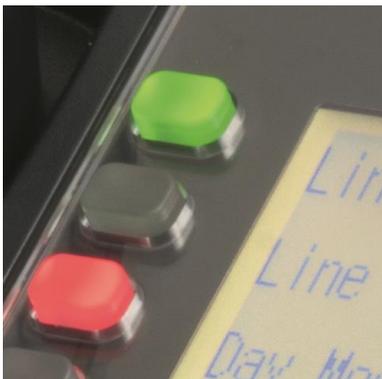


The SL2100 Quick Install Guide: UNIVERGE ST500 Mobile Client

Out of the
box
installations
for resellers



This guide explains the installation, configuration and operation of the UNIVERGE ST500 Mobile Client for the SL2100 Telephone System.

Further information is available on BusinessNet.

Please keep all information supplied for future reference.

Regulatory Notice.

Refer to the Declaration of Conformity, Regulatory and Safety Considerations shown in the SL2100 Hardware Manual.

Warning: This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Other Documentation available:

- UNIVERGE ST500 for iOS – Configuration Manual
- UNIVERGE ST500 for iOS – Operation Manual
- UNIVERGE ST500 for iOS – Quick Reference Guide
- UNIVERGE ST500 for Android – Configuration Manual
- UNIVERGE ST500 for Android – Operation Manual
- UNIVERGE ST500 for Android – Quick Reference Guide

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1- ST500 Overview

This Quick Install guide describes how to install and configure the UNIVERGE ST500, a smart device client app that allows you to make and receive calls from anywhere, as if you were at your desk.

While in the office, connect to Wi-Fi and you are ready to handle your calls. While outside the office you can use Wi-Fi Hotspots or your mobile data (3G / 4G¹) to handle your calls without incurring further mobile call costs².

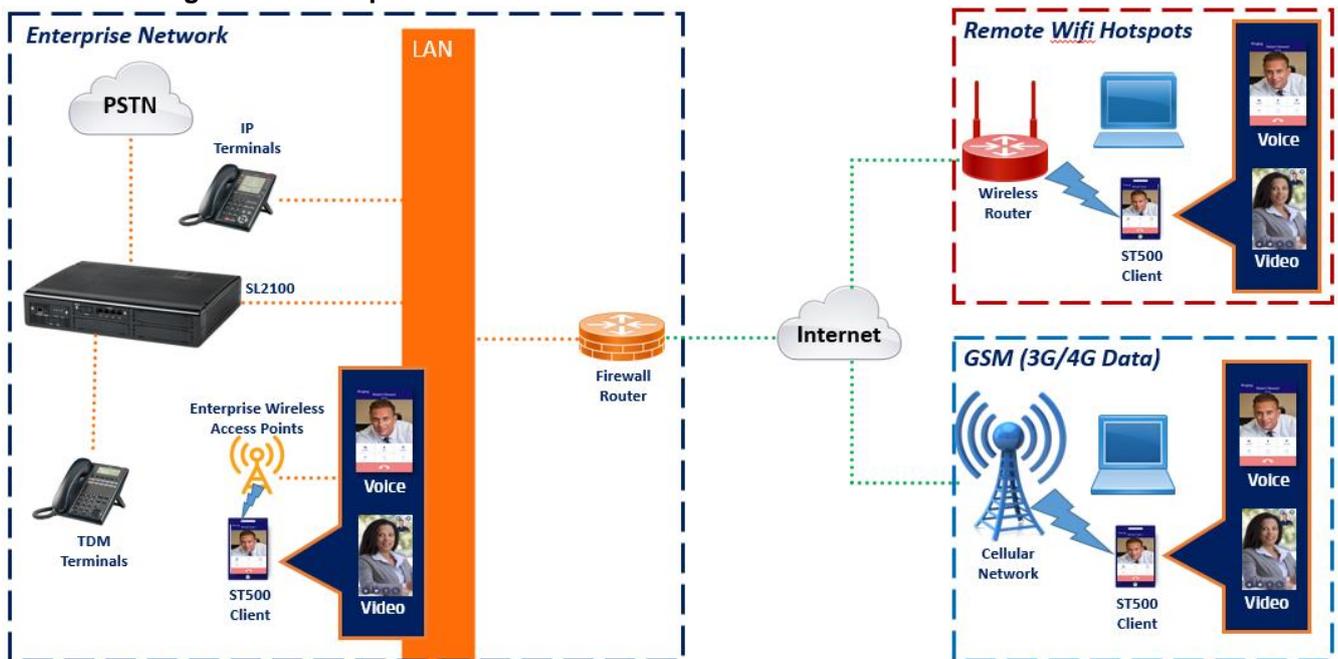
UNIVERGE ST500 can also offer video calling using the H.264 codec for video calls, so UNIVERGE ST500 supports video calling with other standard SIP phones who also support the H.264 codec.

UNIVERGE ST500 Mobile Client is supported on both Apple iOS and Google Android OS.

¹ Due to the characteristics between 3G and 4G services, and also variable factors such as signal strength and antenna congestion, voice calls over 3G connections may suffer voice quality issues and 4G connections are preferred although may still suffer. When using mobile data connections, the G.729 audio CODEC is recommended to be used for minimal bandwidth usage.

² Fees for data usage may apply. Check with your service provider when using UNIVERGE ST500 over data plans.

Network Configuration Example



NOTE1: Remote video calling for UNIVERGE ST500 Mobile Clients is only supported over a VPN connection.

2- System Requirements

Item	System Requirements
Supported OS	Android 8.0 or later. (See NOTE1 below). iOS Supports only the latest version released by Apple Inc.

NOTE1: Android notification dots and multi-window function are not supported.

“UNIVERGE ST500” Application is available on Google Play and iOS app stores

Device Support

- Android Smartphones and Tablets (Tablet devices only operate in Portrait mode)
- iOS Devices:
-

Device Name
iPhone11 pro
iPhone11
iPhone XS Max
iPhone XS
iPhone XR
iPhone X
iPhone8 Plus
iPhone8
iPhone7 Plus
iPhone7
iPhone6S Plus
iPhone6S
iPhoneSE
iPhone6 Plus (Not support)
iPhone6 (Not support)

Communication Server Support

- SL2100 v2.3 Main Software or later

Licenses

- SL2100
 - EU909388 (SL2100 NEC SIP License) per UNIVERGE ST500 Client

3- SL2100 Configuration for UNIVERGE ST500 Mobile Clients

This Quick Install Guide will cover the UNIVERGE ST500 configuration. For other system configurations please refer to the relevant SL2100 Quick Install Guide.

You must have SL2100 PCPro installed to your laptop/PC, this can be downloaded from BusinessNet, refer to the Quick Install Guide – SL2100 PCPro.

Before you configure your system it is important that you:

- Plan your requirements before you start.
- Have sufficient EU909388 SL2100 NEC SIP Licenses installed for the required number of UNIVERGE ST500 Mobile Clients.

While you configure your system it is advised that you:

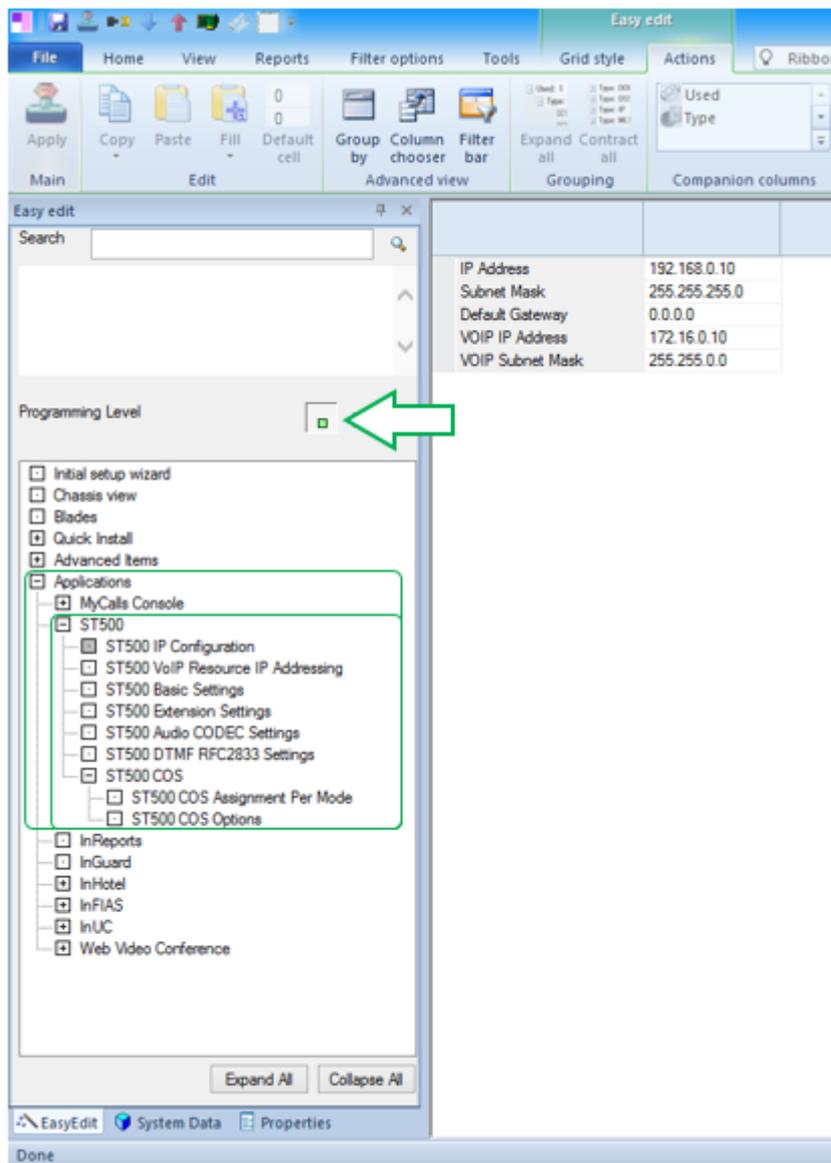
- Make a record of your configuration as you make each change.
- Make small changes, upload to the SL2100 and test the changes. Avoid making all your changes at once as this can make testing more difficult.

With the default/factory settings:

- UNIVERGE ST500 Mobile Clients are not configured

UNIVERGE ST500 Mobile Client configuration is not included within the Initial Setup Wizard, use Easy Edit to configure UNIVERGE ST500 Mobile Clients.

From Mandatory level view select **Applications + ST500**



ST500 IP Configuration

- [-] ST500
 - [x] ST500 IP Configuration
 - [-] ST500 VoIP Resource IP Addressing
 - [-] ST500 Basic Settings
 - [-] ST500 Extension Settings
 - [-] ST500 Audio CODEC Settings
 - [-] ST500 DTMF RFC2833 Settings
 - [+] ST500 COS

IP Address	192.168.0.10
Subnet Mask	255.255.255.0
Default Gateway	0.0.0.0
VOIP IP Address	172.16.0.10
VOIP Subnet Mask	255.255.0.0

Set the Default Gateway IP address for connecting the SL2100 to remote networks

Set the VoIP IP address used for registrations/signalling (SIP)

Set the VoIP subnet mask used with the VoIP IP address

ST500 VoIP Resource IP Addressing

- [-] ST500
 - [-] ST500 IP Configuration
 - [x] ST500 VoIP Resource IP Addressing
 - [-] ST500 Basic Settings
 - [-] ST500 Extension Settings
 - [-] ST500 Audio CODEC Settings
 - [-] ST500 DTMF RFC2833 Settings
 - [+] ST500 COS

Slot		
000	VOIPDB DSP IP Address	172.16.0.20
000	RTP Port	10020
000	RTCP Port	10021

Set the VoIP resource IP address for media (RTP)

RTP & RTCP port numbers can normally be left at the default values

Slot 000 refers to the CPU card / VOIPDB card

ST500 Basic Settings

- [-] ST500
 - [-] ST500 IP Configuration
 - [-] ST500 VoIP Resource IP Addressing
 - [-] **ST500 Basic Settings**
 - [-] ST500 Extension Settings
 - [-] ST500 Audio CODEC Settings
 - [-] ST500 DTMF RFC2833 Settings
 - [+] ST500 COS

Authentication Mode	<input checked="" type="checkbox"/>
Registrar/Proxy Port	5070
Registration Expiry Time	3600
SIP out of range timer	4
Disconnect Supervision	<input checked="" type="checkbox"/>

Recommend Authentication mode to be enabled for increased security

Set the Registrar/Proxy port for SIP extensions (Default is 5070)

Set Disconnect Supervision to Enabled

ST500 Extension Settings

- [-] ST500
 - [-] ST500 IP Configuration
 - [-] ST500 VoIP Resource IP Addressing
 - [-] ST500 Basic Settings
 - [-] **ST500 Extension Settings**
 - [-] ST500 Audio CODEC Settings
 - [-] ST500 DTMF RFC2833 Settings
 - [+] ST500 COS

Set extension numbers used by UNIVERGE ST500 Mobile Clients

Set a secure Authentication Password if using Authentication

Set to enabled to allow for video calling

Set to enabled if using NAT

Station Port	Extension	Name	Authentication Password	Peer to Peer Mode	Video Mode	Codec Type	IP duplication allow mode	NAT plug & play	Registration Expire Timer for NAT	Subscribe Expire Timer for NAT	Receiving SIP INFO
050	249		*****	<input checked="" type="checkbox"/>	Disable	Type 1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	180	180	Allowed any time
051	250	ST500 Client	*****	<input checked="" type="checkbox"/>	Enable	Type 1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	180	180	Allowed any time
052	251		*****	<input checked="" type="checkbox"/>	Disable	Type 1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	180	180	Allowed any time

Set a suitable extension name

Set Peer to Peer Mode to Enabled

Set Codec Type to Codec Type 1

Note: Peer to Peer Mode is required to be enabled for video calling.

ST500 Audio CODEC Settings

- [-] ST500
 - [-] ST500 IP Configuration
 - [-] ST500 VoIP Resource IP Addressing
 - [-] ST500 Basic Settings
 - [-] ST500 Extension Settings
 - [-] ST500 Audio CODEC Settings
 - [-] ST500 DTMF RFC2833 Settings
 - [+] ST500 COS

Select the preferred CODEC type:
 G.711_PT
 G.729_PT
 G.722

Audio Capability Priority	G.711_PT
G.711 Maximum Audio Frame Size	20ms
G.711 Voice Activity Detection	<input type="checkbox"/>
G.711 Type	A-law
G.711 Minimum Jitter Buffer Size	20
G.711 Average Jitter Buffer Size	40
G.711 Maximum Jitter Buffer Size	80
G.729 Maximum Audio Frame Size	20ms
G.729 Voice Activity Detection	<input type="checkbox"/>
G.729 Minimum Jitter Buffer Size	20
G.729 Average Jitter Buffer Size	40
G.729 Maximum Jitter Buffer Size	80
Jitter Buffer Mode	Self adjusting
VAD threshold	20
G.722 Maximum Audio Frame Size	30ms
G.722 Minimum Jitter Buffer Size	30
G.722 Average Jitter Buffer Size	60
G.722 Maximum Jitter Buffer Size	120
G.726 Maximum Audio Frame Size	30ms
G.726 Voice Activity Detection	<input type="checkbox"/>
G.726 Minimum Jitter Buffer Size	30
G.726 Average Jitter Buffer Size	60
G.726 Maximum Jitter Buffer Size	120
RTP Filter	Enable

NOTE: The Maximum Audio Frame Size supported by the UNIVERGE ST500 Mobile Client is either 20ms or 40ms, so depending on the above Audio Capability Priority selection the correct codecs Maximum Audio Frame Size should also be either 20ms or 40ms (Default is normally 20ms)

ST500 DTMF RFC2833 Settings

Use Profile 1 to assign the operation of DTMF digit sending for UNIVERGE ST500 calls.

- [-] ST500
 - [-] ST500 IP Configuration
 - [-] ST500 VoIP Resource IP Addressing
 - [-] ST500 Basic Settings
 - [-] ST500 Extension Settings
 - [-] ST500 Audio CODEC Settings
 - [-] ST500 DTMF RFC2833 Settings
 - [+] ST500 COS

Set to RFC2833

		Profile 1
SIP Extension	DTMF Relay Mode	RFC2833
SIP Extension	DTMF Payload Number	110

ST500 COS Assignment Per Mode

- [-] ST500
 - [-] ST500 IP Configuration
 - [-] ST500 VoIP Resource IP Addressing
 - [-] ST500 Basic Settings
 - [-] ST500 Extension Settings
 - [-] ST500 Audio CODEC Settings
 - [-] ST500 DTMF RFC2833 Settings
 - [-] ST500 COS
 - ST500 COS Assignment Per Mode
 - [-] ST500 COS Options

Assign ST500 clients to a CoS mode 1 ~ 15 (Default is 1)

Station Port	Extension	Name	Mode 1 CoS	Mode 2 CoS	Mode 3 CoS	Mode 4 CoS	Mode 5 CoS	Mode 6 CoS	Mode 7 CoS	Mode 8 CoS
050	249		1	1	1	1	1	1	1	1
051	250	ST500 Client	2	2	2	2	2	2	2	2
052	251		1	1	1	1	1	1	1	1

ST500 COS Options

- [-] ST500
 - [-] ST500 IP Configuration
 - [-] ST500 VoIP Resource IP Addressing
 - [-] ST500 Basic Settings
 - [-] ST500 Extension Settings
 - [-] ST500 Audio CODEC Settings
 - [-] ST500 DTMF RFC2833 Settings
 - [-] ST500 COS
 - [-] ST500 COS Assignment Per Mode
 - ST500 COS Options

Set Disconnect Supervision to Enabled

Set Call waiting for standard SIP terminal to Enabled (Optional)

	01	02	03	04	05	06
Disconnect Supervision	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Call waiting for standard SIP terminal	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Call Forward Both Ring Enhancement	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

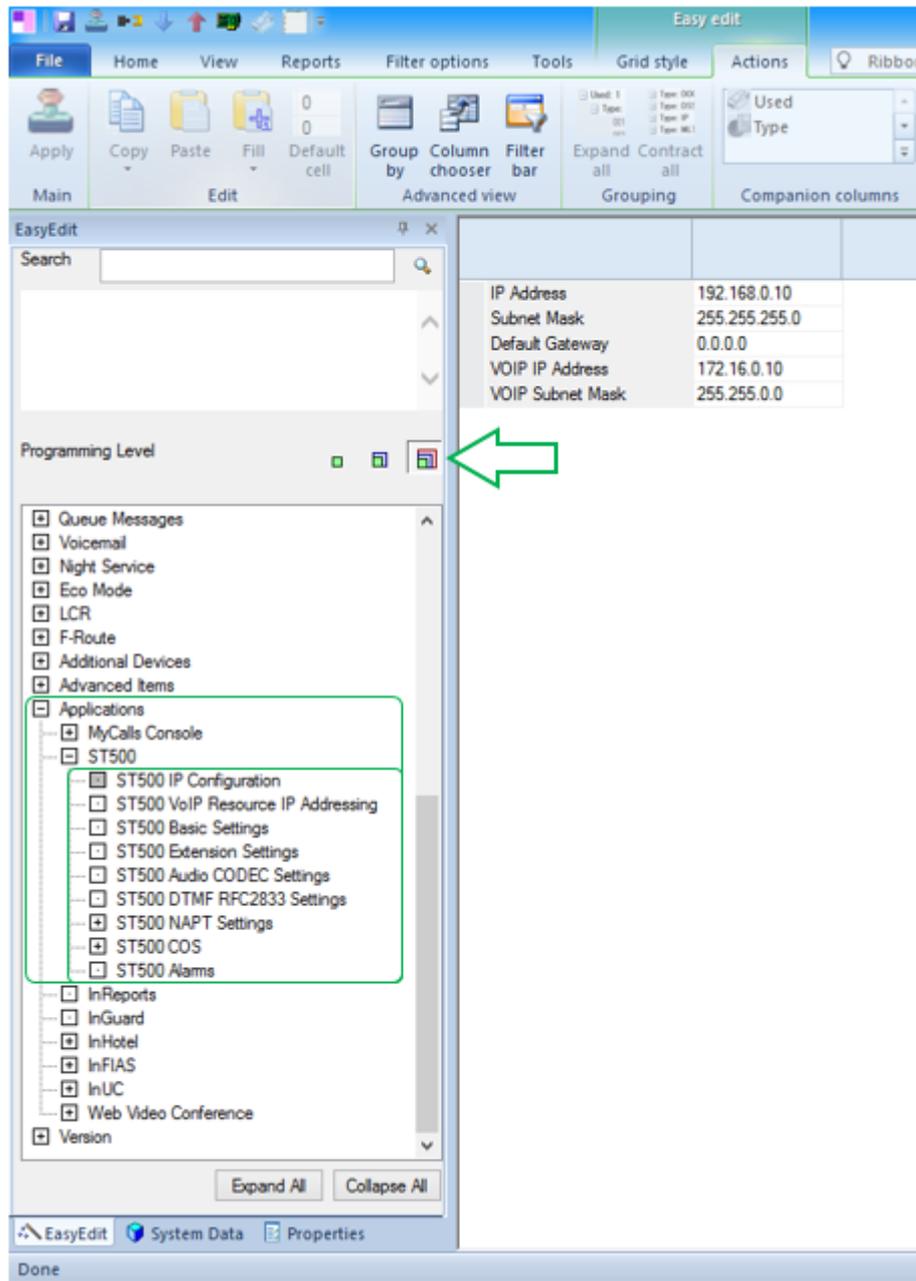
Set Call Forward Both Ring Enhancement to Enabled (Optional)

4- SL2100 Advanced Configuration Items for ST500 Mobile Clients

After the basic steps in section 3- SL2100 Configuration for ST500 Mobile Clients have been completed, these additional steps can be configured for:

- Using UNIVERGE ST500 Mobile Clients remotely from Wi-Fi hotspots/Cellular Networks using NAPT connections to the communications server.
- Alarm Reporting

From Advanced level view select **Applications + ST500**



ST500 NAPT Setup

- [-] ST500
 - [-] ST500 IP Configuration
 - [-] ST500 VoIP Resource IP Addressing
 - [-] ST500 Basic Settings
 - [-] ST500 Extension Settings
 - [-] ST500 Audio CODEC Settings
 - [-] ST500 DTMF RFC2833 Settings
 - [-] ST500 NAPT Settings
 - [x] ST500 NAPT Setup
 - [-] ST500 NAPT Exempt Networks
 - [+] ST500 COS
 - [-] ST500 Alarms

NAT mode	<input checked="" type="checkbox"/>
NAPT Router IP Address	81.142.166.232

Set NAT mode to Enabled

Configure NAPT Router IP Address, which will be a Public IP address of the router interface on WAN side of SL2100 network

Note1: If NAT is enabled, then SIP signalling port (Default 5070) assigned in *Easy Edit > Applications > ST500 > ST500 Basic Settings > Registrar/Proxy Port* ("PRG 84-20-01") MUST be forwarded from the router to VOIP IP Address assigned in *Easy Edit > Applications > ST500 > ST500 IP Configuration* ("PRG 10-12-09").

Note2: If NAT is enabled, then RTP/RTCP port(s) assigned in *Easy Edit > Applications > ST500 > ST500 VoIP Resource IP Addressing* must be forwarded from the router to the VOIPDB DSP IP Address assigned in *Easy Edit > Applications > ST500 > ST500 VoIP Resource IP Addressing* ("PRG 84-26-01").

Note3: Video calling is not supported for remotely connected UNIVERGE ST500 Mobile Clients using NAT mode.

ST500 NAPT Exempt Networks

For locally connected IP terminals not connecting to the communication server using NAPT Mode, enter the network address ranges of those devices in this table. This includes any network devices connecting over VPN connections.

- [-] ST500
 - [-] ST500 IP Configuration
 - [-] ST500 VoIP Resource IP Addressing
 - [-] ST500 Basic Settings
 - [-] ST500 Extension Settings
 - [-] ST500 Audio CODEC Settings
 - [-] ST500 DTMF RFC2833 Settings
 - [-] ST500 NAPT Settings
 - [-] ST500 NAPT Setup
 - [x] ST500 NAPT Exempt Networks
 - [+] ST500 COS
 - [-] ST500 Alarms

Area Table	IP Address	Subnet Mask
1	172.16.0.0	255.255.0.0
2	0.0.0.0	0.0.0.0
3	0.0.0.0	0.0.0.0
4	0.0.0.0	0.0.0.0
5	0.0.0.0	0.0.0.0
6	0.0.0.0	0.0.0.0
7	0.0.0.0	0.0.0.0
8	0.0.0.0	0.0.0.0

Enter network IP Address (es)

Configure network Subnet Mask(s)

Network Area Tables 1 ~ 8 allows up to 8 network areas to be configured

ST500 Extension Settings

- [-] ST500
 - [-] ST500 IP Configuration
 - [-] ST500 VoIP Resource IP Addressing
 - [-] ST500 Basic Settings
 - [-] ST500 Extension Settings
 - [-] ST500 Audio CODEC Settings
 - [-] ST500 DTMF RFC2833 Settings
 - [+] ST500 COS

Set IP duplication allow mode to enabled if using UNIVERGE ST500 remotely over NAPT

Station Port	Extension	Name	Authentication Password	Peer to Peer Mode	Video Mode	Codec Type	IP duplication allow mode	NAT plug & play	Registration Expire Timer for NAT	Subscribe Expire Timer for NAT	Receiving SIP INFO
050	249		*****	<input checked="" type="checkbox"/>	Disable	Type 1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	180	180	Allowed any time
051	250	ST500 Client	*****	<input checked="" type="checkbox"/>	Enable	Type 1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	180	180	Allowed any time
052	251		*****	<input checked="" type="checkbox"/>	Disable	Type 1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	180	180	Allowed any time

Set NAT Plug and Play to enabled if using UNIVERGE ST500 remotely over NAPT

ST500 Alarms

Alarms can be configured to give information on errors with UNIVERGE ST500 Mobile Clients, and the SL2100. Please refer to the below table for further details on the alarms and their information reported.

- [-] ST500
 - [-] ST500 IP Configuration
 - [-] ST500 VoIP Resource IP Addressing
 - [-] ST500 Basic Settings
 - [-] ST500 Extension Settings
 - [-] ST500 Audio CODEC Settings
 - [-] ST500 DTMF RFC2833 Settings
 - [-] ST500 NAPT Settings
 - [-] ST500 NAPT Setup
 - [-] ST500 NAPT Exempt Networks
 - [+] ST500 COS
 - [-] ST500 Alarms

Set the alarm type to either Minor or Major

Enable items to be displayed on the Alarm Report

	061	064	065	066	068	072	073
Alarm Type	Major	Major	Minor	Minor	Minor	Major	Minor
Report	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				

Alarm No.	Alarm Type	Report	Name	Content of Alarm	Possible Cause(s)
61	Not Enabled	Disabled	SIP extension trouble information.	Failed in the registration of a SIP extension terminal. The SIP extension terminal was not able to acquire a DSP. • At Registration to SL2100 of the SIP extension terminal. • When you cannot acquire the DSP resource when it sends it.	The registered port is used by other extension. The number of licenses is insufficient. DSP of CPU/VoIPDB was not able to be acquired.
64	Major	Disabled	VoIPDB LAN Link Error.	The link of LAN of VoIPDB disconnected.	LAN cable is defective. Connected network device not working. Defect in CPU/VoIPDB.
65	Not Enabled	Disabled	VoIPDB trouble information.	When DSP of VoIPDB notifies Error.	Defect of VoIPDB.
66	Minor	Disabled	SIP extension License Error.	More than the number of licenses to which the SIP extension terminal was turned on at REGISTER.	Lack of number of licenses.
68	Minor	Disabled	VoIP DSP All Busy Alarm	Provides alert when all DSP resources are being used. 2. Used to troubleshoot or alerting when upgrade is needed.	Not enough DSP resources in system.

ST500 Push Notification Service

The Push Notification Service can be enabled for reliably notifying the ST500 user of incoming calls and MWI at the client.

The screenshot shows the configuration menu for the ST500 client, with 'iOS Push Notification Service' selected. The configuration fields are as follows:

- Domain Name:** nld01.nec-pushproxy.com
- Access Key:** A27ii123s>Ys...bx4u5Dt7...70M<2@JMsCD8QErFX:N96GyDBLsK6NsJZ:P2V63
- Server Certificate:** (Empty field)
- HTTPS proxy server address:** 0.0.0.0
- HTTPS proxy server port:** 8080
- DNS Primary Address:** 0.0.0.0
- DNS Secondary Address:** 0.0.0.0

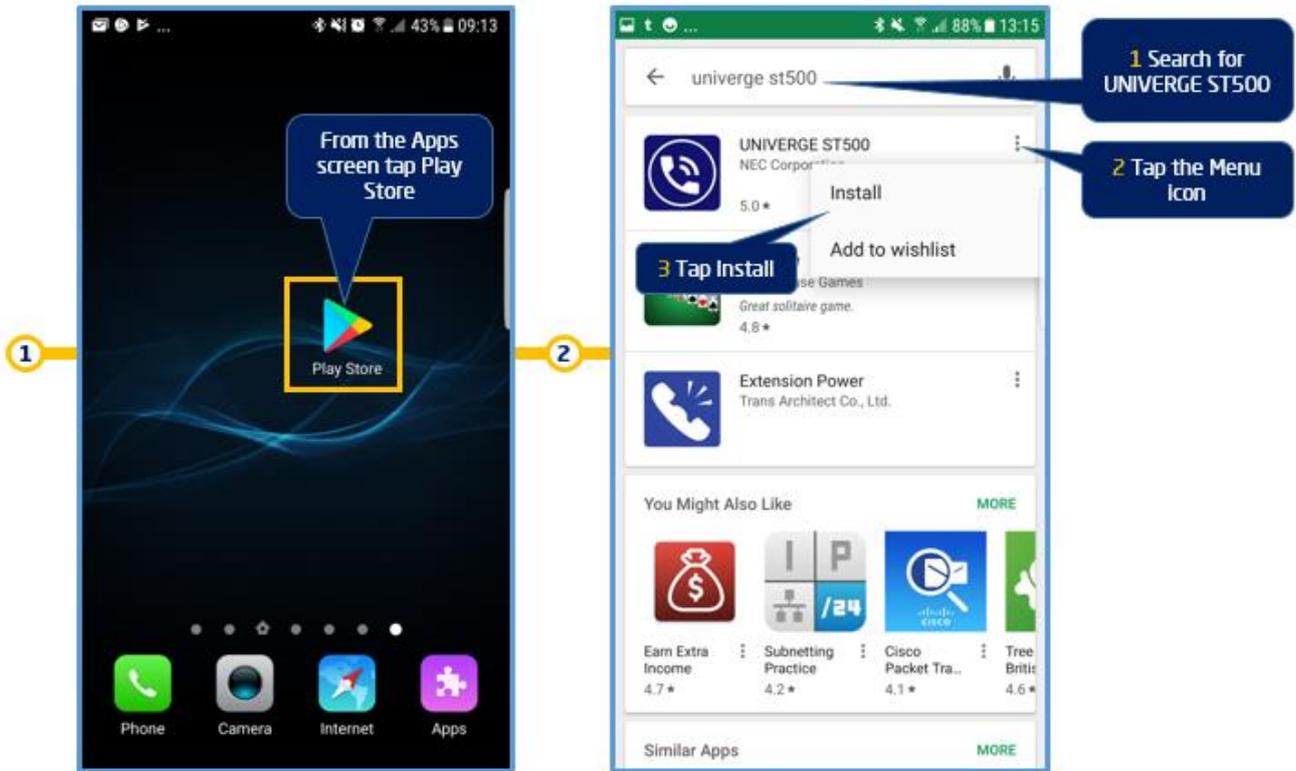
Callouts provide the following instructions:

- Server Certificate:** Enter the name of the Amazon Root certificate AmazonRootCA1.pem once loaded to the SL2100 using WebPro
- HTTPS proxy server address:** If the SL2100 and ST500 clients are used behind a Web Proxy server enter the IP address of the Web Proxy server in this field.
- HTTPS proxy server port:** If a Web Proxy server is entered above then of also enter the Web Proxy server access port in this field.
- DNS Primary Address:** If not using a Web Proxy Service then enter a valid DNS server address for the SL2100 to resolve the Domain Name to the Push Proxy server.

5- ST500 Installation and Configuration on Android Devices

Installation from Google Play

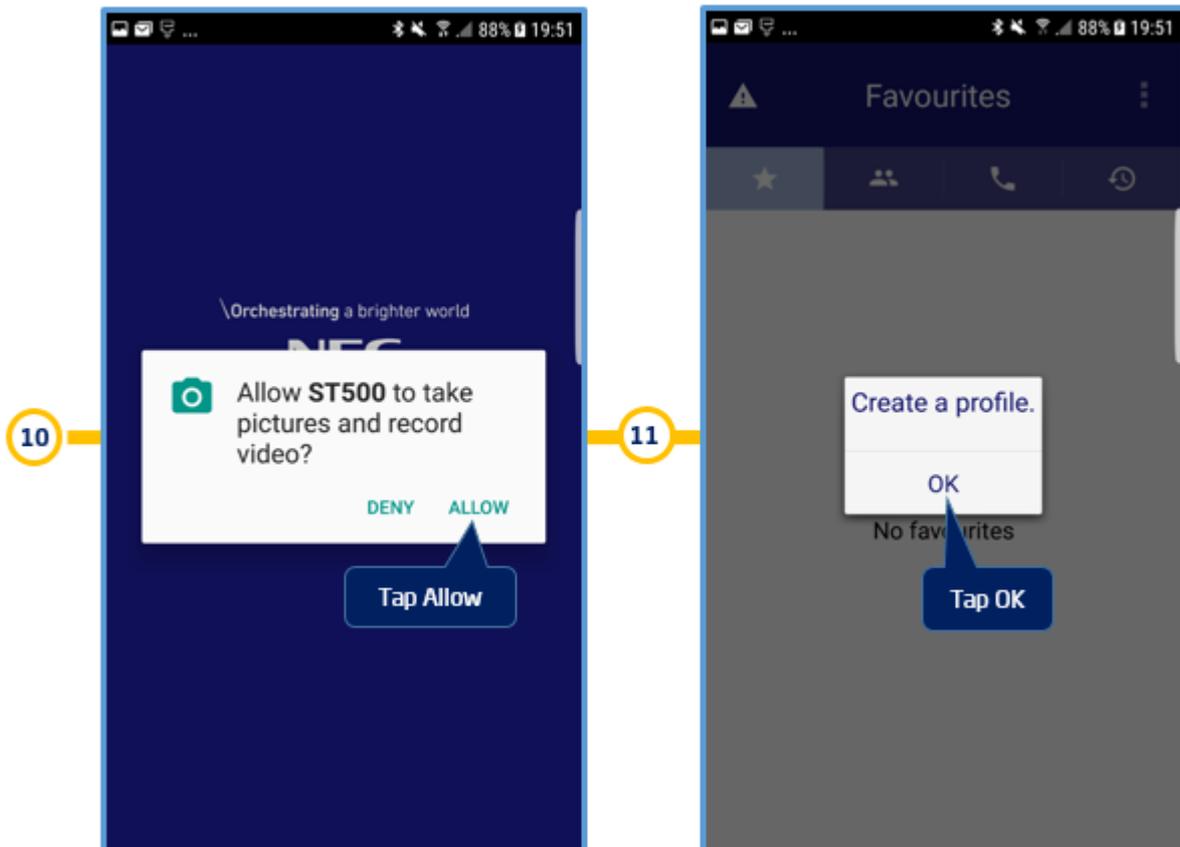
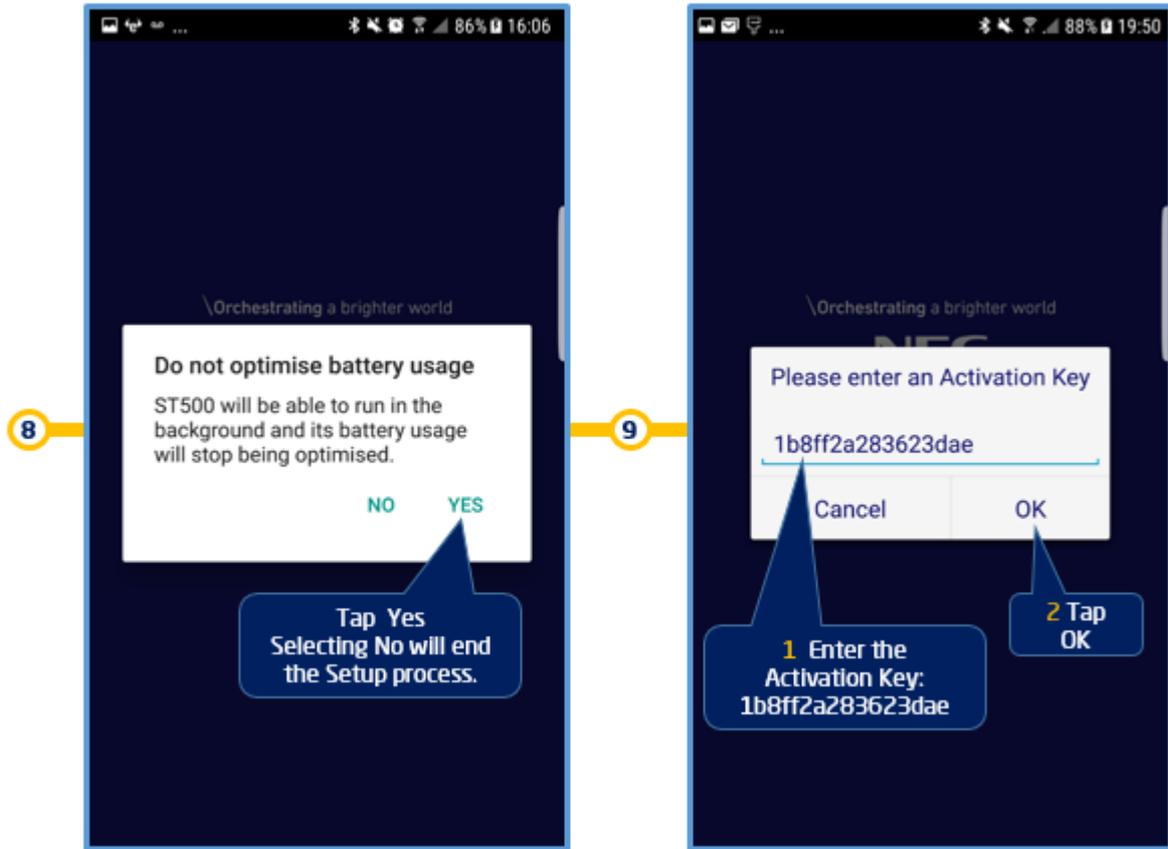
Follow the steps **1** below to get the UNIVERGE ST500 Mobile Client installed on your Android device.

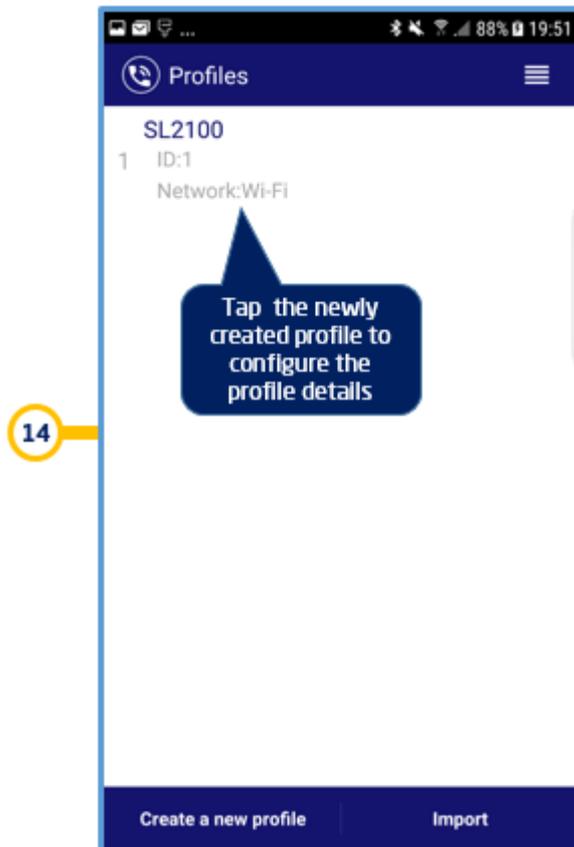
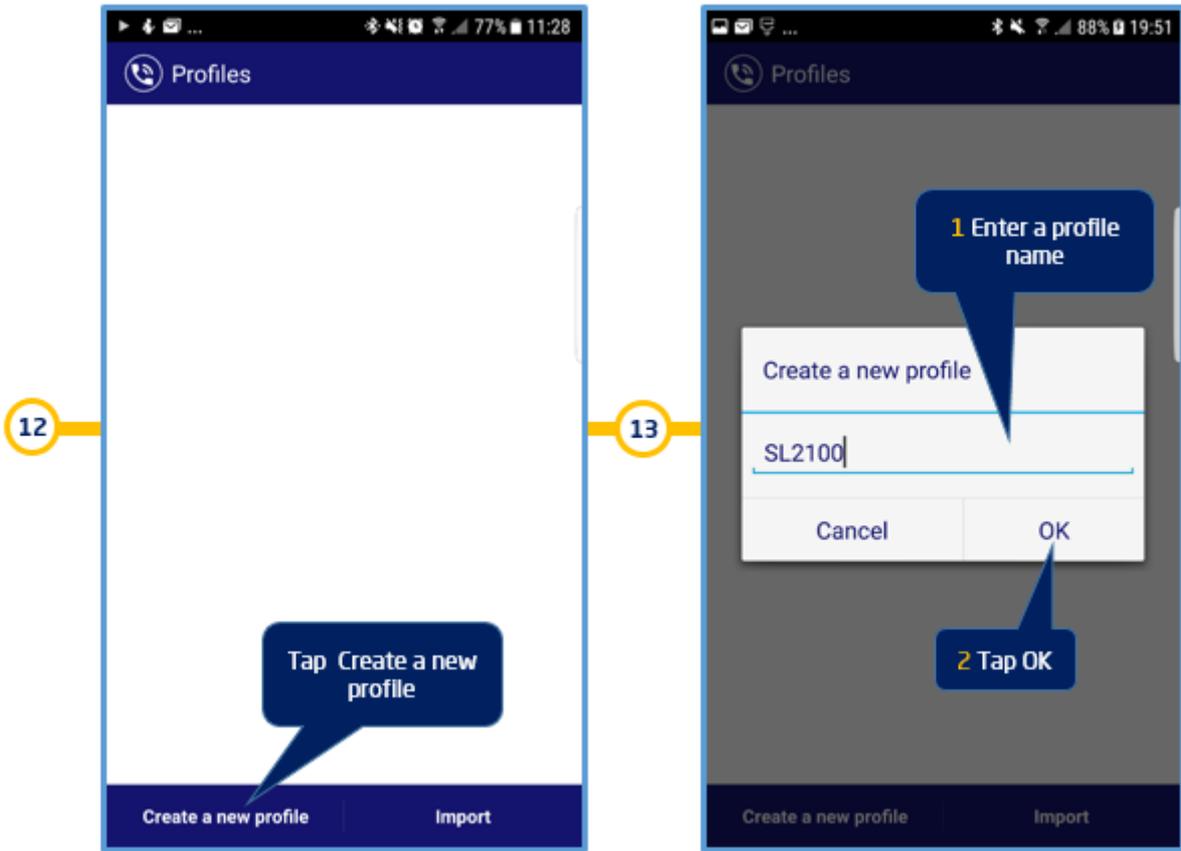


Starting the ST500 Mobile Client for the first time

Follow the steps **1** below to start using the UNIVERGE ST500 Mobile Client on your Android device.

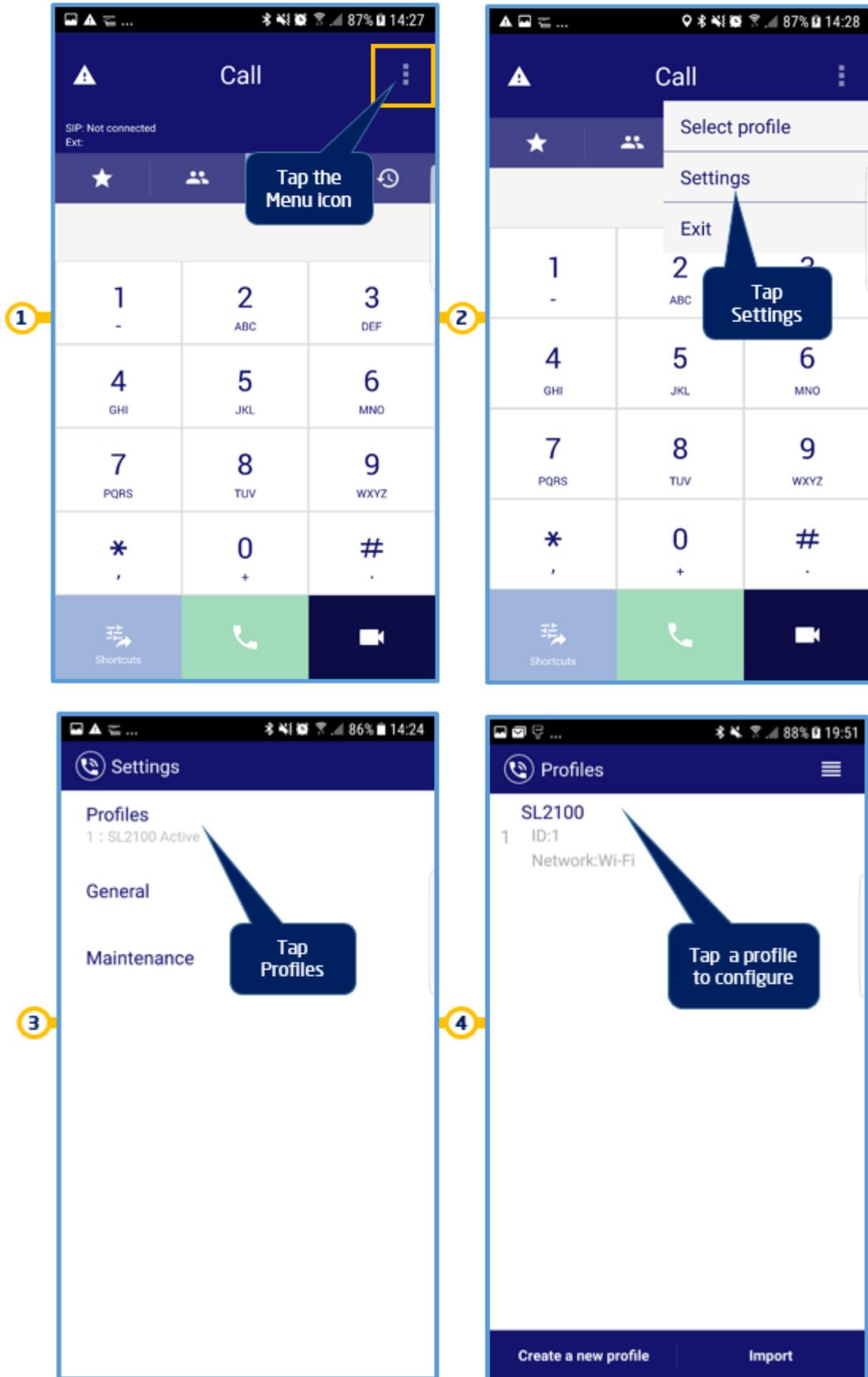






Configure the ST500 Mobile Client

Follow the steps **1** below to configure the UNIVERGE ST500 Mobile Client on your Android device to connect to the SL2100 telephone system.



Profile Settings



Telephone System Settings

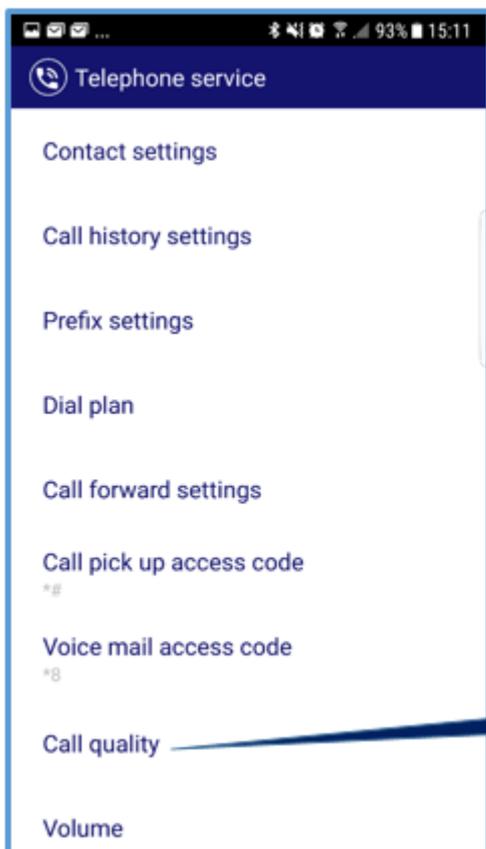
The screenshot shows the 'Telephone system' settings menu. The settings and their corresponding callout instructions are as follows:

Setting	Value	Instruction
SIP server type	Aspire UX/SV9100/SL2100	1 Set the SIP server type to Aspire UX/SV9100/SL2100
IP address type	IPv4	2 Set the IP address type to IPv4
SIP server address	sl2100.nec.com	3 Enter the SIP server address as either the IP address or FQDN of the SL2100
Register server address	sl2100.nec.com	4 Enter the Register server address as either the IP address or FQDN of the SL2100
Domain name	sl2100.nec.com	5 Enter the Domain name as either the IP address or FQDN of the SL2100 (Optional)
SIP server port	5070	6 Set the SIP server port of the SL2100 for SIP extensions
SIP protocol	UDP	7 Set the SIP protocol to either UDP or TCP. SL2100 does not support TLS connections
Secure RTP	Disabled	8 Set to Disabled as normally used with TLS connection
Tone location	GB (United Kingdom)	9 Set the Tone location to the country or region whose tones should be used
Connection	Any	10 Set the Connection to be used by ST500. Options available are Wi-Fi, Mobile, Any
SSID	Only works with connection type set to Wi-Fi.	11 Enter a WLAN SSID so that when Connection is set to Wi-Fi the ST500 will use this profile when connected on that WLAN SSID (Optional)

Note1: A Connection type set to Any is recommended if the UNIVERGE ST500 is to be used over Wi-Fi networks as well as remotely over 3G/4G mobile data.

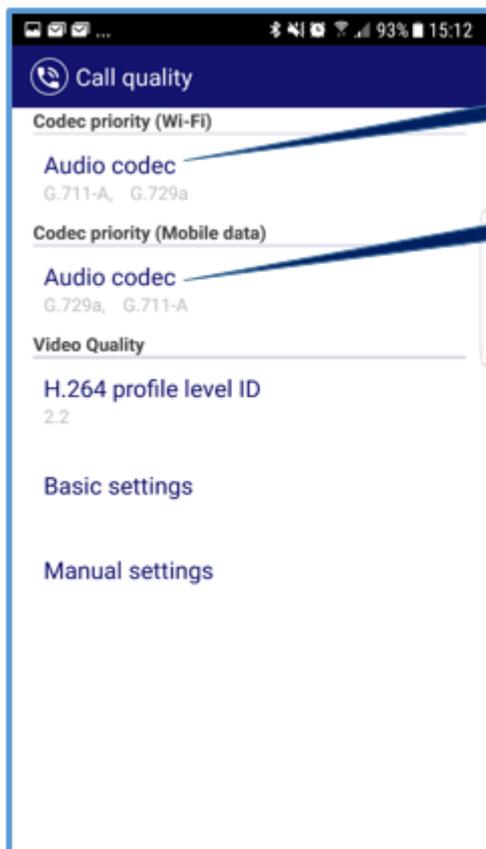
Note2: Enter a Wireless LAN SSID and set the connection type to Wi-Fi and when the device connects to that SSID the configured profile will automatically be used.

Telephone Service Settings



1 Tap Call Quality to configure preferred CODEC choices

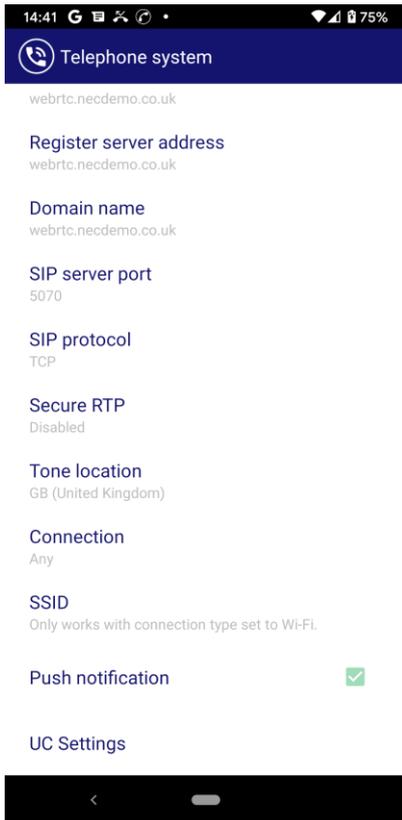
Call Quality Settings



1 Select preferred Audio codecs for use on Wi-Fi connections

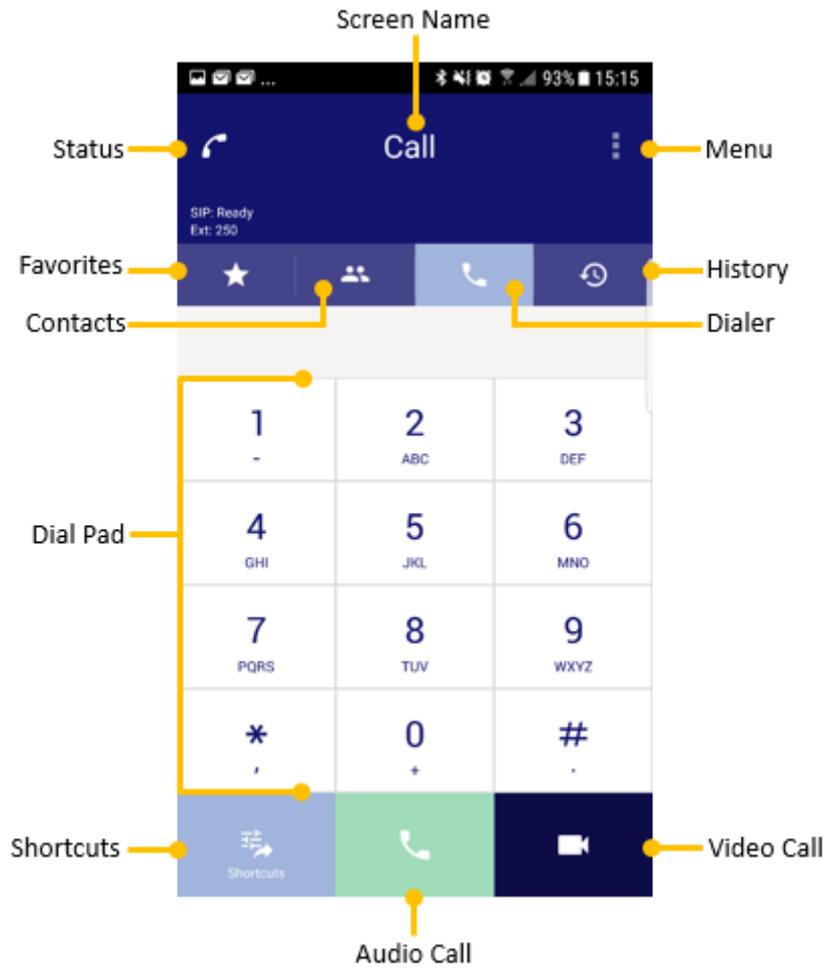
2 Select preferred Audio codecs for use on Mobile data connections

Android PUSH Notification can be enable as below:



12 If the SV9100 is configured to use it. Enable the iOS Push Notification Service for the ST500 client here.

Exit the Profile configuration settings and the UNIVERGE ST500 Mobile Client will attempt to register to the SL2100. If the client fails to connect re-check your configuration settings and try again.



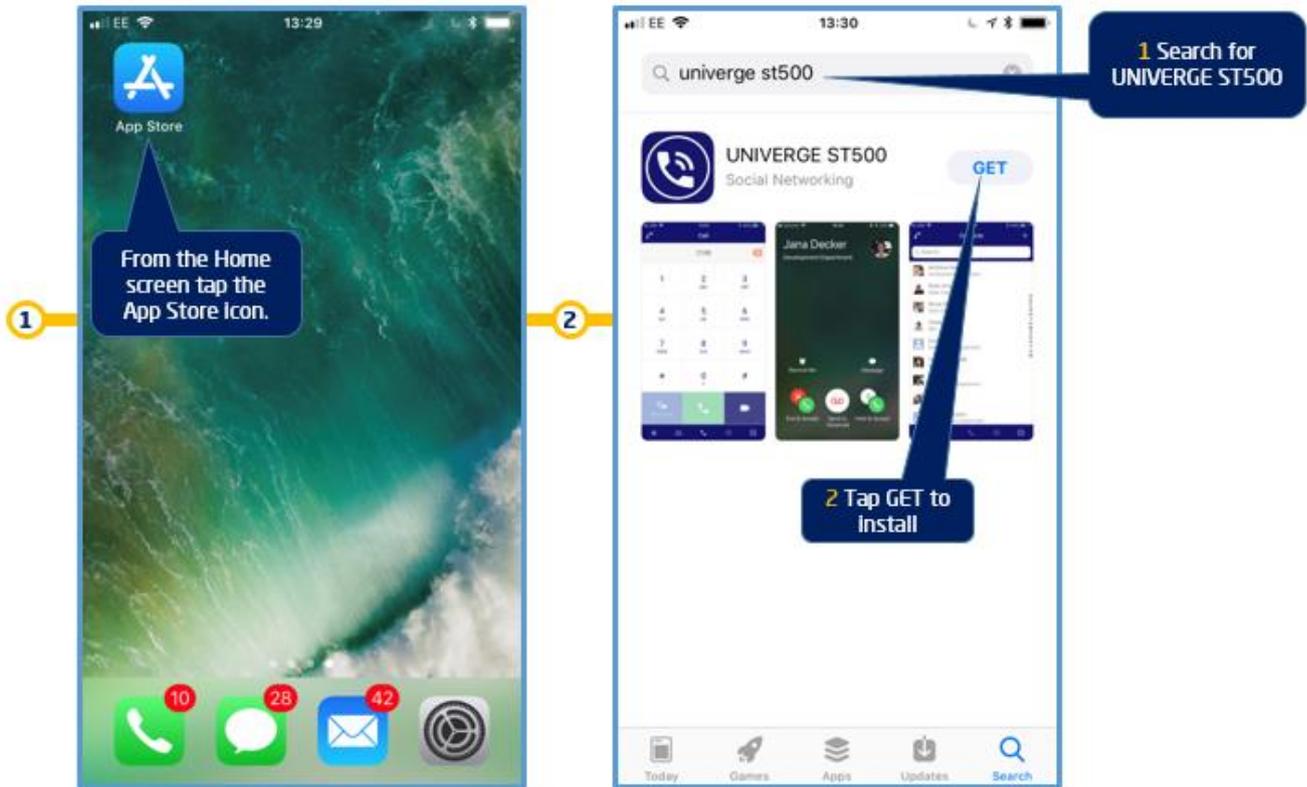
You should now be ready to use your UNIVERGE ST500 mobile client.

Please refer to the UNIVERGE ST500 for Android – Operation Manual or UNIVERGE ST500 for Android – Quick Reference Guide for further information on how to operate your client.

6- ST500 Installation and Configuration on iOS Devices

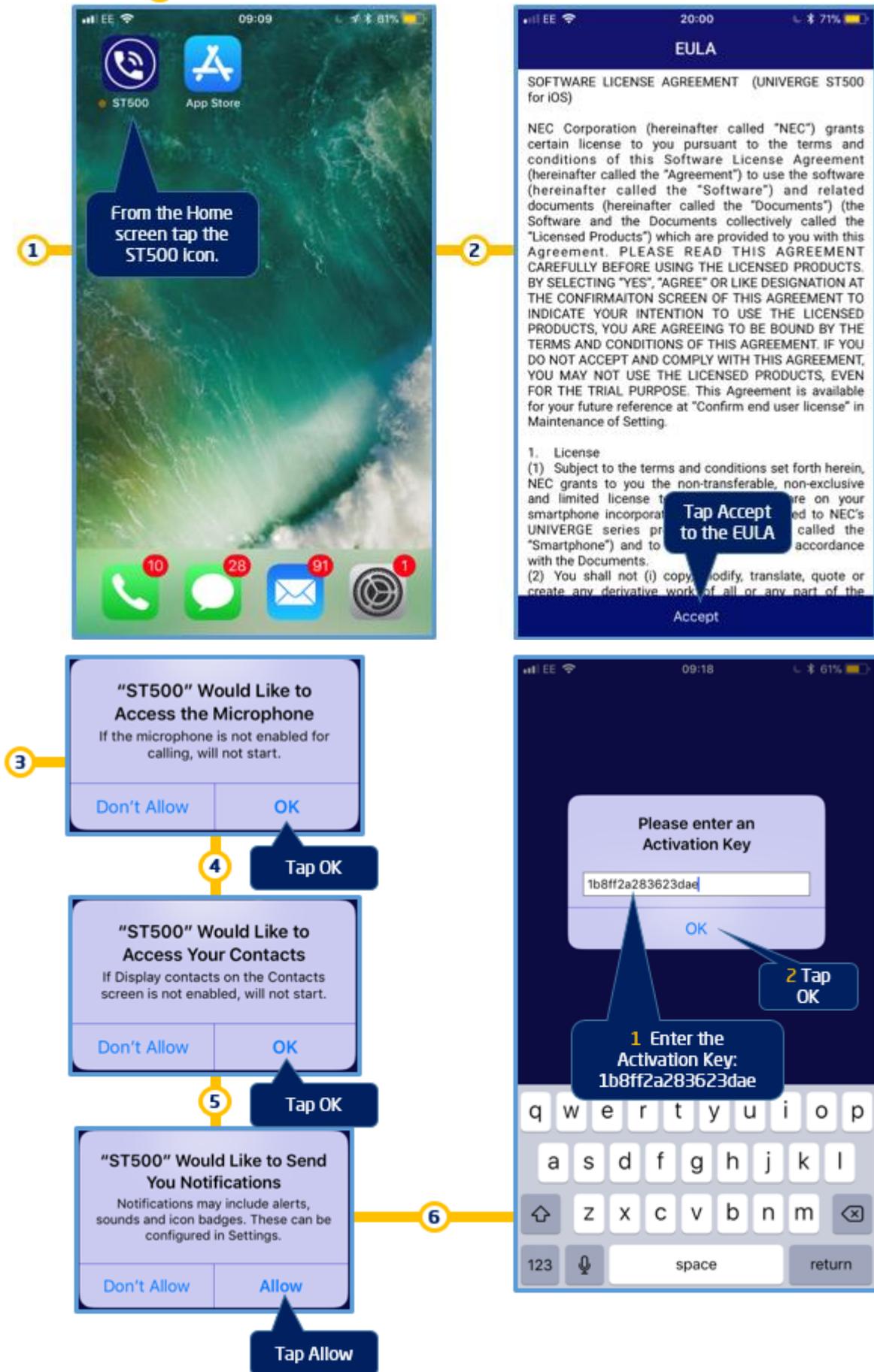
Installation from iOS App Store

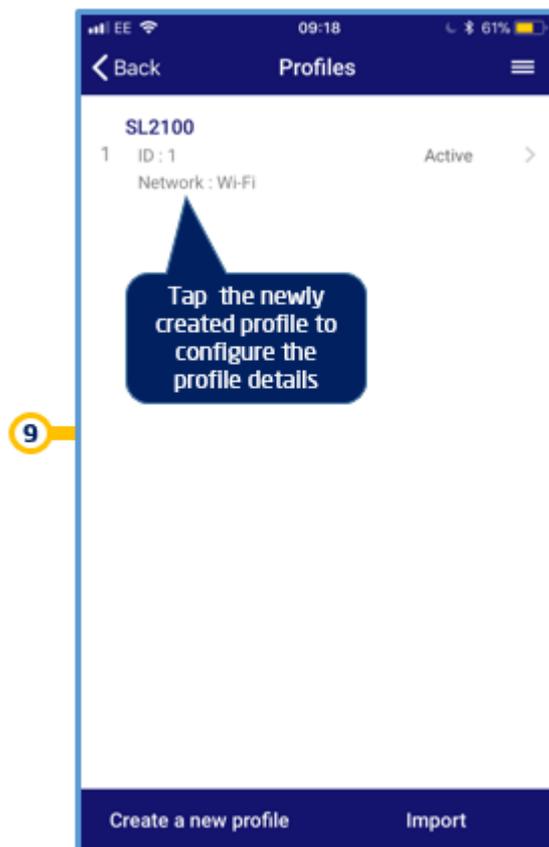
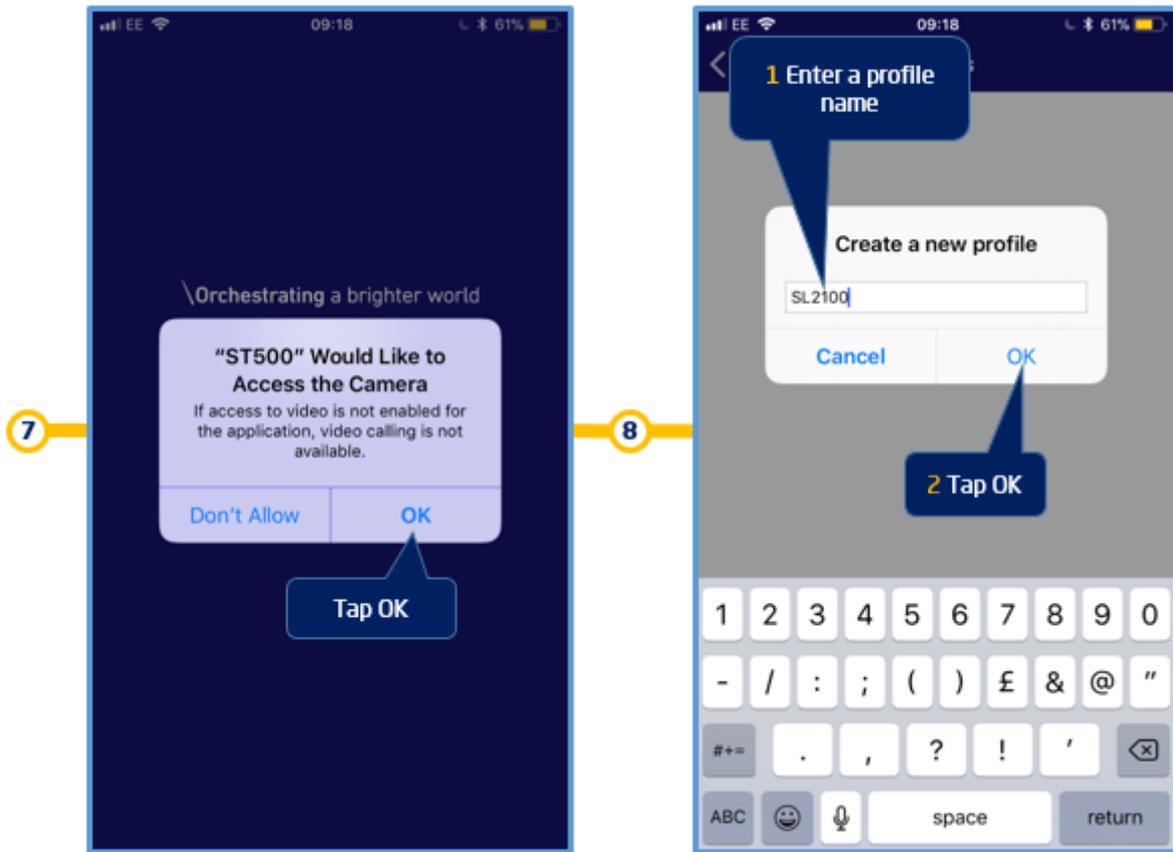
Follow the steps **1** below to get the UNIVERGE ST500 Mobile Client installed on your iOS device.



Starting the ST500 Mobile Client for the first time

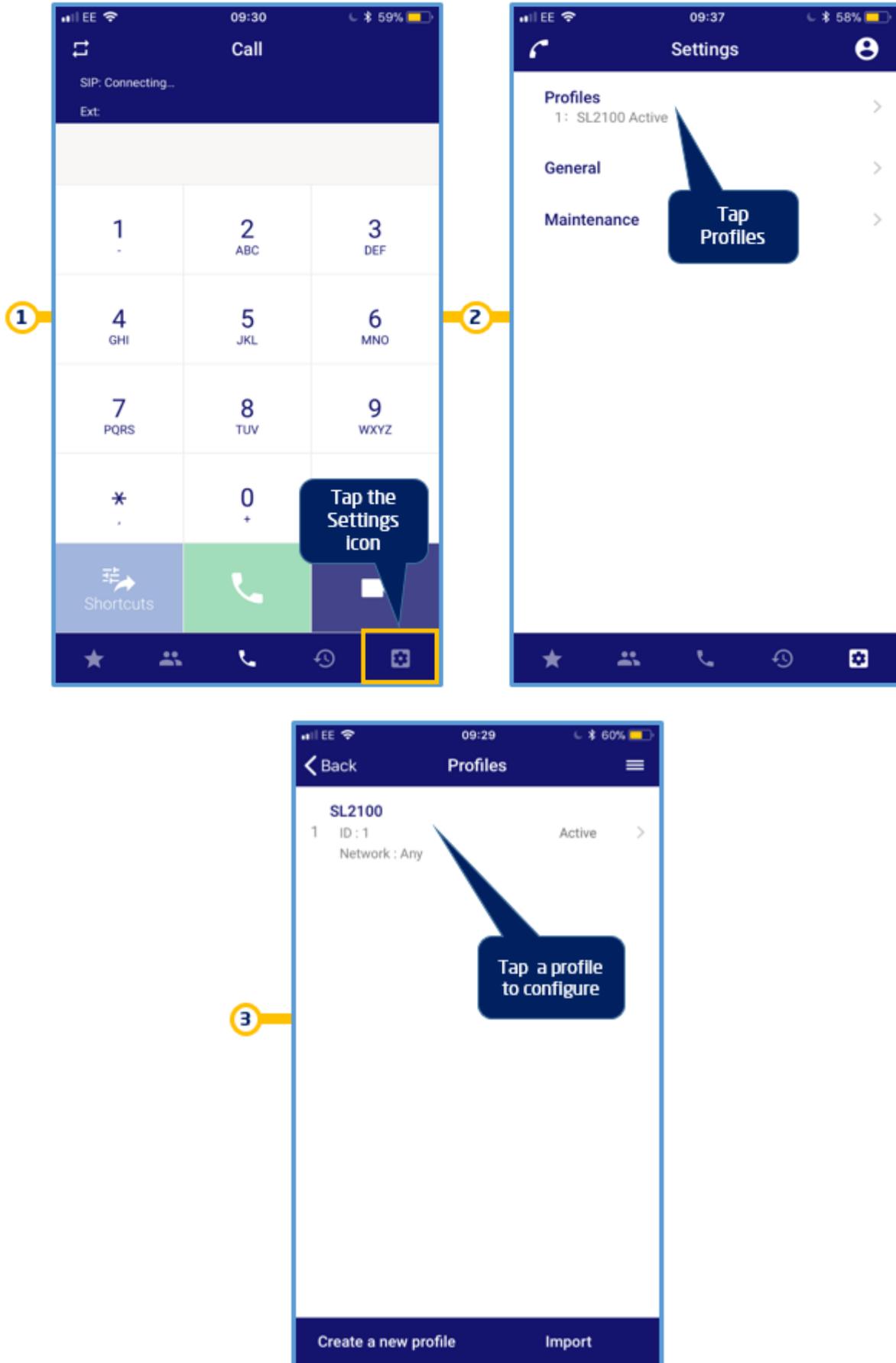
Follow the steps **1** below to start using the UNIVERGE ST500 Mobile Client on your iOS device.





Configure the ST500 Mobile Client

Follow the steps **1** below to configure the UNIVERGE ST500 Mobile Client on your Android device to connect to the SL2100 telephone system.



Profile Settings



Telephone System Settings

The screenshot shows the 'Telephone system' settings page. The settings are as follows:

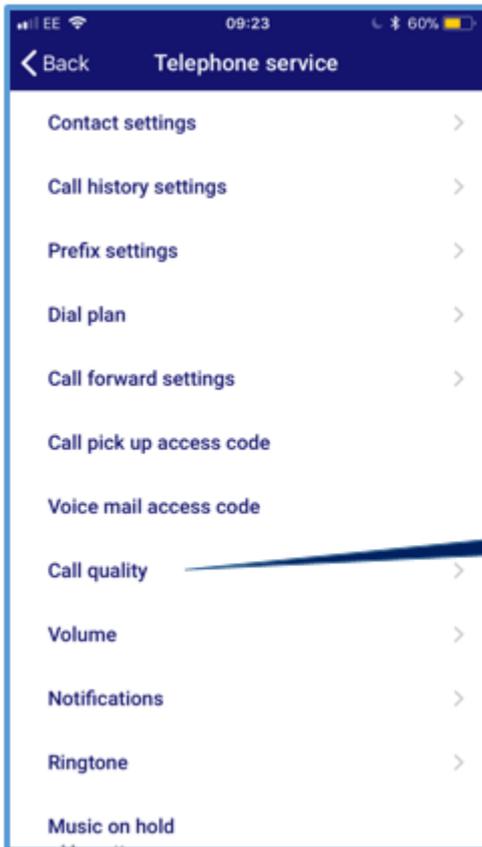
- SIP server type:** Aspire UX/SV9100/SL2100
- IP address type:** IPv4
- SIP server address:** sv9100.nec.co.uk
- Register server address:** sv9100.nec.co.uk
- Domain name:** sv9100.nec.co.uk
- SIP server port:** 5070
- SIP protocol:** UDP
- Secure RTP:** Disabled
- Tone location:** GB (United Kingdom)
- Connection:** Any
- SSID:** Only works with connection type set to Wi-Fi.
- Push notification:** Enabled (toggle is on)

Numbered callout boxes provide the following instructions:

- 1 Set the SIP server type to Aspire UX/SV9100/SL2100
- 2 Set the IP address type to IPv4
- 3 Enter the SIP server address as either the IP address or FQDN of the SV9100
- 4 Enter the Register server address as either the IP address or FQDN of the SV9100
- 5 Enter the Domain name as either the IP address or FQDN of the SV9100 (Optional)
- 6 Set the SIP server port of the SV9100 for SIP extensions
- 7 Set the SIP protocol to either UDP or TCP. TLS is not currently fully supported
- 8 Set to Disabled as normally used with TLS connection
- 9 Set the Tone location to the country or region whose tones should be used
- 10 Set the Connection type to be used by ST500. Options available are Wi-Fi, Mobile, Any
- 11 Enter a WLAN SSID so that when Connection is set to Wi-Fi the ST500 will use this profile when connected on that WLAN SSID
- 12 If the SL2100 is configured to use it. Enable the iOS Push Notification Service for the ST500 client here

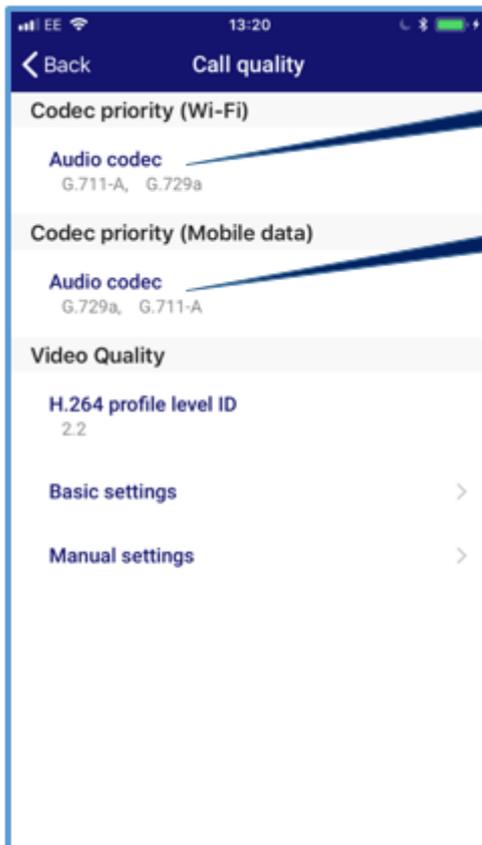
NOTE1: Push notification is a newer notification feature from Apple and available to iOS 11 or higher supported devices. This is also supported by the SL2100 when using R1.7 or higher main software.

Telephone Service Settings



1 Tap Call Quality to configure preferred CODEC choices

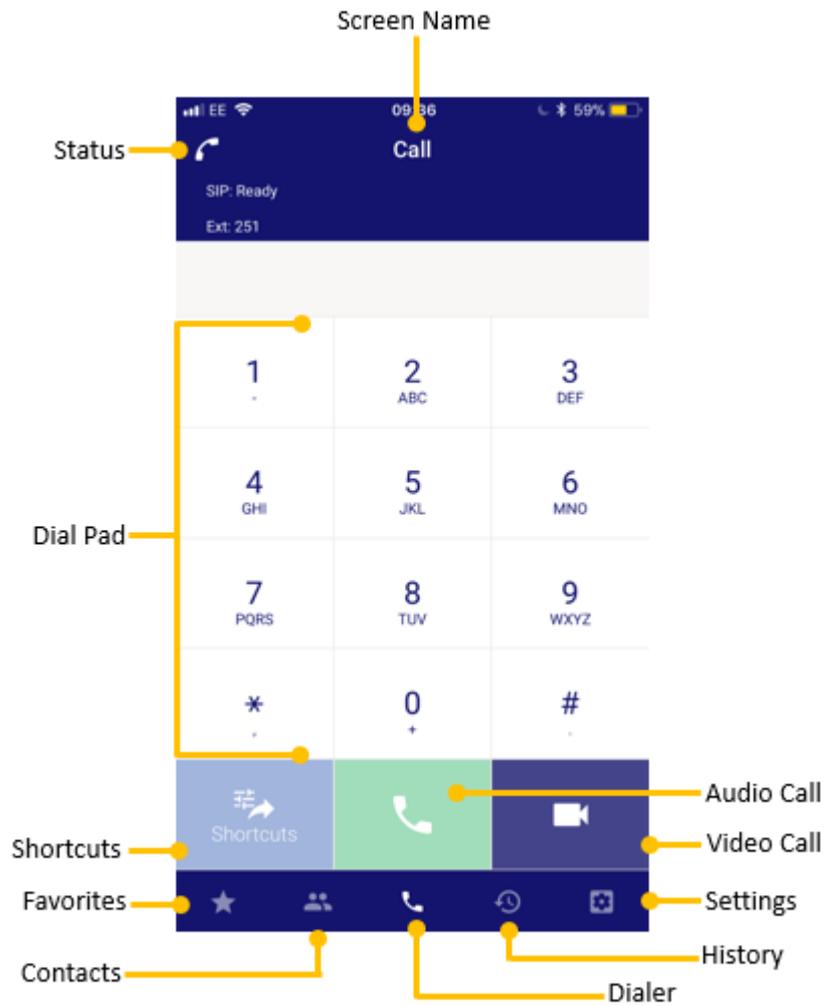
Call Quality Settings



1 Select preferred Audio codecs for use on Wi-Fi connections

2 Select preferred Audio codecs for use on Mobile data connections

Exit the Profile configuration settings and the UNIVERGE ST500 Mobile Client will attempt to register to the SL2100. If the client fails to connect re-check your configuration settings and try again.



You should now be ready to use your UNIVERGE ST500 mobile client.

Please refer to the UNIVERGE ST500 for iOS – Operation Manual or UNIVERGE ST500 for iOS – Quick Reference Guide for further information on how to operate your client.