2SwwMnO+3us7dbJu2sfI6sw0EhFl2tRRQHCsq9n9uQDSUXCjQFdq Y3A+LJGewlAuPt4+sqOxjYKYNP0m8+WIBIUEv+oXAoVbs8ffQFoPXYf/2mWrBJRP 2v/At0ns3lUdcKFUPw== cEND·CERTIFICATE MIIDXTCCAkWgAwIBAgIQDXWNEgF8t79Jqac4Gs04jjANBgkqhkiG9w0BAQsFADBB NRMwEQYKC2Imi2PyLGQBGRYDY29tMREwDwYKC2Imi2PyLGQBGRYBUsEXMBUGAlUE AaMOUylXSU4yMDA4UjItQ0EwggEiMA0GC3qGSIb3DQEBAQUAA4IBDwAwggEK AoIBAQCXa6tjSy0Uyn6GboSbe983sIKUNGbCORKnI41eWEiX0+PITEsq2UPRJq4 CSuseeDiJPUbWAY9e8F4nm+VhGSEKqtwekr1JAF1mV4hkypaR0Ws64b4yO4Ln8e 2E/F6/SXA6H0qHDy1q1QMWSA/FXB441GKbSnfA4pjTBSnMP5WL+iBruYHp9tX6EJ IJq5Fe+R2YNh/mLuB+0Q1OCn4sgrxZ6f8DuhJNHU+2m3q7h319exxioDcwiW20 kqUKrvBs6jBt0g4Kvs3sa4AHyP91SAA2vp42MwtBdis80Asw+wn/HoVr0Htum/W1 S292iwR9JAA4tKoJHVPBWMVnK7TrAgMBAAGjUTBMAsGALUdDwQEAwIBhjAPBgNV HNBAf6BETADAQH/MB0GALUdDgGWBBAoyFAAOCAQEAVSnsa91K4BISCAuBgMMe YSPExL5kExPQcFtJt1FjnCSuTC410MQQFfura1BQfr4DokDXK5892npt5DAFors5 k60GpHlbRPBaoxJhKOTASimL6yA20f2o380nrVRDZENugIVEVEXECTIG2T3utt K5ngewqTQO4NHrBp0Udybmpf2L5BJllctoH490PI0HEbmVDE0WALFX1iqzuEZrmm Ht10MRE22EbX283gw90Imm0T35df25281231DvuNcc7B8W0hoWT3HtnvHTv2i</pre>	
3mMOFWgLW4hishn/XCPChLMPG541E*EINTBgsoqxev13%L1d000jNA17%d*P6AGQ         0XRjRN3q326yiYSC2itTLe/aVpc1C5yN6krL/8PEnBmmopubQVdqRUCbn4r2liNV         3MCFWgLW4hishn/XCPChLMPG54r4Vjc159v40k15wYc88h0bopLIT/52mpw5m22         R5nyyxSXfjkM25wvMn0+3us7dbJu2sfI6sw0EhF12tRRQHCsq9n9uQDSUXCjQFdq         Y3A+LJGewlAuPt4+sqOxjYKYNP8m8+WIBIUEv+oXAoVbs8ffQFoPXYf/ZmWrBJRP         2v/At0ns3lUdcKFUPw==        END.CERTIFICATE         MILDXTCCAkWgAwlBAg1QDXWNEgF8t79Jqac4Gs04jjANBgkqhkiG9w0BAQsFADBB         MRMwEQYKCZImi2PyLGQBGRYDY29tMREwDwYKCZImi2PyLGQBGRYBUsEXMBUGA1UE         AxMOUy1XSU4yMDA4UjItQ0EwHchNHjMwOTISMTMAMsIsWhcNHjgwOTISMTMyMsIy         WjBEMRMwEQYKCZImi2PyLGQBGRYDY29tMREwDwYKCZImi2PyLGQBGRYBUsEXMBUGA1UE         AtUEAxMOUy1XSU4yMDA4UjItQ0EwgEiMA0GCSqGSIb3DQEBAQUAAtHBDwAwggEK         AcIBAQCX:actj3yOUyn66koSbe98SaSKrUNGbCORKn141tWEiX0vPTTEsqZUPRJq4         7C8useeDiJPUbWAY9e8F4nm+VhGSEKqkwekr1JAF1mV4hkpxR0Ws64b4yO4LnBe         2E/F6/SXA6HOqHDy1q1QMWSA/PXB441GKbSnfA4pjTBSnMP5WL+iBruYHp9tX6EJ         IJq5Fe+R2YNh/mLuB+0Qf1OCA4sgxZG68DxhJNHU+2mSq7h319exxioDcwiVw20         xqUKrvBs6jBt0g4Kvs3aa4AHyP91SAA2vp42MwtBdis903wx+vm/HoVrOfHum/W1         2S2iwR9Jx4tKoJHVBMVNrK7TrAgMBAAGjUTBPMAsGAlUdDwQEAwIBhjAPEgNV         HNMAf8tBtTADAQH/MB0GAlUdDgQWBBRovp8hDhWnSAhQos9fssaUBMengjAQBgkr         BgE2AY13FQEEAwIBADANBgkqhkiG9w0BAQsFAAOCAQEAV5nsa91K4BISCAuBgMMe         YSPExL5kExPQcFtJtFjnC5uTC4I0MQQFfura1BQfr4DokDXK5892npt5DAFors5        k60GpH1bRPBaoxJhK0TaSimL6yA20f2	
0XRJRN3q32bylYSC21tFLe/AVpelCsyNtkrL/SPEnbmopub(UdqRUCbn4r21iNV         sNcBrUeOY0Vr2/EVeBObVb1DGowfrxMj59v40k15wYc88h0bopL1/Sc2mpw5m22         20       R5nyyxSXfjkM2SwvMnO+Sus7dbJu2sfl6sv0EhF12tRRQHCsq9n9uQDSUXCjQFdq         Y3A+LJGew1AuPt4+sq0xjYKYNP8m8+WIBIUEv+oXAoVbs8ffQFoPXYf/2mWrBJRP         2v/At0ns31UdcKFUPw==        END.CERTIFICATE         31         MIDXTCCAkWgAwIBAgIQDXWNEgF8t79Jqac4Gs04jjANBgkqhkiG9w0BAQsFADBB         MRMwEQYRC2Imi2PyLGQBGRYDY29tMREwDwYRC2Imi2PyLGQBGRYBusEXMBUGA1UE         7       AxMOUy1XSU4yMDA4UjItQ0EwhhcNMjMwOTISMTMaMaIsWhcNMjgwOTISMTMyMsIy         80       MRMwEQYRC2Imi2PyLGQBGRYDY29tMREwDwYRC2Imi2PyLGQBGRYBUsEXMBUG         81       AuMOUy1XSU4yMDA4UjItQ0EwggEiMA0GC3qGS1b3DQEBAQUAA4HBDwAwggEK         82       AoIBAQCXa6tjSyOUyn6GkoSbe985aSKrUNGbCORKnI41tWEiX0vPITEsq2UPRJq4         7C8useeDiJPUbWAY9e8F4nm+VhGSEKqkwekr1JAF1mV4hkypaR0Ws64b4yO4Ln8e       32/F6/SXA6HOqHDy1q1QMWSA/FXB441GKbSnfA4pjTBSnMPSWL+iBruYHp9tX6EJ         82       Jq5Fe+R2YNh/mLuB+0Qf1OCn4sqszZ6f8DxhJNHU+2mg7h319exxioDcwiVw20       xqUKrvBs6jBt0g4Kvs3sa4AHyP91SAA2vp42MwtBdis803wx+vm/HoVr0fHum/W1         83       Sp2kx15kExPQcFtJt1FjnC5uTC410MQQFfura1BQfr4DokDK5892npt5DAFors5       k60GpH1bRPBaoxJhK0TaSimL6yA20f2o30nrVRDZk01ug/1VeXF/2h1Te2c73utt         84       YSPExL5kExPQcFtJt1FjnC5uTC410MQQFfura1BQfr4DokDKK5892npt5DAFors5       k60GpH1bRPBaoxJhK0TaSimL6yA20f2o30nrVRDZk04Vr22imm         85       K60GpH1bRPb0Udybmpf2L5BJ	
<pre>sNcBrUeOY0Vr2/EVeBobVb1DGowfrxMj59v40k15wYc88h0bopL1I/Sc2mpw5m22 R5nyyxSXfjkH2SwvMnO+Sus7dbJu2sfl6sw0EhF12tRRQHCsq9n9uQDSUXCjQFdq Y3A+LJGew1AuPt4+sq0xjYKYNP8m8+WIBIUEv+oXAoVbs8ffQFoPXYf/2mWrBJRP 2v/At0ns3lUdcKFUPw== BEGIN·CERTIFICATE MIIDXTCCAkWgAwIBAgIQDXWNEgF8t79Jqac4Gs04jjANBgkqhkiG9w0BAQsFADBB MRMwEQYKC2Imi2PyLGQBGRYDY29tMREwDwYKC2Imi2PyLGQBGRYBUsEXMBUGAlUE AxMOUy1XSU4yMDA4Uj1tQ0EwHhcNMjMwOTI5MTMMmsIsWhcNMjgwOTI5MTMyMsIy WjBBMRMwEQYKC2Imi2PyLGQBGRYDY29tMREwDwYKC2Imi2PyLGQBGRYBUsEXMBUGAlUE AxMOUy1XSU4yMDA4Uj1tQ0EwHhcNMjMwOTI5MTMMmsIsWhcNMjgwOTI5MTMyMsIy WjBBMRMwEQYKC2Imi2PyLGQBGRYDY29tMREwDwYKC2Imi2PyLGQBGRYBUsEXMBUG AlUEAxMOUy1XSU4yMDA4Uj1tQ0EwggEiMA0GC3qGSIb3DQEBAQUAA4IBDwAwggEK AoIBAQCXa6tjSyOUyn6GkoSbe98s2SKrUNGbCORKn141tWEiX0vPITEsq2UPRJq4 7C8useeDiJPUbWAY9e8F4nm+VhG8EKqkwekr1JAF1mV4hkypxR0Ws64b4yO4Ln8e 2E/Fe/SXA6H0qHDy1q1QuWSA/PXB441GKbSnfA4pjTB5nMP5WL+iBruYHp9tX6EJ IJq5Fe+R2YNh/mLuB+0Q1OCn4sqax2Gf8DxhJNHU+2mSq7h319exxioDcwiVw2O xqUKrvBs6jBt0g4Kvs3sa4AHyP91SAA2vp42MwtBdis8O3wx+vm/HoVr0fHum/W1 292iwR9JxA4tKoJHVpBwNVnrK7TrAgMBAAGjUTBPMAsGAlUdDwQEAwIBhjAPBgNV HRMBAf0EBTADAQH/MB0GAlUdDgQWBBRovp8hDhWn5AhQ0s9foaAUBWEngjAQBgkr BgEEAYI3FQEEAwIBADANBgkqhkiG9w0BAQsFAAOCAQEAV5nsa9IK4BISCAuBgMMe YSPEL5kExPQcFtJt1FjnCSuTC4I0MQQFfura1BQfr4DokDXK5892npt5DAFors5 k60GpH1bRPBaoxJhK0TaSimL6yA20f2o380nrVRDZRLug/IVeXF/2h1Te2c73utt k5sqewqTQO4NHrBp0Udybmpf2L5BJh1ctoH490PI0HEbmVDE0WALKX1iqsuEzrmm Mr10MRRLs22BoX2WSgw90IImmW136ds2k281DvuaNcc7B8W0hoWT3HxnvuMTv2i</pre>	
No       R5nyyx3XfjkR2swtMnO+Sus7dbJu2sfl6sw0EhF12tRRQHCsq9n9uQDSUXCjQFdq         Y3A+LJGewlAuPt4+sqOxjYKYNP8m8+WIBIUEv+oXAoVbs8ffQFoPXYf/ZmWrBJRP         2v/At0ns3lUdcKFUPw==        END · CERTIFICATE         MIIDXTCCAkWgAwIBAgIQDXWNEgF8t79Jqac4Gs04jjANBgkqhkiG9w0BAQsFADBB         MRMwEQYKCZImi2PyLGQBGRYDY29tMREwDwYKC2Imi2PyLGQBGRYBUsEXMBUGAlUE         AxMOUy1XSU4yMDA4UjItQ0EwHhcNMjMwOTISMTMMmEIsWhcNMjgwOTISMTMyMsIy         WjBBMRMwEQYKC2Imi2PyLGQBGRYDY29tMREwDwYKC2Imi2PyLGQBGRYBUsEXMBUG         AlUEAxMOUy1XSU4yMDA4UjItQ0EwggEiMA0GCSqGSIb3DQEBAQDAA4IBbwAwggEK         AoIBAQCXa6tjSyOUyn6GkoSbe983sSKrUNGbCORKnI41tWEiX0vPITEsq2UPRJq4         7C8useeDiJPUbWAY9e8F4nm+VhGSEKqkwekrlJAFImV4hkypxR0Ws64b4yO4Ln8e         8E/F6/SXA6HOqHDy1q1QMWSA/FXB441GKbSnfA4pjTBSnMP5WL+iBruYHp9tX6EJ         IJq5Fe+R2YNh/mLuB+0Qf1OCn4squx2GfBDxhJNHU+2mSq7h319exxioDcwiVw20         xqUKrvBs6jBt0g4Kvs3aa4AHyP91SAA2vp42MwtBdis803wx+vm/HoVr0fHum/W1         292iwR9JxA4tKoJHVpBwNVnrK7TrAgMBAAGjUTBPMAsGAlUdDwQEAwIBhjAPBgNV         HRMBAf0EBTADAQH/MB0GAlUdDgQWBBRovp8hDhWn5AhQ0s9fosAUBWEngjAQBgkr         BgEEAY13FQEEAwIBADANBgkqhkiG9w0BAQ=FAAOCAQEAV5nsa91K4BISCAuBgMMe         Y3PExL5kExPQcFtJt1FjnCSuTC410MQQFfura1BQfr4DokDXK5892npt5DAFors5         k60GpH1bRPBaoxJhR0TaSimL6yA20fZo380nrVRDZRLug/IVEXF/2h1Te2c73utt         k5sqewqTQO4NHrBp0Udybmpf2L5BJhlctoH490PI0HEbmVDE0WALKX1iqsuEzrmm         Mr10MERLs22BoX2WSgw90ImmW124525         Mr10MERLs22BoX2WSgw90ImmW1346g28L	
Y3A+LJGewlAuPt4+sqOxjYKYNP8m8+WIBIUEv+oXAoVbs8ffQFoPXYf/2mWrBJRP 2v/At0ms3lUdcKFUPw== END·CERTIFICATE BEGIN·CERTIFICATE MIIDXTCCAkWgAwIBAgIQDXWNEgF8t79Jqac4Gs04jjANBgkqhkiG9w0BAQsFADBB MRMwEQYKC2ImiZPyLGQBGRYDY29tMREwDwYKC2ImiZPyLGQBGRYBUsEXMBUGAlUE AxMOUy1XSU4yMDA4Uj1tQ0EwHhcNMjMwOTISMTMMMsIsWhcNMjgwOTISMTMyMsIy WjBBMRMwEQYKCZImi2PyLGQBGRYDY29tMREwDwYKCZImiZPyLGQBGRYBUsEXMBUG AlUEAMMOUy1XSU4yMDA4Uj1tQ0EwggEiMA0GC3qGSIb3DQEBAQUAAIBDwAwggEK AoIBAQCXa6tj3yOUyn6GkoSbe985aSKrUNGbCORKnI41tWEiX0vPITEsq2UPRJq4 7C8useeDiJPUbWAY9e8F4nm+VhGSEKqkwekr1JAF1mV4hkypxR0Ws64b4yO4Ln8e 82/F6/SXA6HOqHDy1q1QMWSA/PXB441GKbSnfA4pjTBSnMP5WL+iBruYHp9tX6EJ IJq5Fe+RZYNh/mLuB+0Qf10Cn4sqmzG6f8DmhJNHU+2mSq7h319exxioDcwiVw20 xqUKrvBs6jBt0g4Kvs3sa4AHyP91SAA2vp42MwtBdis803wx+vm/HoVr0fHum/W1 292iwR9JxA4tKoJHVpBwMVnrK7TrAgMBAAGjUTBPMAsGAlUdDwQEAwIBhjAPBgNV HRMBAf8EBTADAQH/MB0GAlUdDgQWBBRovp8hDhWn5AhQOs9fosAUBWEngjAQBgkr BgEEAYI3FQEEAwIBADANBgkqhkiG9w0BAQsFAAOCAQEAV5nss91K4BISCAuBMMe YSPExL5kExPQcFtJt1FjnC5uTC4I0MQQFfura1BQfr4DokDXKS892npt5DAFors5 k60GpH1bRPBaoxJhK0TaSimL6yA20f2o380nrVRDZKlug/1VeXF/2h1Te2c73utt k5sqewqTQO4NHrBp0Udybmpf2L5BJh1ctoH490PI0HEbmVDE0WALKXliqmuZzrmm Mr10MRRL522BDX2W3Gw90IrmoWI3fdg2kE281DvuaNcc7B8W0hgWT3HmvuMTv2i	
2v/Atons31UdcKFUPw==        END·CERTIFICATE         83        END·CERTIFICATE         84        END·CERTIFICATE         85         MIIDXTCCAkWgAwIBAgIQDXWNEgF8t79Jqac4Gs04jjANBgkqhkiG9w0BAQsFADBB         86         MRWEQYKCZImiZPyLGQBGRYDY29tMREwDwYKCZImiZPyLGQBGRYBUsEXMBUGA1UE         87         88         98         99         91         91         92         93         94         94         95         95         96         97         97         98         98         99         99         90         90         90         90         91         92         92         94         94         94         95         94         94         94         94         94         94         94         94         94	
<ul> <li>END·CERTIFICATE</li> <li>BEGIN·CERTIFICATE</li> <li>MIIDXTCCAkWgAwIBAgIQDXWNEgF8t79Jqac4Gs04jjANBgkqhkiG9w0BAQsFADBB</li> <li>MRMwEQYKCZImiZPyLGQBGRYDY29tMREwDwYKCZImiZPyLGQBGRYBUsEXMBUGA1UE</li> <li>AxMOUy1X3U4yMDA4UjItQ0EwHhcNMjMwOTI5MTMxMsIsWhcNMjgwOTI5MTMyMsIy</li> <li>WjBBMRMwEQYKCZImiZPyLGQBGRYDY29tMREwDwYKCZImiZPyLGQBGRYBUsEXMBUG</li> <li>AuMOUy1X3U4yMDA4UjItQ0EwHgEiMA0GCSqGS1b3DQEBAQUAA4IBDwAwggEK</li> <li>AoIBAQCXa6tjSyOUyn6Gko3be983aSKrUNGbCORKnI41tWEiX0vPITEsqZUPRJq4</li> <li>7C8useeDiJPUbWAY9e8F4nm+VhGSEKqkwekr1JAF1mV4hkypaR0ws64b4yO4Ln8e</li> <li>3E/F6/SXA6HOqHDy1q1QMW3A/PXB44IGKbSnfA4pjTBSNMP5WL+iBruYHp9tX6EJ</li> <li>IJq5Fe+RZYNh/mLuB+0Qf10Cn4sqaxZGf8DmhJNHU+2mSq7h319exxioDcwiVw20</li> <li>xqUKrvBs6jBt0g4Kvs3sa4AHyP91SAA2vp42MwtBdis803wx+vm/HoVr0fHum/W1</li> <li>Z92iwR9JxA4tKoJHVpBwMVnrK7TrAgMBAAGjUTBPMAsGA1UdDwQEAwIBhjAPBgNV</li> <li>HRMBAf8EBTADAQH/MB0GA1UdDgQWBBRovp8hDhWn5AhQOs9fosAUBWEngjAQBgkr</li> <li>BgEEAYI3FQEEAwIBADANBgkqhkiG9w0BAQsFAAOCAQEAV5nsa91K4BISCAUBgMMe</li> <li>YSPExL5kExPQcFtJtFjnC5uTC410MQQFfura1BQfr4DokDXK5892npt5DAFors5</li> <li>k60GpH1bRPBaoxJhK0TaSimL6yA20f2o380nrVRDZK1ug/1VeXF/2h1Te2c73utt</li> <li>k5sqewqTQO4NHrBp0Udybmpf2L5BJh1ctoH490PI0HEbmVDE0WALKX1iqsuEZrmm</li> <li>Mr10MRLs22BpX2WSgw90IrmWWI3fds2kE281DvuaNcc7B800hoWT3HxnvuMTvZi</li> </ul>	
HILDXTCCALWGAWIBAGIQDXWNEgF8t79Jqac4Gs04jjANBgkqhkiG9w0BAQsFADBB         MIIDXTCCALWGAWIBAGIQDXWNEgF8t79Jqac4Gs04jjANBgkqhkiG9w0BAQsFADBB         MRMwEQYKC2Imi2PyLGQBGRYDY29tMREwDwYKC2Imi2PyLGQBGRYBUsEXMBUGA1UE         AxMOUy1X3U4yMDA4UjItQ0EwHhcNMjMwOTISMTMMdsIsWhcNMjgwOTISMTMyMsIy         WjBBMRMwEQYKC2Imi2PyLGQBGRYDY29tMREwDwYKC2Imi2PyLGQBGRYBUsEXMBUG         AuMOUy1X3U4yMDA4UjItQ0EwggEiMA0GC5qGSIb3DQEBAQUAA4IBDwAwggEK         AoIBAQCXa6tj3yOUyn6GkoSbe983sKrUNGbCORKnI41tWEiX0vPITEsq2UPRJq4         7C8useeDiJPUbWAY9e8F4nm+VhGSEKqkwekr1JAF1mV4hkypxR0Ws64b4yO4Ln8e         2E/F6/3XA6HOqHDy1q1QMWSA/PXB441GKbSnfA4pjTBSnMP5WL+iBruYHp9tX6EJ         IJq5Fe+R2YNh/mLuB+0Qf1OCn4sqaxZGf8DmhJNHU+2mSq7h319exxioDcwiVw20         xqUKrvBs6jBt0g4Kvs3sa4AHyP91SAA2vp42MwtBdis803wx+vm/HoVr0fHum/W1         Z92iwR9JxA4tKoJHVBMWNrK7TrAgMBAAG1UTBPMAsGA1UdDwQEAwIBhjAPBgNV         HRMBAf8EBTADAQH/MBOGA1UdDgQWBBRovp8hDhWn5AhQOs9fosAUBWEngjAQBgkr         BgEEAYI3PQEEAwIBADANBgkqhkiG9w0BAQsFAAOCAQEAV5nsa91K4BISCAuBgMMe         YSPExL5kExPQcFtJtFjnC5uTC4I0MQQFfuralBQfr4DokDXK5892npt5DAFors5         k60GpH1bRPBaoxJhK0TaSimL6yA20f2o380nrVRDZKLug/1VeXF/2h1Te2c73utt         k5sqewqTQO4NHrBp0Udybmpf2L5BJh1ctoH490PI0HEbmVDE0WALKX1iqsuE2rmm         Mr10MRRL522EpX2WSgw90IrmpW13fd52kE281DvuaNcc7B8W0hgWT3HxnvuMTv2i	
MIIDXTCCAkWgAwIBAgIQDXWNEgF8t79Jqac4Ga04jjANBgkqhkiG9w0BAQsFADBB MRMwEQYKCZImiZPyLGQBGRYDY29tMREwDwYKCZImiZPyLGQBGRYBUsEXMBUGA1UE AxMOUy1XSU4yMDA4UjItQOEwHhcNMjMwOTI5MTMxMsIsWhcNMjgwOTI5MTMyMsIy WjBBMRMwEQYKCZImiZPyLGQBGRYDY29tMREwDwYKCZImiZPyLGQBGRYBUsEXMBUG A1UEAxMOUy1XSU4yMDA4UjItQOEwggEiMA0GCSqGSIb3DQEBAQUAA4IBDwAwggEK AoIBAQCXa6tjSyOUyn6Gko5be985a5KrUNGbCORKnI41tWEiX0vPITEsqZUPRJq4 7C8useeDiJPUbWAY9e8F4nm+VhG3EKqkwekr1JAF1mV4hkypxR0Ws64b4yO4Ln8e 22/F6/SXA6HOqHDylq1QMWSA/PXB441GKbSnfA4pjTBSnMP5WL+iBruYHp9tX6EJ IJq5Fe+RZYNh/mLuB+0Qf1OCn4sqaxZGf8DxhJNHU+2mSq7h319exxioDcwiVw2O rqUKrvBs6jBtOg4Kvs3sa4AHyP91SAA2vp42MwtBdis803wx+vm/HoVr0fHum/W1 292iwR9JxA4tKoJHVpBwMVnrK7TrAgMBAAGjUTBPMAsGA1UdDwQEAwIBhjAPBgNV HRMBAf8EBTADAQH/MB0GA1UdDgQWBBRovp8hDhWn5AhQOs9fosAUBWEngjAQBgkr BgEEAYI3FQEEAwIBADANBgkqhkiG9w0BAQsFAAOCAQEAV5nsa91K4BI3CAuBgMMe YSPExL5kExPQcFtJtFjnC5uTC4I0MQQFfura1BQfr4DokDXK5892npt5DAFors5 k60GpH1bRPBaoxJhK0TaSimL6yA20f2o380nrVRDZKlug/1VeXF/2h1Te2c73utt k5sqewqTQO4NHrBp0Udybmpf2L5BJh1ctoH490PI0HEbmVDE0WALKX1iqsuEZrmm Mr10MRRLs22BpX2WSgw90IrmpWI3fds2kE231DvuaNcc7B8W0boWT3HxnvuMTvZi	
MRMwEQYKCZImiZPyLGQBGRYDY29tMREwDwYKCZImiZPyLGQBGRYBUaEXMBUGA1UE         AxMOUy1XSU4yMDA4UjItQ0EwHhcNMjMwOTI5MTMxMsIsWhcNMjgwOTI5MTMyMsIy         WjBEMRMwEQYKCZImiZPyLGQBGRYDY29tMREwDwYKCZImiZPyLGQBGRYBUsEXMBUG         A1UEAxMOUy1XSU4yMDA4UjItQ0EwggEiMA0GCSqGSIb3DQEBAQUAA4IBDwAwggEK         A01BAQCXa6tjSyOUyn6GkoSbe98SaSKrUNGbCORKnI41tWEiX0vPITEsqZUPRJq4         7C8useeDiJPUbWAY9e8F4nm+VhGSEKqkwekr1JAF1mV4hkypxR0Ws64b4yO4Ln8e         82       26/F6/SXA6HOqHDy1q1QMWSA/PXB441GKbSnfA4pjTBSnMP5WL+iBruYHp9tX6EJ         131q5Fe+R2YNh/mLuB+0Qf10Cn4sqsx2Gf8DxhJNHU+2mSq7h319exxioDcwiVw20         xqUKrvBs6jBt0g4Kvs3sa4AHyP91SAA2vp42MwtBdis803wx+vm/HoVr0fHum/W1         292iwR9JxA4tKoJHVpBwMVnrK7TrAgMBAAGjUTBPMAsGA1UdDwQEAwIBbjAPBgNV         HRMBAf8EBTADAQH/MB0GA1UdDgQWBBRovp8hDhWn5AhQ0s9fosAUBWEngjAQBgkr         BgEEAYI3FQEEAwIBADANBgkqhkiG9w0BAQsFAAOCAQEAV5nsa91K4BI3CAuBgMMe         YSPExL5kExPQcFtJtFjnC5uTC4I0MQQFfura1BQfr4DokDXK5892npt5DAFors5         K60GpH1bRPBaoxJhK0TaSimL6yA20f2o380nrVRDZKlug/IVeXF/2h1Te2c73utt         K5sqewqTQO4NHrBp0Udybmpf2L5BJh1ctoH490PI0HEbmVDE0WALKX1iqsuE2rmm         Mr10MRRLs22Ebx2WSgw90IrmpWI3fds2kE2S1DvuaNcc7B8W0hoWT3HxnvuMTv2i	
AxMOUylXSU4yMDA4UjItQ0EwHhcNMjMwOTI5MTMxMsIsWhcNMjgwOTI5MTMyMsIy         WjBEMRMwEQYKC2Imi2PyLGQBGRYDY29tMREwDwYKC2Imi2PyLGQBGRYBUsEXMBUG         AlUEAxMOUylXSU4yMDA4UjItQ0EwggEiMA0GC3qGSIb3DQEBAQUAA4IBDwAwggEK         AoIBAQCXa6tj3yOUyn6Gko3be983aSKrUNGbCORKnI41tWEiX0vPITEsq2UPRJq4         C8useeDiJPUbWAY9e8F4nm+VhG3EKqkwekr1JAF1mV4hkypxR0Ws64b4yO4Ln8e         22/F6/SXA6HOqHDylq1QMWSA/PXB441GKbSnfA4pjTBSnMP5WL+iBruYHp9tX6EJ         1Jq5Fe+R2YNh/mLuB+0Qf10Cn4sqnx2Gf8DxhJNHU+2m3q7h319exxioDcwiVw20         xqUKrvBs6jBt0g4Kvs3sa4AHyP91SAA2vp42MwtBdis803wx+vm/HoVr0fHum/W1         292iwR9JxA4tKoJHVpBwMVnrK7TrAgMBAAGjUTBPMAsGA1UdDwQEAwIBhjAPBgNV         HRMBAf8EBTADAQH/MB0GA1UdDgQWBBRovp8hDhWn5AhQ0s9fosAUBWEngjAQBgkr         BgEEAYI3FQEEAwIBADANBgkqhkiG9w0BAQsFAAOCAQEAV5nsa91K4BI3CAuBgMMe         Y3PExL5kExPQcFtJtFjnC5uTC4I0MQQFfura1BQfr4DokDXK5892npt5DAFors5         K60GpH1bRPBaoxJhK0TaSimL6yA20f2o380nrVRDZKlug/IVeXF/2h1Te2c73utt         K5sqewqTQO4NHrBp0Udybmpf2L5BJh1ctoH490PI0HEbmVDE0WALKX1iqsuE2rmm         Mr10MRRLs22Ebx2WSgw90IrmpWI3fds2kE281DvuaNcc7B8W0hoWT3HxnvuMTv2i	
WjBEMRMwEQYKCZImiZPyLGQBGRYDY29tMREwDwYKCZImiZPyLGQBGRYBUsEXMBUG         A1UEAxMOUy1XSU4yMDA4UjItQ0EwggEiMA0GCSqGSIb3DQEBAQUAA4IBDwAwggEK         A0IBAQCXa6tjSyOUyn6GkoSbe98SaSKrUNGbCORKnI41tWEiX0vPITEsqZUPRJq4         7C8useeDiJPUbWAY9e8F4nm+VhGSEKqkwekr1JAF1mV4hkypxR0Ws64b4yO4Ln8e         82       22/F6/SXA6HOqHDy1q1QMWSA/PXB441GKbSnfA4pjTBSnMP5WL+iBruYHp9tX6EJ         11Jq5Fe+R2YNh/mLuB+0Qf10Cn4sqsx2Gf8DxhJNHU+2mSq7h319exxioDcwiVw20         14       xqUKrvBs6jBt0g4Kvs3sa4AHyP91SAA2vp42MwtBdis803wx+vm/HoVr0fHum/W1         292iwR9JxA4tKoJHVpBwMVnrK7TrAgMBAAGjUTBPMAsGA1UdDwQEAwIBhjAPBgNV         HRMBAf8EBTADAQH/MB0GA1UdDgQWBBRovp8hDhWn5AhQ0s9fosAUBWEngjAQBgkr         BgEEAYI3FQEEAwIBADANBgkqhkiG9w0BAQsFAAOCAQEAV5nsa91K4BI3CAuBgMMe         Y3PExL5kExPQcFtJtFjnC5uTC4I0MQQFfura1BQfr4DokDXK5892npt5DAFors5         16       k5sqewqTQ04NHrBp0Udybmpf2L5BJh1ctoH490PI0HEbmVDE0WALKX1iqsuE2rmm         11       10MRRLs22EbX2WSgw90IrmpWI3fds2kE2S1DvuaNcc7B8W0hoWT3HxnvuMTv2i	
AlUEAMMOUylXSU4yMDA4UjItQ0EwggEiMA0GCSqGSIb3DQEBAQUAA4IBDwAwggEK AoIBAQCXa6tjSyOUyn6GkoSbe90SaSKrUNGbCORKnI4ltWEiX0vPITEsqZUPRJq4 7C8useeDiJPUbWAY9e8F4nm+VhGSEKqkwekrlJAFlmV4hkypxR0Ws64b4yO4Ln8e 82/F6/SXA6HOqHDylqlQMWSA/PXB441GKbSnfA4pjTBSnMP5WL+iBruYHp9tX6EJ IJq5Fe+RZYNh/mLuB+0QflOCn4sqsxZGf8DxhJNHU+2mSq7h319exxioDcwiVwZO 44 xqUKrvBs6jBtOg4Kvs3sa4AHyP9ISAA2vp42MwtBdis8O3wx+vm/HoVr0fHum/W1 292iwR9JxA4tKoJHVpBwMVnrK7TrAgMBAAGjUTBPMAsGA1UdDwQEAwIBhjAPBgNV 46 HRMBAf8EBTADAQH/MB0GA1UdDgQWBBRovp8hDhWn5AhQOs9fosAUBWEngjAQBgkr 89gEEAYI3FQEEAwIBADANBgkqhkiG9w0BAQsFAAOCAQEAV5nsa91K4BI3CAuBgMMe 48 Y3PExL5kExPQcFtJtFjnC5uTC4I0MQQFfura1BQfr4DokDXK5892npt5DAFors5 49 k60GpH1bRPBaoxJhK0TaSimL6yA20f2o380nrVRDZKlug/1VeXF/2h1Te2c73utt 45 k5sqewqTQO4NHrBp0Udybmpf2L5BJh1ctoH490PI0HEbmVDE0WALKX1iqsuE2rmm 47 h0MRRLs22EpX2WSgw90IrmpWI3fds2kE2S1DvuaNcc7B8W0hoWT3HxnvuMTvZi	
AoIBAQCXaétjSyOUynéGkoSbe90SaSKrUNGbCORKnI41tWEiX0vPITEsqZUPRJq4         AoIBAQCXaétjSyOUynéGkoSbe90SaSKrUNGbCORKnI41tWEiX0vPITEsqZUPRJq4         C8useeDiJPUbWAY9e8F4nm+VhGSEKqkwekr1JAF1mV4hkypxR0Ws64b4yO4Ln8e         3E/Fé/SXAéHOqHDylq1QMWSA/PXB441GKbSnfA4pjTBSnMP5WL+iBruYHp9tX6EJ         IJq5Fe+R2YNh/mLuB+0Qf10Cn4sqsx2Gf8DxhJNHU+2mSq7h319exxioDcwiVw20         nqUKrvBs6jBt0g4Kvs3sa4AHyP91SAA2vp42MwtBdis803wx+vm/HoVr0fHum/W1         292iwR9JxA4tKoJHVpBwMVnrK7TrAgMBAAGjUTBPMAsGA1UdDwQEAwIBhjAPBgNV         HRMBAf8EBTADAQH/MB0GA1UdDgQWBBRovp8hDhWn5AhQ0s9fosAUBWEngjAQBgkr         BgEEAYI3FQEEAwIBADANBgkqhkiG9w0BAQsFAAOCAQEAV5nsa91K4BI3CAuBgMMe         Y3PExL5kExPQcFtJtFjnC5uTC4I0MQQFfuralBQfr4DokDXK5892npt5DAFors5         k60GpH1bRPBaoxJhK0TaSimL6yA20f2o380nrVRDZKlug/1VeXF/2h1Te2c73utt         k5sqewqTQ04NHrBp0Udybmpf2L5BJh1ctoH490PI0HEbmVDE0WALKX1iqsuE2rmm         Mr10MRRLs22Ebx2WSgw90IrmpWI3fds2kE2S1DvuaNcc7B8W0hoWT3HxnvuMTv2i	
1       7C8useeDiJPUbWAY9e8F4nm+VhGSEKqkwekr1JAF1mV4hkypxR0Ws64b4yO4Ln8e       Root Cert         12       3E/F6/SXA6HOqHDy1q1QMWSA/PXB441GKbSnfA4pjTBSnMP5WL+iBruYHp9tX6EJ       Root Cert         13       IJq5Fe+R2YNh/mLuB+0Qf10Cn4sqsxZGf8DxhJNHU+2mSq7h319exxioDcwiVw20       wqUKrvBs6jBt0g4Kvs3sa4AHyP91SAA2vp42MwtBdis803wx+vm/HoVr0fHum/W1         15       292iwR9JxA4tKoJHVpBwMVnrK7TrAgMBAAGjUTBPMAsGA1UdDwQEAwIBhjAPBgNV       HRMBAf8EBTADAQH/MB0GA1UdDgQWBBRovp8hDhWn5AhQ0s9fosAUBWEngjAQBgkr         16       HRMEAf8EBTADAQH/MB0GA1UdDgQWBBRovp8hDhWn5AhQ0s9fosAUBWEngjAQBgkr       SigeEAYI3FQEEAwIBADANBgkqhkiG9w0BAQsFAAOCAQEAV5nsa91K4BI3CAuBgMMe         18       Y3PExL5kExPQcFtJtFjnC5uTC4I0MQQFfura1BQfr4DokDXK5892npt5DAFors5       k60GpH1bRPBaoxJhK0TaSimL6yA20f2o380nrVRD2Klug/IVeXF/2h1Te2c73utt         16       k5sqewqTQ04NHrBp0Udybmpf2L5BJh1ctoH490PI0HEbmVDE0WALKX1iqsuE2rmm       Mr10MRRLs22EbX2WSgw90IrmpWI3fds2kE2S1DvuaNcc7B8W0hoWT3HxnvuMTv2i	
12       3E/F6/3XA6HOqHDylqlQMWSA/PXB441GKbSnfA4pjTBSnMP5WL+iBruYHp9tX6EJ       KOOT Cert         13       IJq5Fe+R2YNh/mLuB+0Qf10Cn4sqmx2Gf8DxhJNHU+2mSq7h319exxioDcwiVw2O       xqUKrvBs6jBt0g4Kvs3ma4AHyP91SAA2vp42MwtBdis8O3wx+vm/HoVr0fHum/W1         15       292iwR9JxA4tKoJHVpBwMVnrK7TrAgMBAAGjUTBPMAsGA1UdDwQEAwIBhjAPBgNV         16       HRMBAf8EBTADAQH/MB0GA1UdDgQWBBRovp8hDhWn5AhQ0s9fosAUBWEngjAQBgkr         17       BgEEAYI3FQEEAwIBADANBgkqhkiG9w0BAQsFAAOCAQEAV5nma91K4BI3CAuBgMMe         18       Y3PExL5kExPQcFtJtFjnC5uTC4I0MQQFfura1BQfr4DokDXK5892npt5DAFors5         19       k60GpH1bRPBaoxJhK0TaSimL6yA20f2o380nrVRD2Klug/1VeXF/2h1Te2c73utt         10       k5sqewqTQO4NHrBp0Udybmpf2L5BJh1ctoH490PI0HEbmVDE0WALKX1iqsuE2rmm         11       Mr10MRRLs22Ebx2WSgw90IrmpWI3fds2kE2S1DvuaNcc7B8W0hoWT3HxnvuMTv2i	ificato
13       IJq5Fe+RZYNh/mLuB+0Qf10Cn4sqmxZGf8DxhJNHU+2mSq7h319exxioDcwiVw20         14       xqUKrvBs6jBt0g4Kvs3ma4AHyP91SAA2vp42MwtBdis803wx+vm/HoVr0fHum/W1         15       292iwR9JxA4tKoJHVpBwMVnrK7TrAgMBAAGjUTBPMAsGA1UdDwQEAwIBhjAPBgNV         16       HRMBAf8EBTADAQH/MB0GA1UdDgQWBBRovp8hDhWn5AhQ0m9fomAUBWEngjAQBgkr         17       BgEEAYI3FQEEAwIBADANBgkqhkiG9w0BAQsFAAOCAQEAV5nma91K4BI3CAuBgMMe         18       Y3PExL5kExPQcFtJtFjnC5uTC410MQQFfura1BQfr4DokDXK5892npt5DAFors5         19       k60GpH1bRPBaoxJhK0TaSimL6yA20f2o380nrVRD2Klug/1VeXF/2h1Te2c73utt         10       k5mqewqTQ04NHrBp0Udybmpf2L5BJh1ctoH490PI0HEbmVDE0WALKX1iqmu2rmm         11       Mr10MRRLs22EbX2WSqw90IrmpWI3fds2kE2S1DvuaNcc7B8W0hoWT3HxnvuMTv2i	meate
H4 xqUKrvBs6jBt0g4Kvs3sa4AHyP91SAA2vp42MwtBdis8O3wx+vm/HoVr0fHum/W1 292iwR9JxA4tKoJHVpBwMVnrK7TrAgMBAAGjUTBPMAsGA1UdDwQEAwIBhjAPBgNV H6 HRMBAf8EBTADAQH/MB0GA1UdDgQWBBRovp8hDhWn5AhQOs9fosAUBWEngjAQBgkr BgEEAYI3FQEEAwIBADANBgkqhkiG9w0BAQsFAAOCAQEAV5nsa91K4BI3CAuBgMMe Y3PExL5kExPQcFtJtlFjnC5uTC4I0MQQFfuralBQfr4DokDXK5892npt5DAFors5 k60GpH1bRPBaoxJhK0TaSimL6yA20f2o380nrVRD2Klug/1VeXF/2h1Te2c73utt k5sqewqTQO4NHrBp0Udybmpf2L5BJh1ctoH490PI0HEbmVDE0WALKX1iqsuE2rmm Mr10MRRLs22BpX2WSgw90IrmpWI3fds2kE2S1DvuaNcc7B8W0hoWT3HxnvuMTvZi	
292iwR9JxA4tKoJHVpBwMVnrK7TrAgMBAAGjUTBPMAsGAlUdDwQEAwIBhjAPBgNV HRMBAf8EBTADAQH/MB0GAlUdDgQWBBRovp8hDhWn5AhQOs9fosAUBWEngjAQBgkr BgEEAYI3FQEEAwIBADANBgkqhkiG9w0BAQsFAAOCAQEAV5nsa91K4BI3CAuBgMMe Y3PExL5kExPQcFtJtlFjnC5uTC4I0MQQFfuralBQfr4DokDXK5892npt5DAFors5 k60GpH1bRPBaoxJhK0TaSimL6yA20f2o380nrVRD2Klug/1VeXF/2h1Te2c73utt k5sqewqTQO4NHrBp0Udybmpf2L5BJh1ctoH490PI0HEbmVDE0WALKX1iqsuE2rmm Mr10MRRLs22BpX2WSgw90IrmpWI3fds2kE2S1DvuaNcc7B8W0hoWT3HxnvuMTvZi	
HRMBAf8EBTADAQH/MB0GA1UdDgQWBBRovp8hDhWn5AhQ0s9fosAUBWEngjAQBgkr BgEEAYI3FQEEAwIBADANBgkqhkiG9w0BAQsFAAOCAQEAV5nsa91K4BI3CAuBgMMe YSPExL5kExPQcFtJtlFjnC5uTC4I0MQQFfuralBQfr4DokDXK5892npt5DAFors5 k60GpH1bRPBaoxJhK0TaSimL6yA20fZo380nrVRD2Klug/1VeXF/2h1TeZc73utt k5sqewqTQO4NHrBp0Udybmpf2L5BJh1ctoH490PI0HEbmVDE0WALKX1iqsuE2rmm Mr10MRRLs22BpX2WSgw90IrmpWI3fds2kE2S1DvuaNcc7B8W0hoWT3HxnvuMTvZi	
<ul> <li>BgEEAYI3FQEEAwIBADANBgkqhkiG9w0BAQsFAAOCAQEAV5nsa91K4BI3CAuBgMMe</li> <li>Y3PExL5kExPQcFtJtlFjnC5uTC4I0MQQFfuralBQfr4DokDXK5892npt5DAFors5</li> <li>k60GpH1bRPBaoxJhK0TaSimL6yA20f2o380nrVRD2Klug/1VeXF/2h1Te2c73utt</li> <li>k5sqewqTQO4NHrBp0Udybmpf2L5BJh1ctoH490PI0HEbmVDE0WALKX1iqsuE2rmm</li> <li>Mr10MRRLs22BpX2WSgw90IrmpWI3fds2kE2S1DvuaNcc7B8W0hoWT3HxnvuMTvZi</li> </ul>	
YSPExL5kExPQcFtJtlFjnC5uTC4I0MQQFfuralBQfr4DokDXK5892npt5DAFors5 k60GpHlbRPBaoxJhK0TaSimL6yA20fZo380nrVRD2Klug/lVeXF/2hlTeZc73utt k5sqewqTQO4NHrBp0Udybmpf2L5BJhlctoH490PI0HEbmVDE0WALKX1iqsuE2rmm Mr10MRRLs2ZBpX2WSgw90IrmpWI3fds2kE2S1DvuaNcc7B8W0hoWT3HxnvuMTvZi	
k60GpHlbRPBaoxJhK0TaSimL6yA20fZo380nrVRD2Klug/lVeXF/2hlTeZc73utt k5sqewqTQ04NHrBp0Udybmpf2L5BJhlctoH490PI0HEbmVDE0WALKX1iqsuE2rmm Mr10MRRLs2ZBpX2WSgw90IrmpWI3fds2kE2S1DvuaNcc7B8W0hoWT3HxnvuMTvZi	
b) k5zqewqTQO4NHrBp0Udybmpf2L5BJhlctoH490PI0HEbmVDE0WALKX1iqsuE2rmm http://www.science.com/science.	
Mr10MRRL52ZBpX2WSgw90IrmpWI3fd52kE2S1DvuaNcc7B8W0hoWT3HxnvuMTvZi	
b6Yf7hb5F3ZSOpHFU1bZ22tqk4qouEigyoaUZaLcVhV5UdBCCvwyU19yU6+EscnM	
i3 <b>Ww==</b>	
4END · CERTIFICATE	
15	



CUPS证书捆绑包

通过WinSCP将之前创建的捆绑证书推送到CMS服务器。

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

将证书捆绑包复制到CMS

使用callbridge ucm certs <cert-bundle>在Callbridge上分配TOMCAT捆绑证书。



Callbrigde证书信任

使用callbridge imps certs <cert-bundle>在Callbridge上分配CUP服务器捆绑证书。



运行callbridge命令以检查是否已分配证书捆绑包。

wb3> callbridge		
Listening interfaces	:	a
Preferred interface	:	none
Key file	:	wb2sept2.key
Certificate file	:	wb3sept2.cer
Address	:	none
CA Bundle file	:	bunsept22.cer
C2W trusted certs		: WMBUN.cer
Callbridge cluster tru	ıst	ted certs : none
Callbridge trust brand	liı	ng certs : none
UCM trusted certs		: cucmbun.cer
UCM Verification mode		: enabled
IMPS trusted certs		: cupbun.cer
IMPS verification mode	į	: enabled
WC3 JWT Expiry in hour	S	: 24
wb3>		

Callbridge信任证书检查

以CM管理员身份登录CUCM,导航至User Management > User Settings > Access Control Group,点击Add New并创建访问控制组CUCM\_AXL\_Group。

cisco	Cisco Unified CM For Cisco Unified Comm	1 Administratio	n				
System 🔻	Call Routing 👻 Media Resource	s 🔻 Advanced Features 🖲	Device 🔻	Application 🔻	User Management	▼ Bulk Administration ▼	Help 🔻
Access Co	ntrol Group Configuration						
Save							
Status —							
i Statu	s: Ready						
Access C	ontrol Group Information						
Name*	•	CUCM_AXL_GROUP					
Available	for Users with User Rank as *	1 - Default User Rank			~		
Save							
(i) *- in	dicates required item.						
创建AXL组							

将角色Standard AXL API Access分配到之前创建的访问控制组。

Cisco Unified CM Administration   For Cisco Unified CM Administration   For Cisco Unified Communications Solutions     Control Group Configuration     Related Links:   Back To Find/List   Status:   Status:   Status:   Status:   Control Group Information   tames*   Cucce_AcxGROUP   valuable for Users with User Rank as *		
System + Call Routing + Media Resources + Advanced Features + Device + Application + User Management + Bulk Administration + Help +		
Access Control Group Configuration	Related Links: Back To Find/List 🛛 🗸	
Status Status: Ready	Back Th Find/i list Assign Role to Access Control Group Roles Dependency Records	
Available for Users with User Rank as * 1 - Default User Rank v		

为AXL组分配API访问权限

Name <sup>*</sup> CUCM_AXL_GROUP	
Role Assignment	
Role Standard AXL API Access	
	Assign Role to Group
	Delete Kole Assignment
Save	

导航到User Management > Application User,点击Add New,然后创建应用程序用户AXLuser。然后,分配之前创建的访问控制组。

Isso Per Cisco Unified CM Administration		
en + Cai Routing + Media Resources + Advanced Features + Device + Application + User Management + Bulk Administration + Help	•	
plication User Configuration		
atus	📫 Find and List Access Control Groups — Mozilla Firefox — 🛛	$\times$
Status: Ready		~
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Auto-registration Template	Administration (See All Sec All S	
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	Standard CCM Server Maintenance	1
	Standard CCM Server Monitoring	1
**	Standard CCM Super Users	1
Controlled Device Profiles	Standard Confidential Access Level Users	1
	Standard CTI Allow Call Monitoring	1
~	Standard CTI Allow Call Park Monitoring	1
	Standard CTI Allow Call Recording	1
APF Information	Standard CTI Allow Calling Number Medification	1
ssociated 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 Hode	1
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ermissions Information	Standard CTI Enabled	1
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Add to Access Control Group	Siandani EM Authentication Proxy Rights	
(Anisot non Access Control Group)		_

创建用户并分配AXL组

创建一个CUP用户并分配以下两个角色: Third Party Application Users和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	tion				
User ID*	Dupuser Edit	Credential	Find and List Access Control Groups		
Passworu			Select All Clear All 🗛 Add Selected 🕎 Close		
Confirm Password			1414		
Digest Credentials			3 1 records found		
Confirm Digest Credentials					
BUF Presence Group*	Randard Presence group v		Access Control Group (1 - 31 of 31)	Rows per Page 50 v	
User Rank*	I-Default User Rank v				
Accept Presence Subscript	Don		Find Access Control Group where Name V begins with V 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 offens	1	
Device Information		10.000	CUCM_AXL_GROUP	1	
Available Devices			CUP_User_GRP	1	
	Auto-registration Template		Standard Audit Users	1	
	CSFtest	Device Association	Standard CAR Admin Users	1	
	SEP0896AD576396	Find more Route Po	Standard CCM Admin Users	1	
	SEP0896AD5F6397		Standard CCN End Users	1	
	**		Standard CCM Gateway Administration	1	
Controlled Devices			Standard CCM Phone Administration	1	
			Standard CCN Read Only	1	
			Standard CCM Server Maintenance	1	
Available Profiles			Standard CCN 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>~</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	
	yen bes	10	Standard CTI Secure Connection	1	
Permissions Information	1		Standard EM Authentication Proxy Rights	1	
Groups			Standard EM Reaming Across Clusters Super Users	1	
	Add to Acc	ess Control Group	Standard Packet Sniffer Users	1	
	Remove fro	m Access Control Group	Standard RealtimeAndTraceCollection	1	
Balar -	Vew Details		Standard TabSync User	1	
N.0183			Third Party Application Users	1	
	Vew Details		[Select All] [Clear All] [Add Selected] [Close]		

创建CUP用户

#### 使用以下方法在CMS上启用CUCM和思科统一通信管理器IM和在线状态服务(IMPS)证书的证书验证:

callbridge ucm verify <enable/disable>

callbridge imps verify <enable/disable>



Callbridge验证CUCM和CUPS证书

通过运行callbridge命令进行验证。



Callbrdge命令检查

现在使用callbridge ucm add <hostname/IP> <axl\_user> <presence\_user>在CMS上添加CUCM完全限定域名(FQDN)和之前创建的用户 AXL和CUPS。

axl\_user = CUCM上的AXL用户

presence\_user =之前创建的CUP用户



将CUCM添加到Callbridge

现在,借助以下工具,验证CMS是否信任CUCM服务:

callbridge ucm <hostname/IP> axl\_service status

callbridge ucm cucm14test.test.com axl\_service status



#### Callbridge AXL状态

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

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

```
wb3>
wb3> callbridge imps impnew.test.com cupuser presence_service status
Enter presence user password:
Presence service available.
wb3>
```

Callbridge在线状态

可用的服务意味着CUCM和CMS在AXL和在线状态服务方面相互信任。



### 注意:

CUCM在CUPS上同步并更新了轻量级目录访问协议(LDAP)用户。用户必须具有相同的Web应用用户ID和Jabber JID,并且必须使用相同的用户ID登录Web应用,才能在Jabber上更新在线状态。

Webapp和Jabber客户端之间在线状态共享的CUCM特定配置

CUCM必须已配置LDAP。

LDAP 系统:

LDAP System Configuration								
Status Please Delete All LDAP Directories Before Making Changes o Please Disable LDAP Authentication Before Making Changes	n This Page on This Page							
⊂ LDAP System Information								
Enable Synchronizing from LDAP Server								
LDAP Server Type Microsoft Active Directory	~							
LDAP Attribute for User ID SAMAccountName								

CUCM LDAP 配置1

LDAP 目录:

LDAP Directory							Rel	ated Links: Back to
🔚 Save 🗶 Delete [ Copy	Perform Fu	II Sync Now	Add New					
LDAP Directory Information								
LDAP Configuration Name*	ADDOT240							
LDAP Manager Distinguished Name*	administrator@	test.com			ī			
LDAP Password*					ĩ			
Confirm Password*					ī .			
LDAP User Search Base*	OU=Acano,DC=	test,DC=com						
LDAP Custom Filter for Users	< None >			~				
Synchronize*	💿 Users Only	O Users ar	nd Groups					
LDAP Custom Filter for Groups	< None >			~				
LDAP Directory Synchronization S Perform Sync Just Once Perform a Re-sync Every* Next Re-sync Time (YYYY-MM-DD h	Schedule 7 (2023-1)	10-31 00:00	DAY V					
Standard User Fields To Be Synch	nronized —							
Cisco Unified Communications Mana	ger User Fields	LDAP Attribu	te				Cisco Unified Communications Manager User Fie	lds LDAP Attribute
User ID		sAMAccount	lame				First Name	givenName
Middle Name		middleName	~				Last Name	sn
Manager ID		manager					Department	department
Phone Number		telephoneNu	mber 🗸				Mail ID	mail
Title title					Home Number	homephone		
Mobile Number		mobile					Pager Number	pager
Directory URI		mail	~				Display Name	displayName

CUCM LDAP 配置2

#### LDAP 验证:

#### CUCM LDAP配置1 CUCM LDAP配置1 CUCM LDAP配置1

LDAP Authentication		
Save		
⊂ Status —		
(i) Status: Ready		
LDAP Authentication for End User	5	
Use LDAP Authentication for End	I 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	st Name or IP Address for Server *	LDAP Port* Use TLS
		389
Add Another Redundant LDAP Ser	ver	

CUCM LDAP 配置3

从LDAP提取到配置了邮件ID的CUCM的用户:

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

### CUCM中的用户

在CUPS服务器上更新的CUCM用户:

ababa	<b>Cisco Unified CM</b>	IM and Pres	ence Adm	inistratio	n		Navigation	Navigation: Cisco Unified CM IM and Presence Administ				▼ G0
cisco	For Cisco Unified Commun	cations Solutions						4	8	cisco	Logout	About
System -	Presence - Messaging -	Application - Bulk	Administration 👻	Diagnostics -	Help 🔻							
E Presence	e Topology	Node User Ass	ignment (impn	ew.test.com)								
E-20	impnew.test.com	Status										
	- 🎦 (2) users	1 2 records	(i) 2 records found									
	nassigned Users (0) ssigned Users (2)											
		User Assignm	nent (1 - 2 d	of 2)						Rows	per Page	50 🗸
		Find User Assig	nment where	ser ID 🗸 🗸	begins with v		Find Clear Filter	4 -				
		User ID 🔺	First Name	Last Name	IM Address	Directory URI	Failed Over	Node		Presence	Redundancy	Group
		test	test	test	test@test.com	test@test.com		impnew.test.com	D	efaultCUPS	ubcluster	
		test2	test2	2	test2@test.com	test2@test.com		impnew.test.com	D	efaultCUPS	ubcluster	

CUPS用户

CMS上也配置了同一LDAP目录。在CMS上提取并同步用户数据库。



### 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
popol 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用户

#### 现在,由于您已验证CMS可以信任CUCM,因此您可以继续测试在线状态。

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> []

将CUPS和CUCM添加到CMS

验证

使用同一用户(从同一LDAP同步)在两个客户端上签名:



用户在Jabber和WebApp中登录

#### 两个客户端都登录到同一用户<u>test@test.com</u>。

Μ	0		Π	٥	- 0 ×
1 test.space		0	test test test@test.com Status Available >		
	test test's Home	S	My Profile		
	Last logi 2023-10-26 at 13:57. See details		Settings Sign Out		
	Join a meeting			T	
	My spaces		Add Contact New Custom Contact		
	test.space O Juin test.space				
		5			

呼叫前在Jabber和Webapp中的在线状态



从WebApp加入呼叫时在线状态更改

当Jabber用户登录Web应用并加入会议时,会议服务器会将Jabber状态更新为"在会议中,在呼叫中",并在用户结束会议后恢复至其先 前状态。例如,如果Jabber上的用户状态显示"可用",则在Web应用会议中将其更新为"在会议中,在呼叫中"。用户离开会议后 ,Jabber状态再次设置为"可用"。如果Jabber用户在加入Web应用会议时正在另一个会议/呼叫中,则会议服务器不会更新Jabber状态。 如果Jabber用户在加入Web应用会议之前将其状态设置为"免打扰",则会议服务器不会更新Jabber状态。如果用户在Web应用会议期间 随时手动更新Jabber状态,会议服务器不会覆盖手动更新的用户状态。

## 关于此翻译

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