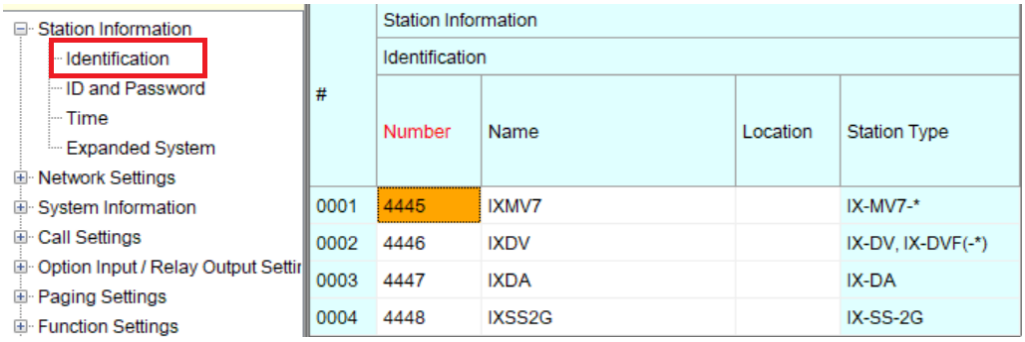
Chapter

7

Appendix B: PARTNER side CONFIGURATION

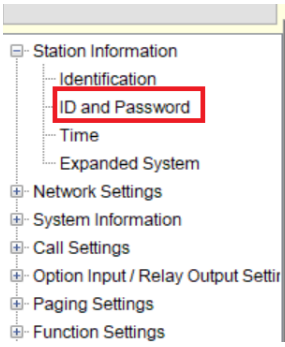
7.1 Screenshots from AIPHONE IX-Support-Tool

- **Identification Menu :**



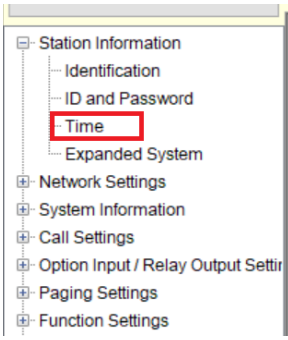
#	Station Information			
	Identification			
	Number	Name	Location	Station Type
0001	4445	IXMV7		IX-MV7-*
0002	4446	IXDV		IX-DV, IX-DVF(-*)
0003	4447	IXDA		IX-DA
0004	4448	IXSS2G		IX-SS-2G

- **ID and Password Menu :**



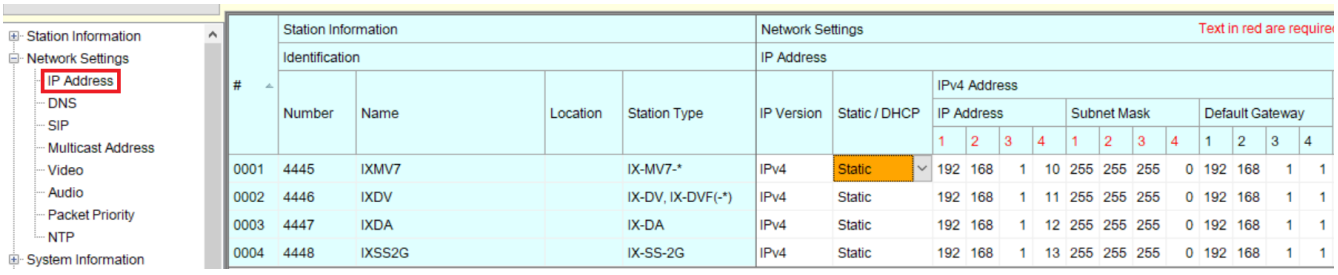
#	Station Information				Station Information	
	Identification				ID and Password	
	Number	Name	Location	Station Type	Administrator ID	Administrator Password
0001	4445	IXMV7		IX-MV7-*	aiphone	*******
0002	4446	IXDV		IX-DV, IX-DVF(-*)	aiphone	*******
0003	4447	IXDA		IX-DA	aiphone	*******
0004	4448	IXSS2G		IX-SS-2G	aiphone	*******

- **Time Menu :**

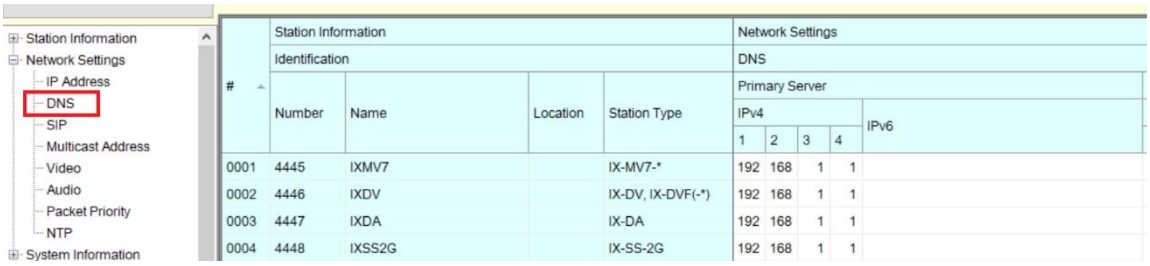


#	Station Information				Station Information
	Identification				Time
	Number	Name	Location	Station Type	Time Zone
					Select time zone
0001	4445	IXMV7		IX-MV7-*	(GMT-08:00) Pacific Standard Time (US), Tijuana
0002	4446	IXDV		IX-DV, IX-DVF(-*)	(GMT-08:00) Pacific Standard Time (US), Tijuana
0003	4447	IXDA		IX-DA	(GMT-08:00) Pacific Standard Time (US), Tijuana
0004	4448	IXSS2G		IX-SS-2G	(GMT-08:00) Pacific Standard Time (US), Tijuana

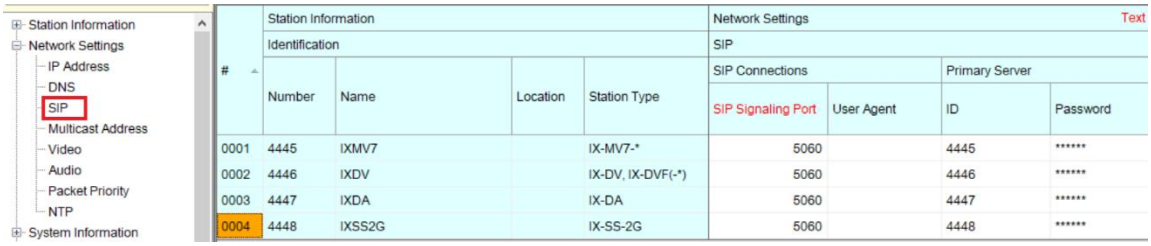
- **IP Address Menu :**



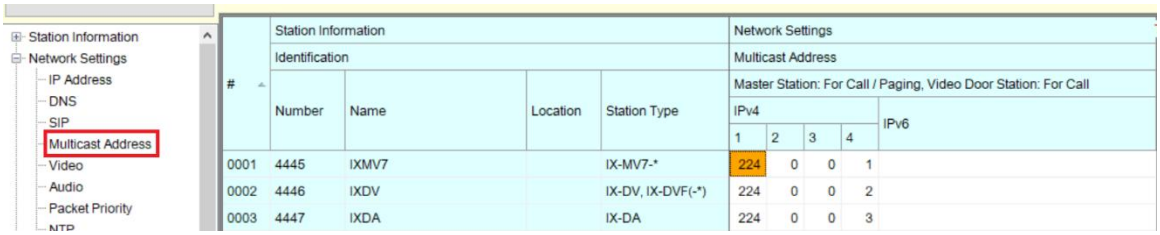
- **DNS Menu :**



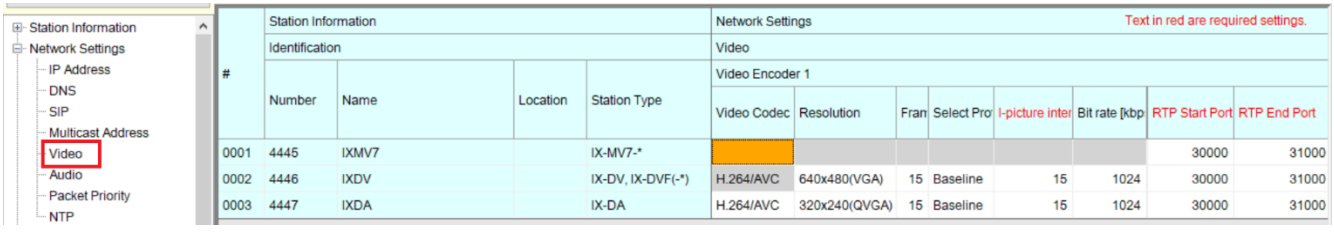
- **SIP Menu :**



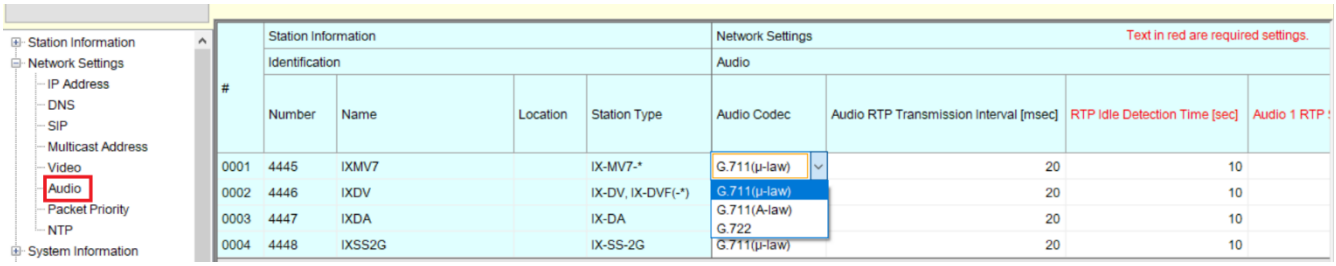
- **Multicast Address Menu :**



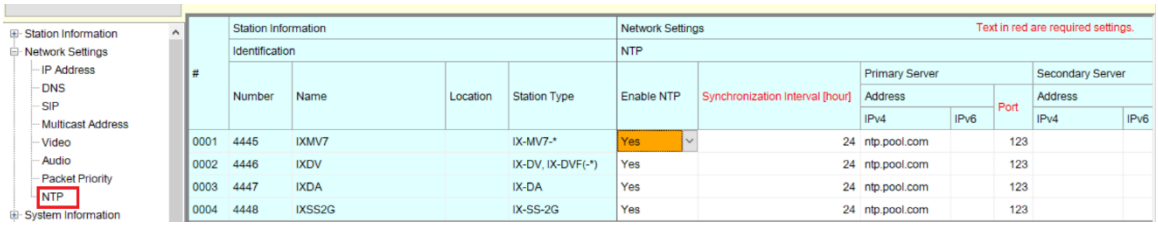
- **Video Menu :**



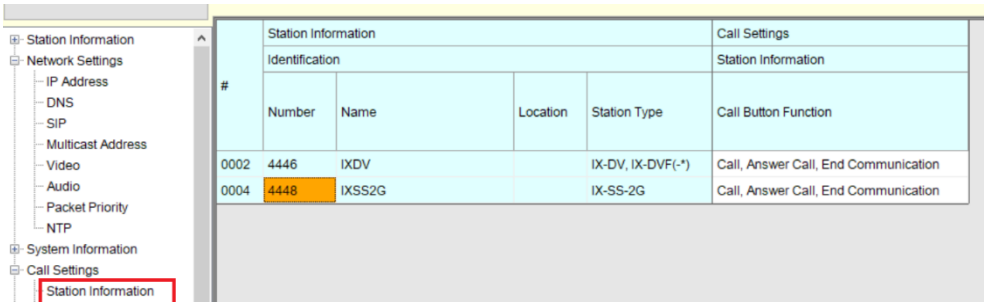
- **Audio Menu :**



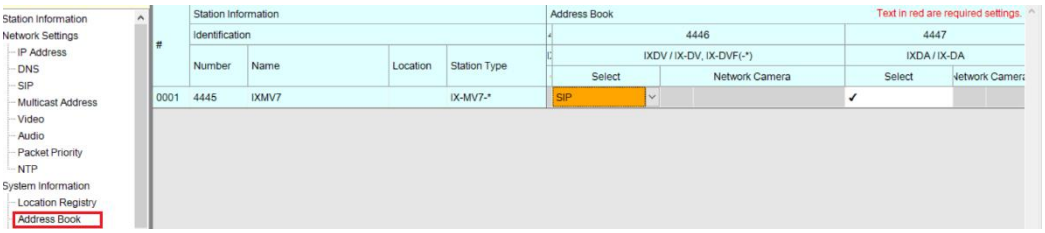
- **NTP Menu :**



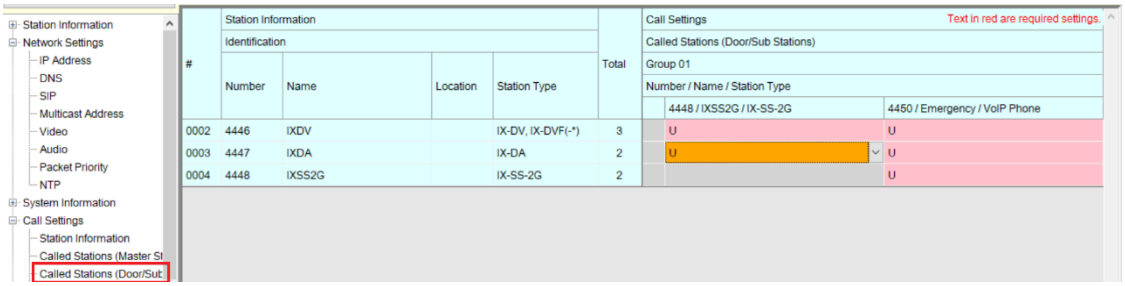
- **Station Information Menu :**



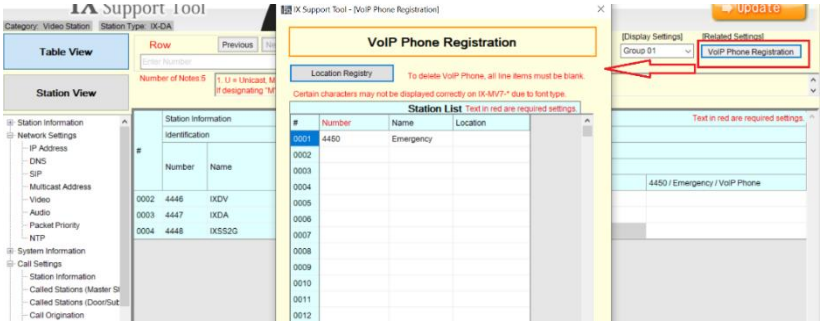
- **Address Book (For Master Station) Menu :**



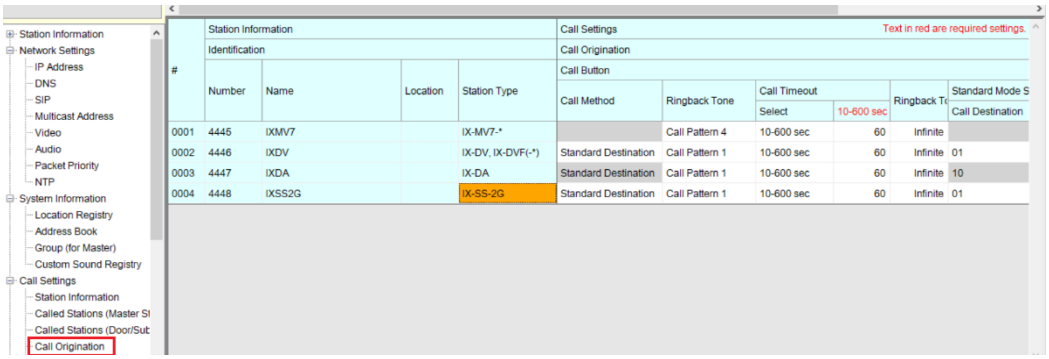
- **Called Stations (Door/Substations) Menu :**



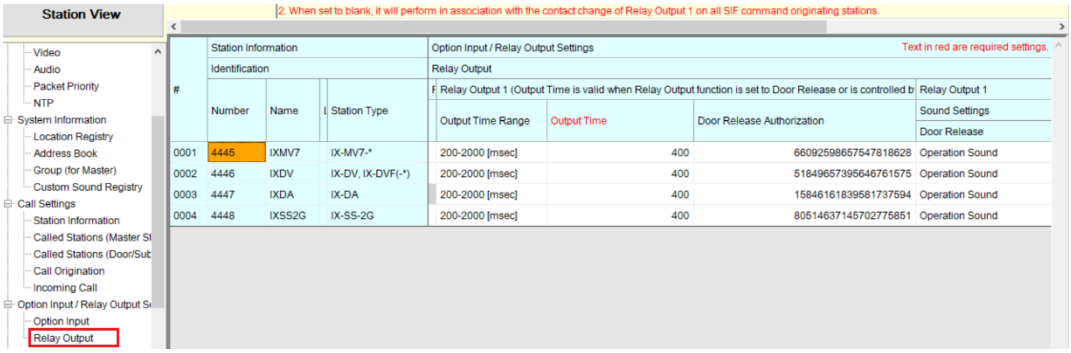
- **VoIP Phone Registration Menu :**



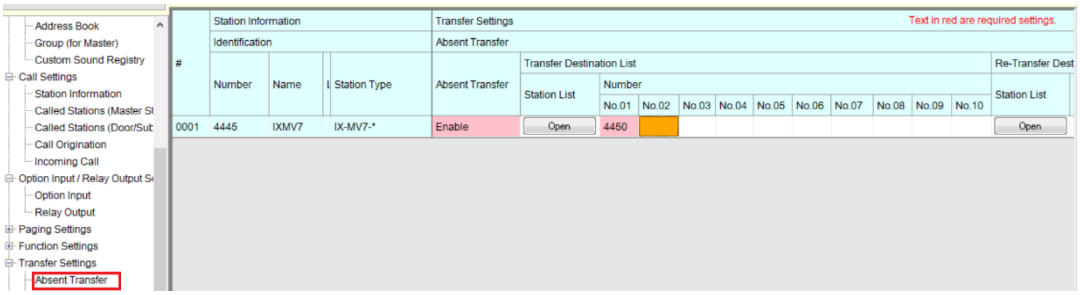
- **Call Origination :**



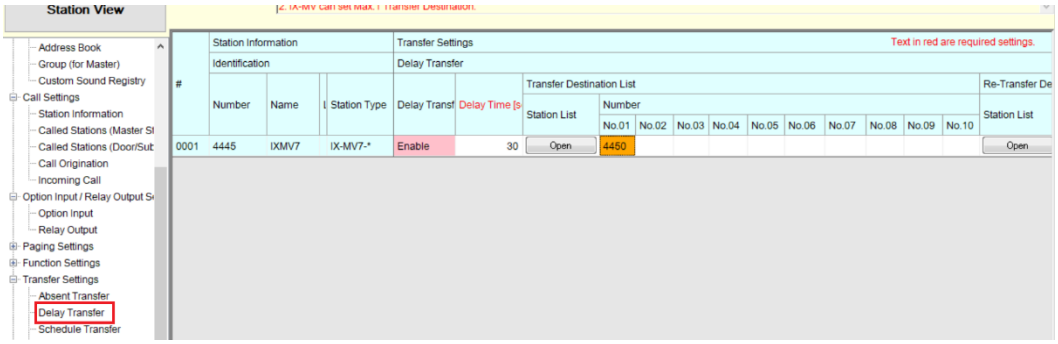
- **Relay Output :**



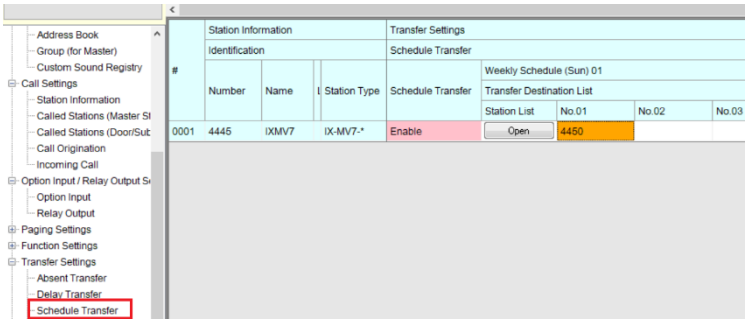
- **Absent Transfer :**



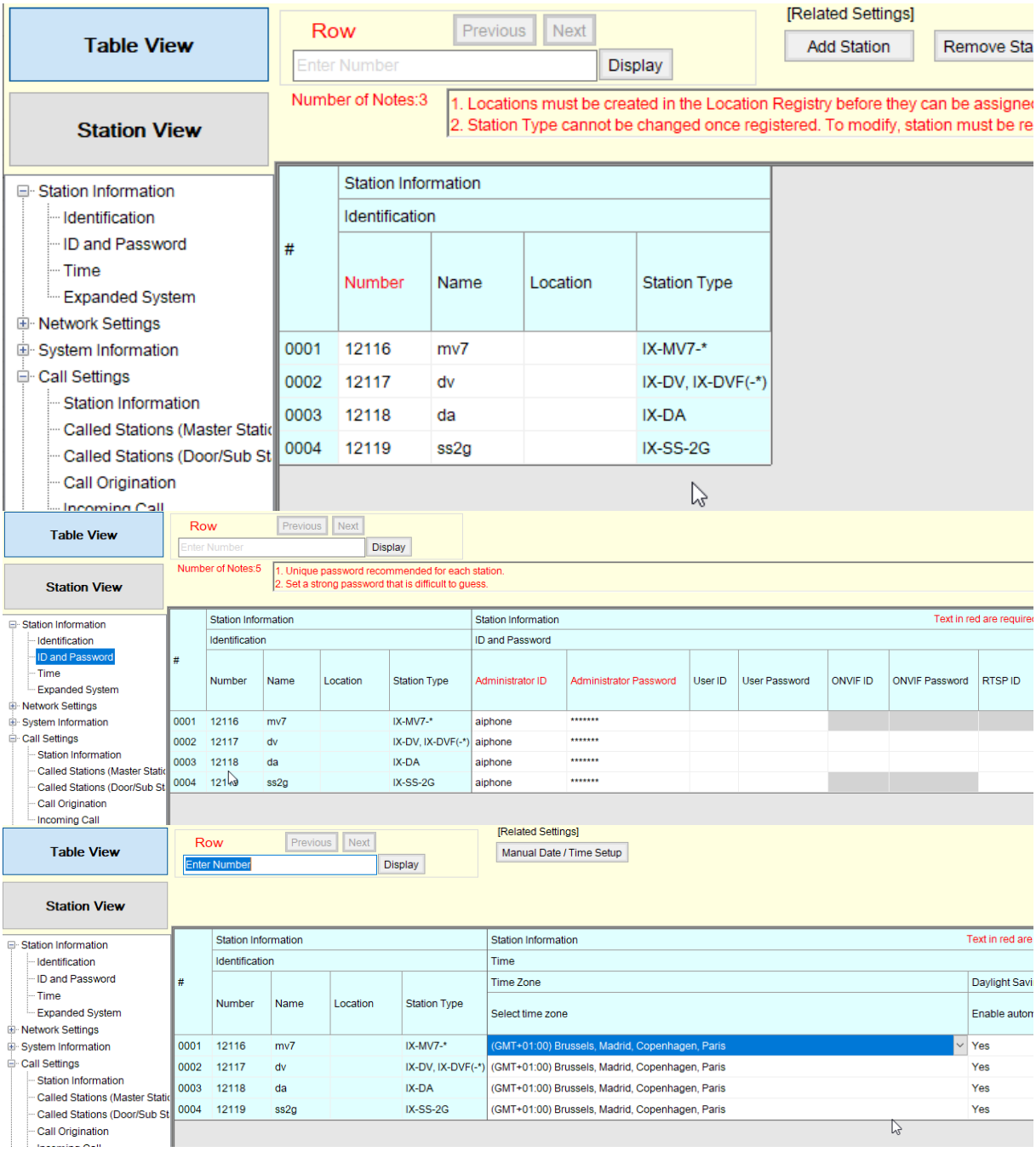
- **Delay Transfer :**



- **Schedule Transfer :**



7.2 Screenshots from test lab



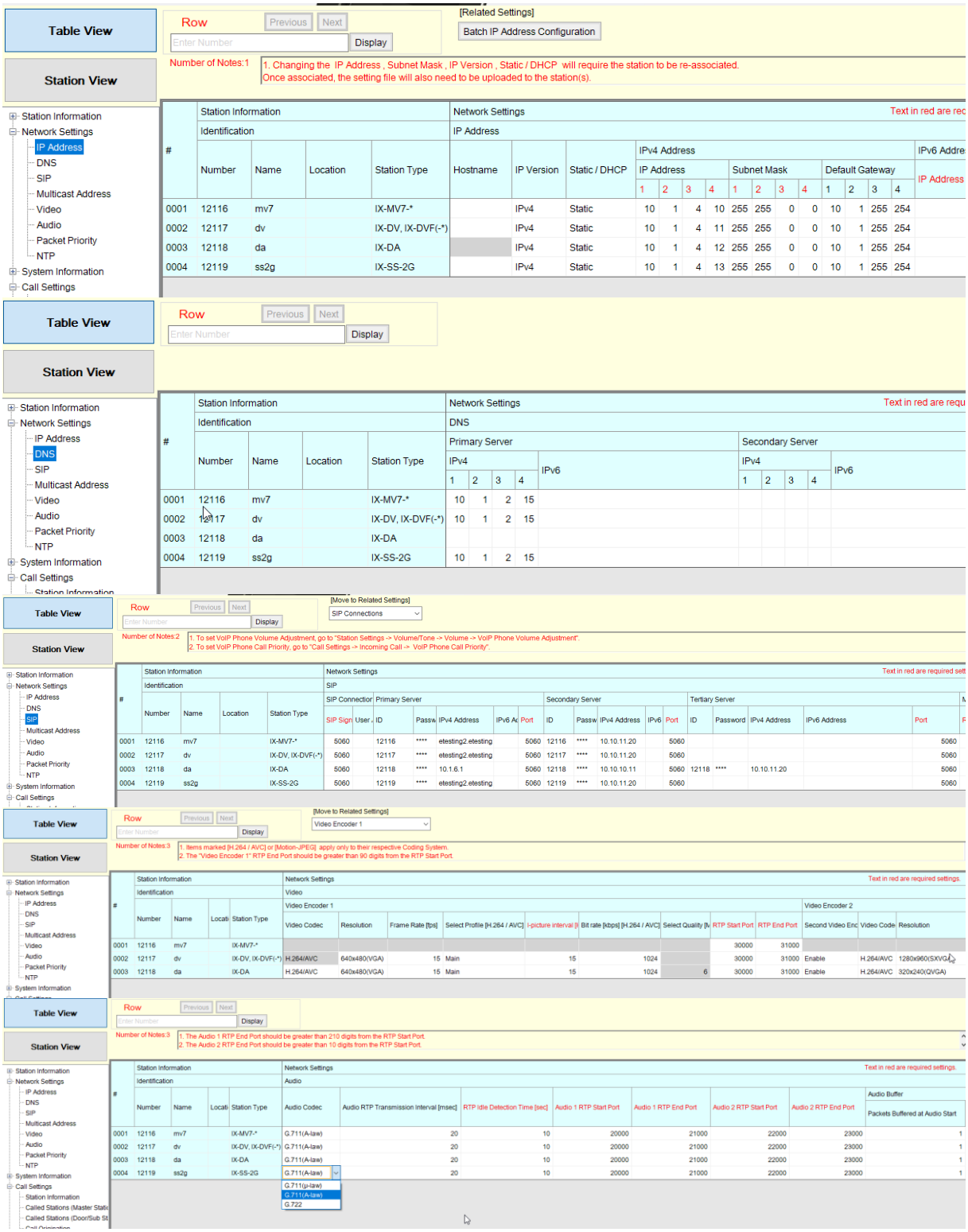


Table View
Station View
Row
Previous
Next
Enter Number
Display
[Related Settings]
Batch IP Address Configuration
Number of Notes:1
1. Changing the IP Address , Subnet Mask , IP Version , Static / DHCP will require the station to be re-associated.
Once associated, the setting file will also need to be uploaded to the station(s).
Station Information
Network Settings
IP Address
DNS
SIP
Multicast Address
Video
Audio
Packet Priority
NTP
System Information
Call Settings
Text in red are req
Identification
Number
Name
Location
Station Type
Hostname
IP Version
Static / DHCP
IPv4 Address
IP Address
Subnet Mask
Default Gateway
IPv6 Addre
0001 12116 mv7 IX-MV7-* IPv4 Static 10 1 4 10 255 255 0 0 10 1 255 254
0002 12117 dv IX-DV, IX-DVF(-*) IPv4 Static 10 1 4 11 255 255 0 0 10 1 255 254
0003 12118 da IX-DA IPv4 Static 10 1 4 12 255 255 0 0 10 1 255 254
0004 12119 ss2g IX-SS-2G IPv4 Static 10 1 4 13 255 255 0 0 10 1 255 254
Text in red are requ
DNS
Primary Server
Secondary Server
IPv4
IPv6
0001 12116 mv7 IX-MV7-* 10 1 2 15
0002 12117 dv IX-DV, IX-DVF(-*) 10 1 2 15
0003 12118 da IX-DA
0004 12119 ss2g IX-SS-2G 10 1 2 15
[Move to Related Settings]
SIP Connections
Number of Notes:2
1. To set VoIP Phone Volume Adjustment, go to "Station Settings -> Volume/Tone -> Volume -> VoIP Phone Volume Adjustment".
2. To set VoIP Phone Call Priority, go to "Call Settings -> Incoming Call -> VoIP Phone Call Priority".
Text in red are required sett
SIP
SIP Connection
Primary Server
Secondary Server
Tertiary Server
0001 12116 mv7 IX-MV7-* 5060 12116 **** etesting2.etesting 5060 12116 **** 10.10.11.20 5060
0002 12117 dv IX-DV, IX-DVF(-*) 5060 12117 **** etesting2.etesting 5060 12117 **** 10.10.11.20 5060
0003 12118 da IX-DA 5060 12118 **** 10.1.6.1 5060 12118 **** 10.10.10.11 5060 12118 **** 10.10.11.20 5060
0004 12119 ss2g IX-SS-2G 5060 12119 **** etesting2.etesting 5060 12119 **** 10.10.11.20 5060
[Move to Related Settings]
Video Encoder 1
Number of Notes:3
1. Items marked [H.264 / AVC] or [Motion-JPEG] apply only to their respective Coding System.
2. The "Video Encoder 1" RTP End Port should be greater than 90 digits from the RTP Start Port.
Text in red are required settings.
Video
Video Encoder 1
Video Encoder 2
Video Codec
Resolution
Frame Rate [fps]
Select Profile [H.264 / AVC]
I-picture interval [I
Bit rate [kbps] [H.264 / AVC]
Select Quality [M
RTP Start Port
RTP End Port
Second Video Enc
Video Code
0001 12116 mv7 IX-MV7-* 30000 31000
0002 12117 dv IX-DV, IX-DVF(-*) H.264/AVC 640x480(VGA) 15 Main 15 1024 30000 31000 Enable H.264/AVC 1280x960(SXVGA)
0003 12118 da IX-DA H.264/AVC 640x480(VGA) 15 Main 15 1024 6 30000 31000 Enable H.264/AVC 320x240(QVGA)
Number of Notes:3
1. The Audio 1 RTP End Port should be greater than 210 digits from the RTP Start Port.
2. The Audio 2 RTP End Port should be greater than 10 digits from the RTP Start Port.
Text in red are required settings.
Audio
Audio Codec
Audio RTP Transmission Interval [msec]
RTP Idle Detection Time [sec]
Audio 1 RTP Start Port
Audio 1 RTP End Port
Audio 2 RTP Start Port
Audio 2 RTP End Port
Audio Buffer
Packets Buffered at Audio Start
0001 12116 mv7 IX-MV7-* G.711(A-law) 20 10 20000 21000 22000 23000 1
0002 12117 dv IX-DV, IX-DVF(-*) G.711(A-law) 20 10 20000 21000 22000 23000 1
0003 12118 da IX-DA G.711(A-law) 20 10 20000 21000 22000 23000 1
0004 12119 ss2g IX-SS-2G G.711(A-law) 20 10 20000 21000 22000 23000 1
G.711(μ-law)
G.711(A-law)
G.722

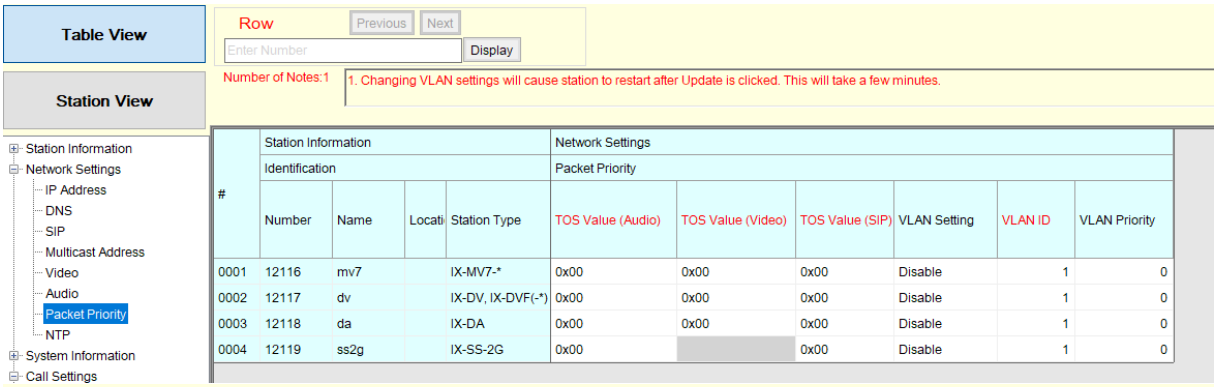


Table View
Station View
Row
Previous
Next
Enter Number
Display
Number of Notes:1
1. Changing VLAN settings will cause station to restart after Update is clicked. This will take a few minutes.
Station Information
Network Settings
IP Address
DNS
SIP
Multicast Address
Video
Audio
Packet Priority
NTP
System Information
Call Settings
Identification
Packet Priority
Number
Name
Locati
Station Type
TOS Value (Audio)
TOS Value (Video)
TOS Value (SIP)
VLAN Setting
VLAN ID
VLAN Priority
0001 12116 mv7 IX-MV7-* 0x00 0x00 0x00 Disable 1 0
0002 12117 dv IX-DV, IX-DVF(-*) 0x00 0x00 0x00 Disable 1 0
0003 12118 da IX-DA 0x00 0x00 0x00 Disable 1 0
0004 12119 ss2g IX-SS-2G 0x00 0x00 Disable 1 0

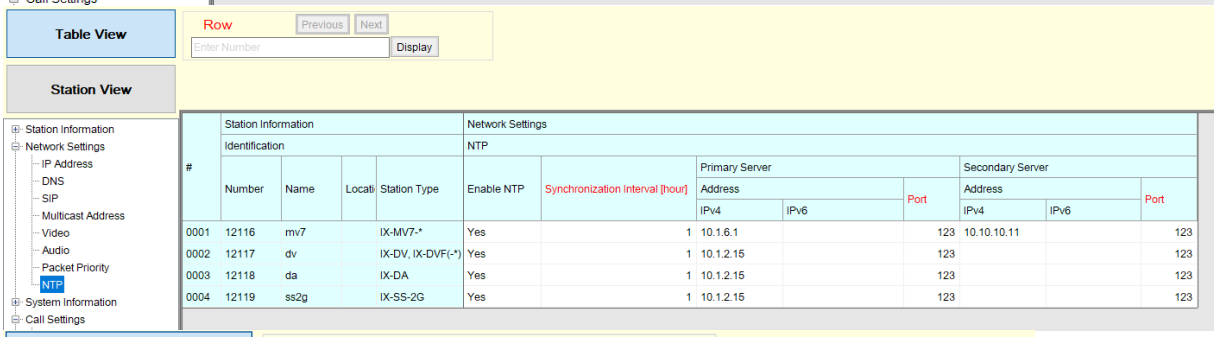


Table View
Station View
Row
Previous
Next
Enter Number
Display
Station Information
Network Settings
IP Address
DNS
SIP
Multicast Address
Video
Audio
Packet Priority
NTP
System Information
Call Settings
Identification
NTP
Number
Name
Locati
Station Type
Enable NTP
Synchronization Interval [hour]
Primary Server
Secondary Server
Address
IPv4
IPv6
Port
0001 12116 mv7 IX-MV7-* Yes 1 10.1.6.1 123 10.10.10.11 123
0002 12117 dv IX-DV, IX-DVF(-*) Yes 1 10.1.2.15 123 123
0003 12118 da IX-DA Yes 1 10.1.2.15 123 123
0004 12119 ss2g IX-SS-2G Yes 1 10.1.2.15 123 123

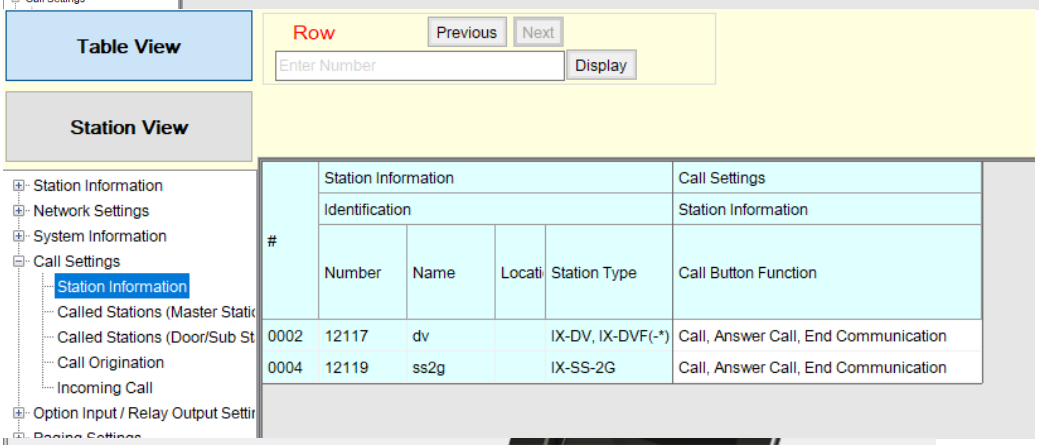


Table View
Station View
Row
Previous
Next
Enter Number
Display
Station Information
Network Settings
System Information
Call Settings
Station Information
Called Stations (Master Stati
Called Stations (Door/Sub St
Call Origination
Incoming Call
Option Input / Relay Output Setti
Identification
Call Settings
Station Information
Number
Name
Locati
Station Type
Call Button Function
0002 12117 dv IX-DV, IX-DVF(-*) Call, Answer Call, End Communication
0004 12119 ss2g IX-SS-2G Call, Answer Call, End Communication

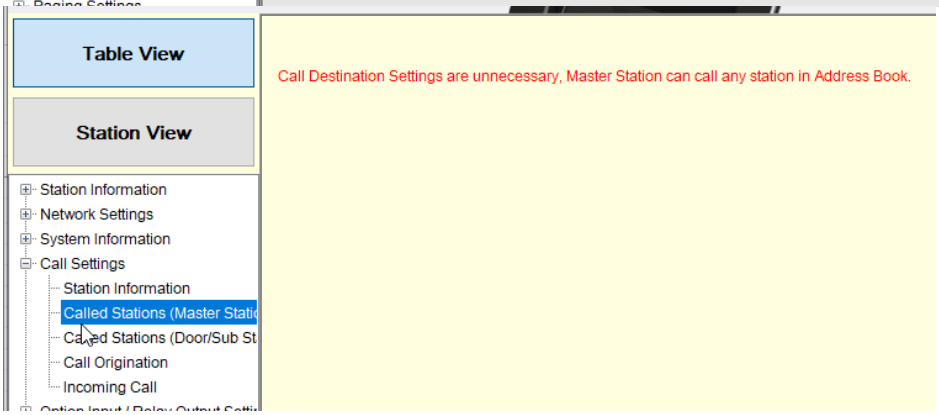


Table View
Station View
Call Destination Settings are unnecessary, Master Station can call any station in Address Book.
Station Information
Network Settings
System Information
Call Settings
Station Information
Called Stations (Master Stati
Called Stations (Door/Sub St
Call Origination
Incoming Call

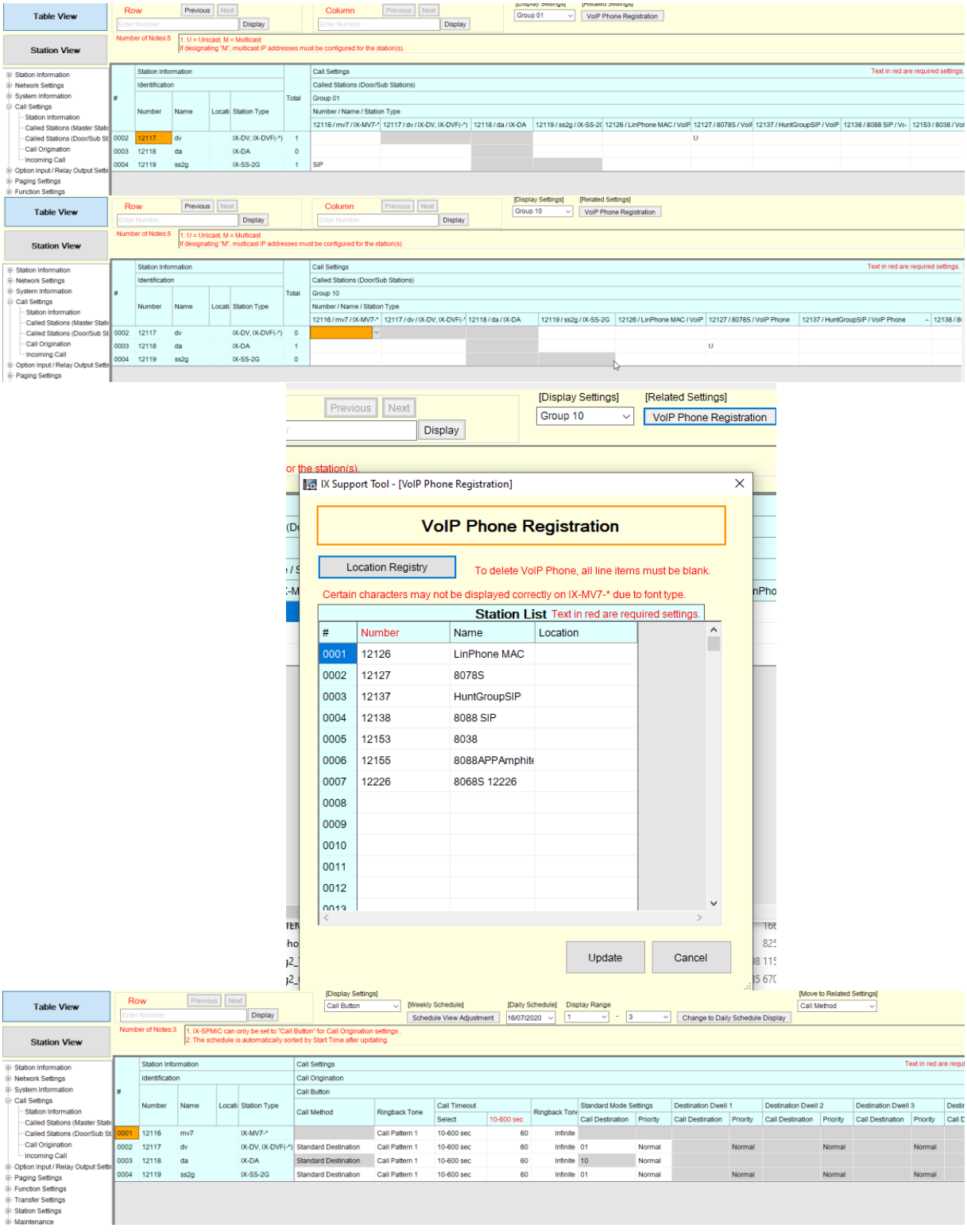


Table View
Station View
Row
Column
Previous
Next
Display
Group 01
VoIP Phone Registration
Number of Notes:5
1. U = Unicast, M = Multicast
If designating "M", multicast IP addresses must be configured for the station(s).
Station Information
Identification
Call Settings
Called Stations (Door/Sub Stations)
Group 01
Number / Name / Station Type
Text in red are required settings.
Group 10
[Display Settings]
[Related Settings]
IX Support Tool - [VoIP Phone Registration]
VoIP Phone Registration
Location Registry
To delete VoIP Phone, all line items must be blank.
Certain characters may not be displayed correctly on IX-MV7-* due to font type.
Station List Text in red are required settings.
Update
Cancel
[Weekly Schedule]
[Daily Schedule]
Display Range
Schedule View Adjustment
Change to Daily Schedule Display
[Move to Related Settings]
Call Method
Number of Notes:3
1. IX-SPMIC can only be set to "Call Button" for Call Origination settings.
2. The schedule is automatically sorted by Start Time after updating.

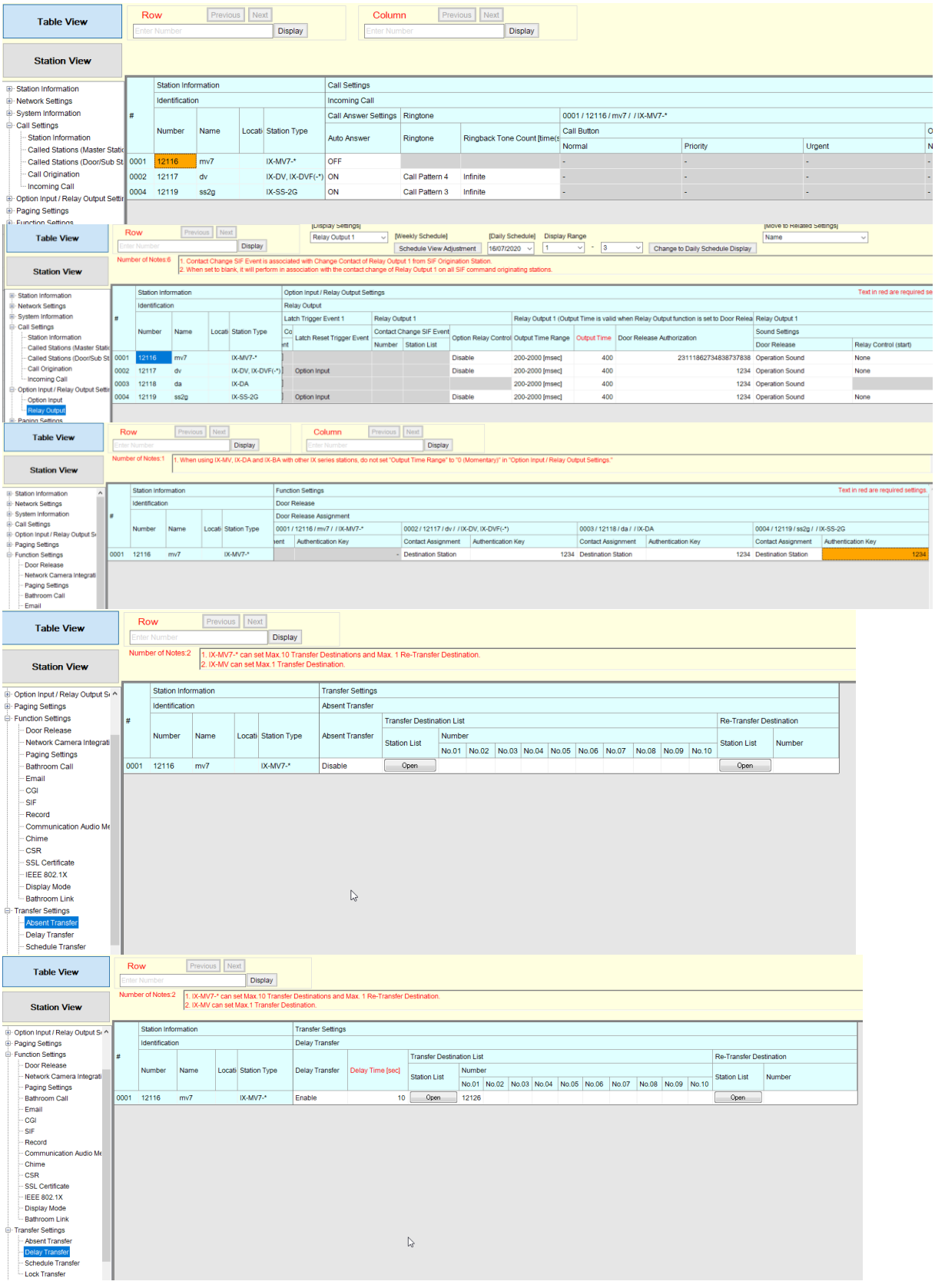


Table View
Station View
Row
Column
Previous
Next
Display
Station Information
Call Settings
Identification
Incoming Call
Number
Name
Station Type
Call Answer Settings
Ringtone
Auto Answer
Ringback Tone Count
Call Button
Normal
Priority
Urgent
0001 12116 mv7 IX-MV7-*
0002 12117 dv IX-DV, IX-DVF(-*)
0004 12119 ss2g IX-SS-2G
Option Input / Relay Output Settings
Relay Output
Latch Trigger Event 1
Relay Output 1
Latch Reset Trigger Event
Contact Change SIF Event
Option Relay Control
Output Time Range
Output Time
Door Release Authorization
Sound Settings
Door Release
Relay Control (start)
Function Settings
Door Release
Door Release Assignment
Authentication Key
Destination Station
Transfer Settings
Absent Transfer
Transfer Destination List
Station List
Re-Transfer Destination
Delay Transfer
Delay Time [sec]
Schedule Transfer
Lock Transfer

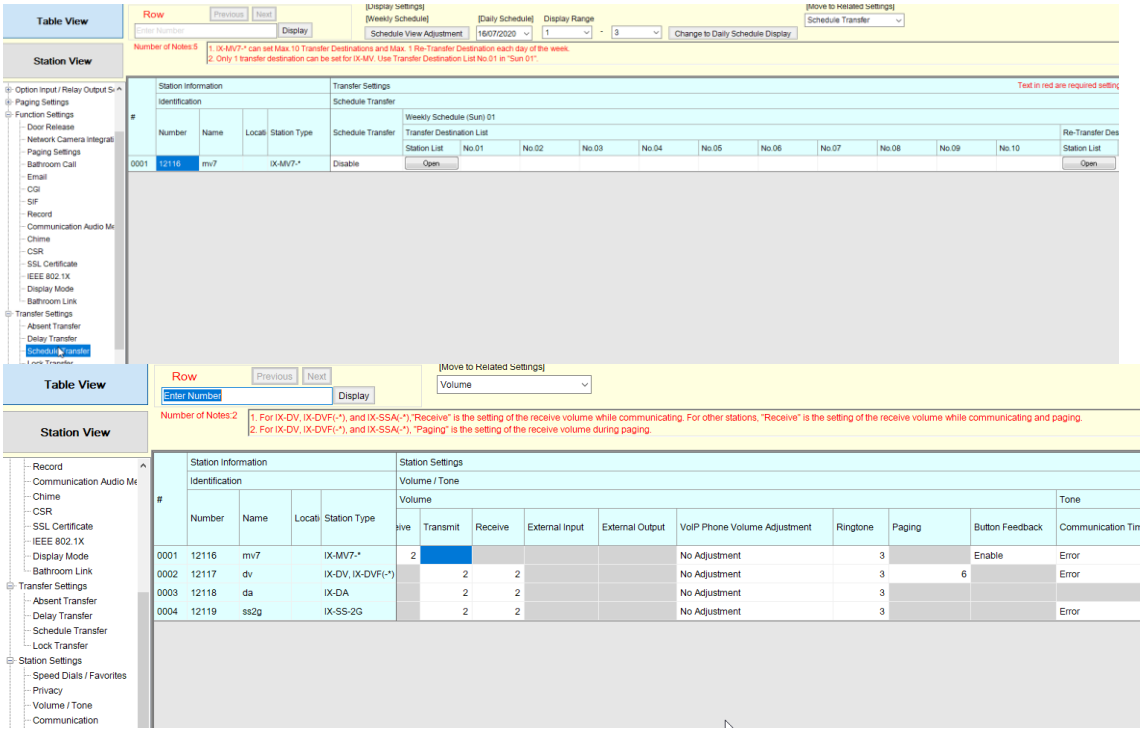


Table View
Station View
Row
Previous
Next
Enter Number
Display
[Display Settings]
[Weekly Schedule]
Schedule View Adjustment
[Daily Schedule]
16/07/2020
Display Range
Change to Daily Schedule Display
[Move to Related Settings]
Schedule Transfer
Number of Notes:5
1. IX-MV7-* can set Max.10 Transfer Destinations and Max. 1 Re-Transfer Destination each day of the week.
2. Only 1 transfer destination can be set for IX-MV. Use Transfer Destination List No.01 in "Sun 01".
Station Information
Identification
Transfer Settings
Schedule Transfer
Text in red are required setting
Number
Name
Station Type
Weekly Schedule (Sun) 01
Transfer Destination List
Station List
No.01
No.02
No.03
No.04
No.05
No.06
No.07
No.08
No.09
No.10
Re-Transfer Des
0001
12116
mv7
IX-MV7-*
Disable
Open
Option Input / Relay Output S
Paging Settings
Function Settings
Door Release
Network Camera Integrati
Paging Settings
Bathroom Call
Email
CGI
SIF
Record
Communication Audio Me
Chime
CSR
SSL Certificate
IEEE 802.1X
Display Mode
Bathroom Link
Transfer Settings
Absent Transfer
Delay Transfer
Schedule Transfer
Lock Transfer

Table View
Station View
Row
Previous
Next
Enter Number
Display
[Move to Related Settings]
Volume
Number of Notes:2
1. For IX-DV, IX-DVF(-*), and IX-SSA(-*),"Receive" is the setting of the receive volume while communicating. For other stations, "Receive" is the setting of the receive volume while communicating and paging.
2. For IX-DV, IX-DVF(-*), and IX-SSA(-*), "Paging" is the setting of the receive volume during paging.
Station Information
Identification
Station Settings
Volume / Tone
Volume
Tone
Number
Name
Station Type
Transmit
Receive
External Input
External Output
VoIP Phone Volume Adjustment
Ringtone
Paging
Button Feedback
0001
12116
mv7
IX-MV7-*
No Adjustment
Enable
Error
0002
12117
dv
IX-DV, IX-DVF(-*)
0003
12118
da
IX-DA
0004
12119
ss2g
IX-SS-2G
Record
Communication Audio Me
Chime
CSR
SSL Certificate
IEEE 802.1X
Display Mode
Bathroom Link
Transfer Settings
Absent Transfer
Delay Transfer
Schedule Transfer
Lock Transfer
Station Settings
Speed Dials / Favorites
Privacy
Volume / Tone
Communication

Chapter

8

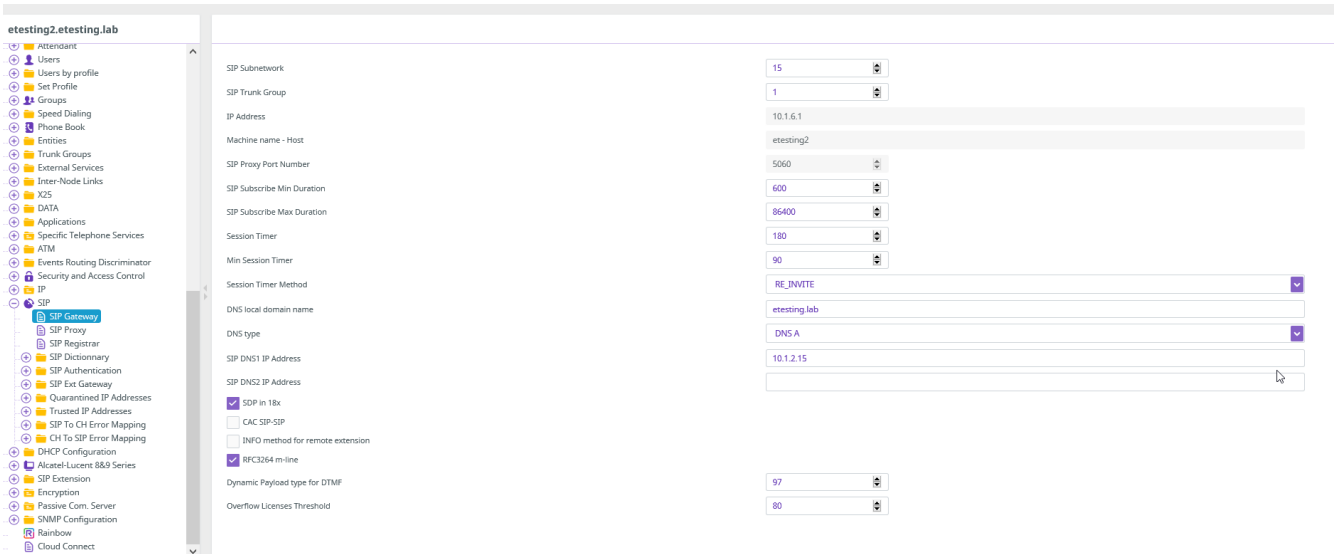
Appendix C: ALE side CONFIGURATION

8.1 OXE Management overview

The configuration and management of OmniPCX Enterprise can be done from Console (SSH to OXE then connect as mtcl user and use “mgr” command) or using web Graphical User Interface into a WEB Browser https:://IP@orDNSofOXE and connect also as mtcl user.

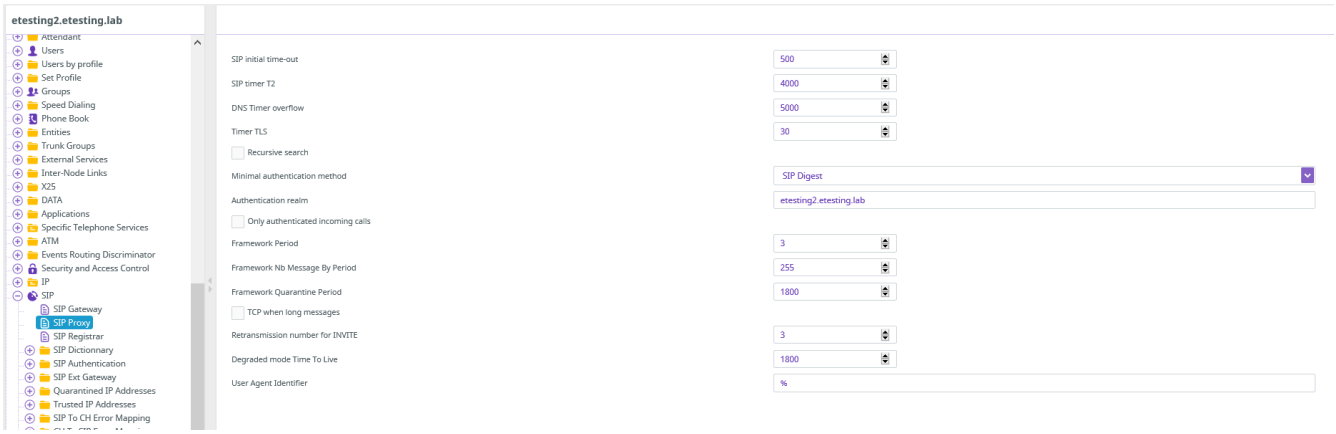
The following screenshots were done using the Web GUI.

8.2 SIP Gateway management

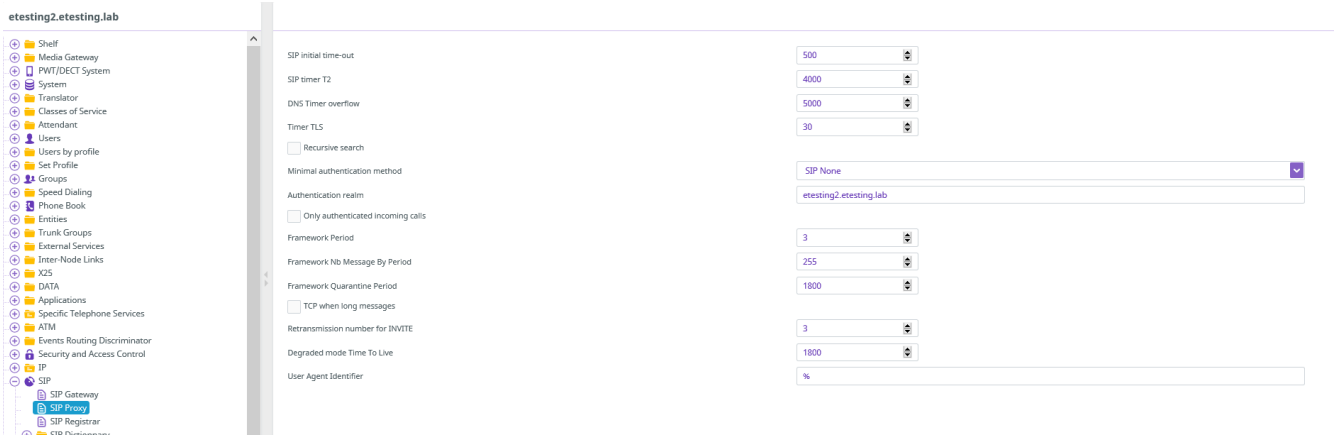


8.3 SIP Proxy management

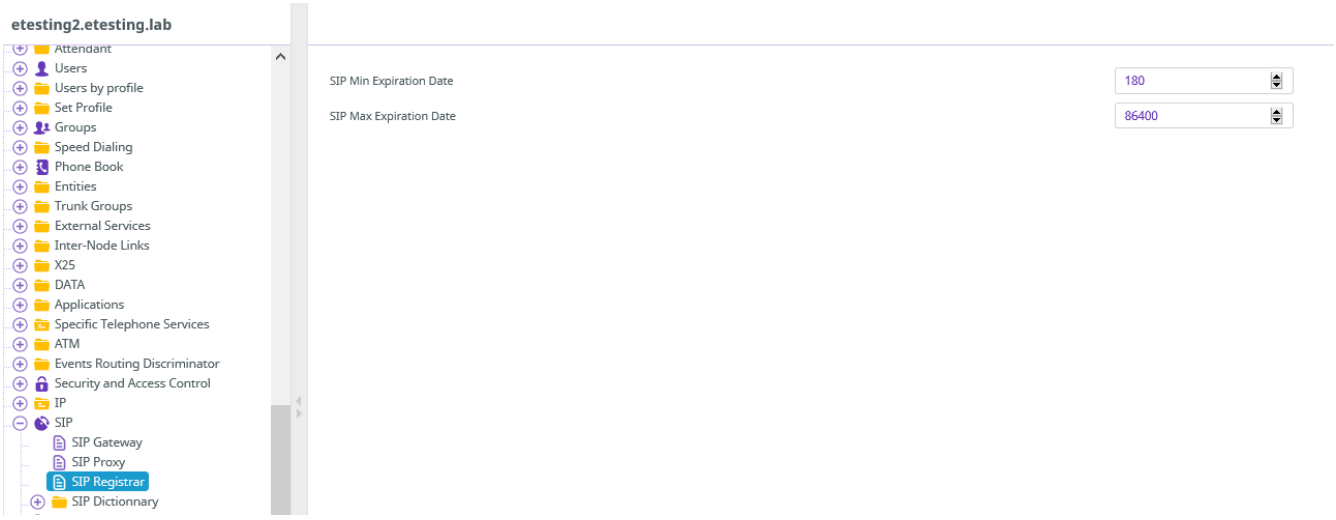
Authentication mode set to SIP Digest:



No authentication mode:

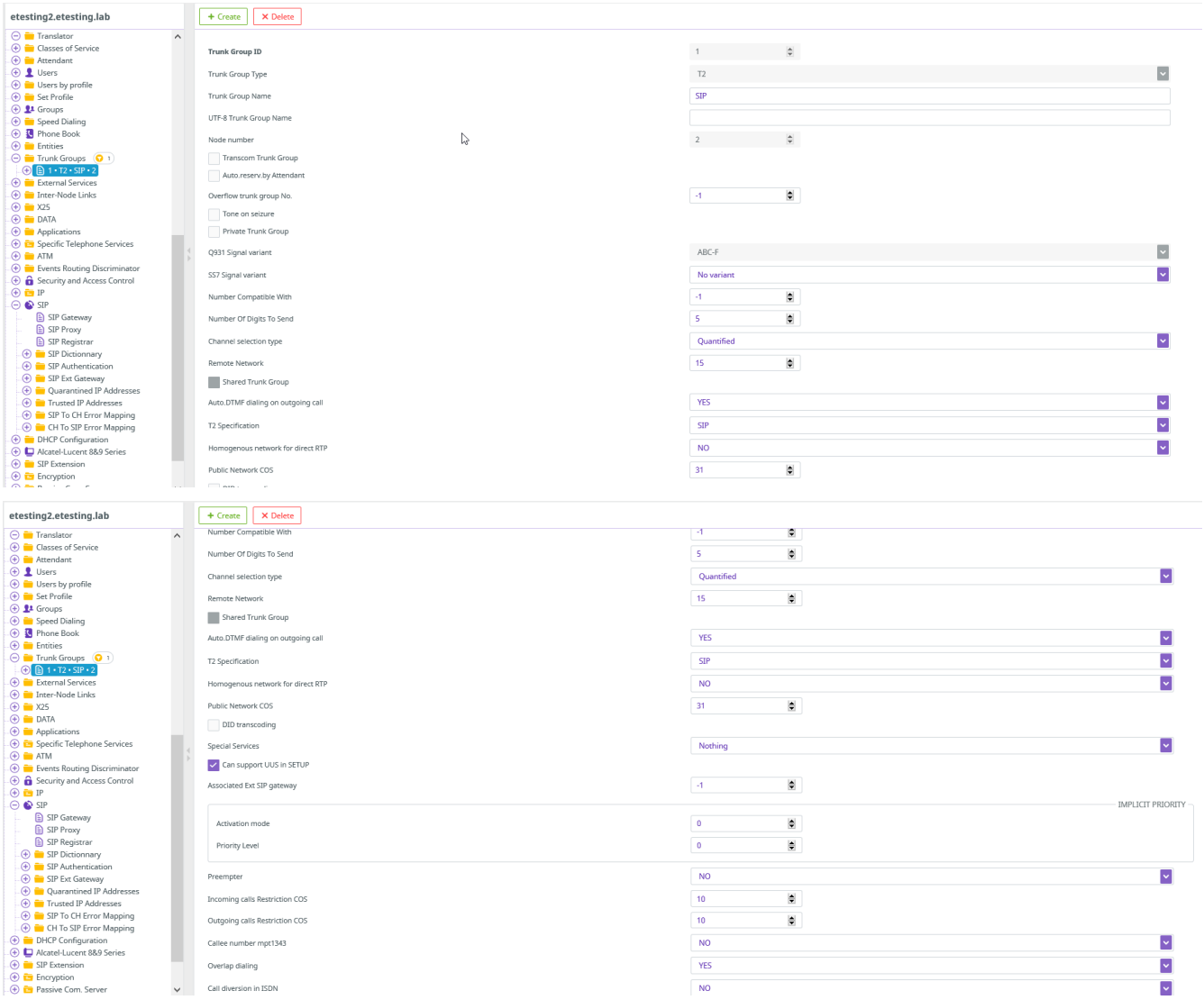


8.4 SIP Registrar management



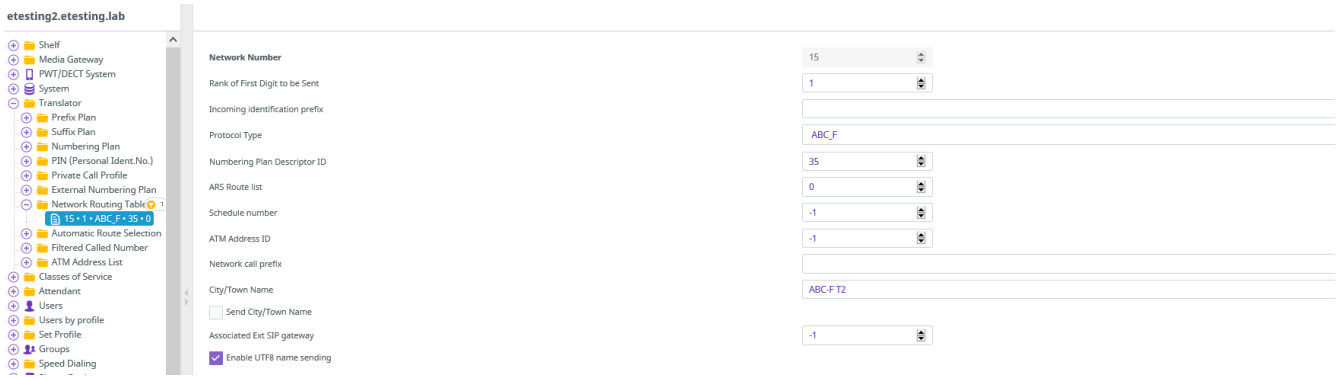
8.5 SIP Trunk Group management

The Trunk Group used into SIP Gateway is number 1.



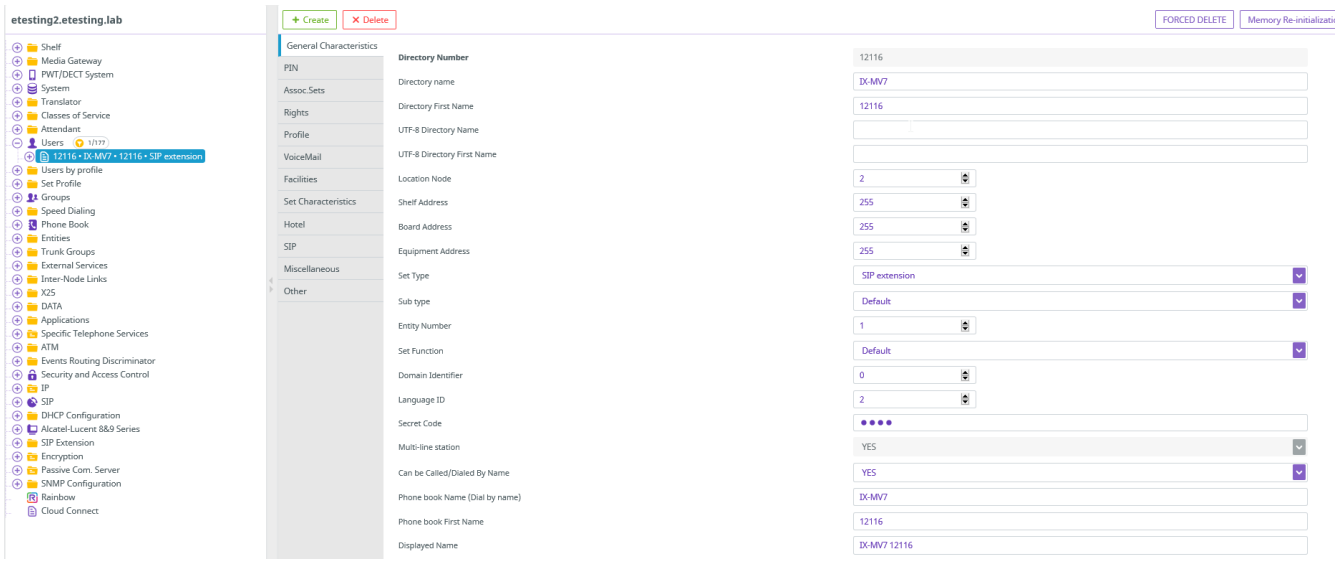
8.6 Network Routing table

This table is used to define the protocol to be used by the SIP Trunk, We use the ABC-F protocol for Internal SIP Gateway. Into SIP Gateway, we can see that Network Number is 15.

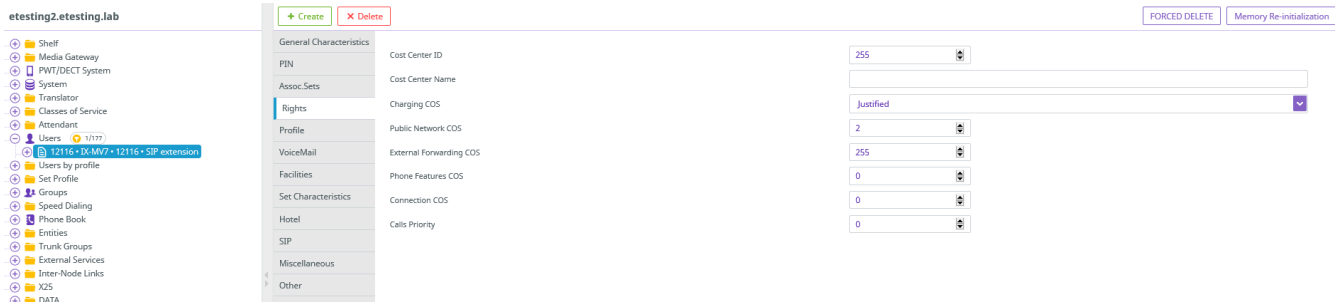


8.7 Users management

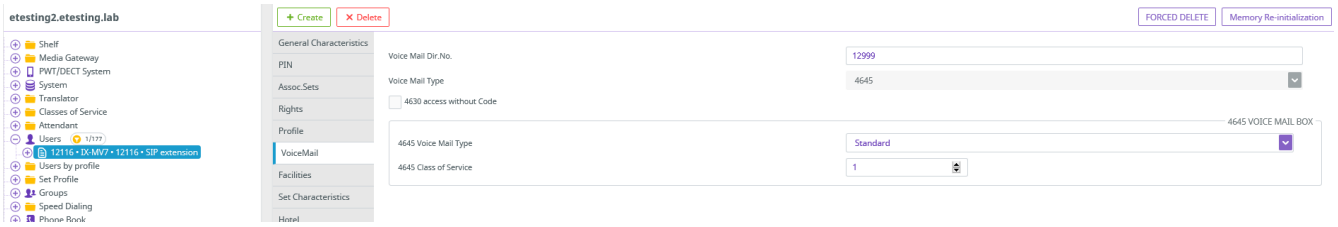
8.7.1 IX-MV7, 12116



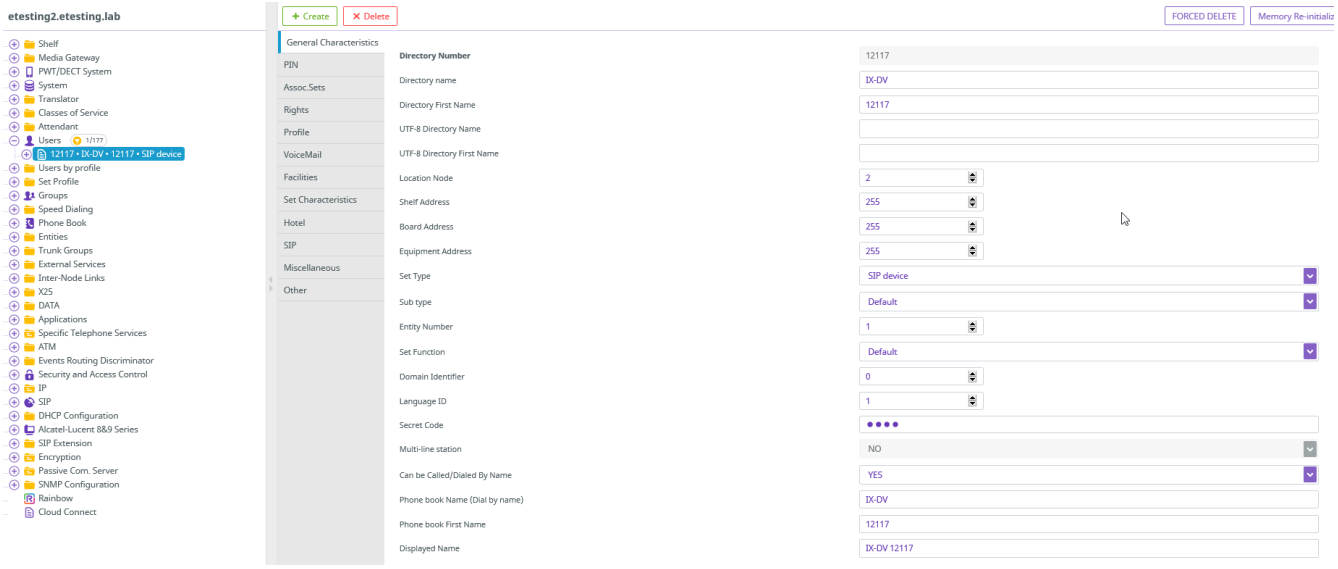
Rights and Classes of Services (COS)

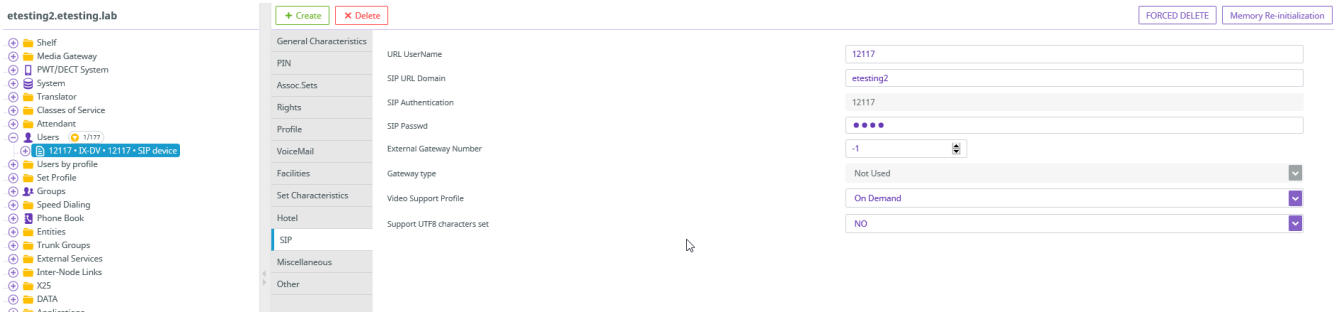


Voice mail attribution

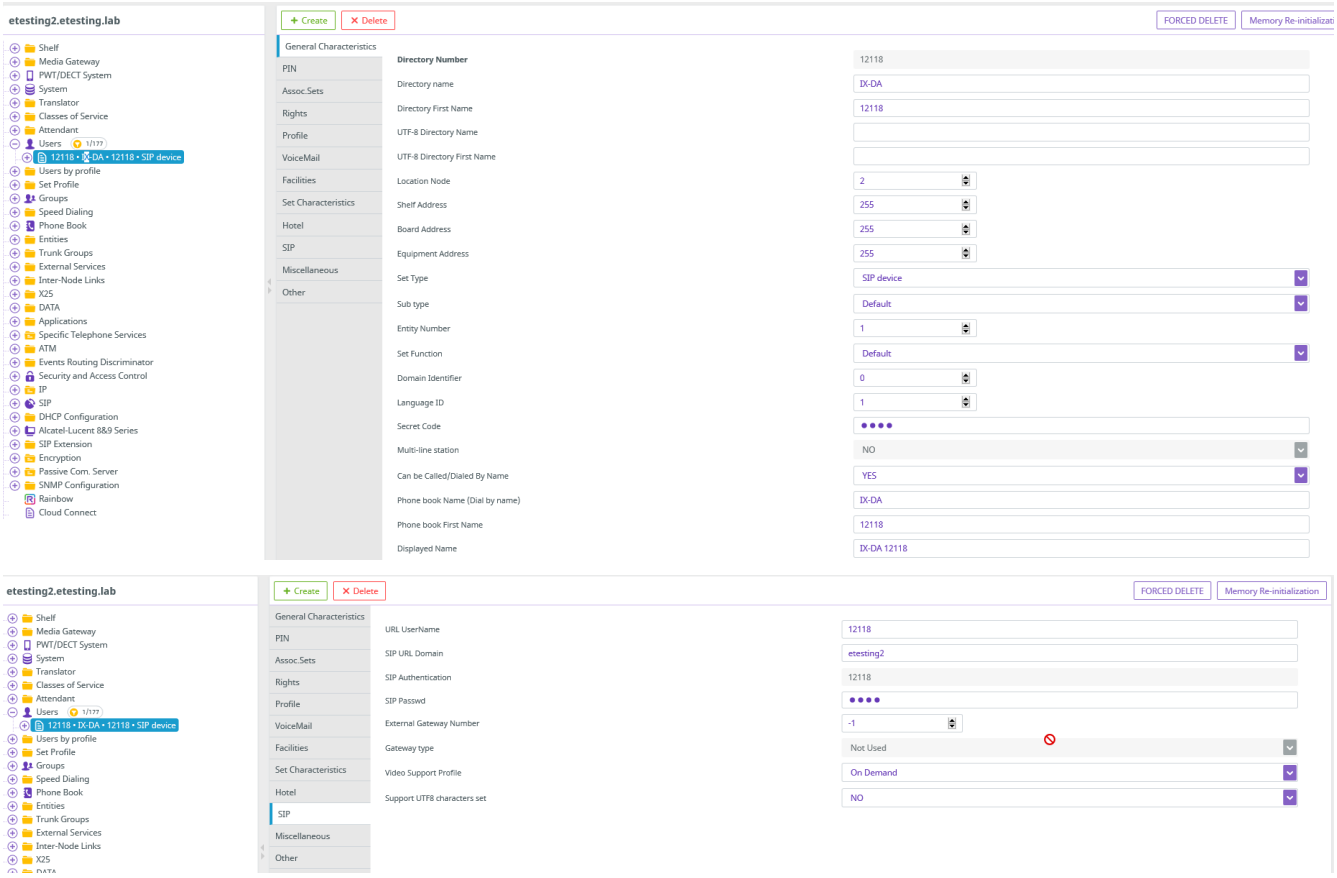


8.7.2 IX-DV, 12117

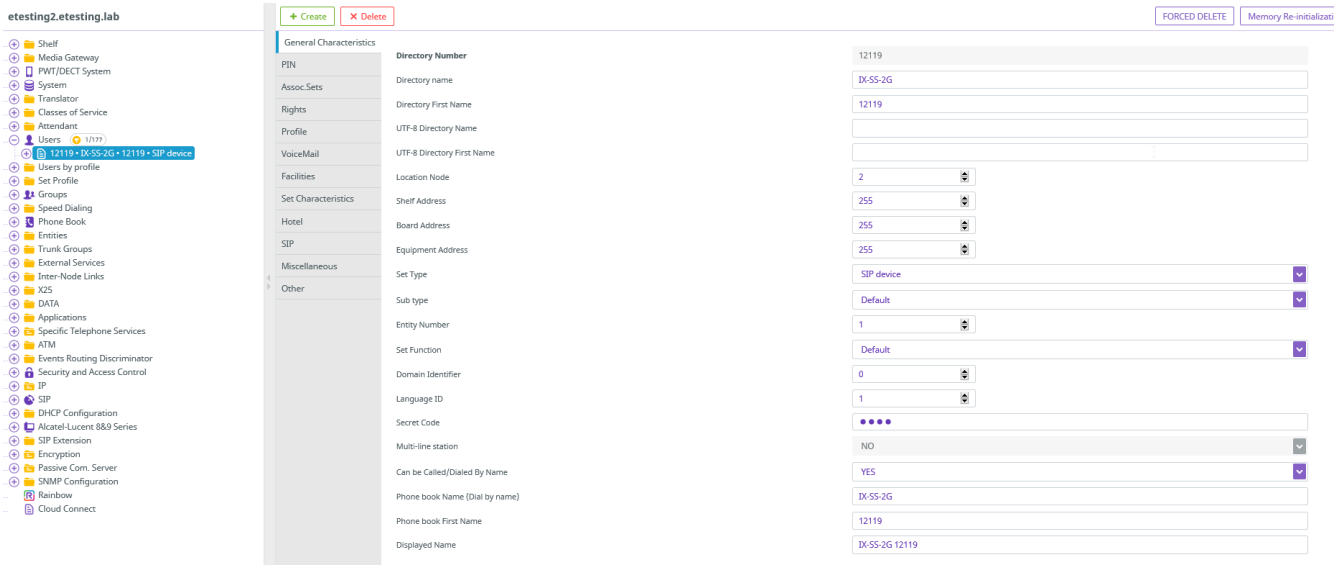


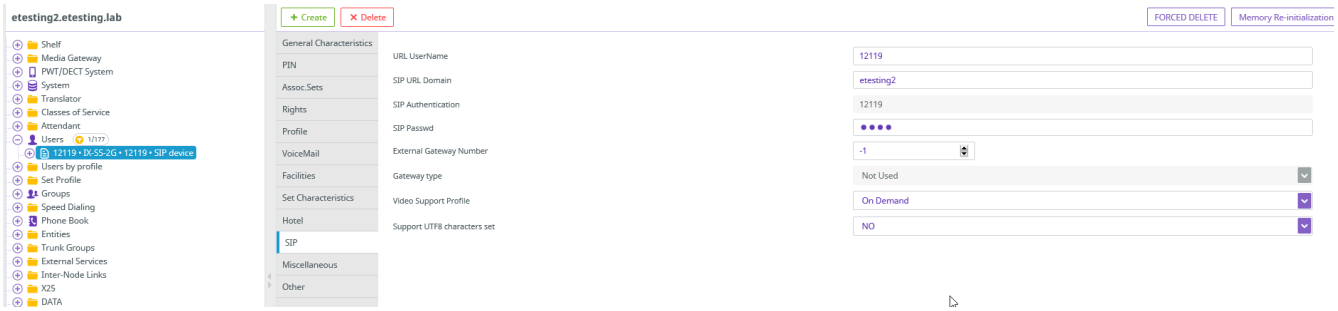


8.7.3 IX-DA, 12118



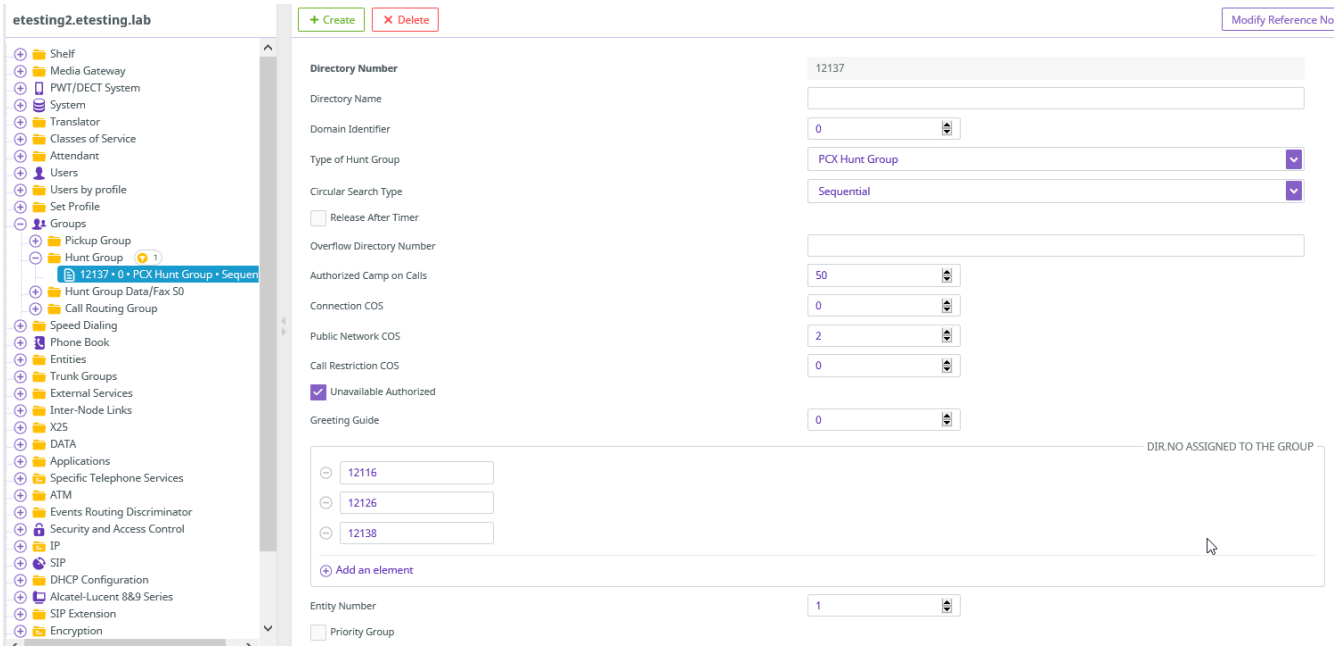
8.7.4 IX-SS-2G, 12119



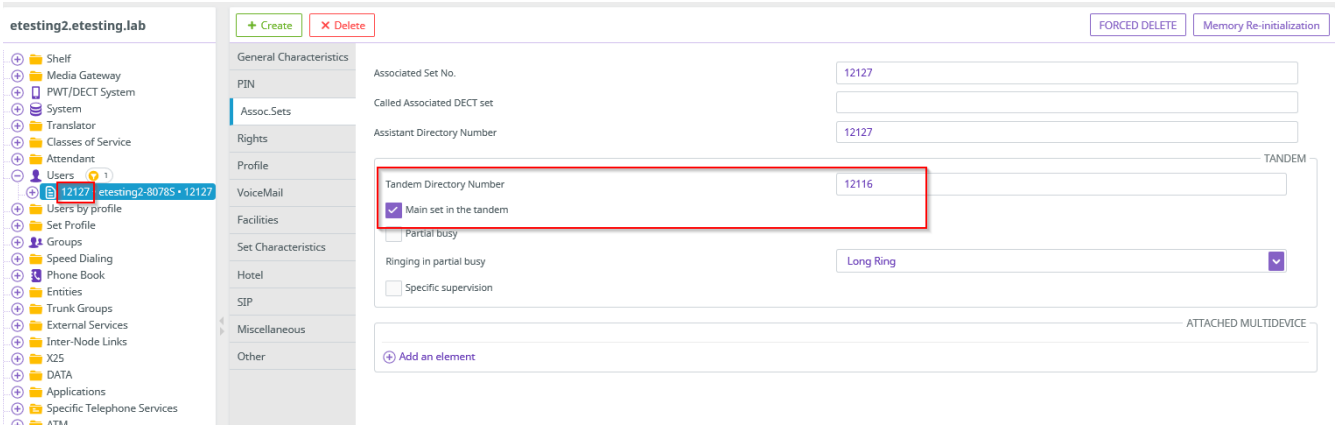


8.8 Hunting Group

The type of Hunt group can be Circular, Sequential and Parallel (not used with Multiline stations, SIP Extension is Multiline).



8.9 Twin Sets



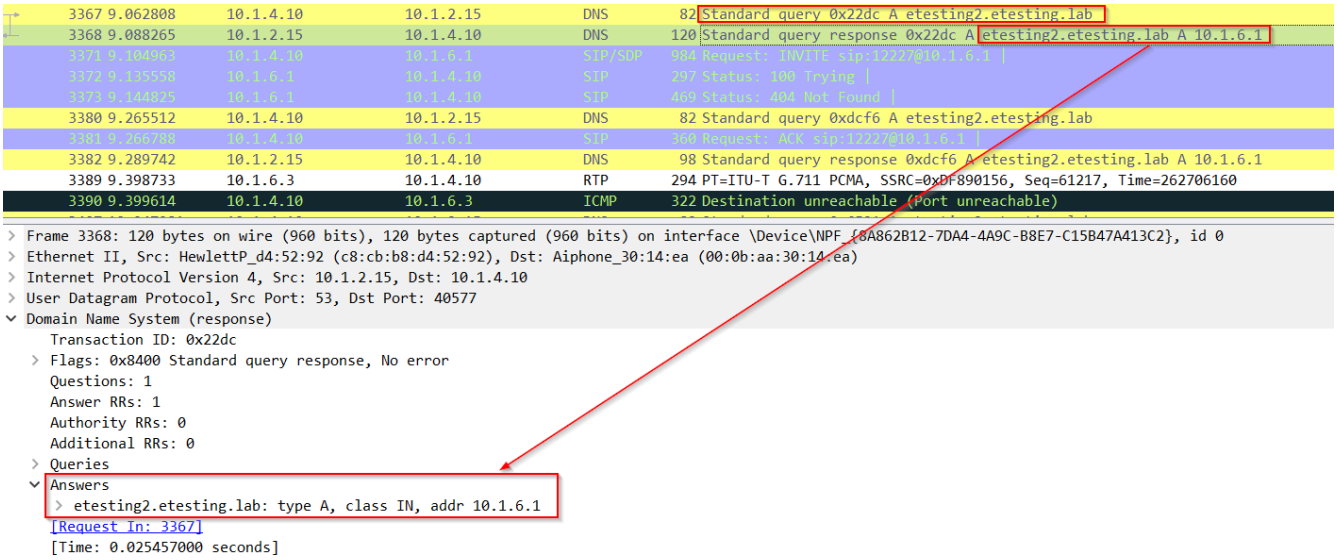
8.10 OXE Licensing

To check the licensing locks from OPS file, use “spadmin” command into console ssh.

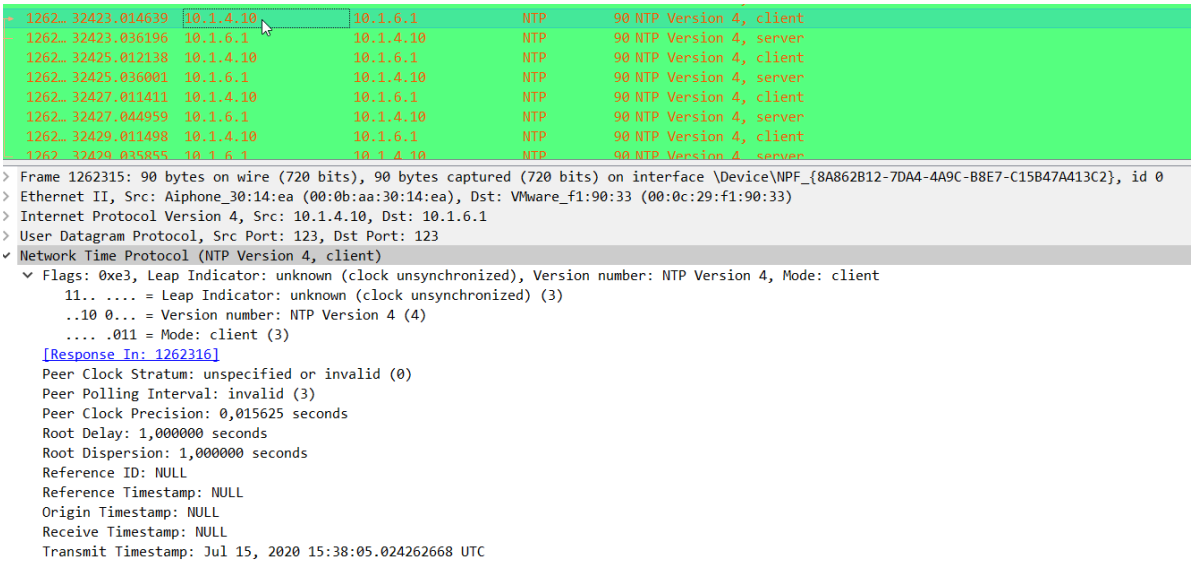
Lock **177** **M SIP users**= xx - Should be set with right value to create all SIP terminals.

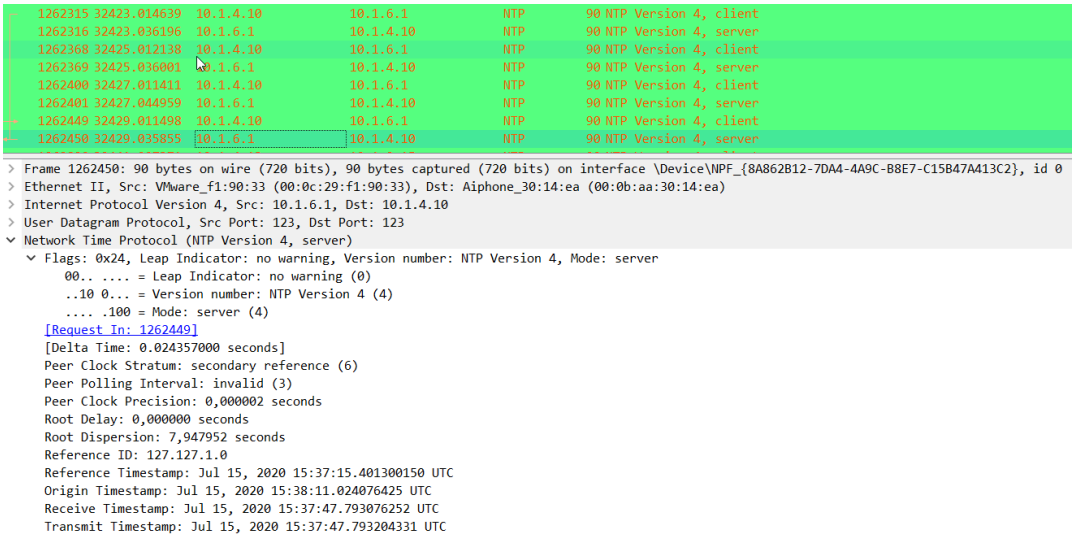
8.11 Additional information

8.11.1 DNS query from IX stations to DNS server to know IP address of etesting2.etesting.lab

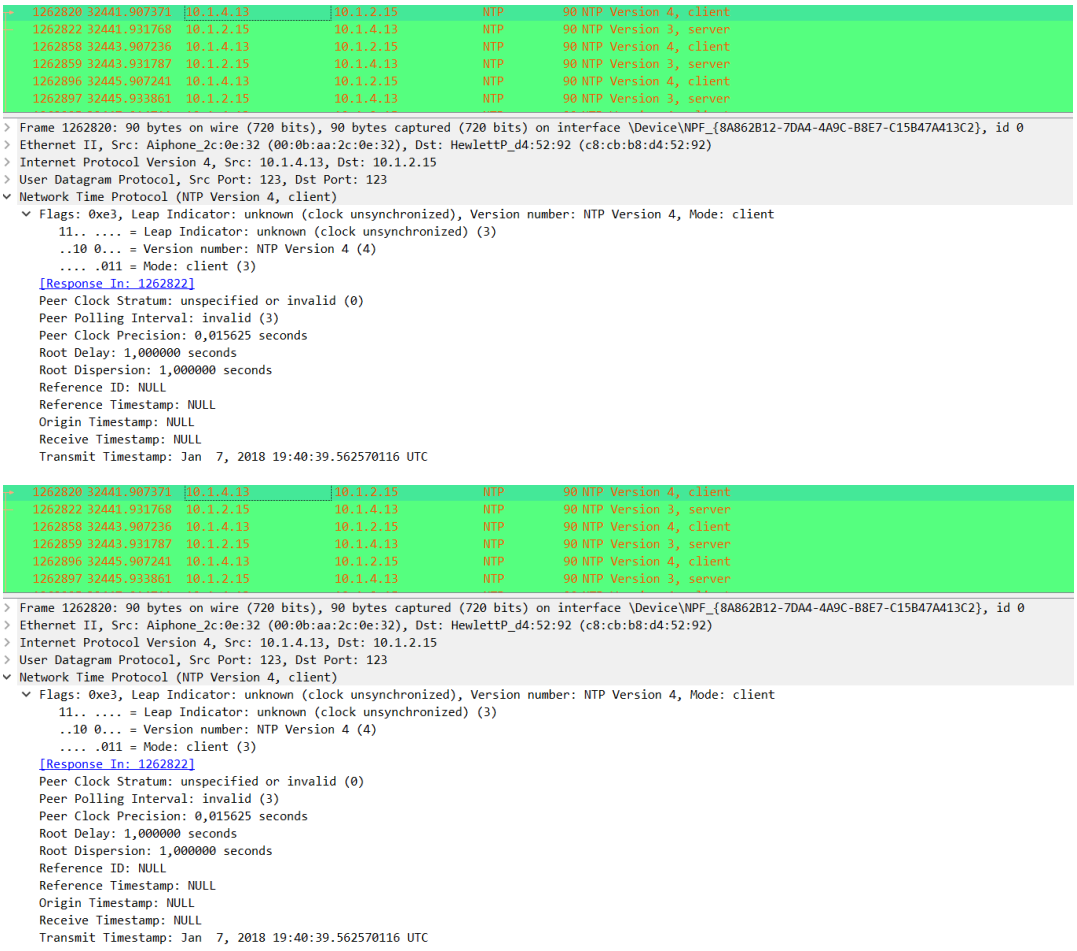


8.11.2 NTP Query from MV7 to OXE CS





8.11.3 NTP query from IX-SS-2G



8.11.4 SIP Server configuration for all 4 IX stations

#	Station Information				Network Settings													Text in red are required settings.
	Identification				SIP													
	Number	Name	Loc	Station Type	Primary Server					Secondary Server					Tertiary Server			
					ID	Passw	IPv4 Address	IPv6 Ac	Port	ID	Password	IPv4 Address	IPv6 Add	Port	ID	Password	IPv4 Address	
0001	12116	mv7		IX-MV7-*	12116	****	etesting2.etesting		5060	12116	****	10.10.11.20		5060				
0002	12117	dv		IX-DV, IX-DVF(-*)	12117	****	etesting2.etesting		5060	12117	****	10.10.11.20		5060				
0003	12118	da		IX-DA	12118	****	10.1.6.1		5060	12118	****	10.10.10.11		5060	12118	****	10.10.11.20	
0004	12119	ss2g		IX-SS-2G	12119	****	etesting2.etesting		5060	12119	****	10.10.11.20		5060				

8.11.5 Call settings for Group01 (DV and SS-2G)

#	Station Information				Total	Call Settings				Text in red are required settings.
	Identification					Called Stations (Door/Sub Stations)				
	Number	Name	Loc	Station Type		Group 01				
						Number / Name / Station Type				
						VoIP Phone	12127 / 8078S / VoIP Phone	12137 / HuntGroupSIP / VoIP Phone	12138 / 8088 SIP / VoIP Phone	
0002	12117	dv		IX-DV, IX-DVF(-*)	1			U		
0003	12118	da		IX-DA	0					
0004	12119	ss2g		IX-SS-2G	1		U			

IX-DA is into Group 10.

8.11.6 IX Transfers configured in IX Support Tool

These transfer are only for calls between IX stations and IX-MV7 using the proprietary protocol (Unicast) and not for SIP PBX calls from OXE phones or IX stations using SIP PBX to call MV7 (SIP in Call Settings).