

IPX-G5X0 Series

Installation Guide

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1. IPX-G5X0 Series Introduction

1.1 IPX-G5X0 Series Specification

1.1.1 Structure

IPX-G5X0 Series Structure

Item		Specification		
Size		Size(WxDxH): 441.5 × 352 × 44mm		19" Rack Installation Type, 1U
Power		AC 110/220V ICMUt, DC +12 V/5.5 A Output		-
IPX-G500B	BASE	Universal Slot 4 개, Power Redundancy (Optional)		-
		Gigabit Ethernet 2 port		-
		USB 1 port, Console 1 port		-
	Option Card	4 universal slot installation		No limit for location and numbers of cards. RJ-45 connector
		FXS 4 port, FXO 4 port, PRI 2 port, PRI 1 port, BRI 2 port		
IPX-G520S/G540S		Max 6 cabinet connection (240 ports)	FXS 20 port, Power Redundancy (Optional)	50P champ connector
			FXS 40 port	

1.1.2 Capacity

1. 1. 2. 1 Station/Trunk Capacity

IPX-G5X0 Series Capacity

Item	Specification		
Max stations	FXS port	256	136 ports in case of power redundancy
	SIP Phone Survivability	512	UDP/TLS are same
	Sum of stations (at the	768	Survival mode

Item	Specification		
	same time)		
Max trunks	FXO port	16	-
	BRI channel	16	8 ports(Europe only)
	PRI channel	240 (E1 PRI)	8 ports
	SIP channel	256	-
	Sum of trunks (at the same time)	256	-

•

2. IPX-G5X0 Series Installation

To install IPX-G5X0 Series, you have to set gateway information in SCM. Then you also have to set basic information in IPX-G5X0 systems.

IPX-GX0 Series is compatible with SCME 5.4 or higher. If your SCME version is low, you have to upgrade SCME first. To upgrade SCME, please refer to the SCME documents.

2.1 SCM Configuration

2.1.1 Gateway Link Setting

Create a new gateway link in [Configuration – Gateway – Gateway Link Setting].

Enter a gateway name, local IP address, public IP address and select NAT or not.

If NAT is enabled, public IP address should be entered.

The screenshot shows a software window titled "[DIALOG]Gateway Link Setting - Change". It has a light blue title bar and a green background. The window is divided into several sections. At the top, there are fields for "User Group" (set to "UG1"), "Gateway Type" (set to "IPX-G500"), "Name" (set to "G500_SIT1"), "IP Address(for SIP register)" (set to "200.0.1"), "NAT" (set to "Enable"), "MAC Address(0)", "URL", "Login IP Address(MAT)", "IP Address(for Provision)" (set to "200.0.1"), "Public IP Address" (set to "10.251.193.108"), "MAC Address(1)", "Gateway Reconnect", and "Login Password(MAT)". Below these fields are two sections for "Survivability Users". The first section is "Survivability Users - SIP" with a list of "Selected" users (1101, 1102, 1103) and a list of "All" users (1000, 1001, 1002, 1003, 1004, 1005, 1006, 1007, 1008, 1009, 1010). The second section is "Survivability Users - FXS" with a list of "Selected" users (2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008) and a list of "All" users (2000, 2069, 2070, 2075, 2076, 2077, 2078, 2079). At the bottom of the window are buttons for "Change", "Apply", and "Close", along with a "Search" field.

2.1.2 Gateway Configuration

Configure a new gateway in [Configuration – Gateway – IPX Setting – Gateway Configuration]

2. 1. 2. 1 Basic configuration

Enter profile login ID(same with gateway name), profile login passcode. You don't need to enter IP addresses. It is not used and will be removed.

Basic Configuration	
User Group	UG1
Gateway Type	IPX-G500
TCP Link State	Connected
Profile Login ID	G500_SIT1
Survival Mode Default Route	
Country Code	
FAX Relay	Pass Through
Media Type	RTP
Dial Plan	User Group Dial Plan
Main IP Address	
Main Netmask	
Sub Gateway	
Gateway Name	G500_SIT1
Power Type	IPX-G500B (Single Power)
Profile Login Passcode	*****
Located Country	UK
Area Code	
DTMF Relay	Outband
T1/E1 Select	E1
Dial Tone	User Group Dial Tone
Main Gateway	
Sub IP Address	
Sub Netmask	

2. 1. 2. 2 Slot configuration

Enter a slot configuration and expansion configuration of the gateway. Select the option card and expansion cabinet which is installed. After the installation is completed, actual state of slot and expansion will be updated on the right side.

Slot Configuration	
Slot1 Configuration	2PRU
Slot2 Configuration	1PRU
Slot3 Configuration	2BRU
Slot4 Configuration	4FXO
Expansion1 Configuration	IPX-G520S (20FXS)
Expansion2 Configuration	None
Expansion3 Configuration	None
Expansion4 Configuration	None
Expansion5 Configuration	None
Expansion6 Configuration	None
Slot1 State	2PRU
Slot2 State	1PRU
Slot3 State	2BRU
Slot4 State	4FXO
Expansion1 State	IPX-G520S (20FXS, Single Power)
Expansion2 State	
Expansion3 State	
Expansion4 State	
Expansion5 State	
Expansion6 State	

2. 1. 2. 3 Expansion private configuration

Enter a IP address and ports of installed expansion cabinets.

[DIALOG] Gateway Configuration - Change

Basic Configuration	Slot Configuration	Expansion Private Configuration	Expansion Public Configuration	VLAN Configuration
Expansion1 Private IP Address	20.0.0.101	Expansion1 Private Gateway	20.0.0.1	
Expansion1 Private Netmask	255.255.255.0	Expansion1 Private Port	5060	
Expansion2 Private IP Address		Expansion2 Private Gateway		
Expansion2 Private Netmask		Expansion2 Private Port		
Expansion3 Private IP Address		Expansion3 Private Gateway		
Expansion3 Private Netmask		Expansion3 Private Port		
Expansion4 Private IP Address		Expansion4 Private Gateway		
Expansion4 Private Netmask		Expansion4 Private Port		
Expansion5 Private IP Address		Expansion5 Private Gateway		
Expansion5 Private Netmask		Expansion5 Private Port		
Expansion6 Private IP Address		Expansion6 Private Gateway		
Expansion6 Private Netmask		Expansion6 Private Port		

Change Apply Close

2.1.3 Network Configuration

Enter a network information in [Configuration – Gateway – IPX Setting – Gateway Network Configuration].

If you plan to use WAN interface, select Yes to [Use WAN], or No.

Then enter default gateway IP, LAN IP, LAN subnet mask, GWU IP.

IPX-G500B has 2 internal hardware unit. CMU and GWU.

LAN IP will be assigned to CMU and GWU IP will be assigned to GWU board.

Then enter slot IP addresses for optional cards.(PRI cards needs IP addresses)

If you select to use WAN, enter WAN IP address and subnet mask.

IPX-G5X0 has DHCP server. If you want to connect another devices for example IP phones to LAN and want to receive IP addresses automatically, set DHCP IP address range.

Ref) IPX-G500B has 2 GbE ports. If you want to use WAN/LAN, you have to connect WAN to GbE port 1 and LAN to GbE port 2. If you want to use LAN only, you can connect any GbE ports.

[DIALOG] Gateway Network Configuration - Change	
User Group	Gateway Name
Use WAN	Default Gateway IP
LAN IP Address	LAN Subnet Mask
GWU IP Address	Slot1 IP Address
Slot2 IP Address	Slot3 IP Address
Slot4 IP Address	WAN IP Address
WAN IP Type	DNS1 IP Address
WAN Subnet Mask	DNS3 IP Address
DNS2 IP Address	DHCP IP Address Range - End
DHCP IP Address Range - Start	
DHCP IP Lease Time (sec)	
Change Apply Close	

2.1.4 Create a analog FXS phone user

Create a analog FXS phone user of the gateway in [Configuration – User – Single phone user]. If you already have a unused FXS phone user, you can use it.

Enter extension number, name, application user id, application password, authentication user id, authentication password, profile login id, profile login passcode and PIN number. The phone type should be Analog FXS Phone.

[DIALOG] Single Phone User - Change

Basic Configuration	Protocol	Number Translation	Service	Interworking	Phone
User Group		UG1			Service Group
Location		UG1-LOC1			UG1-SG1
Extension Number		2501			Language
Mobile Phone Number					English
Application User ID		2501@ug1.scm.com			Extension Name
Authentication User ID		2501			2501
Profile Login ID		UG12501			Use Mobile Phone Number
PIN Number					None
Phone Type		Analog-FXS-Phone			Application Password
Phone Verification		None			
IP Address					Authentication Password
Use mVoIP		No			
A-A Primary Node		NODE 0			Profile Login Passcode
Change to Multi Type					
User Type					Make Mailbox
					Yes
					License Phone Type
					Analog-FXS-Phone
					MAC Address
					Private IP Address
					VMS Extension Number
					A-A Dual Registration
					Enable
					Call Appearance

Change Apply Close

2.1.5 Assign analog phone

Assign the created analog FXS phone to the slots and expansions of gateway in [Configuration – Gateway – IPX Setting – Gateway Analog Phone].

Port	Extension Number	CID Send Support	CID Type	MWI Send Support	Loop Open Release	PRS Send Support
1	2001	Enable	Bellcore	Disable	Disable	Disable
2	2002	Enable	Bellcore	Disable	Disable	Disable
3	2003	Enable	Bellcore	Disable	Disable	Disable
4	2004	Enable	Bellcore	Disable	Disable	Disable
5	2005	Enable	Bellcore	Disable	Disable	Disable
6	2006	Enable	Bellcore	Disable	Disable	Disable
7	2007	Enable	Bellcore	Disable	Disable	Disable
8	2008	Enable	Bellcore	Disable	Disable	Disable
9	2009	Enable	Bellcore	Disable	Disable	Disable
10	2010	Enable	Bellcore	Disable	Disable	Disable
11	2011	Enable	Bellcore	Disable	Disable	Disable
12	2012	Enable	Bellcore	Disable	Disable	Disable
13	2013	Enable	Bellcore	Disable	Disable	Disable
14	2014	Enable	Bellcore	Disable	Disable	Disable
15	2015	Enable	Bellcore	Disable	Disable	Disable
16	2016	Enable	Bellcore	Disable	Disable	Disable
17	2017	Enable	Bellcore	Disable	Disable	Disable
18	2018	Enable	Bellcore	Disable	Disable	Disable
19	2019	Enable	Bellcore	Disable	Disable	Disable
20	2020	Enable	Bellcore	Disable	Disable	Disable

2.1.6 Create a gateway route

Create a route information of new gateway in [Configuration – Trunk Routing – Route]

2.1.6.1 Basic configuration

Select [Register Type] to Receive REGISTER and enter port 5060.

User name is same with gateway name.

Enter the gateway IP address for proxy server, authentication user name and password.

Basic Configuration	SIP Registration	Additional SIP	Trunk Service	Interworking	Number Translation
Route Type	User Group				User Group
Route Name	G500_SIT1				Location
Register Type	Receive REGISTER				Port
User Name	G500_SIT1				Domain Name
Multiple Registration	Disable				User Number Range
Proxy Server	10.251.193.108				Secondary Proxy Server
Authentication User Name	G500_SIT1				Authentication Password
DNS					DNS2
A-A Primary Node	NODE 0				A-A Dual Registration
TIE Trunk	Normal				

2. 1. 6. 2 Additional SIP

Set [Call authentication] to disable in [Additional SIP] tab.

The screenshot shows the 'Additional SIP' tab in the 'Route - Change' dialog. The 'Call Authentication' option is set to 'Disable'.

Basic Configuration	SIP Registration	Additional SIP	Trunk Service	Interworking	Number Translation
Protocol Type	UDP	URI Type	SIP		
TLS Connection	Reuse	TLS Connection Reconnection	Disable		
NAT Traversal	Disable	Call Authentication	Disable		
SIP P-Asserted-ID Type	None	Use Request URI User Info	Disable		
Contact Header Format	IP Address	PRACK Support	Disable		
Keep To-Tag in Response	Disable	Multi 183 Message Block	Disable		
Reliable 18x Response	Disable	MOH SIP Media Mode	Send/Receive		
Refer Relay	Disable	302 Response	Disable		
DNS Query within Call	Enable				

2.1.7 FXO/SIP/BRI/PRI trunk routing

Create a route information of FXO/SIP/BRI/PRI trunks which is located in the gateway in [Configuration – Trunk Routing - Route].

2. 1. 7. 1 Basic configuration

Set [Register Type] to Receive REGISTER and enter port 5060.

Enter user name which is unique for this trunk.

Then enter the gateway IP address for proxy server, authentication user name and password.

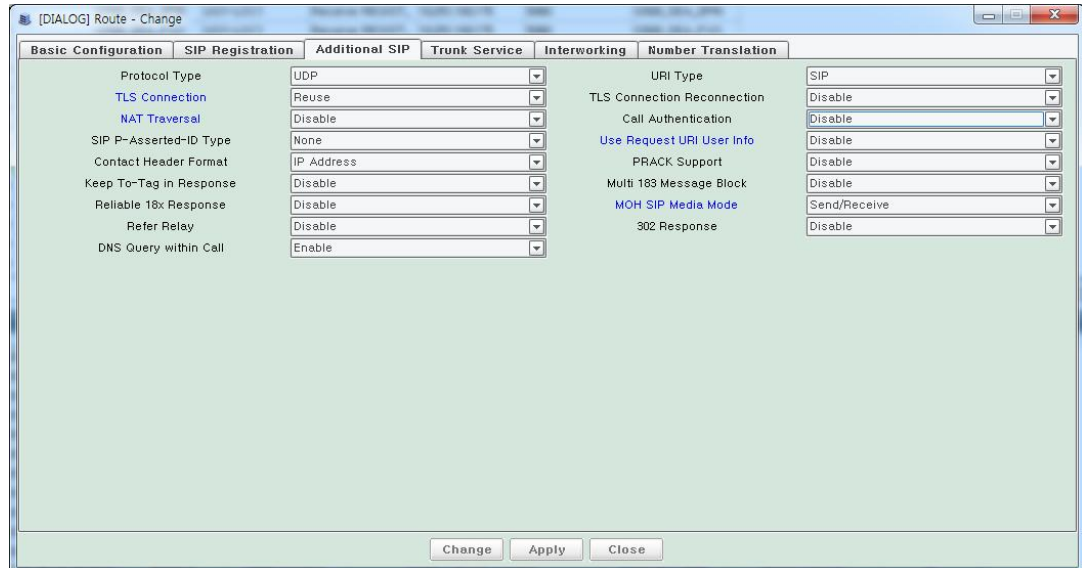
You can also set access code for this trunk route.

The screenshot shows the 'Basic Configuration' tab in the 'Route - Change' dialog. The 'Register Type' is set to 'Receive REGISTER' and the 'Port' is set to '5060'.

Basic Configuration	SIP Registration	Additional SIP	Trunk Service	Interworking	Number Translation
Route Type	User Group	User Group	UG1		
Route Name	G500_SIT1_1PRI	Location	UG1-LOC1		
Register Type	Receive REGISTER	Port	5060		
User Name	G500_SIT1_1PRI	Domain Name	ug1.scm.com		
Multiple Registration	Disable	User Number Range			
Proxy Server	10.251.193.108	Secondary Proxy Server			
Authentication User Name	G500_SIT1_1PRI	Authentication Password	*****		
DNS		DNS2			
A-A Primary Node	NODE 0	A-A Dual Registration	Enable		
TIE Trunk	Tie				

2.1.7.2 Additional SIP

Set [Call authentication] to disable in [Additional SIP] tab.



2.1.8 Analog Trunk

If you have FXO card, you have to set it in [Configuration – Gateway – IPX Setting – Gateway Analog Trunk]

Select the gateway and press [Change] button.

Then select the slot you want to set which is 4FXO card is installed

Assign the created FXO trunk route to the route name and the other information, For example, CID receive support and Ring destination number.



2.1.9 SIP Trunk

If you want to set SIP trunks, you have to set it in [Configuration – Gateway – IPX Setting – Gateway SIP Trunk]

IPX-G5X0 Series supports 4 sip carriers.

Ref) SIP server should be entered as IP addresses not domain name. Supporting domain name is now under developing and will be available soon.

2.1.10 PRI Trunk

To use 1PRI/2PRI card, you have to set it in [Configuration – Gateway – IPX Setting – Gateway PRI Trunk]

Select the gateway to edit and press [Change] button.

Then select the slot which is PRI card is installed.

Assign the created PRI trunk route to the route name and select the network mode (TE : terminal mode or NT : network mode)

Port	Link State	Network Mode	Route Name	Incoming Mode	Calling Party Nu...	Calling Party Nu...	Called Party Nu...
1	Abnormal	NT	G500_SIT1_2PRI1	DID	Unknown	Unknown	Unknown
2	Abnormal	NT	G500_SIT1_2PRI1	DID	Unknown	Unknown	Unknown

2.1.11 BRI Trunk/Station

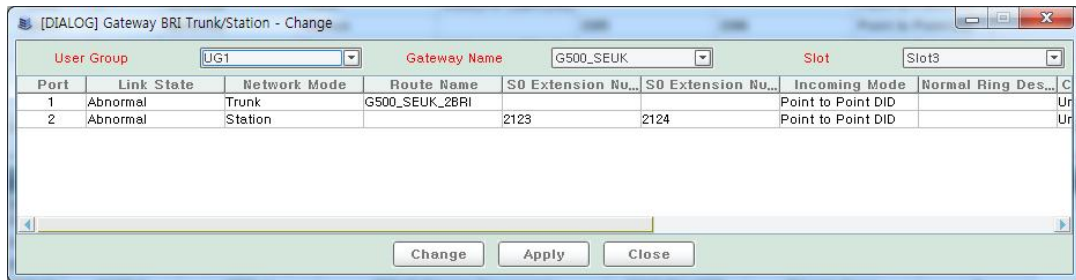
If you want to set 2BRI card, you have set it in [Configuration – Gateway – IPX Setting – Gateway BRI Trunk/Station]

Select the gateway to edit and press [Change] button.

Then select the slot which is 2BRI card is installed.

For BRI trunk, assign the created BRI trunk route to the route name and select the network mode to Trunk.

For station, select the network mode to Station and enter S0 Extension number.



2.2 IPX-G5X0 Series Configuration

After SCME configuration is completed, you have to configure IPX-G5X0 series.

For IPX-G500B(Base cabinet) you have to set IP address of base cabinet, IP address of SCME which is connected and gateway name.

For IPX-G520S/G540S you have to set IP address of expansion cabinet, and sequence number

2.2.1 Connecting Serial console

To connect serial console, please do the followings

- Connect serial cable to the console port of the system.
- Run serial terminal program(for example, hyperterminal or etc) on you PC and set baud rate to 38,400bps
- Enter ID: admin, Password: samsung to log on.
- Enter to ' cli' to set basic configuration.

```
Welcome to Samsung IPX-G500
IPT-NPU login: admin
Password:
```

```
#####
#                                                    #
#                                                    #
#                  Samsung IPTGW-CMU                #
#                                                    #
#      Enter 'cli' to set basic configuration          #
#                                                    #
#                                                    #
#####
S A M S U N G   - I P T G W
-----
admin@IPT-NPU:~#
```

2.2.2 IPX-G500B basic configuration

- Connect the serial cable to the console port of IPX-G500B.(baud rate:38,400 bps)
- Enter ID and password to log on.
- Enter “ cli”
- Select ‘ 1. Setup basic configuration’ .
- According to the prompt, select the network mode. LAN or NAT
- If you select NAT
 - Enter WAN IP address, gateway and subnet mask of IPX-G500B.
 - Enter the LAN IP address, gateway and subnet mask of IPX-G500B
- If you select LAN
 - Enter the LAN IP address, gateway and subnet mask of IPX-G500B.
- Enter SCM Express IP address which is connected.
- Enter the gateway name. This should be same with the SCME configuration.
- After all informations are entered, it will ask to reset the system to apply the changes. To reboot the system enter ‘ yes’ , otherwise enter ‘ no’

[NAT]

```
#####          Please enter network mode of this GW          #####
1. Enter Networkmode [0:LAN / 1:NAT]    (Enter Key : NAT) :

#####          Please enter [WAN IP/Gateway/Subnet Mask] of this GW          #####
1. Enter WAN IP Address    (Enter Key : 10.251.0.10 ) :
2. Enter Gateway Address   (Enter Key : 10.251.0.1   ) :
3. Enter WAN IP Subnet Mask (Enter Key : 255.255.255.0 ) :

#####          Please enter [LAN IP/Subnet Mask] of this GW          #####
1. Enter LAN IP Address    (Enter Key : 192.168.0.1   ) :
2. Enter LAN IP Subnet Mask (Enter Key : 255.255.255.0 ) :

#####          Please enter the IP Address of SCME          #####
1. Enter SCME IP Address (Enter Key : 10.251.0.100 ) :

#####          Please enter the name of this GW (Max 30char)          #####
1. Enter Name of this GW (Enter Key : G500_default   ) :

End of Configuration. To apply it, please restart the system.
Do you want to restart? (yes/no) :
```

[LAN]

```
#####          Please enter network mode of this GW          #####
1. Enter Networkmode [0:LAN / 1:NAT]    (Enter Key : NAT) : 0
```

```

##### Please enter [LAN IP/Gateway/Subnet Mask] of this GW #####
1. Enter LAN IP Address (Enter Key : 192.168.0.10 ) :
2. Enter Gateway Address (Enter Key : 192.168.0.1 ) :
3. Enter Subnet Mask (Enter Key : 255.255.255.0 ) :

##### Please enter the IP Address of SCME #####
1. Enter SCME IP Address (Enter Key : 192.168.0.100 ) :

##### Please enter the name of this GW (Max 30char) #####
1. Enter Name of this GW (Enter Key : G500_default ) :

End of Configuration. To apply it, please restart the system.
Do you want to restart? (yes/no) :

```

2.2.3 IPX-G520S/540S(ECU) basic configuration

- Connect the serial cable to the console port of IPX-G520S/540S.(baud rate:38,400bps)
- Enter ID and password to long on.
- Enter “ cli” .
- Select ‘ 1. Setup basic configuration’ .
- According the prompt, enter IP address of ECU, gateway, subnet mask.
- Enter the LAN IP address of IPX-G500B which this expansion cabinet will be connected.
Ref) IPX-G520S/G540 LAN port should be connected with the same network of IPX0-G500B LAN.
- Enter the sequence number from 1 to 6 of this expansion cabinet. It should be unique in one gateway.
- After all informations are entered, it will ask to reset the system to apply the changes. To reboot the system enter ‘ yes’ , otherwise enter ‘ no’

```

##### Please enter [IP/Gateway/Subnet Mask] of this ECU #####
1. Enter ECU IP Address (Enter Key : 10.251.0.11 ) :
2. Enter Gateway Address (Enter Key : 10.251.0.1 ) :
3. Enter Subnet Mask (Enter Key : 255.255.255.0 ) :

##### Please enter the IP Address of CMU #####
1. Enter CMU IP Address (Enter Key : 10.251.0.10 ) :
1. Enter this ECU number (Enter Key : 1) :

End of Configuration. To apply it, please restart the system.
Do you want to restart? (yes/no) :

```

2.3 Update Software

2.3.1 Update with SCM Administrator

You can update the IPX-G5X0 series software with SCM Administrator

2.3.1.1 File Upload

Before updating the gateway software, you have to upload the software to SCME.

You can upload it in [Configuration – Gateway – IPX Setting – Gateway File Upload]

Select the board type and press [Search] button to assign software, then press [Send] button to upload it.

Board type is like the followings.

IPX-SYS : IPX-G500B software

IPX-ECU : IPX-G520S/G540S software

IPX-PRI : 1PRI/2PRI card software

The screenshot displays the SCM Administrator web interface. The top navigation bar includes icons and labels for PERFORMANCE, CONFIGURATION, MANAGEMENT, VM/AA, and CONFERENCE. The left sidebar is titled 'CONFIGURATION' and lists various settings under 'IPX Setting', with 'Gateway File Upload' highlighted. The main content area is titled 'Gateway File Upload' and contains the following fields and buttons:

- Board Type:** A dropdown menu currently showing 'IPX-SYS'.
- Current Version:** A text input field containing '1.2.0.0'.
- Board Image File:** A text input field for the software file path.
- Search:** A button to search for the software file.
- Send:** A button to upload the software.

2. 3. 1. 2 Upgrade Configuration

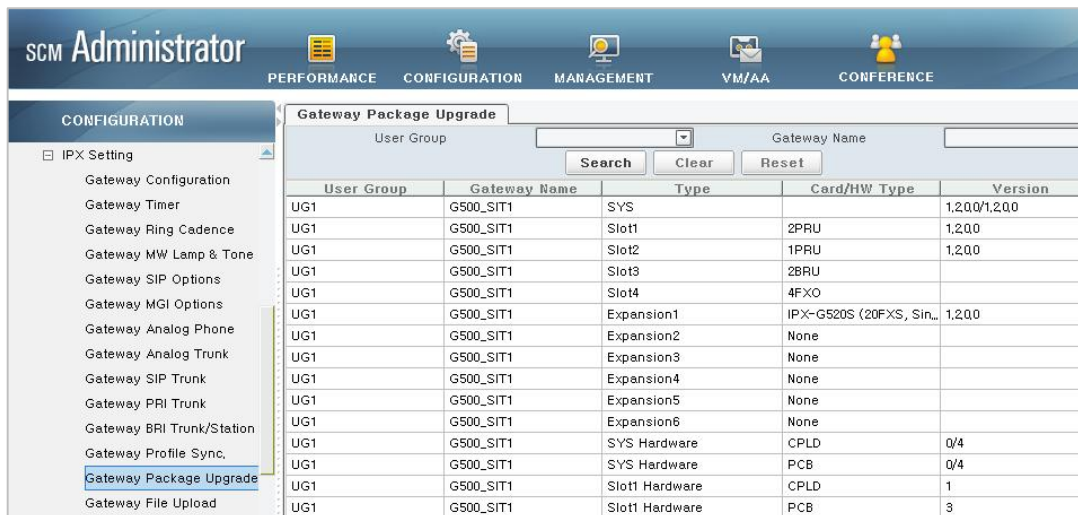
Set upgrade configuration in [Configuration – Gateway – IPX Setting – Gateway Upgrade Configuration]. Enter software version to update, the protocol to transfer(tftp or ftp), port, ID, password.

The screenshot displays the SCM Administrator web interface. The top navigation bar includes tabs for PERFORMANCE, CONFIGURATION, MANAGEMENT, VM/AA, and CONFERENCE. The left sidebar shows the CONFIGURATION menu with a tree view under IPX Setting. The main content area is titled 'Gateway Upgrade Configuration' and contains a table with configuration parameters.

Name	Value
Gateway Version (IPX-G500)	1.2.0.0
Gateway Upgrade Protocol	tftp
Gateway Upgrade Public Zone Protocol	tftp
Gateway Upgrade Port	
Gateway Upgrade Public Zone Port	
Gateway Upgrade FTP Login ID	
Gateway Upgrade FTP Login Password	*****

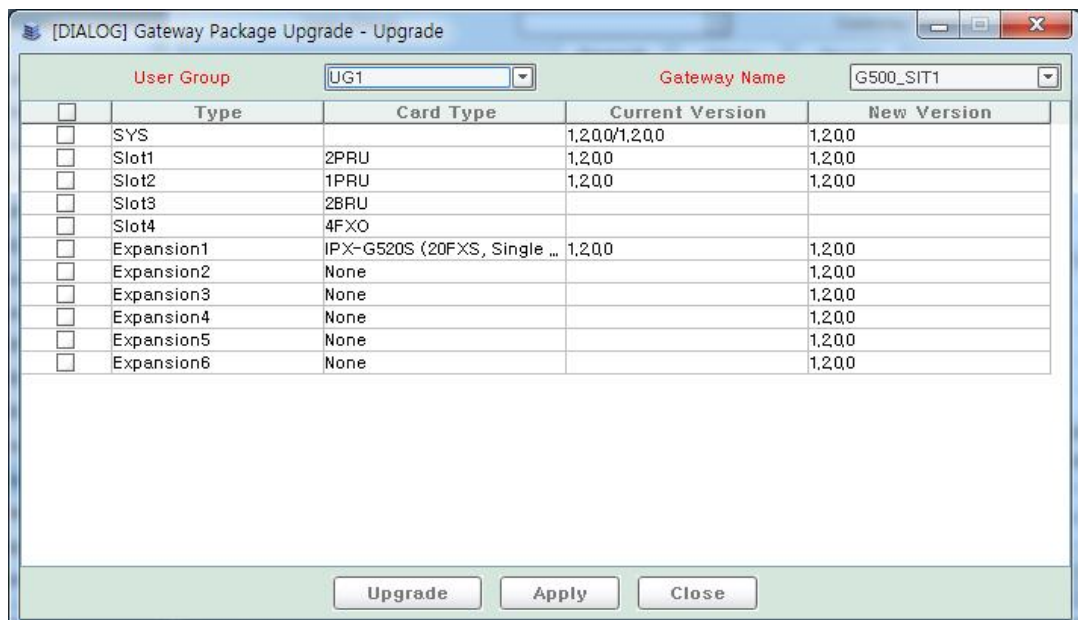
2. 3. 1. 3 Package Upgrade

- You can see the software/hardware version in [Configuration – Gateway – IPX Setting – Gateway Package Upgrade]



User Group	Gateway Name	Type	Card/HW Type	Version
UG1	G500_SIT1	SYS		1.2.0.0/1.2.0.0
UG1	G500_SIT1	Slot1	2PRU	1.2.0.0
UG1	G500_SIT1	Slot2	1PRU	1.2.0.0
UG1	G500_SIT1	Slot3	2BRU	
UG1	G500_SIT1	Slot4	4FXO	
UG1	G500_SIT1	Expansion1	IPX-G520S (20FXS, Sin...	1.2.0.0
UG1	G500_SIT1	Expansion2	None	
UG1	G500_SIT1	Expansion3	None	
UG1	G500_SIT1	Expansion4	None	
UG1	G500_SIT1	Expansion5	None	
UG1	G500_SIT1	Expansion6	None	
UG1	G500_SIT1	SYS Hardware	CPLD	0/4
UG1	G500_SIT1	SYS Hardware	PCB	0/4
UG1	G500_SIT1	Slot1 Hardware	CPLD	1
UG1	G500_SIT1	Slot1 Hardware	PCB	3

- Select the target to update software and press [Change] button. Then check the target to update software and press [Upgrade] or [Apply] button.
- Then the gateway will be updated and reboot automatically



	Type	Card Type	Current Version	New Version
☐	SYS		1.2.0.0/1.2.0.0	1.2.0.0
☐	Slot1	2PRU	1.2.0.0	1.2.0.0
☐	Slot2	1PRU	1.2.0.0	1.2.0.0
☐	Slot3	2BRU		
☐	Slot4	4FXO		
☐	Expansion1	IPX-G520S (20FXS, Single ...	1.2.0.0	1.2.0.0
☐	Expansion2	None		1.2.0.0
☐	Expansion3	None		1.2.0.0
☐	Expansion4	None		1.2.0.0
☐	Expansion5	None		1.2.0.0
☐	Expansion6	None		1.2.0.0

2.3.2 Manual Update

If it is impossible to update software with SCM Administrator, you can update gateway software manually.

2.3.2.1 Preparing manual update

First, you need to extract gateway software.

IPX-SYS package has CMU package(ipx-sysn-XXXX.img) and GWU package(ipx-sysg-XXXX.tar).

IPX-PRI package has 1PRI package(ipx-pri1-XXXX.tar) and 2PRI package(ipx-pri2-XXXX.img).

IPX-ECU package only has ECU package(ipx-ecu-XXXX.tar)

Then you have to prepare ftp server and put the software to it that the gateway can download it.

Ref) For manual update, you have to access GWU board.

To access it, you need Y type connector to divide the console port of IPX-500B. Console port 1 is CMU and 2 is GWU.

2.3.2.2 IPX-G500B(CMU) software update

- Connect the serial cable to the console port 1 of IPX-G500B.(baud rate: 38,400 bps)
- Enter id and password to log on.
- Change directory that the software can be downloaded.(For example: “ cd /tmp”)
- Enter the followings to download and upgrade the software.

```
admin@IPT-NPU:/tmp#wget ftp://ID:PASSWORD@FTP Server IP/CMU Package Name
admin@IPT-NPU:/tmp#upgrade [CMU Package Name]
admin@IPT-NPU:/tmp#reboot
```

2.3.2.3 IPX-G500B(GWU) software update

- Connect the serial cable to the console port 2 of IPX-G500B.(baud rate: 38,400 bps)
- Enter id and password to log on.
- Change directory that the software can be downloaded.(For example: “ cd /tmp”)
- Enter the followings to download and upgrade the software.

```
admin@IPT-GWU:/tmp#wget ftp://ID:PASSWORD@FTP Server IP/GWU Package Name
admin@IPT-GWU:/tmp#upgrade [GWU Package Name]
admin@IPT-GWU:/tmp#reboot
```

2.3.2.4 IPX-G520S/540S(ECU) software update

- Connect the serial cable to the console port of IPX-G520S/540S.(baud rate: 38,400 bps)

- Enter id and password to log on.
- Change directory that the software can be downloaded.(For example: “ cd /tmp”)
- Enter the followings to download and upgrade the software.

```
admin@IPT-ECU:/tmp#wget ftp://ID::PASSWORD@FTP Server IP/ECU Package Name
admin@IPT-ECU:/tmp#upgrade [ECU Package Name]
admin@IPT-ECU:/tmp#reboot
```

2. 3. 2. 5 1PRI/2PRI software update

- Connect the serial cable to the console port of 1PRI/2PRI card.(baud rate: 38,400 bps)
- Enter id and password to log on.
- Change directory that the software can be downloaded.(For example: “ cd /tmp”)
- Enter the followings to download and upgrade the software.

```
admin@IPT-PRU:/tmp#wget ftp://ID::PASSWORD@FTP Server IP/PRI Package Name
admin@IPT-PRU:/tmp#upgrade [PRI Package Name]
admin@IPT-PRU:/tmp#reboot
```

2.4 Factory Reset

You can initialize the gateway and restore it to factory configuration

- Connect the serial cable to the console port of the gateway to initialize.(baud rate: 38,400 bps)
- Enter id and password to log on.
- Enter “ cli” .
- Select ‘ 4. Factory Reset’ .
- It will ask again to confirm the selection. Enter ‘ yes’ .

```
#####  
#                                     #  
#          GW Setup Manager          #  
#                                     #  
#####  
1. Setup basic configuration  
2. Show current configuration  
3. Show version  
4. Factory Reset  
5. Exit  
Please select the number : 4  
  
This will clear all configurations. Do you want to continue? (yes/no) :
```