

## ScopTEL Certificate Manager



#### **Certificate Pre-Requisites**

Self Signed Certificates are generally not supported by phone Manufacturer's therefore it is recommended you check with your phone hardware vendor to see which Certificate Authorities are supported.

You will first have to use the ScopTEL Certificate Manager to create your own Certificate Signing Request in order to purchase a Signed Certificate from a supported Certificate Authority

Most Certificate Authorities will provide you with a Root Certificate and a Chained Certificate (Chained Certificates are not mandatory but are very commonplace).

Once you have the Root CA, Certificate Chain, and a Signed Certificate from a supported Certificate Authority you can use the ScopTEL Certificate Manager to create Certificates for the following purposes:

- 1. Encrypting GUI communications using SSL (HTTPS)
- 2. Encrypting Phone Provisioning files during phone download using SSL (HTTPS)
- 3. Encrypting SIP signalling with SSL (TLS)
- 4. Encrypting SIP audio streams with SSL (SRTP)





#### **Creating the CSR – Certificate Manager - Click on Add a New CSR**

Fill in all the required fields

If you are purchasing a Wildcard Certificate put a \*. In from of your domain name in the Common Name Field

Example: \*.yourdomain.com

When done click on the Key Settings Tab

Certificate Manager	
Root CA Certificates Requests (CSR)	
Add a new Request (CSR)	
General Key Settings	
★ Certificate Request Name :	csr2016
* Common Name:	sip.yourdomain.com
	Example: your name or your server's hostname
* Organization :	Your Organization
Organizational Unit :	
★ Locality (city):	Your City
★ State (full name) :	Your State
★ Country:	CA
	2 letter code
Email:	youremailaddress@yourdomain.com
Comment:	
Add Cancel	

Legend: \star Required Field 😰 Page Refresh on Change



#### **Creating the CSR – Certificate Manager – Key Settings**

Select a Digest Algorithm supported by your IP phone's manufacturer

It is recommended to choose a Key Size of at least 2048 bits

Passphrase is not required

Click Add when done

Add a new Request (CSR)
General Key Settings
Digest Algorithm : SHA-1
Default: MD5
Key Size: 2048 bits 💌
Default: 1024 bits
Passphrase:
Add Cancel
Legend: 🗙 Required Field 😰 Page Refresh on Change



#### **Creating the CSR – Certificate Manager – Download your CSR**





#### **Creating the CSR – Certificate Manager – Download your CSR**

Copy and Paste your Certificate Request to your Certificate Authority when you your purchase your CA for Domain Validation.

Wait for your CA to send you your Certificate before generating your Certificate

You will copy and paste the Private Key Data into your Server Authentication Certificate in a later step

Certificate Signing Request Data	X
Certificate Data	Click here to Download
BEGIN CERTIFICATE REQUEST	
MIIDATCCAekCAOAwa78xCzAIBaNVBAVTAkNBMRMwEOVDVOOIEwp7b3VviEN0VXRI	-
MRIwEAYDVOOHEwIZb3VvIENpdHkxGiAYBaNVBAoTEVIvdXIgT3JnYW5pemF0aW9u	
MRswGQYDVQQDExJzaXAueW91 cmRvbWFpbi5jb20xLjAsBgkghkiG9w0BCQEWH3lv	
dXJlbWFpbGFkZHJlc3NAeW91cmRvbWFpbi5jb20wggEiMA0GCSgGSIb3DQEBAQUA	-
A4IBDwAwgqEKAoIBAQDcq6h0/mKBvf/53Z8htyyEf4IvIm5/ZEKeEoWkiDE/sPnE	44
Private Key Data	Click here to Download
BEGIN RSA PRIVATE KEY	*
MIIEowIBAAKCAQEA3KuodP5igb3/+d2flbcshH+CL5Zuf2RCnhKFpIwxP7D5xFKR	
y1k61bVX2xz3t0RRGd7yNve4gT1s0ypoS8z7CSyEgLA3hA4sNPO7I1hC4pdFESW2	
YE/Ls7zeEPW+74wrnynH04n4HB46zTxQqDOhfmoN0weFgzYjVj1JKigAtL5Txk6D	
U83Uo6EiO4hT1Y7dh4HzhLDo6DI+hsQLCL0MEN4WAaOv73CpISnAKVufPI/LCU55	*
fiSNxYj977iJmatarWoQbKiPEkrI+zjD+xLxZKxTTr95NI9rukE13/pQMVi9IPAK	
PEM (Privacy Enhanced Mail) Data	Click here to Download
BEGIN CERTIFICATE REQUEST	*
MIIDATCCAekCAQAwgZ8xCzAJBgNVBAYTAkNBMRMwEQYDVQQIEwpZb3VyIFN0YXRI	
MRIwEAYDVQQHEwIZb3VyIENpdHkxGjAYBgNVBAoTEVIvdXIgT3JnYW5pemF0aW9u	
MRswGQYDVQQDExJzaXAueW91cmRvbWFpbi5jb20xLjAsBgkqhkiG9w0BCQEWH3lv	
dXJlbWFpbGFkZHJlc3NAeW91cmRvbWFpbi5jb20wggEiMA0GCSqGSIb3DQEBAQUA	-
A4IBDwAwggEKAoIBAODcg6b0/mKBvf/5378htwEf4IvIm5/7EKeFoWkiDE/sPnF	



#### **Creating the CSR – Certificate Manager – Import a Certificate (Root CA)**

Copy and Paste your CA's Root CA into the text box and click Add

Certificate Manager	_	
Root CA Certificates Requests (CSR)		
Add a new Root CA		
General		
★ Certificate Authority Name :	yourcarootca	
Import a Certificate (Root CA) ? 👔 :		-
★ Certificate (Root CA):	BEGIN CERTIFICATE MIIDfTCCAuagAwIBAgIDErvmN TAIVT MRAwDgYDVQQKEwdFcXVpZn SBDZXJ0 aWZpY2F0ZSBBdXRob3JpdHkw xMDQwMDAw WjBCMQswCQYDVQQGEwJVUz MBkGA1UE	AA0GCSqGSIb3DQEBBQUAME4xCzAJBgNVBAY
Add Cancel		



#### **Creating the CSR – Certificate Manager – Add a new Certificate**

Give your Certificate a name

Select Import Certificate & Key = Signed Certificate

Then click on the Certificate & Key tab

Certificate Manager	
Root CA Certificates Requests (CSR)	
Add a new Certificate	
General Certificate & Key	
* Certificate Name: vourcertname	
Import a Certificate & Key? 💽 : Signed Certificate	
Default: No	
Comment:	.4
Add Cancel	



#### **Creating the CSR – Certificate Manager – Add a new Certificate**

Copy and Paste your CA's Signed Certificate data into the Signed Certificate text box Copy and Paste your CSR's Private Key data into the Private Key text box Click Add

General Certificate & Key	
* Signed Certificate:	BEGIN CERTIFICATE MIIDfTCCAuagAwIBAgIDErvmMA0GCSqGSIb3DQEBBQUAME4xCzAJBgNVBAY TAIVT MRAwDgYDVQQKEwdFcXVpZmF4MS0wKwYDVQQLEyRFcXVpZmF4IFNIY3VyZ SBDZXJ0 aWZpY2F0ZSBBdXRob3JpdHkwHhcNMDIwNTIxMDQwMDAwWhcNMTgwODI xMDQwMDAw WjBCMQswCQYDVQQGEwJVUzEWMBQGA1UEChMNR2VvVHJ1c3QgSW5jLjEb
★ Private Key:	BEGIN RSA PRIVATE KEY MIIEowIBAAKCAQEA3KuodP5igb3/+ d2flbcshH+ CL5Zuf2RCnhKFpIwxP7D5xFK R y1k61bVX2xz3t0RRGd7yNve4gT1s0ypoS8z7CSyEgLA3hA4sNPO7I1hC4pdFESW2 YE/Ls7zeEPW+74wrnynH04n4HB46zTxQqDOhfmoN0weFgzYjVj1JKigAtL5Txk6 D U83Uo6EiO4hT1Y7dh4HzhLDo6DI+hsQLCL0MEN4WAaOv73CpISnAKVufPI /LCU55 fiSNxYj977iJmatarWoQbKiPEkrI+zjD+xLxZKxTTr95NI9rukE13/pQMVi9IPAK



#### **Creating the CSR – Certificate Manager – Add a new Certificate – Certificate Chain**

Certificate Type = Intermediate and Chain Certificate

Certificate Name: Enter a name in the text field

Click on the Certificate tab

Copy and Paste the Certificate Chain data you received from your CA when they issued your Certificate

Click Add

**Congratulations you have configured** your Certificates

Certifi	cate Mai	nager			
Root	CA Ce	rtificates	Requests (CSR)		
Add a	new Ce	rtificate		-	
Gene	eral Ce	rtificate			
			* Certificate:	BEGIN CERTIFICATE U0hBMjU2IENBIC0gRzMwggEiMA0GCSqGSIb3DQEBAQUAA4IDRDwAwggEKA oIBARAR VJvZWF0eLFbG1eh/9HDAG //Qi1rkjqfdVC7UBMBdmJyNkA+8EGVf2prWRHzAn723 SowLBk/MEu/SW4ib2YQGRZjEiwzQ0Xz8/kS9EX9zHFLYDn4ZLDqP /oIACg8PTH2IS 1p1kD8mD5xvEcKyU58Okaiy9uJ5p2L4KjxZjWmhxgHsw3hUEv8zTvz5IBVV6s9cQ DAP8m/0Ip4yM26e08R5j3LMBL3+vV8M8SKeDaCGnL+enP /C1DP21hNFTvA5yT2PM qwVkDBF9qn1luMrMTjAdBgNVHQ4EFgQUw5zz/NNGCDS7zkZ /oHxb8+IIy1kwEgYD VR0TAQH/BAgwBOOG /wIBADAOBgNVHQ8BAf8EBAMCAQYwNQYDVR0fBC4wLDAqoDAG JoYkaHR0cDovL2cuc3ItY2IuY29tL2NybHMvZ3RnbG9iYWwuY3JsMC4GCCsGA QUF BwEBBCIwIDAeBggrBgEFBQcwAYYSaHR0cDovL2cuc3ItY2QuY29tMEwGA1UdI ARF MEMwQQYKYIZIAYb4RQEHNjAzMDEGCCsGAQUFBwIBFiVodHRwOi8vd3d3Lm dIb3Ry dXN0LmNvbS9rZXNvdXJjZXMvY3BzMA0GCSqGSIb3DQEBCwUAA4IBAQCjWB7	
Add	Cancel				



### **Configuring the Server to Enable SSL (GUI)**

Save

Cancel

Go to Server>Configuration and click on the Security (SSL) Tab

Enable SSL (GUI)?

For the Private Key select your Certificate

For the Certificate select the same Certificate

Highlight the Certificate Chain you create d earlier

Click Save

The Web server will restart once you click save and you will have to login to your server replacing <u>http://yourserver.com</u> with <u>https://yourserver.com</u>

**Congratulations you have enabled TLS encryption on the ScopTEL Management GUI** 

Server Configuration
Configuration
Configuration
General Provisioning Proxy Settings SMTP Settings Performance Tuning Security (SSL)
Enable SSL (GUI) ? 😭 : 🗹
* Private Key: yourcertname
* Certificate: yourcertname 💌
Certificate Chain:
To select multiple items, hold down the Control (PC) or Command (Mac) key while clicking.





#### **Configuring the Server to use HTTPS Provisioning for your IP Phones**

Go to Server>Configuration and click on the Provisioning Tab

From the HTTPS Provisioning Menu change the HTTP Protocol to HTTPS

Enter the LAN or WAN address specific to your server in each field (the screen shot only displays examples)

**Click Save** 

The Web server will restart

Congratulations you have enabled SSL encryption for the Automatic Provisioning System

Server Configuration	
Configuration	
Configuration	
General Provisioning Provy Setting	s SMTP Settings Performance Tuning Security (SSL)
★ SIP Server Address :	172 . 16 . 78 . 1
TFTP Provisioning	
Enable TFTP support ? 👩 :	☑ Default: True
Enable Syslog Logging ?:	✓ Default: True
Enable 'Write' permission ?:	
TFTP Server Address :	172 . 16 . 78 . 1
HTTP Provisioning	
Enable HTTP support ? 😭 :	V Default: True
* Protocol:	HTTPS -
★ Server (Hostname or IP):	192.168.78.1 Default: 192.168.192.78
* Listen on Port 😭 :	5555 Default: 5555
* TFTP Alias:	/tftpboot/
Enable Auto-Create support if configuration : doesn't exist ?	
Enable HTTP Authentication ? 😭 :	
ScopCOMM Provisioning	
Enable ScopCOMM Provisioning service ?	
Save Cancel	



#### **Configuring Telephony – Channels - SIP Channel**

- Enable support for SIP TLS (Secure)
- Select your Certificate
- Highlight your Certificate Chain
- Click Save
- Commit your Telephony changes
- **Restart the Telephony Server**
- **Congratulations you have enabled SIP TLS support** for the Telephony Server

Telephony Settings: Channels	
Configuration Channels Language	Time Zones Asterisk Manager External API Monitoring Scheduled Tasks
Channels	
General RTP Options Codecs	SIP Channel IAX Channel Woomera Channel ENUM mISDN Channel Jitter Buff
Port (UDP):	5060 Default: 5060
Bind Address (UDP) :	IPv4: 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0
Enable support for SIP TCP ?	
Port (TCP):	5060 Default: 5060
Bind Address (TCP) :	IPv4: 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0
Enable support for SIP TLS (secure) ? 😰 :	
Port (TLS):	5061 Default: 5061
Bind Address (TLS) :	IPv4: 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0
* Certificate :	yourcertname 💌
Certificate Chain :	yourcachain
	To select multiple items, hold down the Control (PC) or Command (Mac) key while clicking.
Enable Outbound Proxy support ? 😭 :	When enabled, the server will send outbound signalling to the specified server, not directly to devices.



#### **Configuring Telephony – Extension – Phone Options**

Edit an extension's Phone Options so that it will use Transport Mode TLS and Enable SRTP encryption AES 80

Save and Commit your changes

Congratulations you have just enabled TLS/SRTP on this extension and restricted all communications to use encryption

Telephony Settings: Channels	
Configuration Channels Language	: Time Zones Asterisk Manager External API Monitoring Scheduled Tasks Ha
Channels	
General RTP Options Codecs	SIP Channel IAX Channel Woomera Channel ENUM mISDN Channel Jitter Buffer
Port (UDP):	5060 Defende 5060
Bind Address (LIDP)	
billa Address (obi ).	
Enable support for SIP TCP ? 👔 :	
Port (TCP):	5060
	Default: 5060
Bind Address (TCP) :	<i>IPv4</i> : 0 . 0 . 0
	IPv6:
Enable support for SIP TLS (secure) ?	
Port (TLS):	5061
Pind Address (TLS)	Default: 5061
bind Address (TES):	
+ Certificate	
Certificate Chains	yourcertname
Certificate Chain :	yourcachain
	To select multiple items, hold down the Control (PC) or Command (Mac) key while clicking.
Enable Outbound Proxy support ? 🞅 :	When enabled, the server will send outbound signalling to the specified server, not directly to devices



In this example we are configuring a template and only the options needed to secure communications on the phone.

Configure the Provisioning tab to use HTTPS by putting https in the provisioning URL and by selecting the certificates you created earlier.

Then click on the Options tab

General Provisioning Options	Servers Network Date and Time Phone Options Audio Soft Keys Secu
Multicast Paging	
Firmware Version 👔 :	8.x 💌
	Default: 8.x
Firmware URL :	https://yourserverip.yourdomain.com:55
Firmware Status URL :	
	URL of the firmware configuration file. e.g. http://www.company.com/settings/snomXXX-firmware.htm
* Configuration Server:	https://yourserverip.yourdomain.com:55
	Example: http://server:5555/tftpboot/snom/{mac}.xml
Web Language URL :	http://provisioning.snom.com/config/w
	Default: http://provisioning.snom.com/config/web_lang.xml
GUI Language URL :	http://provisioning.snom.com/config/gi
	Default: http://provisioning.snom.com/config/gui_lang.xml
Undate Policy:	
opulte Policy.	Pefault Settings Only (no Firmware)
	Default: Settings Only (no Firmware)
User can write/overwrite existing configuration :	
on phone ?	



Edit the path for the Certificate URL to include https and select the Certificates you created earlier Then click on the Servers tab

Phone Provisioning
General         Provisioning         Options         Servers         Network         Date and Time         Phone Options         Audio         Soft Keys         Security         LDAP         PBX Services           Multicast Paging         Multicast Paging </th
Syslog Server: Server to store the log messages coming from the phone.
Certificate URL: https://yourserverip.yourdomain.com:55 Example: http://192.168.0.1:5555/tftpboot/snom/(mac}.DER
Certificate: yourcertname 💌 If you want to use TLS encryption, you must specify a Client Certificate.
Certificate Chain : yourcachain To select multiple items, hold down the Control (PC) or Command (Mac) key while clicking.
Display Name (Global) : You can use the following macros: \${EXTEN}, \${NAME}, \${USER}
Add Cancel





Change both the Registrar Port and Proxy Port to 5061 You must enter both the Registrar and SIP Proxy IP Then click on the PBX Services tab

Phone Provisioning	
General Provisioning Options Multicast Paging	Servers Network Date and Time Phone Options Audio Soft Keys Security LDAP PBX Services
★ Registrar: SIP Proxy:	172       . 16       . 78       . 1       Port 5061         172       . 16       . 78       . 1       Port 5061
Start RTP Port:	10000 Default: 10000
Stop RTP Port:	20000 Default: 20000
SIP Retry T1 :	500 Set the retry timer in milliseconds after which an unanswered request is resent. If it is set to 500, the phone will resend the unanswered request after 500, 1000, 2000, 4000, 6000 31500 ms. If the request is still unanswered after this procedure, an error message will be shown on the display.
Subscription (SUBSCRIBE) expiration (in seconds) :	360 Default: 360
Subscription (SUBSCRIBE) delay (in seconds) :	60 Selects a random number around the given value in seconds to send delayed batch subscriptions (Minimum value is 60 seconds).



Change the GUI Protocol selection to HTTPS

In the GUI Server (hostname or IP) field enter the required IP address or Fully Qualified Host Name of the server

Click Add when done

Phone Provisioning	
General Provisioning Options Multiteast Paging	Servers Network Date and Time Phone Options Audio Soft Keys Security LDAP PBX Services
GUI Protocol :	HTTPS -
★ GUI Server (Hostname or IP):	172.16.78.1 Default: 192.168.192.78
* GUI Port :	5555 Default: 5555
Use Micro-Browser ? 👔 :	
Use internal Directory ? 👔 :	
Enable Hotline support ? 🚬 :	
URL to display on Spom/Services key:	
LIBL to display on Directory keys	
Action URL for Incerting Colle	
Action UKL for Incoming Call:	
Action URL for Outgoing Call:	
Action URL for an Off-Hook:	
Action URL for an On-Hook:	
Action URL on Connected Call:	
Action URL on Disconnected Call:	
Action URL on Missed Call :	
Add Cancel	



- Edit an existing or create a new MAC object for your Snom phone
- Click on the Lines tab
- Assign an extension to Line 1 (other lines are optional)
- Enable Secure RTP (SRTP) must be checked
- Only Accept SRTP (secure) calls must be checked
- Enable TLS transport must be checked
- Save your changes
- Commit Telephony changes
- Commit APS changes
- Reboot the phone so it downloads its new configuration files

Phone Provisioning	
General Lines Network PBX Se	rvices Multicast Paging
Line 1 😰 :	112: Test 112 (SIP)
Display Name :	
	If empty, we will use the value of 'Display Name (Global)'. You ca
Enable ICE support ?:	
Default Ring Tone :	Ringer 1 💌
	Default: Ringer 1
Enable Secure RTP (SRTP)? 🗝 :	
Only accept SRTP (secure) calls?:	If checked, the SAVP header will be mandatory.
Enable TLS transport ?:	Vou must define a SIP (Outbound) Proxy and set TLS port (5061).
Enable SIP INFO (DTMF) ?:	
Use Custom Dial Plan ? 🛃 :	
Failover Identity :	None 💌
	This identity will be used as a backup for failover, i.e. if the currer
Line 2 😰 :	None
Line 3 😰 :	None
Line 4 😰 :	None
Save Copy Cancel	





In this example we are configuring a template and only the options needed to secure communications on the phone.

Configure the Provisioning tab to use HTTPS by putting https in the provisioning URL and by selecting the certificates you created earlier.

Then click on the Lines tab

Phone Provisioning	
General Provisioning Lines Se PBX Services Security	ervers Network Options Date and Time User Preferences Audio/RingTone Paging/PTT LDAP
Provisioning Server:	https://yourserverip.yourdomain.com:55 Use this provisioning server if the DHCP client is disabled, if the DHCP server does not send a boot server option, or if the boot server parar set to Static. If using a URL, you can apply a user name and password.
Provisioning Server Type:	HTTPS  Default: TFTP
Provisioning Server Username:	
Provisioning Server Password :	
Firmware Version 😭 :	4.0+ Default: 4.0+
Firmware Application :	sip.ld Default: sip.ld
Certificate :	yourcertname 💌
	If you want to use TLS encryption, you must specify a Client Certificate.
Certificate Chain :	yourcachain 🔶
	To select multiple items, hold down the Control (PC) or Command (Mac) key while clicking.
Trusted Root CA:	yourcarootca 💌
Add Cancel	



Enable SRTP (secure) calls? Then click on the Servers tab





Change the SIP Transport to TLS Change the SIP Proxy Port to 5061 Click on the PBX Services Tab

Phone Provisioning	
General Provisioning Lines Se PBX Services Security	rvers Network Options Date and Time User Preferences Audio/RingTone
SIP Transport:	TLS
* SIP Proxy: Backup Proxy: Outbound Proxy: Emergency Proxy: Emergency Number(s):	172       . 16       . 78       . 1       Port 5061         .       .       .       Port         .       .       .       Port         .       .       .       Port
Keepalive (SIP HDP/TCP/TLS)	Please note that you must define an Emergency Proxy. Coma-separated list (Example: 911, 9911)
Enable Session Timers ?: Enable TCP keep-alive for TLS transport ?: Wait Time before sending Keep-alive message to :	30
server ? Retry Time before sending Keep-alive message to : server ?	Permitted Value 10 to 7200 seconds. 20 If no response is received to a keep-alive message, subsequent messages are sent at this interval. Permitted Value 5 to 120 seconds.
Add	



Change the GUI Protocol to use HTTPS

And edit the GUI Server (Hostname or IP) to match your required configuration.

Click Add when done

Provision MAC addresses for your Polycom phones and apply the template to each required phone

Commit Telephony changes

**Commit APS changes** 

Reboot the phone so it can download its required configuration files

Phone Provisioning
General         Provisioning         Lines         Servers         Network         Options         Date and Time         User Prefe           PBX Services         Security
Note: You must have Firmware SIP 2.1 or later to get Microbrowser support on SoundPoint IP 430 and 501 platform.
GUI Protocol: HTTPS
★ GUI Server (Hostname or IP): <u>192.168.192.78</u> Default: 192.168.192.78
★ GUI Port: 5555
Proxy Server:
Use Micro-Browser ? 😰 : 🔲
Use internal Directory ? 👔 : 📖
Refresh Interval (in seconds): 15 Default: 15
URL to display on the Main page:
Add Cancel



- Edit the MAC address object of your Polycom phone
- Select the desired Tenant
- Choose the correct Phone Model from the list
- Choose the Phone Template you configured with HTTPS parameters
- Click on the Lines tab and assign an extension
- Save your settings
- Commit Telephony changes
- Commit APS changes
- Reboot the phone to download the configuration files

Phone Provisioning
General Lines Network PBX Services License
Local SIP Port:
Key/Line 1 👔 : 5000; (SIP)
Default: none
* Number of line keys appearances ?: 1
This tells phone phone how many line appearances each line definition should take.
* Number of Calls per Line key: 8
Default: 8
Auto off hook ?:
Auto off hook contact:
Key/line 2 Fit
None
Default: none
Key/Line 3 😰 : None
Default: none
Key/Line 4 😰 : None
Default: none
Add Cancel



In this example we are configuring a template and only the options needed to secure communications on the phone.

Configure the Provisioning tab to use HTTPS by putting https in the provisioning and Firmware URL and by selecting the certificates you created earlier.

Then click on the Server tab





Change the Registrar Port to 5061 Then click on the PBX Services tab

Phone Provisioning	
General Provisioning Server Netwo Internal Ringer Multicast Paging PBX Server	ork Date and Time Phone Options DSS Keys vices LDAP
★ Registrar: 172	. 16 . 78 . 1 Port 5061
Outbound Proxy Server:	Port
Backup Registrar:	Port
Backup Outbound Proxy Server:	Port
★ Registration Expiration Time: 360 Defa	0 Jult: 3600
★ Registration Retry Counts: 3 Defa	ult: 3
Failback Mode: Ne	w Requests 💌
★ Failback Timeout : 360 Defa	0 ault: 3600
Register on Enable?: Ena	bles or disables the IP phone to register to the secondary server
Save Copy Cancel	



Change the GUI Protocol to use HTTPS

And edit the GUI Server (Hostname or IP) to match your required configuration.

Phone Provisioning
General Provisioning Server Network Date and Time Phone Option Internal Ringer Multicast Paging PBX Services LDAP
GUI Protocol: HTTPS 💌
★ GUI Server (Hostname or IP): 172.16.78.1 Default: 192.168.192.78
★ GUI Port : 5555 Default: 5555



- Edit the MAC address object of your Yealink phone Select the desired Tenant
- Choose the correct Phone Model from the list
- Choose the Phone Template you configured with HTTPS parameters
- Click on the Lines tab and assign an extension
- Choose Transport: TLS
- Enable Voice Encryption (SRTP)
- Save you settings
- Commit Telephony changes
- Commit APS changes
- Reboot the phone to download the configuration files

Phone Provisioning		
General Lines Network PBX Services		
Line 1		
Line 1 🧝 :	5000: (SIP)	
Label (Phone Display) : 5	5000	
Display Name :		
Ring Type:	Common 🔻	
D	efault: Common	
Caller ID Source:	PAI-FROM	
Transport:	TLS 💌	
DTMF Mode:	RFC2833	
D	Default: RFC2833	
Enable Voice Encryption (SRTP)?	7	
Only accept SRTP (secure) calls?:		
Enable Auto-Answer?:		
Customize Voicemail Button ? 👩 : 🖉		



#### **Verifying Operation**

τ.

sip\*CLI> sip show tcp

Address	Transport Type
192.168.192.191:12501	TLS Client
192.168.192.191:11880	TLS Server
192.168.192.6:2057	TLS Server
192.168.192.6:2075	TLS Server

Transport TLS confirms that the peer is configured to use TLS

If you want to check the validity of your SSL Certificate use this URL

https://cryptoreport.rapidssl.com/checker/views/certCheck.jsp





#### Vous avez besoin de plus d'information?

#### ScopServ Europe

(via Channel Plus)

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## Nous vous remercions pour votre intérêt envers nos solutions.



#### Need more information?

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