OfficeServ NMS User Guide PART III. Data Function Management



- CHAPTER 1. System Configuration Management (Data Part)
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CHAPTER 1. System Configuration Management (Data Part)

This chapter describes configuration management window and function related to data.

Configuration management is used to search, change, add, and delete configuration information of NE. An operator can check the current configuration status and set or control NE through a function provided by Configuration Management.



Figure 1.1 Configuration Management Window



Figure 1.2 Configuration Management Set Window

Number	Description
1	Target
2	[Get] Button
3	Result Table
4	[Set] Button of Configuration Management Window
6	Set Window of Parameter
6	[Set] Button of Configuration Management Set Window



This chapter describes the items related to the data for 'Port Config' and 'Data Config' in system configuration management. For the description of the other items, refer to 'Chapter 1. System Configuration Management' of Part II.

Port Config

Port management is used to add, change and remove port information of OfficeServ Series devices.

Data Port Management Function (GPLIM/GSIM/WIM Only)

The user can set the function for ports and retrieves the information on the ports.

The function is performed in order of [Sys Config] \rightarrow [Port Conf] \rightarrow [Data Port].

		n									
PortNo											
					Get						
[Data	Port]								Total Cou	nt:14	1/2 00
	PortNo	ActiveOption	LinkStatus	FlowCtrl	RateIn	RateOut	Nego	Speed	Duplex	Securily	Priority
0	1	disable	aff	false	0	2	force	10Mbps	ful	off	off
(3)	2	disable	att	false	0	0	auto	100Mbps	ful	off	off
0	3	enable	off	false	U	U	auto	100Mbps	full	off	low
0	4	enable	aff	true	0	0	autos	100Mbps	ful	00	aff
0	5	enable	aff	true	0	0	auto	100Mbps	full	off	off
0	6	enable	aff	truc	0	0	auto	100Mbps	ful	off	off
0	7	enable	an	true	0	0	auto	100Mbps	ful	off	off
0	8	enable	aff	true	0	0	auto	100Mbps	ful	cff	off
0	9	enable	uff	true	0	0	autu	100Mbps	full	off	off
0	10	enable	off	true	0	0	auto	100Mbps	full	off	off

Figure 1.3 Data Port Management Window (GPLIM/WIM)

rget	/Da	ita/gsim											
Po	rtNo												
[Dal	ta Port J						Girl						
	PortNo	ActiveOption	LinkStatus	Jumbo	FlowCtrlTx	FlowCtriRx	Nego	Speed	Duplex	StormCtriBcast	StormCtrlMcast	StormCtrIDLF	TGID
0	1	disable	off	unchecked	unchecked	unchecked	auto	1000Mbps	full	-1	+1	•1	Ĥ
0	2	enable	off	checked	checked	unchecked	furce	1000Mbps	full	22	222	2222	0
0	э	enable	off	unchecked	unchecked	unchecked	auto	1000Mbps	full	-1	-1	-1	0
0	4	enable	on	unchecked	unchecked	unchecked	auto	1000Mbps	full	-1	-1	-1	0
0	5	enable	on	unchecked	unchecked	unchecked	auto	1000Mbps	full	-1	-1	-1	U
0	6	enable	off	unchecked	unchecked	unchecked	auto	1000Mbps	full	-1	-1	-1	0
0	7	enable	off	unchecked	unchecked	unchecked	auto	1000Mbps	full	-1	-1	-1	0
0	0	enable	off	unchecked	unchecked	unchecked	auto	1000Mbps	full	-1	-1	-1	0
0	9	enable	off	unchecked	unchecked	unchecked	auto	1000Mbps	full	1	-1	-1	0
	10	enable	off	unchecked	unchecked	unchecked	auto	1000Mbos	full	-1	-1	-1	0

Figure 1.4 Data Port Management Window (GSIM)

ActiveOption	disable	FlowCtrl	false
RateIn	0	RateOut	2
Nego	force	Speed Speed	10Mbps
Duplex	full	Security	off
Priority	off		

Figure 1.5 Data Port Management Set Window (GPLIM/WIM)

ActiveOption	enable	Jumbo	unchecked
FlowCtrlTx	unchecked	FlowCtrlRx	unchecked
Nego	auto	Speed	1000Mbps
Duplex	full	StormCtrlBcast	-1
StormCtrlMcast	-1	StormCtrlDLF	-1
	-		

Figure 1.6 Data Port Management Set Window (GSIM)

The GPLIM/WIM parameters displayed in the '**Data Port**' window are described as follows:

Parameter	Description
Port No.	Port number
ActiveOption	Sets whether to user a port or not
LinkStatus	Link Status of current port
FlowCtl	Sets whether to user the function for flow control. The flow control is processed according to the value set at RateIN/RateOut
RateIn	Controls the flow to be setting the entry rate by ports. The unit is the rate (%) of the port speed. If the functions of FlowCtl is 'False', the value is set as '0'
RateOut	Controls the flow to be setting the exit rate by ports. The unit is the rate (%) of the port speed. If the functions of FlowCtl is 'False', the value is set as '0'
Nego	 Negotiation Auto: Adjust the speed through a negotiation with the counter party. Force: Sets the speed without a negotiation. Sets the negotiation item as 'Force' if setting the duplex items as 'Full' Nway Force: Depends capability when it's negotiated.
Speed	Selects the speed as 10/100/1000 Mbps.
Duplex	Selects 'Full' (two way service) or 'Half' (One way server)
Security	Set whether to allow updating the MAC Address Table
Priority	Sets as 'Low' or 'High', the priority is set as 'Low' or 'High' regardless of the configuration value of QoS bit for the packet entered to the relevant port.

The GSIM/GSIMT parameters displayed in the '**Data Port**' window are described as follows:

Parameter	Description
Port No.	Port number
ActiveOption	Set whether to use a port or not
LinkStatus	Link Status of current port

Parameter	Description
Jumbo	It's used for activation (Checked)/inactivation (Unchecked) of jumbo Frame Setup. The checked port allows the forwarding for the frame up to 9216 Bytes.
FlowCtl Tx	FlowCtITx Setting enables to set the Tx of Pause frame in overload at the corresponding port.
FlowCtl Rx	FlowCtIRx setting enables to respond as following the instruction of received Pause Frame.
Nego	 Negotiation Auto: Adjusts the speed through a negotiation with the counter party. Force: Sets the speed without a nego. Sets the nego. item as 'Force' if setting the Duplex item as 'Full'
Speed	Selects the speed as 10/100/1000 Mbps.
Duplex	Selects 'Full' (two-way service) or 'Half' (one-way service)
StormCtlBcast	Sets stromControl. It's used to set the packet per seconds (pps) to permit Forwarding or Flooding for BroadCasting. The value between 0 and 99999 can be set.
StormCtlMcast	Sets stromControl. It's used to set the packet per seconds (pps) to permit Forwarding or Flooding for MultiCasting. The value between 0 and 99999 can be set.
StormCtIDLF	Sets stromControl. It's used to set the packet per seconds (pps) to permit Forwarding or Flooding for Destination Lockup Failure (DLF). The value between 0 and 99999 can be set.
TGID	When a port is a member of static trunking or LACP Aggregator, It displays the Trunk Group Identity (TGID) of Aggregator.

(Continued)

Searching Data Port

- Select the target IP from the Tree viewer. The selected object is displayed in the 'Target' field (1).
- 2. Clicking the [Search] button (②) searches the information of each cabinet.
- **3.** Then, the retrieval result is displayed in the result table (③).

Changing Data Port

- 1. Choose Row which is revised, and Press set button (4).
- Revise the value of parameters (5) which is changed, and Press set button (6).
- Then, the retrieval result is displayed in the result table (3).

Filter Address

Use Mac Filtering to block unwanted traffics. Enter the target MAC Address to block the target packet in the switch. Note that MAC is the destination address of the packet sent to the switch port.

This function is performed in order of [Sys Config] \rightarrow [Port Conf.] \rightarrow [Filter Address].

arget	/Data/wim			
Filtert	10			
			040	
	[Eilter Address]			
	[Filter Address]	FilterNo	Address	VianID

Figure 1.7 Filter Address Management Window

FilterNo	1		
Address	þ0:00:00:00:00:0a	VlanID	0
	Set	Close	

Figure 1.8 Filter Address Management Set Window

The GPLIM/GPLIMT parameters displayed in the '**Filter Address**' window are described as follows:

Parameter	Description
FilterNo	Filter No
Address	Target Mac Address to block unwanted traffics
VlanID	Virtual LAN Identification

Searching Filter Address

- Select the target IP from the Tree viewer. The selected object is displayed in the 'Target' field (1).
- 2. Clicking the [Search] button (2) searches the information of each cabinet.
- **3.** Then, the retrieval result is displayed in the result table (③).

PoE Management (GPLIM Only)

This function is performed in order of [Sys Config] \rightarrow [Port Conf.] \rightarrow [PoE].

arget	/25th_L/	b_Data/New	GPLIM										
								Get					
	I Po	1											
	[Pol	SW Version	Dev0 Version	Dev1 Yersion	Dev2 Version	Power Supply Voltage	Power Consumption	Power Max Shutdown Yoltage	Power Min Shutdown Voltage	Power Info.	Power Manage Mode	Disconnect Method	Capacitor Detection

Figure 1.9 PoE Management Window

Power Manage Mode	static	
Disconnect Method	accessDeny	
Capacitor Detection	enable	

Figure 1.10 PoE Management Set Window

The parameters displayed in the 'POE' window are described as follows:

Parameter	Description
SW Version	Software Version
Dev0Version	Version for Dev0
Dev1Version	Version for Dev1
Dev2Version	Version for Dev2
Power Supply Voltage	Power Supply Voltage
Power Consumption	Power Consumption
Power Max Shutdown Voltage	Power Maximum Shutdown Voltage
Power Min Shutdown Voltage	Power Minimum Shutdown Voltage
Power Info.	Power Information
Power Manage Mode	Power Manage Mode
Disconnect Method	System Masks Disconnect Method
Capacitor Detection	System Masks Capacitor Detection

Searching PoE

- Select the target IP from the Tree viewer. The selected object is displayed in the 'Target' field (1).
- 2. Clicking the [Search] button (2) searches the information of each cabinet.
- **3.** Then, the retrieval result is displayed in the result table (3).

Changing PoE

- 1. Choose Row which is revised, and Press set button (4).
- 2. Revise the value of parameters (5) which is changed, and Press set button (6).
- 3. Then, the retrieval result is displayed in the result table (3).

PoE Conf. Management (GPLIM Only)

This function is performed in order of [Sys Config] \rightarrow [Port Conf.] \rightarrow [PoE Conf.].

/25th_Lab_Data/New	SPLIM			
[PoE Conf.]		Get	Total Cou	int : 14 1 / 2 🔯
	portConfPort	PowerOption	PowerLimit	Priority
0	1	1	15000	critical
0	2	2	16800	low
0	3	2	16800	low
0	4	2	16800	low
0	5	2	16800	low
0	6	2	16800	low
0	7	2	16800	low
0	8	2	16800	low
0	9	2	16800	low
0	10	2	16800	low

Figure 1.11 PoE Conf. Management Window

portC	onfPort	1	
PowerOption	disable	PowerLimit	15000
Priority	critical		
	Se	t Close	

Figure 1.12 PoE Conf. Management Set Window

The parameters displayed in the 'POE Conf' window are described as follows:

Parameter	Description
PortConfPort	Port Configuration number
PowerOption	Power Option
PowerLimit	Power Limit
Priority	Priority

Searching PoE Conf

- Select the target IP from the Tree viewer. The selected object is displayed in the 'Target' field (1).
- 2. Clicking the [Search] button (2) searches the information of each cabinet.
- **3.** Then, the retrieval result is displayed in the result table (3).

Changing PoE Conf

- 1. Choose Row which is revised, and Press set button (4).
- 2. Revise the value of parameters (5) which is changed, and Press set button (6).
- 3. Then, the retrieval result is displayed in the result table (3).

Mac Forward Management Function (GSIM Only)

This function is performed in order of [Sys Config] \rightarrow [Port Conf.] \rightarrow [Mac Forward].

arget /Data/g	im					
lac Address	[
			Get			
					1.C	1 / AF 🕅
[Mac Po	rward j		No. 844-0-0	Total	ar count : 341	1 / 35
1	Port	Vian	Mac Address	Мас Туре	Mac Learn	туре
0	4	1	00:00:50:35:2c:9e	unicast	dynan	1iC
0	4	1	00:00:50:3c:bc:cb	unicast	dynan	nic
0	4	1	00:00:f0:6f:ac:dd	unicast	dynan	nic
0	4	1	00:00:f0:6f:b0:6d	unicast	dynan	nic
0	4	1	00:00:f0:6f:b1:3a	unicast	dynan	nic
0	4	1	00:00:f0:6f:b1:46	unicast	dynan	nic
0	4	1	00:00:f0:72:1e:03	unicast	dynan	nic
Ö	4	1	00:00:f0:72:67:dd	unicest	dynan	nic
		1	00:00:f0:74:1a:94	unicast	dynan	tic
0						

Figure 1.13 Mac Forward Management Window

The parameters displayed in the '**Mac Forward**' window are described as follows:

Parameter	Description
Port	Port
Vlan	VLAN
Mac Address	MAC Address
Мас Туре	Мас Туре
Mac Learn Type	Learn Type for MAC

Searching Mac Forward

- Select the target IP from the Tree viewer. The selected object is displayed in the 'Target' field (1).
- 2. Clicking the [Search] button (2) searches the information of each cabinet.
- 3. Then, the retrieval result is displayed in the result table (3).

Data Config

Community Management

Community Management function is used to search the configuration information related with the IP address of MGI board.

This function is performed in order of [Configuration Management] \rightarrow [Data Config] \rightarrow [Community].

				Get			
[Comm	unity]						
	Index	Name	IPVer	IPv4 Network	IPv6 Network	Netmask	Access
0	1	public	ipVersion4	0.0.0.0		0	readOnly
0	2	private	ipVersion4	127.0.0.1		0	readWrite
0	3	OfficeServ	ip/version4	0.0.0		0	readOnly
O	4	OfficeServ70	ipVersion4	0.0.0.0		0	readWrite

Figure 1.14 Community Management Window



Figure 1.15 Community Management Add Window

(2) confirm	isg
Do you want to delete?	
OK Clos	e

Figure 1.16 Community Management Add Window

Parameter	Description
Index	Sequence Number
Name	Community Name
IPVer	IP Address Version Information (IPv4/IPv6)
IPv4Network	IPv4 Address of NMS Server for querying or updating information
IPv6Network	IPv6 Address of NMS Server for querying or updating information
Netmask	Network mask
Access	Access Permission (read-only/read-write)

The parameters displayed in the '**Community**' window are described as follows:

Searching Community

- Select the target IP from the Tree viewer. The selected IP is displayed in the 'Target' field (1).
- 2. Clicking the [Search] button (③) searches the information of each cabinet and slot.
- 3. Then, the retrieval result is displayed in the result table (4).

Adding Community

- 1. Press add button (4).
- 2. Revise the value of parameters (5) which is added, and Press set button (6).
- 3. Then, the retrieval result is displayed in the result table (3).

Deleting Community

- 1. Choose Row which is deleted, and Press Delete button (4).
- 2. The confirm window will be displayed if clicking the **[OK]** button (**4**).
- 3. Then, the execution result is reflected and displayed on the result table (3).

Trap Server Management

Trap Server Ch. Management is used to manage the channel information of MGI board.

This function is performed in order of [Configuration Management] \rightarrow [Data Config] \rightarrow [Trap Server].

arget	/Data/gl	limp					
Index							
					Set		
		-					
	[Trap S	erver]	IPVer	IPud Address	IPu6 Address	Port	Community Name
	0	1	ioVersion4	10.89.29.50	in to Address	11162	OfficeServ

Figure 1.17 Trap Server Management Window



Figure 1.18 Trap Server Management Add Window



Figure 1.19 Trap Server Management Delete Window

The parameters displayed in the '**Trap Server**' window are described as follows:

Parameter	Description
Index	Sequence Number
IPVer	IP Address Version Information (IPv4/IPv6)
IPv4 Address	IPv4 Address of NMS Trap Server for getting Events
IPv6 Address	IPv6 Address of NMS Trap Server for getting events
Port	Port Number of NMS Trap Server for getting events
Community Name	Community Name for communication

Searching Trap Server

- Select the target IP from the Tree viewer. The selected IP is displayed in the 'Target' field (1).
- 2. Clicking the [Search] button (③) searches the information of each cabinet and slot.
- **3.** Then, the retrieval result is displayed in the result table (**4**).

Adding Trap Server

- 1. Press add button (4).
- Revise the value of parameters (5) which is added, and Press set button (6).
- 3. Then, the retrieval result is displayed in the result table (3).

Deleting Trap Server

- 1. Choose Row which is deleted, and Press Delete button (4).
- 2. The confirm window will be displayed if clicking the [OK] button (4).
- 3. Then, the execution result is reflected and displayed on the result table (3).



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CHAPTER 2. Switch Management

This chapter describes switch management window and function of OfficeServ NMS.

The Switch management is to manage and control the configurations for using switch cards.



Figure 2.1 Switch Management Window



Figure 2.2 Switch Management Set Window

Number	Description
1	Target Field of Switch Management Window
2	[Get] Button of Switch Management Window
3	Result Table of Switch Management Window
4	[Set] Button of Switch Management Window for pop-up set-window
5	Set parameters of Switch Management Set Window
6	[Set] Button of Switch Management Set Window for changing the values

IGMP Snooping

IGMP Snooping Management (GPLIM/GSIM/WIM Only)

This function allows retrieving and setting up parameters of IGMP Snooping.

This function is performed in order of [Switch] \rightarrow [IGMP Snooping] \rightarrow [IGMP Snooping].

Target	/NewOfficeServ/NewGF	PLIM			
			Get		
			-		
[IGMP Snoopin	11	Global Status		Global Priority	
0		disable		disable	

Figure 2.3 IGMP Snooping Management Window

Parameters displayed on the '**IGMP Snooping**' menu window are described as follows:

Parameter	Description
Global Status	Set Global Status (enable/disable)
Global Priority	Set Global Priority (enable/disable)

Retrieving IGMP Snooping

- Select the target object to perform a function from Tree Viewer.
 The selected object is displayed on the 'Target' field (1) of the window.
- 2. Click the [Retrieve] button (2) to retrieve information on SIP Phone Mgmt.
- **3.** The retrieval result is displayed on the result table (③) in the window.

Changing IGMP Snooping

- 1. Revise the value of parameters which is changed, and Press set button (4).
- 2. Then, the retrieval result is displayed in the result table (3).

Authentication

Pae System Management (GPLIM/GSIM/WIM Only)

This function allows retrieving and setting up Pae system parameters.

This function is performed in order of [Switch] \rightarrow [Authentication] \rightarrow [Pae System].

	Git	
[Pae System]		
	Pae Auth Control	
0	enabled	

Figure 2.4 Pae System Management Window

Parameters displayed on the '**Pae System**' menu window are described as follows:

Parameter	Description
Pae Auth Control	Whether Pae Auth Control is enabled or disabled

Retrieving Pae System

- Select the target object to perform a function from Tree Viewer.
 The selected object is displayed on the 'Target' field (1) of the window.
- 2. Click the [Retrieve] button (2) to retrieve information on SIP Phone Mgmt.
- **3.** The retrieval result is displayed on the result table (**3**) in the window.

Pae Port Management (GPLIM/GSIM/WIM)

This function allows retrieving and setting up parameters of Pae Port.

This function is performed in order of [Switch] \rightarrow [Authentication] \rightarrow [Pae Port].

Target	/NewOfficeSe	rv/NewGSIM			
P	ort				
			Get		
[Pac Port]			Get		
[Pac Port]	Port	Protocol Version	Cot	Initialize	Reauthenticate
[Pac Port]	Port 12	Protocol Version	Cot Capability 1	Tnitialize folse	Reauthenticate false
[Pac Port]	Port 12 13	Protocol Version 1	Cot Capability 1	Tnittalize false false	Reauthenticate folse taise

Figure 2.5 Pae Port Management Window

Parameters displayed on the 'Pae Port' menu window are described as follows:

Parameter	Description
Port	Port Number, Pae Control is enabled.
Protocol Version	The Protocol Version associated with this port.
Capability	Indicates the PAE Functionality that this port supports and that may be managed.
Initialize	The Initialization control for this port. Setting this attributes TRUE cases the Port to be initialized. The attribute value reverts to FALSE once initialization has completed.
Reauthenticate	The re-authentication control for this port. Setting this attribute TRUE causes the Authenticator PAE state machine for the port to re-authenticate the Supplicant. Setting this attribute FALSE has no effect. This attribute always returns FALSE when it's read.

Retrieving Pae Port

- Select the target object to perform a function from Tree Viewer. The selected object is displayed on the 'Target' field (1) of the window.
- 2. Click the [Retrieve] button (2) to retrieve information on SIP Phone Mgmt.
- **3.** The retrieval result is displayed on the result table (**3**) in the window.

Auth Config Management (GPLIM/GSIM/WIM Only)

This function allows retrieving and setting up parameters of Auth Config.

This function is performed in order of [Switch] \rightarrow [Authentication] \rightarrow [Auth Config].

		Pae Sys	stem Pae Port Au	th Config Rodius Server											
			Target	/NewOfficeServ/NewGSIM											
			Port												
							Get								
			Cash Cash - 1												
	Port	PaeState	BackendAuthState	AdminControlledDirection	OperControlledDirection	ControlledPortStatus	ControlledPortControl	QuietPeriod	TxPeriod	SuppTimeout	ServerTimeout	MaxReq	Re- authPeriod	Re- authEnabled	KeyTsEnable
0	12	forceAuth	idle	both	both	authorized	forceAuthorized	60	30	30	30	2	3600	true	false
	10	forceUnauth	idle	bath	both	unauthorized	forceUnauthorized	60	20	20	10	Z	2800	false	false
0	4.0														

Figure 2.6 Auth Config Management Window

Parameter	Description				
Port	Current Port Number				
Pae State	The current value of the Authenticator PAE State machine. - none - Force-authorized (forceAuth) - Force-Un authorized (forceUnauth) - Auto				
BackendAuthState	The current state of the Backend Authentication State machine.				
AdminControlledDirection	The current state of the administrative controlled directions parameter for the port.				
OperControlledDirection	The current state of the operational controlled directions parameter for the port.				
Controlled Port Status	The current value of the Controlled Port status parameter for the port.				
Controlled Port Control	The current value of the Controlled Port Control parameter for the port.				

Parameters displayed on the '**Auth Config**' menu window are described as follows:
Parameter	Description
QuietPeriod	The value, in seconds, of the QuietPeriod constant currently is use by the Authenticator PAE State machine.
TxPeriod	The value, in seconds, of the TxPeriod currently is use by the Authenticator PAE State machine (1~65535 sec) default value: 30 sec
SuppTimeout	The value, in seconds, of the SuppTimeout constant currently is use by the Backend authentication State machine (1~65535sec) default value: 30 sec
ServerTimeout	The value, in seconds, of the ServerTimeout constant currently is use by the Backend Authentication State machine (1~65535sec) Default Value: 30 sec
MaxReq	The value of the MaxReq constant currently is use by the Backend Authentication State machine.
ReAuthPeriod	The value, in seconds, of the ReAuthPeriod constant currently is use by the Reauthentication Timer machine (1~4294967295 msec) Default value: 3600 sec
ReAuthEnabled	The enable/disable control used by the Reauthentication Timer state machine.
KeyTxEnabled	The value of the ketTransmissionEnabled constant currently in use by the Authenticator PAE State machine.

Retrieving Auth Config

- Select the target object to perform a function from Tree Viewer. The selected object is displayed on the 'Target' field (1) of the window.
- 2. Click the [Retrieve] button (2) to retrieve information on SIP Phone Mgmt.
- 3. The retrieval result is displayed on the result table (3) in the window.

Radius Server Management (GPLIM/GSIM/WIM Only)

Setting 802.1x user authentication indicates that there is the Radius server that has the user information. The host IP Address, host port and key should be registered of the Radius server to be used. This function allows retrieving and setting up parameters of Radius Server.

This function is performed in order of [Switch] \rightarrow [Authentication] \rightarrow [Radius Server].

rarger /dawon	ceServ/NewGPLIM		
[Radius Server]		Gat	
	HostIP	SecretKey	HostPort
0	165.213.80.100	secret	1815

Figure 2.7 Radius Server Management Window

Parameters displayed on the '**Radius Server**' menu window are described as follows:

Parameter	Description
HostIP	Host IP address of Radius Server
SecretKey	Secret Key value
HostPort	Host Port of Radius Server It uses usually 1812 as a port number

Retrieving Radius Serve

- Select the target object to perform a function from Tree Viewer.
 The selected object is displayed on the 'Target' field (1) of the window.
- 2. Click the [Retrieve] button (2) to retrieve information on SIP Phone Mgmt.
- 3. The retrieval result is displayed on the result table (3) in the window.

Changing Radius Server

- Revise the value of parameters which is changed, and Press set button (4).
- 2. Then, the retrieval result is displayed in the result table (3).

QoS

QoS Management (GPLIM/WIM Only)

This function allows retrieving and setting up QoS parameters.

This function is performed in order of [Switch] \rightarrow [QoS] \rightarrow [QoS].

arget	/7400/NewOS7400/Cabinet_1/GPLIMT_6		
		Get	
	[005]		
	Mode	WIT -	
	WeightHigh	3	
	WeightLow	1	
	DelayBound	off	
	DelayTime	255	
	Minh Onionitation and	level3 level4 level5 level6 level7	

Figure 2.8 QoS Management Window

Mode	wrd 🔽	WeightHigh	3	
WeightLow	1	DelayBound	off	1
DelayTime	255			
HighPriorityLevel	l level3.level4.level5.l	evel6.level7		_

Figure 2.9 QoS Management Set Window

Parameters displayed on the 'QoS' menu window are described as follows:

Parameter	Description
Mode	Select QoS Mode - First Come First Service (fcfs) - All High before Low (ahbl) - Weighted Round Robin (wrr)
WeighHigh	Set the rate of high Weight when the method of 'Weighted Round Robin'.
WeighLow	Set the rate of Low Weight when the method of 'Weighted Round Robin'.

Parameter	Description
DelayBound	Set the time limit to prevent the low priority packets from being delayed too much the QoS mode is selected as 'All High before Low' or 'Weighted Round Robin'.
DelayTime	Max Delay Time is ms (1/1000 second) and default is 255 ms.
HighPriorityLevel	There are 8 tags to indicate the priority.

Retrieving QoS

- Select the target object to perform a function from Tree Viewer.
 The selected object is displayed on the 'Target' field (1) of the window.
- 2. Click the [Retrieve] button (2) to retrieve information on SIP Phone Mgmt.
- **3.** The retrieval result is displayed on the result table (③) in the window.

Changing QoS

- 1. Choose Row which is revised, and Press set button (4).
- Revise the value of parameters (5) which is changed, and Press set button (6).
- 3. Then, the retrieval result is displayed in the result table (3).

QoS Class Management (GSIM/WIM Only)

This function allows retrieving and setting up parameters of QoS Class.

This function is performed in order of [Switch] \rightarrow [QoS] \rightarrow [QoS Class].

nget //woo/newoo/cabinet_i/c	19101_1	
ClassName		
	Get	
[QoS Class]		
	ClassName	Remark
0	test_class	
O	voip_common_classmap	
0	voip_policymap'default-class	
0	voip_system_dst_classmap	
0	voip_system_src_classmap	
0	voip_terminal_media_classmap	

Figure 2.10 QoS Class Management Window

🚳 Set		? ×
ClassName	test_class	
Remark		
	et Close	
http://10.89.29.50/osnms/switchm/qos/q	osclass/setPoj 🧐 .	





Figure 2.12 QoS Class Management Add Window

Parameters displayed on the '**QoS Class'** menu window are described as follows:

Parameter	Description
ClassName	Class Name
Remark	Description of this Class

Retrieving QoS Class.

- Select the target object to perform a function from Tree Viewer.
 The selected object is displayed on the 'Target' field (1) of the window.
- 2. Click the [Retrieve] button (2) to retrieve information on SIP Phone Mgmt.
- **3.** The retrieval result is displayed on the result table (③) in the window.

Changing QoS Class.

- 1. Choose Row which is revised, and Press set button (4).
- Revise the value of parameters (5) which is changed, and Press set button (6).
- **3.** Then, the retrieval result is displayed in the result table (3).

Generating QoS Class.

- 1. Press [Add] button (4).
- 2. Add QoS Class Name(6). and Press set button (6).
- **3.** Then, the retrieval result is displayed in the result table (③).

QoS Class Entry Management (GSIM/WIM Only)

This function allows retrieving and setting up parameters of QoS Class Entry.

This function is performed in order of [Switch] \rightarrow [QoS] \rightarrow [QoS Class Entry].

	Target /7400/NewOS7400	/Cabinet_1/GS	SIMT_7										
	ClassName						EntryInde	×					
Qo	S Class Entry]					Get							
	ClassName	EntryIndex	DSCP	EtherType	IcmpType	DstIPAddr	DstNetmask	DstPortStart	DstPortEnd	IPProtocol	SrcIPAddr	SrcNetmask	-51
0	test_class	1	20		1	0.0.0.0	0.0.0.0	-1	-1	•1	0.0.0.0	0.0.0.0	
0	test_class	2	-1		-1	0.0.0.0	0.0.0.0	-1	-1	-1	0.0.0.0	0.0.0.0	
0	voip_common_classmap	1	40		-1	0.0.0.0	0.0.0.0	-1	-1	-1	0.0.0.0	0.0.0.0	
0	voip_policymap'default-class	1	-1		-1	0.0.0.0	0.0.0.0	-1	-1	-1	0.0.0.0	0.0.0.0	
0	voip_system_dst_classmap	1	1		-1	1.1.1.1	0.0.0.0	-1	-1	-1	0.0.0.0	0.0.0.0	
0	voip_system_src_classmap	1	-1		-1	0.0.0.0	0.0.0.0	-1	-1	-1	1.1.1.1	0.0.0.0	
0	voip_terminal_media_classmap	1	-1		-1	0.0.0.0	0.0.0.0	9000	-1	17	0.0.0.0	0.0.0.0	
0	voip_terminal_media_classmap	2	-1		-1	0.0.0.0	0.0.0.0	9001	-1	17	0.0.0.0	0.0.0.0	
								-					-

Figure 2.13 QoS Class EntryManagement Window

DSCP	+1	EtherType	
ІстрТуре	-1	DstIPAddr	10.89.30.23
DstNetmask	0.0.0.0	DstPortStart	-1
DstPortEnd	-1	IPProtocol	-1
SrcIPAddr	0.0.0	SrcNetmask	0.0.0.0
SrcPortStart	-1	SrcPortEnd	-1
JutInterface		PrioTag	-1
VlanTag	-1		

Figure 2.14 QoS Class EntryManagement Set Window

Classivallie		
EntryIndex		
	Set Close	
10		

Figure 2.15 QoS Class EntryManagement Add Window

Parameters displayed on the '**QoS Class Entry**' menu window are described as follows:

Parameter	Description
ClassName	Name of QoS Class
EntryIndex	Entry Number
DSCP	Diffserv-codepoint (0~63)
EtherType	Ethernet Type String format 0xNNNN, ex> 0x08000
IcmpType	ICMP Type (0~18)
DstIPAddr	Destination IP Address
DstNetmask	Destination IP Netmask
DstPortStart	Destination IP Port Number or Staring from this IP Port Number
DstPortEnd	Destination IP Port Number or ending to this IP Port Number
IPProtocol	IP Protocol Number (1~255)
SrcIPAddr	Source IP Address
SrcNetmask	Source IP Netmask
SrcPortStart	Source IP Port Number or Staring from this IP Port Number
SrcPortEnd	Source IP Port Number or ending to this IP Port Number
DstMacAddr	Destination Mac Address
SrcMacAddr	Source Mac Address
OutInterface	Interface Name
PrioTag	Number of Priority 0~7
TcpControl	TCP Control bits 0~63 FIN: 1, SSYNC: 2, RST: 4, PSH: 8, URG:31
VlanTag	Number of VLAN 1~4094

Retrieving QoS Class Entry.

- Select the target object to perform a function from Tree Viewer.
 The selected object is displayed on the 'Target' field (1) of the window.
- 2. Click the [Retrieve] button (2) to retrieve information on SIP Phone Mgmt.
- **3.** The retrieval result is displayed on the result table (③) in the window.

Changing QoS Class Entry.

- 1. Choose Row which is revised, and Press set button (4).
- Revise the value of parameters (5) which is changed, and Press set button (6).
- **3.** Then, the retrieval result is displayed in the result table (③).

Generating QoS Class Entry.

- 1. Press [Add] button (4).
- Revise the value of parameters (5) which is changed, and Press set button (6).
- **3.** Then, the retrieval result is displayed in the result table (③).

QoS Policy Management (GSIM/WIM Only)

This function allows retrieving and setting up parameters of QoS Policy.

This function is performed in order of [Switch] \rightarrow [QoS] \rightarrow [QoS Policy].



Figure 2.16 QoS Policy Management Window

PolicyName	voip_policymap
Remark	
Remark	
5	et Close

Figure 2.17 QoS Policy Management Set Window



Figure 2.18 QoS Policy Management Add Window

Parameters displayed on the '**QoS Policy**' menu window are described as follows:

Parameter	Description
Policy Name	The Name of QoS Policy
Remark	Description for QoS Policy

Retrieving QoS Policy.

- Select the target object to perform a function from Tree Viewer.
 The selected object is displayed on the 'Target' field (1) of the window.
- 2. Click the [Retrieve] button (2) to retrieve information on SIP Phone Mgmt.
- **3.** The retrieval result is displayed on the result table (③) in the window.

Changing QoS Policy.

- 1. Choose Row which is revised, and Press set button (4).
- Revise the value of parameters (5) which is changed, and Press set button (6).
- **3.** Then, the retrieval result is displayed in the result table (3).

Generating QoS Policy.

- 1. Choose Press [Add] button (4).
- Revise the value of parameters (5) which is changed, and Press set button (6).
- **3.** Then, the retrieval result is displayed in the result table (③).

QoS Policy Entry Management (GSIM/WIM Only)

This function allows retrieving and setting up parameters of QoS Policy Entry.

This function is performed in order of [Switch] \rightarrow [QoS] \rightarrow [QoS Policy Entry].

	PolicyName					Class	Name		
Qo	S Policy Entry]								
	PolicyName	ClassName	SeqNo	ClassEntryIndex	LimitRate	LimitBurst	ConfirmActionPermit	ConfirmActionDeny	ConfirmActionCopyToMirro
2	voip_policymap	voip_common_classmap	15			-1	enable	disable	disable
2	voip_policymap	voip_policymap derault-class	12	1	-4	-1	enable	disable	disable
÷	voip_policymap	voip_system_orc_classmap	12	1	-1	-1	enable	dicable	dicable
Ď	voip_policymap	voip_terminal_media_classmap	14	1	-1	-1	enable	disable	disable

Figure 2.19 QoS Policy Entry Management Window

PolicyName voip_		policymap	ClassName voip	_policymap'default-clas:	
SeqNo	0		ClassEntryIndex 1	-1	
LimitRate		}1	LimitBurst		
ConfirmActionPermit ConfirmActionCopyToNirror ConfirmActionIncreaseCounter ConfirmActionInsertPri ConfirmActionInsertVlanId ConfirmActionSetEcn		enable ConfirmActionDeny		disable	
		disable	isable 🔄 ConfirmActionDrop		
		disable	ConfirmActionInsertDSCP	0	
		0	ConfirmActionInsertTos		
		-1	1 ConfirmActionPriorityToTos		
		-1 ConfirmActionRedirectAll			
ConfirmActionRedire	tUcast		ConfirmActionRedirectNonUca	st	
ConfirmActionSetPr	iority	-1	ConfirmActionTosToPriority	disable 📘	
ExceedActionPer	mit	disable ExceedActionDeny		disable	
ExceedActionDr	op	disable	ExceedActionInsertDSCP	-1	
ExceedActionSetEco		1			

Figure 2.20 QoS Policy Entry Management Set Window

oncyname	ClassName
SegNo	ClassEntryIndex
	Set
	0000

Figure 2.21 QoS Policy Entry Management Add Window

Parameters displayed on the '**QoS Policy Entry**' menu window are described as follows:

Parameter	Description
PolicyName	The Name of PolicyName
ClassName	The Name of ClassName
SeqNo	The Number of SeqNo
ClassEntryIndex	The Number of ClassEntryIndex
LimitRate	LimitRate, Average metered rate (kbits/s) 1~1000000
LimitBurst	LimitBurst, Meter's max allowable burst (kbits) 1~20000
ConfirmActionPermit	ConfirmActionPermit, Sets disable or enable
ConfirmActionDeny	ConfirmActionDeny, Sets disable or enable
ConfirmActionCopyToMirror	ConfirmActionCopyToMirror, Sets disable or enable
ConfirmActionDrop	ConfirmActionDrop, Sets disable or enable
ConfirmIncreaseCounter	ConfirmIncreaseCounter, Sets disable or enable
ConfirmActionInsertDSCP	Confirms Action Insert DSCP
ConfirmActionInsertPri	Confirms Action Insert Priority
ConfirmActionInsertTos	Confirms Action Insert Tos
ConfirmActionInsertVlanId	Confirms Action Insert VLAN ID
ConfirmActionPriorityToTos	Confirms Action Priority To Tos, Set disable or enable
ConfirmActionSetEcn	Confirms Action Set Ecn
ConfirmActionRedirectAll	Confirms Action Redirect-All Interface name
ConfirmActionRedirectUcast	Confirms Action Redirect-Ucast Interface name
ConfirmActionRedirectNonUcast	Confirms Action Redirect-NonUcast Interface name
ConfirmActionSetPriority	Confirms Action Set Priority
ConfirmActionTosToPriority	ConfirmActionTosToPriority, Sets disable or enable
ExceedActionPermit	ExceedActionPermit, Sets disable or enable

Parameter	Description
ExceedActionDeny	ExceedActionDeny, Sets disable or enable
ExceedActionDrop	ExceedActionDrop, Sets disable or enable
ExceedActionInsertDSCP	Exceed Action Insert DSCP
ExceedActionSetEcn	Exceed Action Set Ecn

Retrieving QoS Policy Entry.

- Select the target object to perform a function from Tree Viewer.
 The selected object is displayed on the 'Target' field (1) of the window.
- 2. Click the [Retrieve] button (2) to retrieve information on SIP Phone Mgmt.
- **3.** The retrieval result is displayed on the result table (③) in the window.

Changing QoS Policy Entry.

- 1. Choose Row which is revised, and Press set button (4).
- Revise the value of parameters (5) which is changed, and Press set button (6).
- **3.** Then, the retrieval result is displayed in the result table (③).

Generating QoS Policy Entry.

- 1. Press [Add] button (4).
- Revise the value of parameters (5) which is changed, and Press set button (6).
- 3. Then, the retrieval result is displayed in the result table (3).

QoS IF Management (GSIM/WIM Only)

This function allows retrieving and setting up parameters of QoS IF.

This function is performed in order of [Switch] \rightarrow [QoS] \rightarrow [QoS IF].

			Target ///	ewOfficeSer	v/NewGSIM										
			Index		0										
									ūet						
		[0	Qo§ 1F]									Total co	unt : 12 1	/ 2 🔯	
1.	ame	InputPolicy	InputFramesize	LimitRate	LimitBurst	LimitFramesize	CosmapDefaultSet	CosmapPriority0	CosmapPriority1	CosmapPriority2	CosmapPriority3	CosmapPriority4	CosmapPriority5	CosmapPriority6	CosmapPriority
							1. AL.			•		100		1	
0	port1	voip_policymap	1.407	-1	-1		disacte	U		6	3		5	Þ	
0	port1 port2	voip_policymap voip_policymap		-1	-1	-	disable	0	1	z	3	4	5	6	7
0	port1 port2 port3	voip_policymap voip_policymap voip_policymap	(*) (*)	4 -1 -1	-1 -1 -1	-	disable disable	0	1 1	2	3	4 4	5	6	7
	port1 port2 port3 port4	voip_policymap voip_policymap voip_policymap voip_policymap	-	4 -1 -1 -1	-1 -1 -1 -1	-	disable disable disable	0	1 1 1 1	2 2 2	3	4 4 4 4	5 5 5 5	6 6 6	7 7 7 7 7 7
	port2 port3 port4 port5	voip_policymap voip_policymap voip_policymap voip_policymap voip_policymap		4 -1 -1 -1 -1	-1 -1 -1 -1 -1	* * *	disable disable disable disable disable	0	1 1 1 1 1	2 2 2 2 2	3 3 3 3 3	4 4 4 4 4	5 5 5 5 5	6 6 6 6	7 7 7 7 7
	port2 port3 port4 port5 port6	voip_policymap voip_policymap voip_policymap voip_policymap voip_policymap	•	4 4 4 4 4 4	-1 -1 -1 -1 -1 -1	*	disable disable disable disable disable disable	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 1 1 1	2 2 2 2 2 2 2 2	3 3 3 3 3 3	4 4 4 4 4 4 4	5 5 5 5 5 5	6 6 6 6 6	7 7 7 7 7 7 7
	port2 port3 port4 port5 port5 port7	voip_policymap voip_policymap voip_policymap voip_policymap voip_policymap voip_policymap		4 -1 -1 -1 -1 -1	4 4 4 4 4 4 4 4	•	disable disable disable disable disable disable	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 1 1 1 1 1	2 2 2 2 2 2 2 2 2 2	3 3 3 3 3 3 3 3	4 4 4 4 4 4 4 4	5 5 5 5 5 5 5	5 5 5 5 5 5 5	7 7 7 7 7 7 7
	port1 port2 port3 port4 port5 port5 port5 port7 port8	voip_polcymap voip_polcymap voip_polcymap voip_polcymap voip_polcymap voip_polcymap voip_polcymap		4 4 4 4 4 4 4 4 4	4 4 4 4 4 4 4 4 4	* * * * *	disable disable disable disable disable disable disable	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 1 1 1 1 1 1 1	2 2 2 2 2 2 2 2 2 2 2 2 2	3 3 3 3 3 3 3 3 3 3	4 4 4 4 4 4 4 4 4	5 5 5 5 5 5 5 5 5	6 6 6 6 6 6 6 6	7 7 7 7 7 7 7 7 7
	port1 port2 port3 port4 port5 port5 port5 port5 port5	voip_polcymap voip_polcymap voip_polcymap voip_polcymap voip_polcymap voip_polcymap voip_polcymap voip_polcymap		4 4 4 4 4 4 4 4 4 4 4 4	4 4 4 4 4 4 4 4 4 4 4 4		disable disable disable disable disable disable disable disable		1 1 1 1 1 1 1 1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	3 3 3 3 3 3 3 3 3 3 3 3	4 4 4 4 4 4 4 4 4 4 4	5 5 5 5 5 5 5 5 5 5	5 5 5 5 5 5 5 5 5 5 5 5 5	7 7 7 7 7 7 7 7 7



INFORCY	voip_policymap	Inremsz	Iname64	
LmtRate	-1	LmtBurst	-1	
LmtFrmSz	0	CosDeftSet	disable	
CosPO	0	CosP1	1	
CosP2	2	CosP3	3	
CosP4	4	CosPS	5	
CosP6	6	CosP7	7	
OutSchMode	strict 🖸	OutSchWQO	-1	
OutSchWQ1	-1	Out5chWQ2	-1	
OutSchWQ3	-1	OutSchWQ4	-1	
OutSchWQ5	-1	OutSchWQ6	-1	
OutSchWQ7	-1	CosThDeftSet	disable	
CosThQU	120	CosThQ1	120	
CosThQ2	128	CosThQ3	128	
CosThQ4	128	CosThQ5	128	
CosThQ6	128	CosThQ7	128	

Figure 2.23 QoS IF Management Set Window

Parameter	Description
Name	QoS Interface Name
lfIndex	QoS Interface Index
InputPolicy	Mapped Input Policy Name
InputFramesize	Input Frame size
LimitRate	Limit Rate
LimitBurst	Limit Burst
LimitFramesize	Limit Frame size
CosmapDefaultSet	Set all Cosmap parameters to default value. After setting this value reverts to 'disable'
CosP0~7	Cosmap Priority0~7
CosmapPriority1	Cosmap Priority1
CosmapPriority2	Cosmap Priority2
OutSchMode	QoS Interface OutSchMode
OutSchWQ0~7	QoS Interface OutSchWQ0~7
CosThDeftSet	QoS Interface CosThDeftSet
CosThQ0~7	QoS Interface CosThQ0~7

Parameters displayed on the 'QoS IF' menu window are described as follows:

Retrieving QoS IF.

- Select the target object to perform a function from Tree Viewer. The selected object is displayed on the 'Target' field (1) of the window.
- Click the [Retrieve] button (2) to retrieve information on SIP Phone Mgmt.
- 3. The retrieval result is displayed on the result table (3) in the window.

Changing QoS IF

- 1. Press set button (4).
- Revise the value of parameters (5) which is changed, and Press set button (6).
- 3. Then, the retrieval result is displayed in the result table (3).

VolP

VoIP Management (GPLIM/GSIM/GWIM/WIM Only)

This function allows retrieving and setting up VoIP parameters.

This function is performed in order of [Switch] \rightarrow [VoIP] \rightarrow [VoIP].

Target	/NewOfficeServ/NewGSIM		
		Get	
	[YoIP]		
		ActivityStatus	
		running	
		Run Stap	

Figure 2.24 VoIP Management Window

Parameters displayed on the 'VoIP' menu window are described as follows:

Parameter	Description
ActivityStatus	Activity Status of VoIP Management

Retrieving VolP.

- Select the target object to perform a function from Tree Viewer.
 The selected object is displayed on the 'Target' field (1) of the window.
- 2. Click the [Retrieve] button (2) to retrieve information on SIP Phone Mgmt.
- 3. The retrieval result is displayed on the result table (3) in the window.

Changing VolP

- 1. Press [Run] button (4). Then, the retrieval result is displayed in the result table (3).
- Press [Stop] button (4). Then, the retrieval result is displayed in the result table (3).

Misc.

Misc. Management (GPLIM/WIM Only)

This function allows retrieving and setting up Misc. parameters.

This function is performed in order of [Switch] \rightarrow [Misc.] \rightarrow [Misc.]

rget	/Data/glimp				
		Get			
	[Misc.]				
	MirrorMode	both			
	MirrorMonitoringPort	port10			
	MirrorMonitoredPort	port1			
	MacAgeOutTime	301			
	BroadcastStormFilterMode	rateotri25percent			
	AutoMdiMdix	an			
	NiIPAddress	10.89.30.46			
	NiNetmask	255.255.255.0			
	NiDefaultGateway	10.89.30.1			
	NIDNS	1.1.1.1			

Figure 2.25 Misc. Management Window (GPLIM)

arget	/Data/wim		
		Get	
	[Mise.]		
	MirrorMode	both	
	MirrorMonitoringPort	port3	
	MirrorMonitoredPort		
	MacAgeOutTime	301	
	BroadcastStormFilterMode	ratectrl15percent	
	AutoMdiMdix	on	
	PlimModuleActivityStatus	running	

Figure 2.26 Misc. Management Window (WIM)

MirrorMode	both	
MirrorMonitoringPort	port10	
MirrorMonitoredPort	port1	
MacAgeOutTime	301	
BroadcastStormFilterMode	ratectri25percent	
AutoMdiMdix	on	
NiIPAddress	10.89.30.46	
NiNetmask	255.255.255.0	
NiDefaultGateway	10.89.30.1	
NIDNS	1.1.1.1	

Figure 2.27 Misc. Management Set Window (GPLIM)

MirrorMode	both	
MirrorMonitoringPort	port3	
MirrorMonitoredPort		
MacAgeOutTime	301	
BroadcastStormFilterMode	ratectrl15percent	
AutoMdiMdix	on	

Figure 2.28 Misc. Management Set Window (WIM)

Parameters displayed on the 'Misc.' menu window are described as follows:

Parameter	Description
MirrorMode	Mirror mode
MirrorMonitoringPort	The Monitoring Port for mirroring
MirrorMonitoredPort	The Monitored Port for mirroring
MacAgeOutTime	Setting Information of MacAgeOutTime
BroadcastStormFilter Mode	Setting Information of BroadcastStormFilterMode
AutoMdiMdix	Setting Information of AutoMdiMdix
NilPAddress	IP Address of Network Interface It's used for a switch equipment (ex. PGPLIM (T) Card)
NiNetmask	Netmask Information of Network Interface It's used for a switch equipment (ex. PGPLIM (T) Card)
NiDefaultGateway	Default Gateway IP Address of Network Interface It's used for a switch equipment (ex. PGPLIM (T) Card)

Parameter	Description
NiDNS	Domain Name Server (DNS) Information of Network Interface
	It's used for a switch equipment (ex. PGPLIM (T) Card)
PlimModuleActivity	An Activity Status of PLIM Module.
Status	It's used for a router equipment (ex. Wim Card)

Retrieving Misc.

- Select the target object to perform a function from Tree Viewer. The selected object is displayed on the 'Target' field (1) of the window.
- 2. Click the [Retrieve] button (2) to retrieve information on SIP Phone Mgmt.
- 3. The retrieval result is displayed on the result table (3) in the window.

Changing Misc.

- 1. Revise the value of parameters, and Press set button (4).
- 2. Then, the retrieval result is displayed in the result table (3).

Mirror Port Management (GSIM Only)

This function allows retrieving and setting up parameters of Mirror Port.

This function is performed in order of [Switch] \rightarrow [Misc.] \rightarrow [Mirror Port].

	#OfficeServ/NewGSIM		
Port			
		Get	
Misson Bost 1			
Firmer Fort J	MoniteredPort	MoniteringPort	PortDirection
0	3	6	egress
0	4	6	ingress



Monite	redPort	9	
foniteringPort	7	PortDirection	both
	581	Close	

Figure 2.30 Mirror Port Management Set Window

MoniteredPo	ort		
	Set	Close	

Figure 2.31 Mirror Port Management Add Window

Parameters displayed on the '**Mirror Port**' menu window are described as follows:

Parameter	Description
MonitoredPort	Monitored Port Number
MonitoringPort	Monitoring Port Number
PortDirection	Set Port Direction, egress, ingress or both

Retrieving Mirror Port.

- Select the target object to perform a function from Tree Viewer.
 The selected object is displayed on the 'Target' field (1) of the window.
- 2. Click the [Retrieve] button (2) to retrieve information on SIP Phone Mgmt.
- **3.** The retrieval result is displayed on the result table (③) in the window.

Changing Mirror Port

- 1. Choose Row which is revised, and Press set button (4).
- Revise the value of parameters (5) which is changed, and Press set button (6).
- **3.** Then, the retrieval result is displayed in the result table (③).

Generating Mirror Port

- 1. Press [Add] button (4).
- Revise the value of parameters (5) which is changed, and Press set button (6).
- **3.** Then, the retrieval result is displayed in the result table (③).

Deleting Mirror Port

- 1. Choose Row which is revised, and Press [Delete] button (4).
- 2. Then, the retrieval result is displayed in the result table (3).

NI Info Management (GSIM Only)

This function allows retrieving and setting up NI parameters.

This function is performed in order of [Switch] \rightarrow [Misc.] \rightarrow [NI Info].

Target	/NewOfficeServ/NewG	3SIM		
ID				
		1	Get	

Figure 2.32 NI Info Management Window

ID	1	
IPAddress	10.89.30.28	
Netmask	255.255.255.0	
Activity	00	

Figure 2.33 NI Info Management Set Window

Parameters displayed on the 'NI Info' menu window are described as follows:

Parameter	Description
ID	Network Interface ID
IPAddress	IP Address
Netmask	IP Netmask
Activity	Activity Information

Retrieving NI Info.

- Select the target object to perform a function from Tree Viewer.
 The selected object is displayed on the 'Target' field (1) of the window.
- 2. Click the [Retrieve] button (2) to retrieve information on SIP Phone Mgmt.
- 3. The retrieval result is displayed on the result table (③) in the window.

Changing NI Info.

- 1. Choose Row which is revised, and Press set button (4).
- 2. Revise the value of parameters (5) which is changed, and Press set button (6).
- 3. Then, the retrieval result is displayed in the result table (3).

Bridging

Stp Port Management (GPLIM/GSIM/WIM Only)

This function allows retrieving and setting up Stp Port.

This function is performed in order of [Switch] \rightarrow [Bridging] \rightarrow [Stp Port].

	Target	/New	OfficeServ/N	OWGPLIM							
	Port	No									
							Get				
[str	Port]	Priority	State	Enable	PathCost	DesignatedRoot	DesignatedCost	DesignatedBridge	Total count : DesignatedPort	14 1 / 2 💷 ForwardTransitions	
0	2	128	forwarding	enabled	200000	00640004ffffff961f3608	0	00640004ffffff961f3608	401a	1	
0 3		128	forwarding	enabled	200000	00640004ffffff961f3608	200000	ffffff8000001632ffffffc557ffffffd1	ffffff8003	3	
0	4	4 128 forwarding enabled 2		200000	00640004ffffff961f3608	200000	fffff8000001632fffffc557ffffffd1	ffffff8004 1			
0	5	128	disabled	disabled	200000	0000000000000000	0	000000000000000	0000	0	
0	6	128	disabled	disabled	200000	000000000000000000000000000000000000000	0	000000000000000	0000	0	
0	7	128	disabled	disabled	200000	000000000000000000	0	000000000000000	0000	0	
0	8	128	disabled	disabled	200000	000000000000000000000000000000000000000	0	000000000000000000000000000000000000000	0000	0	
0	9	128	disabled	disabled	200000	000000000000000000000000000000000000000	0	000000000000000000000000000000000000000	0000	0	
0	10	128	disabled	disabled	200000	000000000000000000000000000000000000000	0	0000000000000000	0000	0	
0	11	128	disabled	disabled	200000	000000000000000	0	000000000000000	0000	0	
0	11	128	disabled	disabled	200000	000000000000000	0	000000000000000000000000000000000000000	0000	0	

Figure 2.34 Stp Port Management Window

Parameters displayed on the 'Stp Port' menu window are described as follows:

Parameter	Description
PortNo	The Port Number of the port for which this entry contains Spanning Tree Protocol management information
Priority	The value of the Priority, 0~255
State	The port's current state as defined by application of the STP
Enable	The Enabled/disabled status of the port
PathCost	The contribution of this port to the path cost of paths towards the spanning tree root which include this port. IEEE 802.1D- 1990 recommends that the default value of this parameter be in inverse proportion to the speed of the attached LAN.
DesignatedRoot	The unique Bridge identifier of the Bridge recorded as the Root in the Configuration BPDUs transmitted by the segment to which the port is attached.

Parameter	Description				
DesignatedCost	The path cost of the Designated Port of the segment connected to this port. The value is compared to the Root Path Cost field in received bridge PDUs				
DesignatedBridge	The bridge identifier of the bridge which this port considers to be the Designated Bridge for this port's segment				
DesignatedPort	The port identifier of the port on the Designated Bridge for this port's segment				
ForwardTransitions	The number of times this port has transmitted from the learning state to the Forwarding state.				

Retrieving Stp Port.

- Select the target object to perform a function from Tree Viewer. The selected object is displayed on the 'Target' field (1) of the window.
- 2. Click the [Retrieve] button (2) to retrieve information on SIP Phone Mgmt.
- **3.** The retrieval result is displayed on the result table (③) in the window.

Stp Ext Port Management (GPLIM/GSIM/WIM Only)

This function allows retrieving and setting up Stp Ext Port.

This function is performed in order of [Switch] \rightarrow [Bridging] \rightarrow [Stp Ext Port].

			Tar	get	/NewOffice	Serv/New GPLIM										
				PortN	0	[
									Get							
			[Stp Ext	Port]								Total co	unt : 14	1 / 2 🛄		
	PortNo	Priority	State	Enable	PathCost	DesignatedRoot	DesignatedCost	DesignatedBridge	DesignatedPort	ForwardTransitions	ProtocolMigration	AdminEdgePort	OperEdgePort	AdminPtoP	OperPtoP	AdminPath
C	2	128	forwarding	enabled	200000	006400041111196113608	0	00640004ffffff961f3608	401a	1	false	false	false	forceTrue	true	200000
0	3	128	forwarding	enabled	200000	00640004fffff961f3608	200000	fffff8000001632fffffc557fffffd1	####8003	3	false	false	false	forceTrue	true	200000
D	4	128	forwarding	enabled	200000	00640004fffff961f3608	200000	fffff8000001632fffffc557fffffd1	fffff8004	1	felse	false	false	forceTrue	true	200000
0	5	128	disabled	disabled	200000	0000000000000000	0	000000000000000	0000	. 0	false	false	false	forceTrue	false	200000
2	6	128	disabled	disabled	200000	0000000000000000	0	0000000000000000	0000	0	false	false	false	forceTrue	false	200000
C	7	128	disabiled	disabled	200000	0000000000000000	0	0000000000000000	0000	0	faïse	false	false	forceTrue	false	200000
0	8	128	disabiled	disabled	200000	00000000000000000	0	0000000000000000000	0000	0	false	false	false	forceTrue	false	200000
0	9	128	disabled	disabled	208000	000000000000000000000000000000000000000	0	000000000000000000000000000000000000000	0000	0	false	false	false	forceTrue	false	200000
0	10	128	disabled	disabled	200000	0000000000000000	0	0000000000000000	6660	0	false	false	false	forceTrue	false	200000
2	-11	128	disabiled	disabled	200000	00000000000000000	0	0000000000000000	0000	0	false	false	false	forceTrue	false	200000

Figure 2.35 Stp Ext Port Management Window

Parameters displayed on the **Stp Ext Port'** menu window are described as follows:

Parameter	Description
PortNo	The Port Number of the port for which this entry contains Spanning Tree Protocol management information
Priority	The value of the Priority, 0~255
State	The port's current state as defined by application of the STP
Enable	The Enabled/disabled status of the port
PathCost	The contribution of this port to the path cost of paths towards the spanning tree root which include this port. IEEE 802.1D- 1990 recommends that the default value of this parameter be in inverse proportion to the speed of the attached LAN.
DesignatedRoot	The unique Bridge identifier of the Bridge recorded as the Root in the Configuration BPDUs transmitted by the segment to which the port is attached.
DesignatedCost	The Port Number of the port for which this entry contains Spanning Tree Protocol management information
DesignatedBridge	The value of the Priority, 0~255
DesignatedPort	The port's current state as defined by application of the STP

Parameter	Description
ForwardTransitions	The number of times this port has transmitted from the learning state to the Forwarding state
ProtocolMigration	The value has true or false. When operation in RSTP (version2) mode, writing TRUE (1) to this object forces this port to transmit RSTD BPDUs. Any other operation on this object has no effect and it always returns FALSE (2) when read.
AdminEdgePort	The value has true or false. The administrative value of the Edge Port Parameter. A value of TRUE (1) indicates that this port should be assumed as an edge-port and a value of FALSE (2) indicates that this port should be assumed as a non-edge-port.
OperEdgePort	The value has true or false. The operational value of the Edge Port Parameter. The object is initialized to the value of dot1StpPortAdminEdgePort and is set FALSE on reception of a BPDU.
AdminPtoP	 The administrative point-to-point status of the LAN segment attached to this port. forceTrue (0): this port should always be treated as if it is connected to a point-to-point link. forcefalse (1): this port should be treated as having shared media connection. auto (2): this port is considered to have a point-to-point link if it is an Aggregator and all of its members are aggregatable, or if the MAC entry is configured for full duplex operation, either through auto-negotiation or be management means.
OperPtoP	The operational point-to-point status of the LAN segment attached to this port. It indicates whether a port is considered to have a point-to- point connection or not.
AdminPathCost	The administratively assigned value for the contribution of this port to the path cost of paths towards the spanning tree root. Writing a value of '0' assigns the automatically calculated default Path Cost value to the port. If the default Path Cost is being used, this object returns '0' when read

Retrieving Stp Ext Port.

- Select the target object to perform a function from Tree Viewer. The selected object is displayed on the 'Target' field (1) of the window.
- 2. Click the [Retrieve] button (2) to retrieve information on SIP Phone Mgmt.
- **3.** The retrieval result is displayed on the result table (**3**) in the window.

Trunking

Agg. Management (GPLIM/GSIM/WIM Only)

This function allows retrieving and setting up parameters of Agg.

This function is performed in order of [Switch] \rightarrow [Trunking] \rightarrow [Agg.].



Figure 2.36 Agg. Management Window

Parameters displayed on the 'Agg.' menu window are described as follows:

Parameter	Description
AggIndex	The unique identifier allocated to this Aggregator by the local system.
AggMACAddress	A 6-octet read-only value carrying the individual MAC Address assigned to the Aggregator. 0~65535
AggActorSystemPriority	A 2-octet value indicating the priority value associated with the Actor's System ID
AggActorSystemID	A 6-octet MAC Address value used as a unique identifier for system that contains this Aggregator.
AggAggregateOrIndividual	A Boolean value indicating whether the Aggregator represents an Aggregate ('TRUE') or Individual Link ('FALSE')
AggActorAdminkey	The current administrative value of the key for the Aggregator.
AggActorOperKey	The current operational value of the key for the Aggregator.
AggPartnerSystemID	A 6-octet MAC Address value consisting of the unique identifier for the current protocol Partner of this Aggregator.

Parameter	Description
AggPartnerSystemPriority	A 2-octet value that indicates the priority value associated with the Partner's System ID.
AggPartnerOperKey	The current operational value of the key for the Aggregator's current protocol partner.
AggCollectorMaxDelay	It defines the maximum delays

Retrieving Agg.

- Select the target object to perform a function from Tree Viewer. The selected object is displayed on the 'Target' field (1) of the window.
- 2. Click the [Retrieve] button (2) to retrieve information on SIP Phone Mgmt.
- **3.** The retrieval result is displayed on the result table (③) in the window.

Agg Port Management (GPLIM/GSIM/WIM Only)

This function allows retrieving and setting up parameters of Agg. Port

This function is performed in order of [Switch] \rightarrow [Trunking] \rightarrow [Agg Port].

	Hgg. Agg Port												
	Targ	et /NewOffice	Serv/NewGSIM										
		Index											
	[Agg Por	t]											
Index	ActorSystemPriority	ActorSystemID	ActorAdminKey	ActorOperKey	PartnerAdminSystemPriority	PartnerOperSystemPriority	PartnerAdminKey	PartnerOperKey	SelectedAggID	AttachedAggID	ActorPort	ActorPortPriority	y Par
					222/0	2227.0			47	0		007/0	

Figure 2.37 Agg Port Management Window

Parameters displayed on the '**Agg Port**' menu window are described as follows:

Parameter	Description
Index	The ifindex of the port
ActorSystemPriority	A 2-octet value indicating the priority value associated with the Actor's System ID.
ActorSystemID	A 6-octet MAC Address value used as a unique identifier for system that contains this Aggregation port.
ActorAdminkey	The current administrative value of the key for the Aggregation port.
ActorOperKey	The current operational value of the key for the Aggregation port.
PartnerAdminSystemPriority	A 2-octet value that indicates the administrative value of priority associated with the Partner's System ID.
PartnerOperSystemPriority	A 2-octet value that indicates the operational value of priority associated with the Partner's System ID.
PartnerAdminSystemID	A 6-octet MAC Address value representing the administrative value of the Aggregation Port's protocol Partner's System ID.
PartnerOperSystemID	A 6-octet MAC Address value representing the operational value of the Aggregation Port's protocol Partner's System ID.

Parameter	Description
PartnerOperKey	The current operational value of the key for the Aggregator's current protocol partner.
SelectedAggID	The identifier value of the Aggregator that this Aggregation Port has currently selected. Zero indicates that the Aggregation Port has not selected an Aggregator.
AttachedAggID	The identifier value of the Aggregator that this Aggregation Port is currently attached to, Zero indicates that the Aggregation Port is not currently attached to an Aggregator.
ActorPort	The Port Number locally assigned to the Aggregation Port. The port Number is communicated in LACPUDs as the Actor_Port.
ActorPortPriority	The Priority value assigned to this Aggregation Port.
PartnerAdminPort	The current administrative value of the port number for the protocol partner.
PartnerOperPort	The operational port number assigned to this Aggregation Port by the Aggregation Port's protocol partner.
PartnerAdminPortPriority	The current administrative value of the port priority for the protocol partner.
PartnerOperPortPriority	The priority value assigned to this Aggregation Port by the Aggregation Port's protocol partner.
ActorAdminState	The string of 8 bits, corresponding to the administrative values of Actor_State as transmitted by the Actor in LACPDUs. - 1 st bit (0): LACP_Activity - 2 nd bit (1): LACP_Timeout - 3 rd bit (2): Aggregation - 4 th bit (3): Synchronization - 5 th bit (4): Collecting - 6 th bit (5): Defaulted - 7 th bit (6): Expired
ActorOperState	The string of 8 bits, corresponding to the operational values of Actor_State as transmitted by the Actor in LACPDUs.
PartnerAdminState	The string of 8 bits, corresponding to the administrative values of Actor_State for the protocol Partner.
Parameter	Description
-----------------------	---
PartnerOperState	The string of 8 bits, corresponding to the current values of Actor_State in most recently LACPDU transmitted by the Protocol Partner.
AggregateOrIndividual	The Aggregation Port is able to Aggregate ('true') Or is only able to operate as an Individual link ('false').

(Continued)

Retrieving Agg Port.

- Select the target object to perform a function from Tree Viewer. The selected object is displayed on the 'Target' field (1) of the window.
- 2. Click the [Retrieve] button (2) to retrieve information on SIP Phone Mgmt.
- **3.** The retrieval result is displayed on the result table (③) in the window.

VLAN

VLAN Base Management (GPLIM/GSIM/WIM Only)

This function allows retrieving and setting up parameters of VLAN Base.

This function is performed in order of [Switch] \rightarrow [VLAN] \rightarrow [VLAN Base].

arget	/Data/gplim	t					
				Get			
				Get			
1	VLAN Base	,1		Get			
I	VLAN Base	;] YlanYersion	Max¥lanID	Get MaxSupportedVlans	VlanNumber	GvrpStatus	

Figure 2.38 VLAN Base Management Window

Parameters displayed on the 'VLAN Base' menu window are described as follows:

Parameter	Description
VlanVersion	The Version number of IEEE 802.1Q that this device supports.
MaxVlanID	The maximum IEEE 802.1Q VLAN ID that this device supports.
MaxSupportedVlans	The maximum number of IEEE 802.1Q VLANs that this device supports.
VlanNumber	The current number of IEEE 802.1Q VLANs that are configured in this device.
GVRPStatus	The administrative Status represented by management for GVRP. The value enabled (1) indicates the GVRP should be enabled on this device, on all ports for which it has not been specifically disabled. When disabled (2), GVRP is disabled on all ports and all GVRP packets will be forwarded transparently. A transition from disabled (2) to enabled (1) will cause a reset of all GVRP state machines on all ports.

Retrieving VLAN Base.

- Select the target object to perform a function from Tree Viewer. The selected object is displayed on the 'Target' field (1) of the window.
- 2. Click the [Retrieve] button (2) to retrieve information on SIP Phone Mgmt.
- **3.** The retrieval result is displayed on the result table (**3**) in the window.

Static VLAN Management (GPLIM/GSIM/WIM Only)

This function allows retrieving and setting up parameters of Static VLAN.

This function is performed in order of [Switch] \rightarrow [VLAN] \rightarrow [Statc VLAN].

VLAN Base	Static V	LAN VLAN	Port Classifica	bon			
Target	/Data/gp	limt					
Index							
					Get		
				-			
[Static YLAN]							
	[Static 1	Index	Name	StaticEgressPort	ForbiddenEgressPort	StaticUntaggedPort	

Figure 2.39 Static VLAN Management Window

Parameters displayed on the '**Static VLAN**' menu window are described as follows:

Parameter	Description
Index	VLAN-ID
Name	An administrative assigned string, which may be used to identify the VLAN.
StaticEgressPort	The set of ports which are permanently assigned to the egress list for this VLAN by management.
ForbiddenEgressPort	The set of ports which are prohibited by management from being included in the egress list for this VLAN.
StaticUntaggedPort	The set of ports which should transmit egress packets for this VLAN as untagged.

Retrieving Static VLAN.

- Select the target object to perform a function from Tree Viewer. The selected object is displayed on the 'Target' field (1) of the window.
- 2. Click the [Retrieve] button (2) to retrieve information on SIP Phone Mgmt.
- 3. The retrieval result is displayed on the result table (3) in the window.

VLAN Port Management (GPLIM/GSIM/WIM Only)

This function allows retrieving and setting up parameters of VLAN Port.

This function is performed in order of [Switch] \rightarrow [VLAN] \rightarrow [VLAN Port].

CHU Dasa SI	CADO VEAN	TLAN POR	Classification		
'arget /I	Data/gplimt	6			
Port					
				Get	
t ·	VLAN Port	1			Total Count : 14 1 / 2 😡
		Port	PvId	AcceptableFrameType	IngressFiltering
	0	1	1	admitAll	false
	0	2	1	admitAll	false
	0	3	1	admitAll	false
	0	4	1	admitAll	false
	0	5	1	admitAll	false
	0	6	1	admitAll	false
	Ø	7	1	admitAll	false
	100	8	1	admitAll	false
	0				
	0	9	1	admitAll	false

Figure 2.40 VLAN Port Management Window

Parameters displayed on the '**VLAN Port'** menu window are described as follows:

Parameter	Description
Port	Port Number
PvID	The PvID, the VLAN ID assigned to untagged frames or Priority-Tagged frames received on this port.
AccepttableFrameType	When this is admitOnlyVlanTagged (2) the device will discard untagged frames or Priority-Tagged frames received on this port. When adminAll (1), untagged frames or Priority-Tagged frames received on this port will be accepted and assigned to the PVID for this port. It does affect VLAN dependent BPDU frames, such as GMRP.
IngressFiltering	When this is true (1) the device will discard incoming frames for VLANs which do not include this port in its Member set. When false (2), the port will accept all incoming frames.

Retrieving VLAN Port.

- Select the target object to perform a function from Tree Viewer. The selected object is displayed on the 'Target' field (1) of the window.
- 2. Click the [Retrieve] button (2) to retrieve information on SIP Phone Mgmt.
- **3.** The retrieval result is displayed on the result table (**3**) in the window.

Classification Management (GPLIM/WIM Only)

This function allows retrieving and setting up Classification parameters.

This function is performed in order of [Switch] \rightarrow [VLAN] \rightarrow [Classification].

VLAN Base	Static VLAN VLAN Port	Classification		
Target	/Data/gplimt			
			Get	
	[Classification]		Get	
	[Classification]		ClassificationMode	

Figure 2.41 Classification Management Window

Parameters displayed on the '**Classification**' menu window are described as follows:

Parameter	Description
ClassificationMode	Selected automatically according to the VLAN Mode. Incase of 802.1Q VLAN, 'proto' is selected. In case of MAC based VLAN, 'MAC' is selected. - proto (1): protocol based VLAN - mac (2): MAC address based VLAN - notsupp (3): Not Supported

Retrieving Classification.

- Select the target object to perform a function from Tree Viewer. The selected object is displayed on the 'Target' field (1) of the window.
- 2. Click the [Retrieve] button (2) to retrieve information on SIP Phone Mgmt.
- **3.** The retrieval result is displayed on the result table (**3**) in the window.



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CHAPTER 3. Router Management

This chapter describes router management window and function of OfficeServ NMS.

The Router management is to manage and control the configurations for using router cards.



Figure 3.1 Router Management Window

Number	Description
0	Target Field of Router Management Window
2	[Get] Button of Router Management Window
3	Result Table of Router Management Window

Static Routing

IP Cidr Route Management (GWIM/GSIM/WIM Only)

This function allows retrieving and setting up parameters of IP Routing Table.

This function is performed in order of [Route] \rightarrow [Static Routing] \rightarrow [IP Cidr Route].

	Target	/New0	ficeServ/NewGSIM										
	Dest					Mask							
	Tos NextHop												
						Get							
IP Cie	dr Route]					Get							
1P CK	dr Route] Dest	Mask	NextHop	IfIndex	Туре	Proto	Age	Info	Metric 1	Metric2	Metric3	Metric4	Metric
IP CK	dr Route] Dest 0.0.0.0	Mask 0.0.0.0	NextHop 10.89.30.1	IfIndex 16	Type 1	Cet Proto 3	Age 11221	Info 0.0	Metric1	Metric2 -1	Metric3	Metric4 -1	Metric:
	fr Route] Dest 0.0.0.0 10.89.30.0	Mask 0.0.0.0 255.255.255.0	NextHop 10.89.30.1 0.0.0,0	IfIndex 16	Туре 1 0	Proto 3 13	Age 11221 11189	Info 0.0 0.0	Metric1 0	Metric2 -1	Metric3 -1	Metric4 -1	Metric: -1 -1

Figure 3.2 IP Cidr Route Management Window

Parameters displayed on the '**IP Cidr Route**' menu window are described as follows:

Parameter	Description
Dest	The destination IP Address of this route.
Mask	Indicate the mask to be logical-ANDed with the destination address before being compared to the value in the ipCidrRouteDest field.
NextHop	On remote routes, the address of the next system route; otherwise, 0.0.0.0
lfIndex	The IfIndex value which identifies the local interface through which the next hop of this route should be reached.
Туре	 The type of route. other (1) reject (2): A route which, if matched, discards the message as unreachable. local (3): A route which the next hop is the final destination remote (4): A route for which the next hop is not the final destination

Parameter	Description
Proto	Description The routing mechanism via which this route was learned. - 1: other (1) - 2: local (2) - 3: netmgmt (3) - 4: icmp (4) - 5: egp (5) - 6: ggp (6) - 7: hello (7) - 8: rip (8) - 9: isls (9) - 10: esls (10)
	- 11: ciscolggrp (11) - 12: bbnSpfgp (12) - 13: ospf (13) - 14: bgp (14) - 15: idpr (15) - 16: ciscoEigrp (16)
Age	The number of seconds since this route was last updated or otherwise determined to be correct.
Info	A reference to the particular routing protocol which is responsible for this route.
Metric1	The primary routing metric for this route.
Metric2	An alternate routing metric for this route.
Metric3	An alternate routing metric for this route
Metric4	An alternate routing metric for this route
Metric5	An alternate routing metric for this route

(Continued)

Retrieving IP Cidr Route.

- Select the target object to perform a function from Tree Viewer.
 The selected object is displayed on the 'Target' field (1) of the window.
- 2. Click the [Retrieve] button (2) to retrieve information on SIP Phone Mgmt.
- **3.** The retrieval result is displayed on the result table (**3**) in the window.

RIP

RIP Global Management (GWIM/GSIM/WIM Only)

This function allows retrieving and setting up RIP Global parameters.

This function is performed in order of [Route] \rightarrow [RIP] \rightarrow [RIP Global].



Figure 3.3 RIP Global Management Window

Parameters displayed on the '**RIP Global'** menu window are described as follows:

Parameter	Description
RoutegChanges	The number of route changes made to IP Route Database by RIP.
Queries	The number of responses sent to RIP queries from other systems.

Retrieving RIP Global.

- Select the target object to perform a function from Tree Viewer.
 The selected object is displayed on the 'Target' field (1) of the window.
- 2. Click the [Retrieve] button (2) to retrieve information on SIP Phone Mgmt.
- **3.** The retrieval result is displayed on the result table (③) in the window.

RIP Interface Stat Management (GWIM/GSIM/WIM Only)

This function allows retrieving and setting up parameters of RIP Interface Stat.

This function is performed in order of [Route] \rightarrow [RIP] \rightarrow [RIP Interface Stat].

Т	inget /NewOfficeSer	NewGSIM	Address	
		Get		
P Interface S	tat]			
P Interface 9	tat] Address	RcvBadPackets	RcvBadRoutes	SentUpdates

Figure 3.4 RIP Interface Stat Management Window

Parameters displayed on the '**RIP Interface Stat**' menu window are described as follows:

Parameter	Description
Address	The IP Address of this system on the indicated subnet
RcvBadPackets	The number of RIP response packets received by the RIP process which were subsequently discarded for any reason (e.g., a version 0 packet, or an unknown command type)
RcvBadRoutes	The number of routes, invalid RIP Packets, which were ignored for any reason. (e.g., unknown address family, or invalid metric)
SentUpdates	The number of triggered RIP updates actually sent o this interface

Retrieving RIP Interface Stat.

- Select the target object to perform a function from Tree Viewer.
 The selected object is displayed on the 'Target' field (1) of the window.
- 2. Click the [Retrieve] button (2) to retrieve information on SIP Phone Mgmt.
- **3.** The retrieval result is displayed on the result table (③) in the window.

RIP Interface Conf Management (GWIM/GSIM/WIM Only)

This function allows retrieving and setting up parameters of RIP Interface Conf.

This function is performed in order of [Route] \rightarrow [RIP] \rightarrow [RIP Interface Conf].

	Target	/NewOfficeServ/NewO	3SIM		Addr	C55		
				Get				
IP Inter	face Conf]							
IP Inter	face Conf] Address	Domain	AuthType	AuthKey	Send	Receive	DefaultMetric	SrcAddress



Parameters displayed on the '**RIP Interface Conf**' menu window are described as follows:

Parameter	Description
Address	The IP Address of this system on the indicated subnet.
Domain	Value inserted into the Routing Domain field of all RIP packet sent on this interface.
AuthType	The type of Authentication used on this interface. - 1: noAuthentication (1) - 2: simplePassword (2) - 3: md5 (3)
AuthKey	The value to be used as the Authentication Key whenever the corresponding instance of AuthType has a value other than no Authentication. (0~16 hex-string)

(Continued)

Parameter	Description
Send	What the router sends on this interface.
	- 1: donotSend (1)
	- 2: riptersion1 (2), sending RIP updates
	- 3. hp (Compatible (3), boraccasting RIP-2 updates
	- 5: rin)/1Demand (5) the use of Demand RIP on a W/AN
	interface under RIP version 1 rules
	- 6: ripV2Demand (6), the use of Demand RIP on a WAN
	interface under RIP version 2 rules.
Receive	This indicates which version of RIP updates are to be
	accepted.
	- 1: rip1 (1)
	- 2: rip2 (2), reception of multicast packets
	- 3: rip1OrRip2 (3), reception of multicast packets
	- 4: doNotReceive (4)
DefaultMetrix	The variable indicates the metric that is to be used for the
	default route entry in RIP updates originated on this interface.
SrcAddress	The IP Address this system will use as a source address on
	this interface.

Retrieving RIP Interface Conf.

- Select the target object to perform a function from Tree Viewer. The selected object is displayed on the 'Target' field (1) of the window.
- 2. Click the [Retrieve] button (2) to retrieve information on SIP Phone Mgmt.
- 3. The retrieval result is displayed on the result table (3) in the window.

RIP Peer Management (GWIM/GSIM/WIM Only)

This function allows retrieving and setting up parameters of RIP Peer.

This function is performed in order of [Route] \rightarrow [RIP] \rightarrow [RIP Peer]

Target	/Data/wim			
Address			Domain	
		Get		

Figure 3.6 RIP Peer Management Window

Parameters displayed on the 'RIP Peer' menu window are described as follows:

Parameter	Description
Address	The IP Address of this system on the indicated subnet.
Domain	Value inserted into the Routing Domain field of all RIP packets sent on this interface.
LastUpdate	The value of sysUpTime when the most recent RIP updates was received from this system.
Version	The RIP Version number in the header of the last RIP packet received.
RcvBadPackets	The number of RIP response packets from this peer discarded as invalid.

Retrieving RIP Peer

- Select the target object to perform a function from Tree Viewer. The selected object is displayed on the 'Target' field (1) of the window.
- 2. Click the [Retrieve] button (2) to retrieve information on SIP Phone Mgmt.
- **3.** The retrieval result is displayed on the result table (③) in the window.

OSPF

General Group Management (GWIM/GSIM/WIM Only)

This function allows retrieving and setting up general group parameters.

This function is performed in order of [Route] \rightarrow [OSPF] \rightarrow [General Group].

ieneral Group Area Stub Area Link State DB Area Range Host	Interface Interface Metric Neighbor Virtual Neighbor Ext Link State DB Area Aggregate
Target /Data/wim	
	Get
[General Group]	
RouterId	10.89.25.212
AdminStat	enabled
VersionNumber	2
AreaBdrRtrStatus	false
ASBdrRtrStatus	false
ExternLsaCount	0
ExternLsaCksumSum	0
TOSSupport	false
OriginateNewLsas	1
RxNewLsas	0
ExtLsdbLimit	-1
MulticastExtensions	0
ExitOverflowInterval	0
DemandExtensions	false

Figure 3.7 General Group Management Window

Parameters displayed on the 'General Group' menu window are described as follows:

Parameter	Description
RouterId	Router ID By convention, it ensure uniqueness, this should default to the value of one of the route's IP Interface addresses.
AdminStat	The administrative status of OSPF in the router. The value 'enabled' denotes that the OSPF process is active at least one interface; 'disabled' disables it on all interfaces.
VersionMumber	The current Version number of the OSPF protocol is 2
AreaBdrRtrStatus	A flag to note whether this router is an area border router.
AsBdrRtrStatus	A flag to note whether this router is configured as an Autonomous System border router.

(Continued)

Parameter	Description
ExternLsaCount	The number of external (LS type 5) link-state advertisements in the link-state database.
ExternLsaCksumsum	The 32-bit unsigned sum of the LS checksums of the external link-state advertisements contained in the link-state database.
TOSSupport	The router's support for type-of-service routing.
OriginateNewLsas	The number of new link-state advertisements that have been originated.
RxNewLsas	The number of new link-state advertisements received determined to be new instantiations.
ExtLsdbLimit	The maximum number of nn-default AS-external-LSAs entries that can be stored in the link-state database. If the value is-1, then there is no limit.
MulticastExtensions	A bit mask indicating whether the router is forwarding IP Multicasting (Class D) datagrams based on the algorithms defined in the Multicast Extensions to OSPF If set, - Bit 0: intra-area multicast routing (directly attached areas) - Bit 1: inter-area multicast routing (between OSPF areas) - Bit 2: inter-AS multicast routing (between Autonomous Systems)
	 Only certain combinations of bit setting are allows: - 0: no multicast forwarding is enabled - 1: intra-area multicast only - 3: intra-area and inter-area multicast only - 5: intra-area and inter-AS multicast only - 7: multicasting everywhere
ExitOverflowInterval	The number of seconds that, after entering OverflowState, a router will attempt to leave OverflowState.
DemandExtensions	The router's support for Demanding routing.

Retrieving General Group.

- Select the target object to perform a function from Tree Viewer. The selected object is displayed on the 'Target' field (1) of the window.
- 2. Click the [Retrieve] button (2) to retrieve information on SIP Phone Mgmt.
- **3.** The retrieval result is displayed on the result table (**3**) in the window.

Area Management (GWIM/GSIM/WIM Only)

This function allows retrieving and setting up Area parameters.

This function is performed in order of [Route] \rightarrow [OSPF] \rightarrow [Area].

	Target	/NewOfficeServ/	/NewGSIM		Are	aId		
					Get			
rea]								
ea] AreaId	AuthType	ImportAsExtern	SpfRuns	AreaBdrRtrCount	AsBdrRtrCount	AreaLsaCount	AreaLsaCksumSum	AreaSummary

Figure 3.8 Area Management Window

Parameters displayed on the 'Area' menu window are described as follows:

Parameter	Description
Areald	Uniquely identifying an area. Area Id 0.0.0.0 is used for the OSPF backbone
AutyType	The Authentication Type specified for an area.
ImportAsExtern	The area's support for importing AS external link-state advertisements.
SpfRuns	The number of times that the intra-area route table has been calculated using this area's link-state database.
AreaBdrRtrCount	The total number of area border routers reachable within this area. This is initially zero, and is calculated in each SPF Pass.
AsBdrRtrCount	The total number of AS border routers reachable within this area. This is initially zero, and is calculated in each SPF Pass.
AreaLsaCount	The total number of link-state advertisements in this area's link-state database, excluding AS external LSA's.
AreaLsaChksumSum	The 32-bit unsigned sum of the link-state advertisements LS checksums contained in this area's link-state database.
AreaSummary	 Controls the import of summary LSAs into stub area. It has no effect no other area. 1: noAreaSummary, It will reply entirely on its default route. 2: sendAreaSummary (2), It will both summarize and propagate summary LSAs.

Retrieving Area.

- Select the target object to perform a function from Tree Viewer. The selected object is displayed on the 'Target' field (1) of the window.
- 2. Click the [Retrieve] button (2) to retrieve information on SIP Phone Mgmt.
- **3.** The retrieval result is displayed on the result table (③) in the window.

Stub Area Management (GWIM/GSIM/WIM Only)

This function allows retrieving and setting up parameters of Stub Area.

This function is performed in order of [Route] \rightarrow [OSPF] \rightarrow [Stub Area].

Target	/NewOfficeServ/N	lewGSIM				
Areald						
Stub Area]			Get			
Stub Area] Areald		TOS	Get		MetricType	

Figure 3.9 Stub Area Management Window

Parameters displayed on the '**Stub Area**' menu window are described as follows:

Parameter	Description
Areald	Uniquely identifying a stub area.
TOS	The Type of Service associated with the metric.
Metric	The Metric value applied at the indicated type of service. By default, this equals the least metric at the type of service among the interfaces to other area.
MetricType	This variable displays the type of metric advertised as a default route.

Retrieving Stub Area.

- Select the target object to perform a function from Tree Viewer.
 The selected object is displayed on the 'Target' field (1) of the window.
- 2. Click the [Retrieve] button (2) to retrieve information on SIP Phone Mgmt.
- 3. The retrieval result is displayed on the result table (③) in the window.

Link State DB Management (GWIM/GSIM/WIM Only)

This function allows retrieving and setting up parameters of Link Stat DB.

This function is performed in order of [Route] \rightarrow [OSPF] \rightarrow [Link State DB].

General	Group Are	a Stub Area	Link State	DB Area Rang	je Hosl	t Interface	Interface Metric Virtual Interfa	e Neighbor Virtual Neighbor	Ext Link State DB	Area Aggregate
	Tar	get	/New	OfficeServ/New(GS1M					
	Are	ble						Туре		
	Lsi	id						RouterId		
Link State	• DB]						Get			
Areald	Туре	Lsid	RouterId	Sequence	Age	Checksum			Advertisement	
0.0.0.100	routerLink	10.89.30.25	10.89.30.25	-2147483580	1136	48348	00 00 00 01 0a 59 1e 19 0a	59 1e 19 80 00 00 44 bc dc 00 3	0 00 00 00 02 0a 59 1e	00 ff ff ff 00 03 00 00 01 0a 59 1e 2f ff ff ff ff 03 00 00 00

Figure 3.10 Link State DB Management Window

Parameters displayed on the 'Link State DB' menu window are described as follows:

Parameter	Description
Areald	The identifier of the Area from which the LSA was received
Туре	The type of the link state advertisement - 1: routeLink (1) - 2: networkLink (2) - 3: summaryLink (3) - 4: asSummaryLink (4) - 5: asExternalLink (5) 6: multiagetLink (6)
	- 7: nssaExternalLink (7)
Lsid	The link state ID is an LS type specific field containing either a Router ID or an IP Address
RouterId	The uniquely identifier the originating router in the AS
Sequence	The Sequence number field is a signed 32-bit integer. It is used to detect oid and duplicate link state advertisements.
Age	The field is the Age of the link state advertisement in seconds.
Checksum	This field is the Checksum of the complete contents of the advertisement, excepting the age filed.
Advertisement	The entire link state Advertisement, including its header.

Retrieving Link State DB.

- Select the target object to perform a function from Tree Viewer.
 The selected object is displayed on the 'Target' field (1) of the window.
- 2. Click the [Retrieve] button (2) to retrieve information on SIP Phone Mgmt.
- **3.** The retrieval result is displayed on the result table (**3**) in the window.

Area Range Management (GWIM/GSIM/WIM Only)

This function allows retrieving and setting up parameters of Area Range.

This function is performed in order of [Route] \rightarrow [OSPF] \rightarrow [Area Range].

Target	/NewOfficeServ/NewGSIM				
Arcald			Net		
rea Range]		fiel			
rea Range] ArcaId	Net	tiet Mask		Effect	

Figure 3.11 Area Range Management Window

Parameters displayed on the '**Area Range**' menu window are described as follows:

Parameter	Description
Areald	The Area the Address Range is to be found within
Net	The IP Address of the Net or Subnet indicated by the range
Mask	The subnet Mask that pertains to the Net or Subnet
Effect	Obsolete

Retrieving Area Range.

- Select the target object to perform a function from Tree Viewer.
 The selected object is displayed on the 'Target' field (1) of the window.
- 2. Click the [Retrieve] button (2) to retrieve information on SIP Phone Mgmt.
- **3.** The retrieval result is displayed on the result table (③) in the window.

Host Management (GWIM/GSIM/WIM Only)

This function allows retrieving and setting up Host parameters.

This function is performed in order of [Route] \rightarrow [OSPF] \rightarrow [Host].

Target	/NewOfficeServ/	NewGSIM		
IpAddress	3		TOS	
Host] II	Address	TOS	Netric	AreaID

Figure 3.12 Host Management Window

Parameters displayed on the 'Host' menu window are described as follows:

Parameter	Description
IpAddress	The IP Address of Host
TOS	The Type Of Service if the route being configured.
Metric	The Metric to be advertised.
ArealD	The Area the Host entry is to be found within. By default, the area a subsuming OSPF interface is in, or 0.0.0.0

Retrieving Host.

- Select the target object to perform a function from Tree Viewer.
 The selected object is displayed on the 'Target' field (1) of the window.
- 2. Click the [Retrieve] button (2) to retrieve information on SIP Phone Mgmt.
- 3. The retrieval result is displayed on the result table (3) in the window.

Interface Management (GWIM/GSIM/WIM Only)

This function allows retrieving and setting up Interface parameters.

This function is performed in order of [Route] \rightarrow [OSPF] \rightarrow [Interface].

		Target		/Date	s/wim									
		IpAddres	\$						Addre	essLessIf				
								Ciat						
In	erface]	Addressiesalf	Arrald	Type	AdminStat	BtrPriority	TransitOelay	Retranslaterval	tielloInterval	RtriteadInterval	Pollinterval	State	DesignatedRouter	BackunDesignated
In	IpAddress	AddressLessIf	Area1d	Type broadcast	AdminStat enabled	RtrPriority	TransitDelay	RetransInterval 5	HelloInterval	RtrDeadInterval	PollInterval	State designatedRouter	DesignatedRouter	BackupDesignatedR
0	erface] IpAddress 10.0.1.1 10.0.2.1	AddressLessIf 0 0	Areald 0.0.0.100 0.0.0.100	Type broadcast broadcast	AdminStat enabled enabled	RtrPriority	TransitDelay 1 1	RetransInterval 5 5	HelloInterval 10 10	RtrDeadInterval 40 40	PollInterval 120 120	State designatedRouter designatedRouter	DesignatedRouter 10.0.1.1 10.0.2.1	BackupDesignatedR 0.0.0.0 0.0.0.0
000	erface] IpAddress 10.0.1.1 10.0.2.1 10.0.3.1	AddressLessIf 0 0 0	Areald 0.0.0.100 0.0.0.100 0.0.0.100	Type broadcast broadcast broadcast	AdminStat enabled enabled enabled	RtrPriority 1 1	TransitOelay 1 1	RetransInterval 5 5 5	HelloInterval 10 10 10	RtrDeadInterval 40 40 40	Pollinterval 120 130 120	State designatedRouter designatedRouter designatedRouter	DesignatedRouter 10.0.1.1 10.0.2.1 10.0.3.1	BackupDesignatedR 0.0.0.0 0.0.0.0 0.0.0.0

Figure 3.13 Interface Management Window

Parameters displayed on the 'Interface' menu window are described as follows:

Parameter	Description
IPAddress	The IP Address of this OSPF interface
AddressLessIf	For the purpose of easing the instancing of addressed and addressless interfaces; This variable takes the value 0 on interfaces with IP Addresses, and the corresponding value of ifIndex for interfaces having no IP Address.
Areald	Uniquely identifying the area to which the interface connects. Area ID 0.0.0.0 is used for the OSPF backbone.
Туре	The OSPF Interface Type - 1: broadcast (1) - 2: nbma (2) - 3: pointToPoint (3) - 4: pointToMultipoint (5)
AdminStat	The OSPF interface's administrative status. The value formed on the interface, and the interface will be advertised as an internal route to some area. The value 'disabled' denotes that the interface is external to OSPF
RtrPriority	The Priority of this interface. Used in multi-access networks, this field is used in the designated router election algorithm. The value 0 signifies that the router is not eligible to become the designated router on this particular network.
TransitDelay	The estimated number of seconds it takes to transmit a link state update packet over this interface.

(Continued)

Parameter	Description
RetransInterval	The number of seconds between link-state advertisement retransmissions, for adjacencies belonging to this interface.
HelloInterval	The length of time, in seconds, between the Hello packets that the router sends on the interface. This value must be the same for all routers attached to a common network.
RtrDeadInterval	The number of seconds that a router's Hello packets have not been seen before it's neighbors declare the router down.
PollInterval	The larger time interval, in seconds, Between the Hello packets sent to an inactive non-broadcast multi-access neighbor.
State	The OSPF Interface State - 1: down (1) - 2: loopback (2) - 3: waiting (3) - 4: pointToPoint (4) - 5: designatedRouter (5) - 6: backupDesignatedRouter (6) - 7: otherDesignatedRouter (7)
DesignatedRouter	The IP Address of the Designated Router
BackupDesignated Router	The IP Address of the Backup Designated Router
Events	The number of times this OSPF Interface has changed its state or an error has occurred.
AuthKey	Authentication Key
MulticastForwarding	Multicasting Type - 1: blocked (1) - 2: multicast (2) - 3: unicast (3)
Demand	It's required to perform Demand OSPF procedures on this Interface.
AuthType	An Identified Authentication Type on this Interface.
Demand	Indicates whether Demand OSPF procedures should be performed on this interface.
AuthType	The Authentication Type specified for an interface.

Retrieving Interface.

- Select the target object to perform a function from Tree Viewer. The selected object is displayed on the 'Target' field (1) of the window.
- 2. Click the [Retrieve] button (2) to retrieve information on SIP Phone Mgmt.
- **3.** The retrieval result is displayed on the result table (**3**) in the window.

Interface Metric Management (GWIM/GSIM/WIM Only)

This function allows retrieving and setting up parameters of Interface Metric.

This function is performed in order of [Route] \rightarrow [OSPF] \rightarrow [Interface Metric].

Target /OfficeServ/gaim IpAddress AddressLessIf TOS	IpAddress TOS
AddressLessIf TOS Get Interface Metric]	TOS
aterface Metric]	
sterface Hetric]	
tende Hone Address and States and State	
IDADDRESS ADDRESSLESSIT 105 Y	AddressLessIf TOS Value
0 10.89.30.47 0 0	

Figure 3.14 Metric Management Window

Parameters displayed on the 'Interface Metric' menu window are described as follows:

Parameter	Description
IpAddress	The IP Address of this OSPF Interface.
AddressLessIf	For the purpose of easing the instancing of addressed and addressless interfaces; This variable takes the value 0 on interfaces with IP Addresses, and the corresponding value of ifIndex for interfaces having no IP Address.
TOS	The Type Of Service metric being referenced.
Value	The metric of using this type of service on this interface. The default value of the TOS 0 Metric is 108/ifSpeed.

Retrieving Interface Metric.

- Select the target object to perform a function from Tree Viewer. The selected object is displayed on the 'Target' field (1) of the window.
- 2. Click the [Retrieve] button (2) to retrieve information on SIP Phone Mgmt.
- **3.** The retrieval result is displayed on the result table (**3**) in the window.

Neighbor Management (GWIM/GSIM/WIM Only)

This function allows retrieving and setting up Neighbor parameters.

This function is performed in order of [Route] \rightarrow [OSPF] \rightarrow [Neighbor].

Ge	neral Group	Area	Stub Area	Link State D	B Area Rang	e Host	Interface	Interface M	etric Nelo	hbor Virtual Neighbo	r Ext Link State DB	Area Aggregate
	Tar	get		/NewOfficeSer	v/NewGWIM			_				
	IpA	ddr							Add	ressLessIndex		
	hbor]							Get			Secto support discuss	
eigl	IpAddr	3	AddressLes	sIndex	RtrId	Options	Priority	State	Events	LsRetransQLen	NbmaNbrPermane	nce NbrHelloSuppresse

Figure 3.15 Neighbor Management Window

Parameters displayed on the '**Neighbor**' menu window are described as follows:

Parameter	Description
lpAddr	The IP Address this neighbor is using in its IP Source Address.
AddressLessIndex	On an interface having an IP Address, zero. On addressless interfaces, the corresponding value of ifIndex.
Rtrld	An uniquely identifying the neighbor router in the AS.
Option	 A bit mask corresponding to the neighbor's options field. Bit 0: if sets, the system will operate on TOS Service metrics other than TOS 0. if zero, the neighbor will ignore all metrics except the TOS 0 metric. Bit 1: if set, the associated area accepts and operates on external information, if zero, it is a stub area. Bit 2: if set, the system is capable of routing IP Multicast datagrams. Bit3: if set, the associated area in an NSSA.
Priority	The Priority of this neighbor in the designated router election algorithm. The value 0 signifies that the neighbor is not eligible to become the designated router on this particular network.

Parameter	Description
State	The State of the relationship with this Neighbor. - 1: down (1) - 2: attempt (2) - 3: init (3) - 4: twowWy (4) - 5: exchangeStart (5) - 6: exchange (6) - 7: loading (7) - 8: full (8)
Events	The number of times this neighbor relationship has changed state, or error has occurred.
LsRetransQLen	The current length of the retransmission queue.
NbmaNbPermenence	This variable displays the status of the entry. It refers to how the neighbor become known. - 1: dynamic (1) - 2: permanent (2)
NbrHelloSuppressed	Indicates whether Hellos are being suppressed to the neighbor.

(Continued)

Retrieving Neighbor.

- Select the target object to perform a function from Tree Viewer. The selected object is displayed on the 'Target' field (1) of the window.
- 2. Click the [Retrieve] button (2) to retrieve information on SIP Phone Mgmt.
- 3. The retrieval result is displayed on the result table (③) in the window.

Virtual Neighbor Management (GWIM/GSIM/WIM Only)

This function allows retrieving and setting up parameters of Virtual Neighbor.

This function is performed in order of [Route] \rightarrow [OSPF] \rightarrow [Virtual Neighbor].

Target /Data/wm VirtNbrArea VirtNbrRtrld	Area Aggregate	Ext Link State UB	virtual Neighbor	weighbor	Interface Metric	Interrace	most	erea kange	LINK State DB	Stub Area	Area	General Group
VirtNbrArea VirtNbrRtr1d									/Data/wim		Target	
Cat				RtrId	VirtNb					ea	/irtNbrAr	

Figure 3.16 Virtual Neighbor Management Window

Parameters displayed on the '**Virtual Neighbor**' menu window are described as follows:

Parameter	Description
VirtualNbrArea	The Transit Area Identifier
VirtualNbrtrld	An uniquely identifying the neighbor router in the AS
VirtNbrlpAddr	IP Address this virtual Neighbor is using.
VirtNbrOptions	 A bit Mask corresponding to the neighbor's option's field. Bit 1: ifsets, the system will operate on TOS Service metrics other than TOS 0. if zero, the neighbor will ignore all metrics except the TOS 0 metric. Bit 2: if set, the system is capable of routing IP Multicast datagrams.
VirtNbrState	The State of the relationship with this Neighbor. - 1: down (1) - 2: attempt (2) - 3: init (3) - 4: twowWy (4) - 5: exchangeStart (5) - 6: exchange (6) - 7: loading (7) - 8: full (8)

(Continued)

Parameter	Description
VirtNbrEvents	The number of times this virtual link has changed state, or error has occurred.
VirtNbrLsRetransQLen	The current length of the retransmission queue
VirtNbrHelloSuppressed	Indicates whether Hellos are being suppressed to the virtual link.

Retrieving Virtual Neighbor.

- Select the target object to perform a function from Tree Viewer. The selected object is displayed on the 'Target' field (1) of the window.
- 2. Click the [Retrieve] button (2) to retrieve information on SIP Phone Mgmt.
- **3.** The retrieval result is displayed on the result table (**3**) in the window.

Ext Link State DB (GWIM/GSIM/WIM Only)

This function allows retrieving and setting up parameters of Ext. Link State DB.

This function is performed in order of [Route] \rightarrow [OSPF] \rightarrow [Ext Link State DB].

General Group Area Stub Area	Link State DB Area Range Host Interface	Interface Metric Neighbor	Virtual Neighbor	Ext Link State DB Area Aggregate		
Target	/Data/wim	ExtLsdbType				
ExtLsdbLsid		ExtLsdbRouterId				

Figure 3.17 Ext Link Group State DB Management Window

Parameters displayed on the 'Ext Link State DB' menu window are described as follows:

Parameter	Description
ExtLsdbType	The type of the link state advertisement. Each link state type has a separate advertisement format.
ExtLsdbLsid	The Link State ID is an LS Type Specific field containing either a Router ID or an IP Address
ExtLsdbRouterId	The uniquely identifying the originating router in the AS
Sequence	The Sequence number field is a signed 32-bit integer. It is used to detect oid and duplicate link state advertisements.
Age	The field is the Age of the link state advertisement in seconds.
Checksum	This field is the Checksum of the complete contents of the advertisement, excepting the age filed.
Advertisement	The entire link state Advertisement, including its header.

Retrieving Ext Link State DB.

- Select the target object to perform a function from Tree Viewer.
 The selected object is displayed on the 'Target' field (1) of the window.
- Click the [Retrieve] button (2) to retrieve information on SIP Phone Mgmt.
- **3.** The retrieval result is displayed on the result table (③) in the window.
Area Aggregate Management (GWIM/GSIM/WIM Only)

This function allows retrieving and setting up parameters of Area Aggregate.

This function is performed in order of [Route] \rightarrow [OSPF] \rightarrow [Area Aggregate].

I arget //Data/with AreaAggregateAreaID AreaAggregateLsdbType AreaAggregateNet AreaAggregateMask		-							
AreaAggregateLsdbType AreaAggregateNask Qet		Target		/Data/wim					
AreaAggregateNet AreaAggregateNask	AreaA	ggregate	AreaID			AreaAggrega	teLsdbType	•	
Get	AreaAggregateNet				AreaAggre	gateMask			
						et			

Figure 3.18 Area Aggregate Management Window

Parameters displayed on the 'Area Aggregate' menu window are described as follows:

Parameter	Description
AreaAggregateAreaID	The Area the Address Aggregate is to be found within.
AreaAggregateLsdbType	The type of the Address Aggregate. - 1: summaryLink (1) - 2: nssaExternalLink (2)
AreaAggregateNet	The IP Address of the Net or subnet indicated by the range.
AreaAggregateMask	The subnet Mask that pertains to the Net or Subnet.
AreaAggregateEffect	Subnets subsumed by ranges either trigger the advertisement of the indicated aggregate, or result in the subnet's not being advertised at all outside the area.

Retrieving Area Aggregate.

- Select the target object to perform a function from Tree Viewer.
 The selected object is displayed on the 'Target' field (1) of the window.
- 2. Click the [Retrieve] button (2) to retrieve information on SIP Phone Mgmt.
- **3.** The retrieval result is displayed on the result table (③) in the window.

BGP

BGP Peer Management (GWIM/GSIM/WIM Only)

This function allows retrieving and setting up parameters of BGP Peer.

This function is performed in order of [Router] \rightarrow [BGP] \rightarrow [BGP Peer].



Figure 3.19 BGP Peer Management Window

Parameters	displayed	on the '	'BGP	Peer'	menu	window a	re descri	bed as
follows:								

Parameter	Description
Peerldentifier	The BGP Identifier of this entry's BGP Peer.
PeerState	BGP Peer Connection state.
PeerAdminStatus	The desired state of the BGP connection. - 1: stop (1) - 2: start (2)
PeerNegotiatedVersion	The Negotiated Version of BGP running between two peers.
PeerLocalAddr	The Local IP Address of this entry's BGP connection.
PeerLocalPort	The Local Port for the TCP connection between the BGP peers
PeerRemoteAddr	The Remote IP Address of this entry's BGP connection.
PeerRemotePort	The Remote Port for the TCP connection between the BGP peers
PeerRemoteAs	The Remote Autonomous System (AS) number
PeerInUpeate	The number of BGP Update messages received on this connection.
PeerOutUpeate	The number of BGP Update messages transmitted on this connection.

Parameter	Description
PeerIntotalMessages	The total number of message received from the remote peer on this connection.
PeerOuttotalMessages	The total number of message transmitted from the remote peer on this connection
PeerLastError	The Last Error code and sub code seen by this peer on this connection. If no error has occurred, this field is zero.
PeerFsmEstablishedTransitions	The total number of times the BGP FSM transitioned into the established state.
PeerFsmEstablishedTime	The timer indicates how long this peer in the Established state or how long since this peer was last in the Established state. It is set zero when a new peer is configured or the router is booted.
PeerConnectRetryInterval	The time Interval in seconds for the ConnectRetry timer is 120 seconds.
PeerHoldTime	The time Interval in seconds for the Hold timer established with the peer
PeerKeepAlive	The time Interval in seconds for the KeepAlive timer established with the peer
PeerTimeConfigured	Time Interval in seconds for the Hold timer configured for this BGP speaker with the peer
PeerKeepAliveConfigured	Time Interval in seconds for the KeepAlive timer configured for this BGP speaker with the peer
PeerMinASOriginationInterval	The time Interval in seconds for the MinASOriginationInterval timer
PeerMinRouteAdvertisementInterval	The time Interval in seconds for the MinRouteAdvertisementInterval timer
PeerInUpdateElapsedTime	Elapsed Time in seconds the last BGP UPDATE message was received from the peer.

Retrieving BGP Peer.

- Select the target object to perform a function from Tree Viewer.
 The selected object is displayed on the 'Target' field (1) of the window.
- 2. Click the [Retrieve] button (2) to retrieve information on SIP Phone Mgmt.
- **3.** The retrieval result is displayed on the result table (**3**) in the window.

BGP-4 Path Attribute Management (GWIM/GSIM/WIM Only)

This function allows retrieving and setting up parameters of BGP-4 Path Attribute.

This function is performed in order of [Router] \rightarrow [BGP] \rightarrow [BGP-4 Path Attribute].

Larget	/Data/mm	PathAttripAddrPrefix	
PathAttrlpAddrPrefixLen		PathAttrPeer	

Figure 3.20 BGP-4 Path Attribute Management Window

Parameters displayed on the '**BGP-4 Path Attribute**' menu window are described as follows:

Parameter	Description
PatAttrPeer	The IP Address of the peer where the path information was learned.
PathAttrlpAddrPrefixLen	Length in bits of the IP address prefix in the Network Layer Reachability Information field.
PathAttrlpAddrPrefix	An IP address prefix in the Network layer Reachability information field. This object is an IP address containing the prefix with length specified by bgp4PathAttripAddrPrefixLen. Any bits beyond the length specified by bgp4PathAttripAddrPrefixLen are zeroed.
Origin	The ultimate origin of the path information
ASPPathSegment	The sequence of AS path segments.
NextHop	The address of the border router that should be used for the destination network.
MultiExitDisc	This metric is used to discriminate between multiple exit points to an adjacent AS. A value of-1 indicates the absence of this attribute.
LocalPref	The originating BGP4 speaker's degree of preference for an advertised route. A value of-1 indicates absence of this attribute.

Parameter	Description
AtomicAggregate	Whether or not the local system has selected a less specific route without selecting a more specific route.
AggregatorAS	The AS number of the last BGP4 speaker that performed route aggregation. A value of zero (0) indicates the absence of this attribute.
AggregatorAddr	The IP Address of the last BGP4 speaker that performed route aggregation. A value of 0.0.0.0 indicates the absence of this attribute.
CalcLocalPref	The degree of preference calculated by the received BGP4 speaker for an advertised route. A value of zero (0) indicates the absence of this attribute.
Best	An indication of whether or not this route was chosen as the best BGP4 route.
Unknown	One or more path attributes not understood by this BGP4 speaker. Size zero (0) indicates the absence of such attributes.

Retrieving BGP-4 Path Attribute

- Select the target object to perform a function from Tree Viewer. The selected object is displayed on the 'Target' field (1) of the window.
- 2. Click the [Retrieve] button (2) to retrieve information on SIP Phone Mgmt.
- **3.** The retrieval result is displayed on the result table (③) in the window.

DVMRP

DVMRP General Management (GWIM/GSIM/WIM Only)

This function allows retrieving and setting up DVMRP General parameters.

This function is performed in order of [Router.] \rightarrow [DVMRP] \rightarrow [DVMRP General].

DVMRP General DVMRP In	iterface DVMRP Neighbor DVMRP I	Route DVMRP Route Next Hop DVMRP Prune	
Target	/NewOfficeServ/NewGSIM		
		Get	
DVMRP General]			
Versio	nString	NumRoutes	ReachableRoutes

Figure 3.21 DVMRP General Management Window

Parameters displayed on the '**DVMRP General**' menu window are described as follows:

Parameter	Description
VersionString	The router's DVMRP version information.
NumRoutes	The number of entries in the routing table. This can be used to monitor the routing table size.
ReachableRoutes	The number of entries in the routing table with non infinite metrics.

Retrieving DVMRP General.

- Select the target object to perform a function from Tree Viewer.
 The selected object is displayed on the 'Target' field (1) of the window.
- 2. Click the [Retrieve] button (2) to retrieve information on SIP Phone Mgmt.
- **3.** The retrieval result is displayed on the result table (③) in the window.

DVMRP Interface Management (GWIM/GSIM/WIM Only)

This function allows retrieving and setting up parameters of DVMRP Interface.

This function is performed in order of [Router] \rightarrow [DVMRP] \rightarrow [DVMRP Interface].



Figure 3.22 DVMRP Interface Management Window

Parameters displayed on the '**DVMRP Interface**' menu window are described as follows:

Parameter	Description
InterfaceIndex	The ifIndex value of the interface for which DVMRP is enabled.
InterfaceLocalAddress	The IP Address this system will use as a source address on this interface.
InterfaceMetric	The distance Metric for this Interface which is used to calculated distance vectors.
InterfaceBadPkts	The number of DVMRP messages received on the interface by the DVMRP process which were subsequently on the interface by the DVMRP process which were subsequently discarded as invalid.
InterfaceBadRoutes	The number of routers, in valid DVMRP packets, which were ignored because the entry id invalid.
InterfaceSentRoutes	The number of routers, in DVMRP Report packets, which have been sent on this interface.
InterfaceKey	The (shared) Key for authenticating neighbors on this interface.

Parameter	Description
InterfaceVersion	The highest Version number of all known interface keys for this interface used for authenticating neighbors.
InterfaceGenerationId	The generation Identifier for the interface. This is used by neighbor routers to detect whether the DVMRP routing table should be resent.

Retrieving DVMRP Interface.

- Select the target object to perform a function from Tree Viewer. The selected object is displayed on the 'Target' field (1) of the window.
- 2. Click the [Retrieve] button (2) to retrieve information on SIP Phone Mgmt.
- **3.** The retrieval result is displayed on the result table (3) in the window.

DVMRP Neighbor Management (GWIM/GSIM/WIM Only)

This function allows retrieving and setting up parameters of DVMRP Neighbor.

This function is performed in order of [Router] \rightarrow [DVMRP] \rightarrow [DVMRP Neighbor].

DVMRP General	DVMRP Interface	DVMRP Neighbor	DVMRP Route	DVMRP Route Next Hop	DVMRP Prune
	Target	/Data/w	m		
					Get
Vaiabhartftadau Vai	abbart danse bei	inhhadlaTime Meinh	hadinin	VaiabberFranzistionTd	lainbhadh sindann ion Vainbhadhinn Van Ion Vainbhadh an bhliting Vainbhadh allsadar Vainbhadh an Bille Vainbhadh

Figure 3.23 DVMRP Neighbor Management Window

Parameters displayed on the '**DVMRP Neighbor**' menu window are described as follows:

Parameter	Description
NeighborlfIndex	The value of ifIndex for the virtual interface used to reach this DVMRP neighbor.
NeighborAddress	The IP Address of the DVMRP neighbor for which this entry contains information.
Uptime	The time since this DVMRP neighbor (last) became a neighbor of the local router
ExpiryTime	The minimum time remaining before this DVMRP neighbor will be aged out
GenerationId	The neighbor router's generation identifier
MajorVersion	The neighbor router's major DVMRP version number
MinorVersion	The neighbor router's minor DVMRP version number
Capabilities	 This object describes the neighbor router's capabilities. 1: leaf (0): the neighbor has only one interface with neighbors. 2: prune (1): the neighbor supports pruning 3: generationID (2): the neighbor sends its generationID in probe messages. 4: mtrace (3): the neighbor can handle mtrace requests. 5: snmp (4) 6: netmask (5)

(Continued)

Parameter	Description
RcvRoutes	The total number of routers received, in valid DVMRP packets received from this neighbor.
RcvBadPkts	The number of packet received from this neighbor which was discarded as invalid.
RcvBadoutes	The number of routers, in valid DVMRP packets, which were ignored because the entry id was invalid.
State	State of the neighbor adjacency - 1: oneway (1) - 2: active (2) - 3: ignoring (3) - 4: down (4)

Retrieving DVMRP Neighbor.

- Select the target object to perform a function from Tree Viewer. The selected object is displayed on the 'Target' field (1) of the window.
- 2. Click the [Retrieve] button (2) to retrieve information on SIP Phone Mgmt.
- 3. The retrieval result is displayed on the result table (3) in the window.

DVMRP Route Management (GWIM/GSIM/WIM Only)

This function allows retrieving and setting up parameters of DVMRP Route.

This function is performed in order of [Router] \rightarrow [DVMRP] \rightarrow [DVMRP Route].

Atter General Darter Inter	face DVMRP Neighbor D	VMRP Route DVMRP Route I	Next Hop DVMRP Prune		
Target	/NewOfficeServ/NewGS	IM			
RouteSource			RouteSourceMask		
			Get		
WMRP Route]		n	Get	Read Contraction	8
WMRP Route] RouteUpstreamNe	eighbor	RouteIfIndex	Get RouteMetric	RouteExpiryTime	RouteUpTime

Figure 3.24 DVMRP Route Management Window

Parameters displayed on the '**DVMRP Route**' menu window are described as follows:

Parameter	Description
RouteSource	The network address which when combined with the corresponding value of RouteSourceMask identifies the source for which this entry contains multicast routing information.
RouteSourceMask	The network mask which when combined with the corresponding value of RouteSource identifies the source for which this entry contains multicast routing information.
RouteUpstreamNeighbor	The address of the upstream neighbor (e.g. RPF neighbor) from which IP datagrams from these sources are received.
RoutelfIndex	The value of ifIndex for the interface on which IP datagrams sent by these sources are received. A value of 0 typically means the route is an aggregate for which no next-hop interface exists.
RouteMetric	The distance in hops to the source subnet.
RouteExpiryTime	The minimum mount of time remaining before this entry will be aged out.
RouteUpTime	The time since the route represented by this entry was learned by the router.

Retrieving DVMRP Route.

- Select the target object to perform a function from Tree Viewer. The selected object is displayed on the 'Target' field (1) of the window.
- 2. Click the [Retrieve] button (2) to retrieve information on SIP Phone Mgmt.
- **3.** The retrieval result is displayed on the result table (**3**) in the window.

DVMRP Route Next Hop Management (GWIM/GSIM/WIM Only)

This function allows retrieving and setting up parameters of DVMRP Route Next Hop.

This function is performed in order of [Router] \rightarrow [DVMRP] \rightarrow [DVMRP Route Next Hop].

MRP General DVMRP Interface D1	MRP Neighbor DVMRP Route DVMRP Route N	ext Hop DVMRP Prune				
Targe	t /Data/wim	/Data/wim				
	Get					
	Doute Neutling Course Mark	Poutoblautitan IfIndau	DoutobloutilonTune			

Figure 3.25 DVMRP Route Next Hop Management Window

Parameters displayed on the '**DVMRP Route Next Hop**' menu window are described as follows:

Parameter	Description
RouteNextHopSource	The network address which when combined with the corresponding value of RouteNextHopSourceMask identifies the source for which this entry specifies a next hop on an outgoing interface.
RouteNextHopSourceMask	The network mask which when combined with the corresponding value of dvmrpRouteSource identifies the source for which this entry specifies a next hop on an outgoing interface.
RouteNHopIfIndex	The value of ifIndex for the interface for outgoing interface for this next hop.
RouteNHopType	Type is leaf if no downstream dependent neighbors exist on the outgoing virtual interface. Otherwise, type is branch. - 1: leaf (1) - 2: branch (2)

Retrieving DVMRP Route Next Hop.

- Select the target object to perform a function from Tree Viewer. The selected object is displayed on the 'Target' field (1) of the window.
- 2. Click the [Retrieve] button (2) to retrieve information on SIP Phone Mgmt.
- **3.** The retrieval result is displayed on the result table (**3**) in the window.

DVMRP Prune Management (GWIM/GSIM/WIM Only)

This function allows retrieving and setting up parameters of DVMRP Prune.

This function is performed in order of [Router] \rightarrow [DVMRP] \rightarrow [DVMRP Prune].

OVMRP General	DVMRP Interface	DVMRP Neighbor DVMRP P	oute DVMRP Route Next Hop DVMRP Prune	
Target			/Data/wim	
			Get	

Figure 3.26 DVMRP Prune Management Window

Parameters displayed on the '**DVMRP Prune**' menu window are described as follows:

Parameter	Description
PruneGroup	The group address which has been pruned.
PruneSource	The address of the source or source network which has been pruned.
PruneSourceMask	The address of the source or source network which has been pruned. The mask must either be all 1's, or else PruneSource and PruneSourceMask must match.
PruneExpiryTime	The amount of time remaining before this prune should expire at the upstream neighbor. This value should be the minimum of the default prune lifetime and the remaining prune lifetimes of the local router's downstream neighbors, if any.

Retrieving DVMRP Prune.

- Select the target object to perform a function from Tree Viewer.
 The selected object is displayed on the 'Target' field (1) of the window.
- 2. Click the [Retrieve] button (2) to retrieve information on SIP Phone Mgmt.
- **3.** The retrieval result is displayed on the result table (③) in the window.

PIM

PIM Interface Management (GWIM/GSIM/WIM Only)

This function allows retrieving and setting up parameters of PIM Interface.

This function is performed in order of [Router] \rightarrow [PIM] \rightarrow [PIM Interface].

PIM Interface PIM Neighbor PI	IM IP Hulticast Route PIM RP	Set PIM IP Multicast	Route Next Hop	PIM Componen						
	Target		/Deta/wim							
				28						
IfIndex Address NetMask Mode DR	HelloInterval JoinPruneI	nt. CBSRPreference	TrigHelloInt.	HelloHoldtime	LanPruneDelay	PropagationDelay	OverrideInterval	GenerationID	JoinPruneHold	DRPriority

Figure 3.27 PIM Interface Management Window

Parameters displayed on the '**PIM Interface**' menu window are described as follows:

Parameter	Description
lfIndex	The ifIndex value of this PIM Interface
Address	The IP Address of the PIM Interface
NetMask	The Network Mask for the IP Address of the PIM Interface
Mode	The configured Mode of this PIM interface. A value of sparse/Dense is only valid for PIMv1 - 1: dense (1) - 2: sparse (2) - 3: sparseDense (3)
DR	The DR (Designated Router) on this PIM Interface
HelloInterval	The frequency at which PIM Hello message are transmitted on this interface.
JoinPruneInterval	The frequency at which PIM Join/Prune message are transmitted on this interface.
CBSRPreference	The preference value for the local interface as a candidate bootstrap router. The value of-1 is used to indicate that the local interface is not a candidate BDR interface.
TrigHelloInterval	The maximum time before a triggered PIM Hello message is transmitted on this interface.

Parameter	Description
HelloHoldTime	The value set in the HoldTime field of Hello messages transmitted on this interface. This should be 3.5 times the value of HelloInterval.
LanPruneDelay	Turns the LAN Prune Delay Option on and off on this interface.
PropagationDelay	The value inserted into the LAN Prune Delay field of a LAN Prune Delay option on this interface
OverrideInterval	The value inserted into the Override interval field of a LAN Prune Delay option on this interface
GenerationID	Turns the Generation ID option on and off on this interface.
JoinPruneHoldTime	The value inserted into the Holdtime field of a join/Prune message sent on this interface. The value should be 3.5 times than pimInterfacePruneInterval.
GraftRetryInterval	The interval a PIM router waits for a Graft Ack before resending a Graft in this interface.
MaxGraftRetires	The maximum number of times this router will resend a Graft on this interface.
SRTTLThreshold	The time To Live in a PIM-DM State Refresh message at which it is not forwarded on this interface.
LanDelayEnabled	Evaluates to TRUE if all routers on this interface using the LAN Prune Delay Option.
SRCapable	Evaluate to TRUE if all routers on this interface are using the State Refresh Capable Option.
DRPriority	The Designator Priority inserted into the DR priority option on this interface.

Retrieving PIM Interface.

- Select the target object to perform a function from Tree Viewer. The selected object is displayed on the 'Target' field (1) of the window.
- 2. Click the [Retrieve] button (2) to retrieve information on SIP Phone Mgmt.
- **3.** The retrieval result is displayed on the result table (③) in the window.

PIM Neighbor Management (GWIM/GSIM/WIM Only)

This function allows retrieving and setting up parameters of PIM Neighbor.

This function is performed in order of [Router] \rightarrow [PIM] \rightarrow [PIM Neighbor].

	PIM Interface	PIM Neighbor	PIM IP Multicast Route	PIM RP Set	PIM IP Multicas	t Route Next Hop	PIM Component			
			Target		/Data/wim					
						11				
-	NeighborAddress	Neighborifi	ndex NeighborUpTi	ne Neigh	horEvoirvTime	NeighborMode	LanPruneDelay	OverrideInterval	NeighborTBit	DPPresent

Figure 3.28 PIM Neighbor Management Window

Parameters displayed on the '**PIM Neighbor**' menu window are described as follows:

Parameter	Description
NeighborAddress	The IP Address of the PIM neighbor for which this entry contains information.
lfIndex	The value of ifIndex for the interface used to reach this PIM neighbor.
UpTime	The time since the PIM neighbor became a neighbor of the local router.
ExpiryTime	The minimum time remaining before this PIM neighbor will be aged out.
Mode	The active PIM mode of this neighbor. - 1: dense (1) - 2: sparse (2)
LanPruneDelay	The value of LAN Prune Delay field of LAN Prune Delay Option received from this neighbor. A value of 0 indicates that no LAN Prune Delay Option was received from this neighbor.
OverrideInterval	The value of override interval field of LAN Prune Delay Option received from this neighbor. A value of 0 indicates that no LAN Prune Delay Option was received from this neighbor.

Parameter	Description
DRPresent	Evaluates to TRUE if this neighbor is using the Designated Router Option.
TBit	The value of T bit field of the LAN Prune Delay Option received from this neighbor. The Tbit specifies the ability of the neighbor to disable join suppression. - 1: false (0) - 2: true (1)

Retrieving PIM Neighbor.

- Select the target object to perform a function from Tree Viewer.
 The selected object is displayed on the 'Target' field (1) of the window.
- 2. Click the [Retrieve] button (2) to retrieve information on SIP Phone Mgmt.
- **3.** The retrieval result is displayed on the result table (**3**) in the window.

PIM IP Multicast Route Management (GWIM/GSIM/WIM Only)

This function allows retrieving and setting up parameters of PIM IP Multicast Route.

This function is performed in order of [Router] \rightarrow [PIM] \rightarrow [PIM IP Multicast Route]



Figure 3.29 PIM IP Multicast Route Management Window

Parameters displayed on the '**PIM IP Multicast Route**' menu window are described as follows:

Parameter	Description
ipMRouteGroup	PIM IP Multicast Route Group Name
ipMRouteSource	PIM IP Multicast Route Group IP Address
ipMRouteSourceMask	PIM IP Multicast Route Group Subnetmask
UpstreamAssertTimer	The time remaining before the router changes its upstream neighbor back to its RPF neighbor. This timer is called the Assert timer in the PIM Sparse and Dense mode specification. A value of 0 indicates that no Assert has changed the upstream neighbor away from the RPF neighbor.
AssertMetric	The metric advertised by the assert winner on the upstream interface, or 0 if no such assert is in received.
AssertMetricPref	The preference advertised by the assert winner on the upstream interface, or 0 if no such assert is in effect.
AssertRPTBit	The value of the RPT-bit advertised by the assert winner on the upstream interface, or false if no such assert is in effect.

Parameter	Description
Flags	This object describes PIM-specific flags related to a multicast state entry. - 1: rpt (0) - 2: spt (1)
RPFNeighbor	The IP Address of current RPF neighbor.

Retrieving PIM IP Multicast Route.

- Select the target object to perform a function from Tree Viewer.
 The selected object is displayed on the 'Target' field (1) of the window.
- 2. Click the [Retrieve] button (2) to retrieve information on SIP Phone Mgmt.
- **3.** The retrieval result is displayed on the result table (**3**) in the window.

PIM RP Set Management (GWIM/GSIM/WIM Only)

This function allows retrieving and setting up parameters of PIM RP Set.

This function is performed in order of [Router] \rightarrow [PIM] \rightarrow [PIM RP Set].

PIM Interface PIM Neighbor	PIM IP Multicast Route PIM RP Set PIM IP Mu	ticast Route Next Hop PIM Candidate RP PIM Component	
Target	/NewOfficeServ/NewOS7400/Cabinet_1/GWIM_	2	
RPSetComponent		RPSetGroupAddress	
RPSetGroupMask		RPSetAddress	
[PIM RP Set]		Get	
RPSetHoldTime		RPSetExpiryTime	
	0	0	
	0	0	

Figure 3.30 PIM RP Set Management Window

Parameters displayed on the '**PIM RP Set**' menu window are described as follows:

Parameter	Description
RPSet GroupAddress	The IP Address group address which, when combined with pimRPSetGroupMask, gives the group prefix for which this entry contains information about the Candidate-RP
RPSet GroupMask	The multicast group address mask which, when combined with pimRPSetGroupAddress, gives the group prefix for which this entry contains information about the Candidate-RP
RPSet Address	The IP Address of the Candidate RP
RPSet HoldTime	The holdtime of a Candidate-RP. If the local router is not the BSR, the value is 0.
RPSet ExpiryTime	The minimum time remaining before the Candidate-RP will be declared down. If the local router is not the BSR, this value is 0.
RPSet Component	A number uniquely identifying the component. Each protocol instance connected to a separate domain should have a different index value.

Retrieving PIM RP Set.

- Select the target object to perform a function from Tree Viewer. The selected object is displayed on the 'Target' field (1) of the window.
- 2. Click the [Retrieve] button (2) to retrieve information on SIP Phone Mgmt.
- **3.** retrieval result is displayed on the result table (**3**) in the window.

PIM Multicast Route Next Hop Management (GWIM/GSIM/WIM Only)

This function allows retrieving and setting up parameters of PIM Multicast Route Next Hop.

This function is performed in order of [Router] \rightarrow [PIM] \rightarrow [PIM Multicast Route Next Hop].

Target	/Data/wim		
	1		
		22	
			outeNextHooSource_inMBouteNextHooSourceMask_inMBouteNextHooIfIndex_inMBouteNextHooAddress

Figure 3.31 PIM Multicast Route Next Hop Management Window

Parameters displayed on the '**PIM Multicast Route Next Hop**' menu window are described as follows:

Parameter	Description
ipMRouteNextHopGroup	Group of PIM Multicast Route Next Hop
ipMRouteNextHopSource	The originating IP Address of PIM Multicast Route Next Hop
ipMRouteNextHopSource Mask	The originating Subnet mask of PIM Multicast Route Next Hop
ipMRouteNextHopIfIndex	The ifindex of PIM Multicast Route Next Hop
ipMRouteNextHopAddress	The IP Address of PIM Multicast Route Next Hop
lpMRouteNextHopPrune Reason	A Prune Reason of PIM Multicast Route Next Hop

Retrieving PIM Multicast Route Next Hop.

- Select the target object to perform a function from Tree Viewer. The selected object is displayed on the 'Target' field (1) of the window.
- 2. Click the [Retrieve] button (2) to retrieve information on SIP Phone Mgmt.
- **3.** The retrieval result is displayed on the result table (**3**) in the window.

PIM Component Management (GWIM/GSIM/WIM Only)

This function allows retrieving and setting up parameters of PIM Component.

This function is performed in order of [Router] \rightarrow [PIM] \rightarrow [PIM Component].

Target	/NewOfficeServ/NewGSIM	Index	
		Get	
1 Component]	BSRAddress	BSRExpiryTime	CRPHoldTime

Figure 3.32 PIM Component Management Window

Parameters displayed on the '**PIM Component**' menu window are described as follows:

Parameter	Description
Index	A number uniquely identifying the component. Each protocol instance connected to a separate domain should have a different index value. Routers that only support membership in a single PIM-SM domain should use a pimComponentIndex value is 1.
BSRAddress	The IP Address of the bootstrap router (BSR) for the local PIM region.
BSRExpiryTime	The minimum time remaining before the bootstrap router in the local domain will be declared down. For candidate BSRs, this is the time until the component sends an RP-set message. For other routers, this is the time until it may accept an RP-set message from a lower candidate BSR.
CRPHoldTime	The holdtime of the component when it is a candidate RP in the local domain. The value of 0 is used to indicate that the local system is not a Candidate-RP.

Retrieving PIM Component.

- Select the target object to perform a function from Tree Viewer. The selected object is displayed on the 'Target' field (1) of the window.
- 2. Click the [Retrieve] button (2) to retrieve information on SIP Phone Mgmt.
- **3.** The retrieval result is displayed on the result table (**3**) in the window.

Frame Relay

DLC Management Interface Management (GWIM/WIM Only)

This function allows retrieving and setting up parameters of DLC Management Interface.

This function is performed in order of [Router] \rightarrow [Frame Relay] \rightarrow [DLC Management Interface].

	Managemo	ent Interface	e DUC/Virtual Circuit					
Target /Office5			/OfficeServ/gwim		Ind	сх		
					Get			
DLC N	lanagemen	Interface J						
DLC M	lanagemen Index	State	PollingInterval	FullEnguiryInterval	ErrorThreshold	MonitoredEvents	MaxSupportedVCs	Status

Figure 3.33 DLC Management Interface Management Window

Parameters displayed on the '**DLC Management Interface**' menu window are described as follows:

Parameter	Description
Index	The ifIndex value of the corresponding ifEntry
State	The variables States which Data Link Connection Management scheme is active (and by implication, what DLCI it uses) on the Frame Relay interface. - 1: noLmiConfigured (1) - 2: ImiRev1 (2) - 3: ansiT1617D(3) - 4: ansiT1617B (4) - 5: itut933A (4) - 6: ansiT1617D1994 (6)
PollingInterval	This is the number of seconds between successive status enquiry message.
FullEnquiryInterval	Number of status enquiry intervals that pass before issuance of a full status enquiry message.
ErrorThreshold	This is the maximum number of unanswered Status Enquiries the equipment shall accept before declaring the interface down.

Parameter	Description
MoniteredEvents	This is the number of status polling intervals over which the error threshold is counted.
MaxSupportedVCs	The Maximum number of Virtual Circuit allowed for this interface. Usually dictated by the Frame Relay network.
Multicast	This indicates whether the Frame Relay interface is using a multicast service. - 1: nonBroadcast (1) - 2: broadcast (2)
Status	This indicates that Status of the Frame Relay interface as determined by the performance of the dlcmi. If no dlcmi is running, the Frame Relay interface will stay in the running state indefinitely. - 1: running (1) - 2: fault (2) - 3: initializing (3)

Retrieving DLC Management Interface.

- Select the target object to perform a function from Tree Viewer. The selected object is displayed on the 'Target' field (1) of the window.
- 2. Click the [Retrieve] button (2) to retrieve information on SIP Phone Mgmt.
- **3.** The retrieval result is displayed on the result table (③) in the window.

DLC/Virtual Circuit Management (GWIM/WIM Only)

This function allows retrieving and setting up parameters of DLC/Virtual Circuit.

This function is performed in order of [Router] \rightarrow [Frame Relay] \rightarrow [DLC/Virtual Circuit].

	uu rianagement int	enade DLC/	intual circuit						
	Target		/OfficeServ/gwim						
	CircuitIfInd	lex			1	CircuitDici			
					URE				
DLC	/Virtual Circuit]								
DLC	/Virtual Circuit] CircuitIfIndex	CircuitDici	CircuitState	CircuitSentFrames	CircuitSentOctets	CircuitReceivedFrames	CircuitReceivedOctets	CircuitType	CircuitDiscar
DLC	/Virtual Circuit] CircuitIfIndex 9	CircuitDici 9	CircuitState	CircuitSentFrames	CircuitSentOctets	CircuitReceivedFrames 0	CircuitReceivedOctets	CircuitType	CircuitDiscore

Figure 3.34 DLC/Virtual Circuit Management Window

Parameters displayed on the '**DLC/Virtual Circuit**' menu window are described as follows:

Parameter	Description
Circuit IfIndex	The ifIndex value of the ifEntry this virtual circuit is layered onto.
Circuit Dlci	The Data Link Connection Identifier for this virtual circuit.
Circuit State	Indicates whether the particular virtual circuit is operational. - 1: invalid (1) - 2: active (2) - 3: inactive (3)
Circuit SentFrames	The number of frames sent from this virtual circuit since it was created.
Circuit SentOctets	The number of octets sent from this virtual circuit since it was created. Octets countered are the full frame relay header and the payload, but do not include the flag characters or CRC.
Circuit ReceivedFrames	Number of frames received over this virtual circuit since it was created.
Circuit ReceivedOctets	Number of octets received over this virtual circuit since it was created. Octets countered are the full frame relay header and the payload, but do not include the flag characters or CRC.

Parameter	Description
Circuit Type	This indicates whether this VC was manually created (static), or dynamically created (dynamic) via the data link control management interface - 1: static (1) - 2: dynamic (2)
Circuit Discards	The number of inbound frames dropped because of format errors, or because the VC is inactive.

Retrieving DLC/Virtual Circuit.

- Select the target object to perform a function from Tree Viewer.
 The selected object is displayed on the 'Target' field (1) of the window.
- 2. Click the [Retrieve] button (2) to retrieve information on SIP Phone Mgmt.
- **3.** retrieval result is displayed on the result table (③) in the window.



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OfficeServ NMS User Guide PART III. Data Function Management

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