5.5.4 IP Address Map

Mapping Local IP (LAN IP) to some specified Public IP (WAN IP).

COMHREND O ADSL	Router			ing Colum				
A	NAT IP A	uares	я марр	ang secup				
		Rule	Туре	Local Start IP	Local End IP	Public Start IP	Public End IP	Remove
Device Info								
Advanced Setup					Add R	emove		
Layer2 Interface								
WAN Service								
LAN								
Auto-Detection								
NAT								
Virtual Servers								
Port Triggering								
DMZ Host								
IP Address Map								
IPSEC ALG								
SIP ALG								

Consult the table below for field and header descriptions.

Field/Header	Description
Rule	The number of the rule
Туре	Mapping type from local to public.
Local Start IP	The beginning of the local IP
Local End IP	The ending of the local IP
Public Start IP	The beginning of the public IP
Public End IP	The ending of the public IP
Remove	Remove this rule

Click the Add button to display the following screen.

COMUREND O ADSL	Router			
A	NAT IP Address I Remaining number	Mapping Setup of entries that can	be configured:32	
Device Info	Server Name:			
Advanced Setup	Select a Service:	One to One	~	
Layer2 Interface				
WAN Service	Local Start IP	Local End IP	Public Start IP	Public End IP
LAN		0.0.0.0		0.0.0
Auto-Detection				_
NAT			Save/Apply	
Virtual Servers				
Port Triggering				
DMZ Host				
IP Address Map				

Select a Service, then click the Save/Apply button.

One to One: mapping one local IP to a specific public IP Many to One: mapping a range of local IP to a specific public IP Many to Many(Overload): mapping a range of local IP to a different range of public IP Many to Many(No Overload): mapping a range of local IP to a same range of

Many to Many(No Overload): mapping a range of local IP to a same range of public IP

5.5.5 IPSEC ALG

IPSEC ALG provides multiple VPN passthrough connection support, allowing different clients on LAN side to establish a secured IP Connection to the WAN server.

COMBREND O ADSL	Router
N	IPSEC ALG settings
Device Info	This page allows you to enable / disable IPSEC ALG. NOTE: This configuration doesn't take effect until router is rebooted.
Advanced Setup	
Layer2 Interface	Enable IPSEC ALG.
WAN Service	Save
LAN	
Auto-Detection	
NAT	
Virtual Servers	
Port Triggering	
DMZ Host	
IP Address Map	
IPSEC ALG	
SIP ALG	

To enable IPSEC ALG, tick the checkbox and click the Save button.

5.5.6 SIP ALG

This page allows you to enable / disable SIP ALG.



5.6 Security

To display this function, you must enable the firewall feature in WAN Setup. For detailed descriptions, with examples, please consult Appendix A - Firewall.

5.6.1 IP Filtering

This screen sets filter rules that limit IP traffic (Outgoing/Incoming). Multiple filter rules can be set and each applies at least one limiting condition. For individual IP packets to pass the filter all conditions must be fulfilled.

NOTE: This function is not available when in bridge mode. Instead, 5.6.2 MAC Filtering performs a similar function.

OUTGOING IP FILTER

By default, all outgoing IP traffic is allowed, but IP traffic can be blocked with filters.

GOMPREND O ADSL	Route	7						
SI	Outgoing I	P Filtering Se	etup					
	By default, a	all outgoing IP	traffic from	LAN is allowed, but son	ne IP traffic	c can be BLOCKED by s	etting up fil	ters.
Device Info			6	TO Ch				
Advanced Setup	Choose Add	or Remove to	configure o	utgoing IP filters.				
Layer2 Interface	Filtor	TD		SecID /		DetID /		
WAN Service	Name	Version	Protocol	PrefixLength	SrcPort	PrefixLength	DstPort	Remove
LAN								
Auto-Detection				Add Rer	nove			
NAT					nove			
Security								
IP Filtering								
Outgoing								
Incoming								
MAC Filtering								

To add a filter (to block some outgoing IP traffic), click the **Add** button. On the following screen, enter your filter criteria and then click **Apply/Save**.

COMUREND O ADSL	Router			
J.J.	Add IP Filter Outgoing The screen allows you to create a filte one condition below. All of the specifie	r rule to identify ed conditions in t	outgoing IF his filter rul	P traffic by specifying a new filter name and at least le must be satisfied for the rule to take effect. Click
Device Info	'Apply/Save' to save and activate the f	ilter.		
Advanced Setup]
Layer2 Interface	Filter Name:			
WAN Service	IP Version:	IPv4	~	
LAN	Protocol:		~	
Auto-Detection	Source IP address[/profix length]			1
NAT	Source in address[/prenx length].			
Security	Source Port (port or port:port):			
IP Filtering	Destination IP address[/prefix length]:			
Outgoing	Destination Port (port or port:port):			
Incoming				
MAC Filtering		A	pply/Save	

Consult the table below for field descriptions.

Field	Description
Filter Name	The filter rule label.
IP Version	IPv4 selected by default.
Protocol	TCP, TCP/UDP, UDP, or ICMP.
Source IP address	Enter source IP address.
Source Port (port or port:port)	Enter source port number or range.
Destination IP address	Enter destination IP address.
Destination Port (port or port:port)	Enter destination port number or range.

INCOMING IP FILTER

By default, all incoming IP traffic is blocked, but IP traffic can be allowed with filters.

COMPREND O ADSL	Roui	ter									
- A	Incomir	ng IP Filterin	g Setup								
	When th	ne firewall is e	nabled on	a WAN or I	AN inter	face, all	incoming IP tra	ffic is BLOC	CKED. However,	some IP tra	affic
Device Info	can be 🖊	ACCEPTED by	setting up	filters.							
Advanced Setup											
Layer2 Interface	Choose	Add or Remov	ve to confi	gure incomi	ng IP filte	ers.					
WAN Service											
LAN	Filter	Interfaces	IP Version	Protocol	Action	Туре	SrcIP/ PrefixLength	SrcPort	DstIP/ PrefixLength	DstPort	Remove
Auto-Detection							3		3		
NAT											
Security					Al		entove				
IP Filtering											
Outgoing											
Incoming											
MAC Filtering											

To add a filter (to allow incoming IP traffic), click the **Add** button.

On the following screen, enter your filter criteria and then click **Apply/Save**.

COMPREND O	Politor	
ADSL	Kouter	
N	Add IP Filter Incoming	
Device Info	The screen allows you to create a filte name and at least one condition below	er rule to identify incoming IP traffic by specifying a new filter v. All of the specified conditions in this filter rule must be satisfied
Advanced Setun	for the rule to take effect. Click Apply,	Save to save and activate the filter.
Laver2 Interface	Filter Name:	
WAN Service		
LAN	IP Version:	IPv4
Auto-Detection	Protocol:	~
NAT	Policy:	Permit 🗸
Security	Source IP address[/prefix length]:	
IP Filtering	Source Port (port or port:port):	
Outgoing	Destination ID address [/prefix longth]	
Incoming	Deschadon in address[/prenx lengur].	·
MAC Filtering	Destination Port (port or port:port):	
Parental Control	WAN Interfaces (Configured in Pr	uting mode and with firewall enabled) and LAN Interfaces
Quality of Service	wan interfaces (configured in Ac	builty mode and with frewait enabled and tAit interfaces
Routing	Select one or more WAN/LAN interfac	es displayed below to apply this rule.
DNS	Select All	
DSL	✓ br0/br0	
UPnP		Apply/Save

Consult the table below for field descriptions.

Field	Description
Filter Name	The filter rule label
IP Version	IPv4 selected by default.
Protocol	TCP, TCP/UDP, UDP, or ICMP.
Policy	Permit/Drop packets specified by the firewall rule.
Source IP address	Enter source IP address.
Source Port (port or port:port)	Enter source port number or range.
Destination IP address	Enter destination IP address.
Destination Port (port or port:port)	Enter destination port number or range.

At the bottom of this screen, select the WAN and LAN Interfaces to which the filter rule will apply. You may select all or just a subset. WAN interfaces in bridge mode or without firewall enabled are not available.

5.6.2 MAC Filtering

NOTE: This option is only available in bridge mode. Other modes use 5.6.1 IP Filtering to perform a similar function.

Each network device has a unique 48-bit MAC address. This can be used to filter (block or forward) packets based on the originating device. MAC filtering policy and rules for the AR-5389 can be set according to the following procedure.

The MAC Filtering Global Policy is defined as follows. **FORWARDED** means that all MAC layer frames will be **FORWARDED** except those matching the MAC filter rules. **BLOCKED** means that all MAC layer frames will be **BLOCKED** except those matching the MAC filter rules. The default MAC Filtering Global policy is **FORWARDED**. It can be changed by clicking the **Change Policy** button.

COMUREND O ADSL	Router						
ent.	MAC Filtering Setup						
	MAC Filtering is only effective on WAN services configured in Bridge mode. FORWARDED means that						
Device Info	all MAC layer frames will be FORWARDED except those matching with any of the specified rules in the following table. BLOCKED means that all MAC layer frames will be BLOCKED except those matching with any of the specified rules in the following table.						
Advanced Setup	with any of the specified fulles in the following table.						
Layer2 Interface	MAC Filtering Policy For Each Interface:						
WAN Service	WARNING: Changing from one policy to another of an interface will cause all defined rules for that interface to be REMOVED AUTOMATICALLY! You will need to create new rules for						
LAN Auto-Dotoction	the new policy.						
NAT							
Security	Interface Policy Change						
IP Filtering	atm0.2 FORWARD						
MAC Filtering							
Parental Control	Change Policy						
Quality of Service	Change Add as Demous to configure MAC filtering sules						
Routing	Choose Add of Remove to configure MAC filtering rules.						
DNS	Interface Protocol Destination MAC Source MAC Frame Direction Remove						
DSL							
UPnP	Add Remove						

Choose **Add** or **Remove** to configure MAC filtering rules. The following screen will appear when you click **Add**. Create a filter to identify the MAC layer frames by specifying at least one condition below. If multiple conditions are specified, all of them must be met. Click **Save/Apply** to save and activate the filter rule.

COMPREND	
ADSL	Router
. AV	Add MAC Hiter
	Create a filter to identify the MAC layer frames by specifying at least one condition below. If multiple conditions are specified, all of them take effect. Click "Apply" to save and activate the filter.
Device Info	
Advanced Setup	Protocol Type:
Layer2 Interface	Destination MAC Address:
WAN Service	Source MAC Address:
LAN	
Auto-Detection	Frame Direction: LAN<=>WAN 🗸
NAT	
Security	WAN Interfaces (Configured in Bridge mode only)
IP Filtering	
MAC Filtering	br_0_0_35/atm0.2
Parental Control	Sava/Apply
Quality of Service	Save) vbbix

Consult the table below for detailed field descriptions.

Field	Description
Protocol Type	PPPoE, IPv4, IPv6, AppleTalk, IPX, NetBEUI, IGMP
Destination MAC Address	Defines the destination MAC address
Source MAC Address	Defines the source MAC address
Frame Direction	Select the incoming/outgoing packet interface
WAN Interfaces	Applies the filter to the selected bridge interface.

5.7 Parental Control

This selection provides WAN access control functionality.

5.7.1 Time Restriction

This feature restricts access from a LAN device to an outside network through the device on selected days at certain times. Make sure to activate the Internet Time server synchronization as described in 8.5 Internet Time, so that the scheduled times match your local time.

	Rout	er											
A	Access	Time Restri	ction -	A m	aximu	ım 16 (entrie	es C	an be	conf	igured.		
Device Info		Username	мас	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Start	Stop	Remove
Advanced Setup													
Layer2 Interface WAN Service						Add	Re	emov	e				
LAN													
Auto-Detection													
NAT													
Security													
Parental Control													
Time Restriction													
Url Filter													

Click **Add** to display the following screen.

COMPREND O ADSL	Router
	Access Time Restriction
Device Info Advanced Setup	This page adds time of day restriction to a special LAN device connected to the Router. The 'Browser's MAC Address' automatically displays the MAC address of the LAN device where the browser is running. To restrict other LAN device, click the "Other MAC Address" button and enter the MAC address of the other LAN device. To find out the MAC address of a Windows based PC, go to command window and type "ipconfig /all".
Layer2 Interface WAN Service	User Name
LAN	Browser's MAC Address 00:25:11:af:fd:f8
Auto-Detection	O Other MAC Address
NAT	(xxxxxxxxxxxxxx)
Security	Days of the week MonTue Wed Thu Fri Sat Sun
Parental Control	
Time Restriction	
Url Filter	Start Blocking Time (bbymm)
Quality of Service	
Routing	End Blocking I ime (nn:mm)
DNS	Apply/Save

See below for field descriptions. Click **Apply/Save** to add a time restriction.

User Name: A user-defined label for this restriction.
Browser's MAC Address: MAC address of the PC running the browser.
Other MAC Address: MAC address of another LAN device.
Days of the Week: The days the restrictions apply.
Start Blocking Time: The time the restrictions start.
End Blocking Time: The time the restrictions end.

5.7.2 URL Filter

This screen allows for the creation of a filter rule for access rights to websites based on their URL address and port number.

COMPREND O ADSL	Router
- Jest	URL Filter Please select the list type first then configure the list entries. Maximum 100 entries can be configured.
Device Info	URL List Type; 🔘 Exclude 🔘 Include
Advanced Setup	
Layer2 Interface	
WAN Service	
LAN	Address Port Remove
Auto-Detection	
NAT	Add Remove
Security	
Parental Control	
Time Restriction	
Url Filter	

Select URL List Type: Exclude or Include. Then click **Add** to display the following screen.

Parental Control URL Filter Add							
Enter the URL address and port number then click "Save/Apply" to add the entry to the URL filter.							
		_					
URL Address:	www.yahoo.com						
Port Number:	80	(Default 80 will be applied if leave blank.)					
		Save/Apply					

Enter the URL address and port number then click **Save/Apply** to add the entry to the URL filter. URL Addresses begin with "www", as shown in this example.

URL Filter Please select the list type fil configured.	rst then configur	e the	list entries	. Maximum 10	0 entries can be
URL List Type: 🔘 Exclude 💿 Include					
	Address	Port	Remove		
	www.yahoo.com	80			
	Add	emove			

A maximum of 100 entries can be added to the URL Filter list.

Tick the **Exclude** radio button to deny access to the websites listed. Tick the **Include** radio button to restrict access to only those listed websites.

5.8 Quality of Service (QoS)

NOTE: QoS must be enabled in at least one PVC to display this option. (see Appendix E - Connection Setup for detailed PVC setup instructions).

5.8.1 Queue Management Configuration

To Enable QoS tick the checkbox ☑ and select a Default DSCP Mark.

Click **Apply/Save** to activate QoS.

COMUREND O ADSL	Router
- A	QoS Queue Management Configuration
Device Info	IF Enable QoS checkbox is selected, choose a default DSCP mark to automatically mark incoming traffic without reference to a particular classifier. Click 'Apply/Save' button to save it.
Advanced Setup	
WAN Service	Note: If Enable Qos checkbox is not selected, all QoS will be disabled for all interfaces.
	Note: The default DSCP mark is used to mark all earess packets that do not match any classification rules.
Security	
Parental Control	Enable QoS
Queue Config	
QoS Classification	
Routing	
DNS DSL	Apply/Save

QoS and DSCP Mark are defined as follows:

Quality of Service (QoS): This provides different priority to different users or data flows, or guarantees a certain level of performance to a data flow in accordance with requests from Queue Prioritization.

Default Differentiated Services Code Point (DSCP) Mark: This specifies the per hop behavior for a given flow of packets in the Internet Protocol (IP) header that do not match any other QoS rule.

5.8.2 Queue Configuration

This function follows the Differentiated Services rule of IP QoS. You can create a new Queue entry by clicking the **Add** button. Enable and assign an interface and precedence on the next screen. Click **Save/Reboot** on this screen to activate it.

COMTREND									
ADSL R	louter								
- IT	QoS Queue Setup								
Device Info Advanced Setup Layer2 Interface	In ATM mode, maximum 16 queues can be configured. In PTM mode, maximum 8 queues can be configured. For each Ethernet interface, maximum 4 queues can be configured. To add a queue, click the Add button. To remove queues, check their remove-checkboxes, then click the Remove button. The Enable button will scan through every queues in the table. Queues with enable-checkbox checked will								
LAN	be enabled. Que	eues w	ith enable-che	eckbo:	k un-checked will be	disabled.			
Auto-Detection	Note that if WM	M fund	tion is disable	d in V	Vireless Page, queue	s related to	wireless wil	l not take (effects.
NAT Security	The QoS funct	ion ha	s been disal	bled.	Queues would not	take effec	ts.		
Parental Control Quality of Service	Name	Key	Interface	Qid	Prec/Alg/Wght	DSL Latency	PTM Priority	Enable	Remove
QoS Queue QoS Classification	WMM Voice Priority	1	wl0	1	1/SP			Enabled	
Routing DNS	WMM Voice Priority	2	wl0	2	2/SP			Enabled	
DSL UPnP	WMM Video Priority	3	wl0	3	3/SP			Enabled	
DNS Proxy/Relay Interface Grouping	WMM Video Priority	4	wl0	4	4/SP			Enabled	
IP Tunnel IPSec	WMM Best Effort	5	wl0	5	5/SP			Enabled	
Multicast	WMM 6 wl0 6 6/SP Enabled								
Diagnostics	WMM 7 wl0 7 7/SP Enabled								
Management	WMM Best Effort	8	wl0	8	8/SP			Enabled	
	Add Enable	Rer	nove						

Click **Enable** to activate the QoS Queue. Click **Add** to display the following screen.

	Router	
A	QoS Queue Confi	iguration
	This screen allows	you to configure a QoS queue and add it to a selected layer2 interface.
Device Info Advanced Setup	Name:	
Layer2 Interface		
WAN Service	Enable:	Disable 💌
LAN Auto-Detection	Interface:	~
NAT		Apply/Save
Security Devented Control		1.1.12
Quality of Service		
QoS Queue		
QoS Classification		

Name: Identifier for this Queue entry.

Enable: Enable/Disable the Queue entry.

Interface: Assign the entry to a specific network interface (QoS enabled).

5.8.3 QoS Classification

The network traffic classes are listed in the following table.

	Rou	ter																
- All	QoS Cl	assifica	ation S	etup -	- maximur	n 32 rules	can be config	ured.										
Device Info Advanced Setup Layer2 Interface WAN Service LAII Auto-Detection NAT	To add a rule, click the Add button. To remove rules, check their remove-checkboxes, then click the Remove button. The Enable button will scan through every rules in the table. Rules with enable-checkbox checked will be enabled. Rules with enable-checkbox un-checked will be disabled. The enable-checkbox also shows status of the rule after page reload. If you disable WMM function in Wireless Page, classification related to wireless will not take effects. The QoS function has been disabled. Classification rules would not take effects .																	
Security							CLASSIFIC	ATION CRITER	AL					CLASS	SIFICA	TION RE	SULTS	
Parental Control Quality of Service QoS Queue	Class Name	Order	Class Intf	Ether Type	SrcMAC/ Mask	DstMAC/ Mask	SrcIP/ PrefixLength	DstIP/ PrefixLength	Proto	SrcPort	DstPort	DSCP Check	802.1P Check	Queue Key	DSCP Mark	802.1P Mark	Enable	Remove

Click **Add** to configure a network traffic class rule and **Enable** to activate it. To delete an entry from the list, click **Remove**.

This screen creates a traffic class rule to classify the upstream traffic, assign queuing priority and optionally overwrite the IP header DSCP byte. A rule consists of a class name and at least one logical condition. All the conditions specified in the rule must be satisfied for it to take effect.

COMTREND O	•
ADSL	Router
	Add Network Traffic Class Rule
N	This screen creates a traffic class rule to classify the ingress traffic into a priority queue and
	optionally mark the DSCP or Ethernet priority of the packet. Click 'Apply/Save' to save and activate the rule.
Device Info	
Advanced Setup	I raffic Class Name:
Layer2 Interface	Rule Order:
WAN Service	Rule Status: Disable 💙
LAN	Constitution of the contraction (A black with size indicates it is not used for shortficities)
Auto-Detection	Specify Classification Criteria (A blank criterion indicates it is not used for classification.)
NAT	Class Interface:
Security	Ether Type:
Parental Control	Source MAC Address:
Quality of Service	Source MAC Mask:
QoS Queue	Destination MAC Address:
QoS Classification	Destination MAC Mask:
Routing	
DNS	Specify Classification Results (A blank value indicates no operation.)
USL	
DNC Drover / Bolov	Specify Class Queue (Required):
Interface Grouping	is not specified to exist, will instead earess to the default queue on the interface.
Internace or ouping ID Tunnel	
IPSec	Mark Differentiated Service Code Point (DSCP):
Certificate	Mark 200 to priority
Multicast	- Class non-ylan nackets egress to a non-ylan interface will be tagged with VID 0 and the
Wireless	class rule p-bits.
Diagnostics	- Class vlan packets egress to a non-vlan interface will have the packet p-bits re-marked by
Management	the class rule p-bits. No additional vlan tag is added.
	 Class non-vian packets egress to a vian interface will be tagged with the interface vib and the class rule n-hits
	- Class vian packets egress to a vian interface will be additionally tagged with the packet
	VID, and the class rule p-bits.
	Apply/Savo
	Apply/Save

Field	Description				
Traffic Class Name	Enter a name for the traffic class.				
Rule Order	Last is the only option.				
Rule Status	Disable or enable the rule.				
Classification Criteria					
Class Interface	Select an interface (i.e. Local, eth0-4, wl0)				
Ether Type	Set the Ethernet type (e.g. IP, ARP, IPv6).				
Source MAC Address	A packet belongs to SET-1, if a binary-AND of its source MAC address with the Source MAC Mask is equal to the binary-AND of the Source MAC Mask and this field.				
Source MAC Mask	This is the mask used to decide how many bits are checked in Source MAC Address.				

Field	Description
Destination MAC Address	A packet belongs to SET-1 then the result that the Destination MAC Address of its header binary-AND to the Destination MAC Mask must equal to the result that this field binary-AND to the Destination MAC Mask.
Destination MAC Mask	This is the mask used to decide how many bits are checked in Destination MAC Address.
Classification Results	
Specify Class Queue	Select corresponding queue to deliver outgoing traffic.
Mark Differentiated Service Code Point	The selected Code Point gives the corresponding priority to packets that satisfy the rule.
Mark 802.1p Priority	Select between 0-7. Lower values have higher priority.

5.9 Routing

These following routing functions are accessed from this menu: **Default Gateway, Static Route, Policy Routing** and **RIP**.

NOTE: In bridge mode, the **RIP** menu option is hidden while the other menu options are shown but ineffective.

5.9.1 Default Gateway

Default gateway interface list can have multiple WAN interfaces served as system default gateways but only one will be used according to the priority with the first being the highest and the last one the lowest priority if the WAN interface is connected. Priority order can be changed by removing all and adding them back in again.

COMUREND	•		
ADSL	Router		
	Routing Default Gateway		
AV	Default gateway interface list can have m	ultiple WAN interfaces served as system default	
Device Info	gateways but only one will be used accord the last one the lowest priority if the WAN	ding to the priority with the first being the highest and I interface is connected. Priority order can be changed	
Advanced Setup	by removing all and adding them back in again.		
Layer2 Interface	Selected Default	Available Routed WAN	
WAN Service	Gateway Interfaces	Interfaces	
Auto-Detection			
NAT			
Security			
Parental Control	<-		
Routing			
Default Gateway	TODO: IPV6 ********** Select a pref	erred wan interface as the system default IPv6	
Static Route	gateway.		
Policy Routing	Selected WAN Interface NO CONFIGUR	ED INTERFACE 💌	
RIP		Annaly (Carrow	
DNS		Appiy/Save	

5.9.2 Static Route

This option allows for the configuration of static routes by destination IP. Click **Add** to create a static route or click **Remove** to delete a static route.

COMUREND O ADSL	Rout	ter						
S	Routing	g Static R	oute (A n	naximum 32 (entries car	ı be configu	ured)	
	NOTE: F	or system o	reated ro	ute, the 'Re	move' che	ckbox is dis	abled.	
Device Info								1
Advanced Setup		IP Version	DstIP/ P	refixLength	Gateway	Interface	metric	Remove
Layer2 Interface			1			1		
WAN Service				Add	Remove]		
LAN						,		
Auto-Detection								
NAT								
Security								
Parental Control								
Quality of Service								
Routing								
Default Gateway								
Static Route								
Policy Routing								
RIP								

After clicking **Add** the following screen will display.

CONTREND O ADSL	Router
A	Routing Static Route Add
Device Info	Enter the destination network address, subnet mask, gateway AND/OR available WAN interface then click "Apply/Save" to add the entry to the routing table.
Advanced Setup	
Layer2 Interface WAN Service	IP Version:
LAN	Destination IP address/prefix length:
Auto-Detection	Interface:
NAT	Gateway IP Address:
Parental Control	(optional: metric number should be greater than or equal to zero)
Quality of Service	Metric:
Routing	Apply/Save
Default Gateway	
Static Route	
Policy Routing	
RIP	

Input the Destination IP Address, select the interface type, Input the Gateway IP, (and the Metric number if required). Then, click **Apply/Save** to add an entry to the routing table.

5.9.3 Policy Routing

This option allows for the configuration of static routes by policy. Click **Add** to create a routing policy or **Remove** to delete one.

Router
Policy Routing Setting A maximum 7 entries can be configured.
Policy Name Source IP LAN Port WAN Default GW Remove
Add Remove

On the following screen, complete the form and click **Apply/Save** to create a policy.

ADSI	Router
ADSE	Nearen
- A	Policy Routing Settup Enter the policy name, policies, and WAN interface then click "Apply/Save" to add the entry to the policy routing table.
Device Info	Note: If selected "IPoE" as WAN interface, default gateway must be configured.
Advanced Setup	
Layer2 Interface	Policy Name:
WAN Service	
LAN	Physical LAN Port:
Auto-Detection	
NAT	
Security	Source IP:
Parental Control	
Quality of Service	Use Interface
Routing	Default Gateway IP
Default Gateway	
Static Route	
Policy Routing	Apply/Save
RIP	

5.9.4 RIP

To activate RIP, configure the RIP version/operation mode and select the **Enabled** checkbox ☑ for at least one WAN interface before clicking **Save/Apply**.

COMPREND O		
ADSL	Router	
A	Routing RIP Configuration	
Device Info	NOTE: RIP CANNOT BE CONFIGURED on the WAN interface which is PPP mode. And the WAN interface which has NAT enabled only can be configured the operation mode as passive.	
Advanced Setup	To activate RIP for the WAN Interface, solart the desired RIP version and operation and place a check	
Layer2 Interface	in the 'Enabled' checkbox. To stop RIP on the WAN Interface, uncheck the 'Enabled' checkbox. Click	
WAN Service	the 'Apply/Save' button to star/stop RIP and save the configuration.	
LAN		
Auto-Detection		
NAT	Cand default route	
Security	Sena derault route	
Parental Control	Interface Version Operation Enabled	
Quality of Service		
Routing		
Default Gateway		
Static Route	WAN Interface not exist for RIP.	
Policy Routing		
RIP		

5.10 DNS

5.10.1 DNS Server

Select DNS Server Interface from available WAN interfaces OR enter static DNS server IP addresses for the system. In ATM mode, if only a single PVC with IPoA or static IPoE protocol is configured, Static DNS server IP addresses must be entered. **DNS Server Interfaces** can have multiple WAN interfaces served as system dns servers but only one will be used according to the priority with the first being the highest and the last one the lowest priority if the WAN interface is connected. Priority order can be changed by removing all and adding them back in again.

COMTREND	
ADSL	Router
	DNS Server Configuration
- A V	Select DNS Server Interface from available WAN interfaces OR enter static DNS
Device Info	static IPoE protocol is configured, Static DNS server IP addresses must be entered.
Advanced Setup	DNS Server Interfaces can have multiple WAN interfaces served as system dns
Layer2 Interface	higest and the last one the lowest priority if the WAN interface is connected.
WAN Service	Priority order can be changed by removing all and adding them back in again.
LAN	
Auto-Detection	Select DNS Server Interface from available WAN interfaces:
NAT	Selected DNS Server Available WAN Interfaces
Security	Interfaces
Parental Control	
Quality of Service	
Routing	->
DNS Comron	<-
Dynamic DNS	
DNS Entries	
DSL	Use the following Static DNS IP address:
UPnP	Primary DNS convert
DNS Proxy/Relay	
Interface Grouping	Secondary DNS server:
IP Tunnel	
IPSec	Apply/Save

Message from webpage 🛛 🔀		
⚠	No configured IPv6 WAN interface existed for IPv6 DNS server information.	
	ОК	

If is no IPv6 WAN interface is configured, a warning message system will pop up when accessing DNS Server.

5.10.2 Dynamic DNS

The Dynamic DNS service allows you to map a dynamic IP address to a static hostname in any of many domains, allowing the AR-5389 to be more easily accessed from various locations on the Internet.

COMMEND O ADSL	Router		
M	Dynamic DNS		
Device Info	The Dynamic DNS service allows you to alias a dynamic IP address to a static hostname in any of the many domains, allowing your Broadband Router to be more easily accessed from various locations on the Internet.		
Layer2 Interface WAN Service	Choose Add or Remove to configure Dynamic DNS.		
LAN Auto-Detection	Hostname Username Service Interface DDNS Server URL Remove		
NAT Security	Add Remove		
Parental Control Quality of Service			
Routing DNS			
DNS Server Dynamic DNS DNS Entries			

To add a dynamic DNS service, click **Add**. The following screen will display.

GOMUREND O ADSL	Router	
int	Add Dynamic DNS	
Device Info	This page allows you to add a l Additionally, it is possible to co	Dynamic DNS address from DynDNS.org or TZO. nfigure a Custom Dynamic DNS service.
Advanced Setup Layer2 Interface	D-DNS provider	DynDNS.org
WAN Service LAN	Hostname	
Auto-Detection NAT	DynDNS Settings	
Security	Username	
Quality of Service	Password	
Routing DNS		
DNS Server		
Dynamic DNS DNS Entries		Apply/Save

Consult the table below for field descriptions.

Field	Description
D-DNS provider	Select a dynamic DNS provider from the list
Hostname	Enter the name of the dynamic DNS server
Interface	Select the interface from the list
Username	Enter the username of the dynamic DNS server
Password	Enter the password of the dynamic DNS server

5.10.3 DNS Entries

The DNS Entry page allows you to add domain names and IP address desired to be resolved by the DSL router.

COMUREND O ADSL	Router
A	DNS Entries
Device Info Advanced Setup Layer2 Interface WAN Service LAN Auto-Detection NAT Security Parental Control Quality of Service Routing DNS DNS Server Dynamic DNS	The DNS Entry page allows you to add domain names and IP address desired to be resolved by the DSL router. Choose Add or Remove to configure DNS Entry. The entries will become active after save/reboot. A maximum 16 entries can be configured. Domain Name IP Address Remove Add Remove
Dynamic DNS DNS Entries	

Choose Add or Remove to configure DNS Entry. The entries will become active after save/reboot.

COMPREND	
ADSL	Router
AV	DNS Entry
	Enter the domain name and IP address that needs to be received legally, and slick
Device Info	'Add Entry.'
Advanced Setup	
Layer2 Interface	Domain Name IP Address
WAN Service	
LAN	
Auto-Detection	Add Entry
NAT	you chuy
Security	
Parental Control	
Quality of Service	
Routing	
DNS Server	
Dynamic DNS	
DNS Entries	

Enter the domain name and IP address that needs to be resolved locally, and click the **Add Entry** button.

5.11 DSL

The DSL Settings screen allows for the selection of DSL modulation modes. For optimum performance, the modes selected should match those of your ISP.

*		
COMTREND O		
ADSL R	outer	
	DOI Caltings	
and the second second	DSL Settings	
	Select the modulation below.	
Device Info	🗹 G.Dmt Enabled	
Advanced Setup	G.lite Enabled	
Layer2 Interface		
WAN Service	M 11.413 Enabled	
LAN Auto Datastian	ADSL2 Enabled	
Auto-Detection	AnnexL Enabled	
Security	ADSL2+ Enabled	
Parental Control	ApproxM Enabled	
Quality of Service		
Routing	Select the phone line pair below.	
DNS	Inner pair	
DSL	C Outrania	
UPnP	Outer pair	
DNS Proxy/Relay	Capability	
Print Server	Ritswan Enable	
DLNA		
Storage Service	L SRA Enable	
Interface Grouping	Select DSL LED behavior	
IP Tunnel	Normal(TP-69 compliant)	
IPSec		
Certificate	C Off	
Multicast	C 007 1 ECC VTH-P Sorial Number	
Wireless	G.557.1 ECC XTO K Serial Number	
Management	 Equipment Serial Number 	
Management	C Equipment MAC Address	
		Apply/Save Advanced Settings

DSL Mode	Data Transmission Rate - Mbps (Megabits per second)							
G.Dmt	Downstream: 12 Mbps Upstream: 1.3 Mbps							
G.lite	Downstream: 4 Mbps Upstream: 0.5 Mbps							
T1.413	Downstream: 8 Mbps Upstream: 1.0 Mbps							
ADSL2	Downstream: 12 Mbps Upstream: 1.0 Mbps							
AnnexL	Supports longer loops but with reduced transmission rates							
ADSL2+	Downstream: 24 Mbps Upstream: 1.0 Mbps							
AnnexM	Downstream: 24 Mbps Upstream: 3.5 Mbps							
Options	Description							
Inner/Outer Pair	Select the inner or outer pins of the twisted pair (RJ11 cable)							
Bitswap Enable	Enables adaptive handshaking functionality							

DSL Mode	Data Transmission Rate - Mbps (Megabits per second)
SRA Enable	Enables Seamless Rate Adaptation (SRA)
DSL LED behavior	Normal (TR-68 compliant) – DSL LED blink/on/off following TR-68 standard Off – always turn off DSL LED
G997.1 EOC xTU-R Serial Number	Select Equipment Serial Number or Equipment MAC Address to use router's serial number or MAC address in ADSL EOC messages

Advanced DSL Settings

Click **Advanced Settings** to reveal additional options. On the following screen you can select a test mode or modify tones by clicking **Tone Selection**. Click **Apply** to implement these settings and return to the previous screen.

COMPREND O ADSL	Router
	DSL Advanced Settings
	Select the test mode below.
Device Info Advanced Setup Layer2 Interface WAN Service LAN Auto-Detection NAT	 Normal Reverb Medley No retrain L3
Security Parental Control Quality of Service Routing DNS DSL	Apply Tone Selection

On this screen you select the tones you want activated, then click **Apply** and **Close**.

Ø	🖉 http://192.168.1.1/adslcfgtone.html - Windows Internet Explorer 🛛 📃 🗖 🔀																		
6	http://192.168.1.1/adslcfgtone.html																		
	ADSI Tono Sottings																		
	ADSE TONE Securitys																		
	Upstream Tones																		
	V 0	✓ 1	✓ 2	9	3	✔ 4	✓ 5	• (5	7	8	✓ 9	✓ 10	✓ 11	✓ 12	✓ 13	✔ 14	✓ 1	5
	✓ 16	✓ 17	✓ 18	8 🗹 :	19	✓ 20	21	v 2	22	23	24	25	26	27	28	29	✓ 30	3	1
								1	Dowi	istre	am To	nes							
	✓ 32	✓ 33	✓ 34	4 🗹 :	35	✓ 36	37	43	38 🖣	39	✓ 40	✓ 41	42	✓ 43	✓ 44	✓ 45	✔ 46	4	7
	✓ 48	✓ 49	✓ 50	0 🗹 :	51	✓ 52	✔ 53	¥ 5	54	55	✓ 56	✓ 57	✓ 58	✓ 59	✓ 60	61	✔ 62	6	3
	✔ 64	✓ 65	✓ 60	6 🗹 (57	✓ 68	✓ 69	1	70	71	72 🗹	73	74	75	76	77	✓ 78	7	9
	✓ 80	✓ 81	82	2 🗹 (83	✓ 84	85	۶ 🖌	36	87	✓ 88	✔ 89	90	91	92	93	✓ 94	9	5
	96	97	✓ 98	8 🗹 9	99	✓ 100	✔ 101	1	02	103	✓ 104	105	106	✓ 107	108	✓ 109	110	1	11
	✓ 112	🗹 113	1	14 🗹 :	115	✓ 116	117	¥ 1	18	119	✓ 120	121	122	✓ 123	✓ 124	125	126	1	27
	128	129	1:	30 🗹 :	131	✓ 132	✓ 133	1	134	135	130	5 🗹 137	138	139	✓ 140	✓ 141	✓ 142	1	43
	✓ 144	145	5 🔽 14	46 🗹 :	147	✓ 148	✓ 149	V 1	.50 🔽	151	✓ 152	2 🗹 153	154	✓ 155	✓ 156	157	158	1	59
	160	161	1	52 🗹 :	163	✓ 164	165	v 1	66 🖣	167	168	3 🗹 169	170	171	172	173	174	1	75
	176	177	1	78 🗹 :	179	✓ 180	✓ 181	V 1	82	183	✓ 184	185	186	✓ 187	188	189	190	I	91
	✓ 192	✓ 193	19	94 🗹 :	195	✓ 196	✔ 197	V 1	.98	199	200	201	202	203	204	205	206	2	07
	208	209	2	10 🗹 :	211	✓ 212	213	1	214	215	210	5 🗹 217	218	219	220	221	222	2	23
	224	225	5 🗹 23	26 🗹 :	227	228	229	2	230	231	232	2 🗹 233	234	235	236	237	238	2	39
	240	241	24	42 🔽 2	243	✓ 244	245	V 2	246	247	248	3 🗸 249	250	251	252	253	254	2	55
							Chec	k All		Clear	All	Apply	Close						
Do	ne									1	•) Intern	net			- A	a 109	5%	•:

5.12 UPnP

Select the checkbox $\ensuremath{\boxtimes}$ provided and click $\ensuremath{\textbf{Apply/Save}}$ to enable UPnP protocol.

COMUREND O	•
ADSL	Router
- A	UPnP Configuration
	NOTE: UPnP is activated only when there is a live WAN service with NAT
Device Info	enabled.
Advanced Setup	
Layer2 Interface	✓ Enable UPnP
WAN Service	
LAN	
Auto-Detection	Apply/Save
NAT	
Security	
Parental Control	
Quality of Service	
Routing	
DNS	
DSL	
UPnP	

5.13 DNS Proxy/Relay

DNS proxy receives DNS queries and forwards DNS queries to the Internet. After the CPE gets answers from the DNS server, it replies to the LAN clients. Configure DNS proxy with the default setting, when the PC gets an IP via DHCP, the domain name, Home, will be added to PC's DNS Suffix Search List, and the PC can access route with "Comtrend.Home".

COMUREND O ADSL	Router
A	DNS Proxy Configuration
Device Info	✓ Enable DNS Proxy
Advanced Setup	Host name of the Broadband Router: Comtrend
Layer2 Interface	Domain name of the LAN network: Home
WAN Service	
Auto-Detection NAT Security	DNS Relay Configuration This controls the DHCP Sever to assign public DNS.
Parental Control	Apply/Save
Quality of Service	
Routing	
DNS	
DSL	
DNS Proxy/Relay	

DNS Relay

When DNS Relay is enabled, the router will play a role as DNS server that send request to ISP DNS server and cache the information for later access. When DNS relay is disabled, the computer will pull information from ISP DNS server.

5.14 Interface Grouping

Interface Grouping supports multiple ports to PVC and bridging groups. Each group performs as an independent network. To use this feature, you must create mapping groups with appropriate LAN and WAN interfaces using the **Add** button.

The **Remove** button removes mapping groups, returning the ungrouped interfaces to the Default group. Only the default group has an IP interface.

COMPRESS O	Router											
N	Interface Grouping A maximum 16 entries can be configured											
Device Info Advanced Setup Layer2 Interface WAN Service LAN	Interface Grouping supports multiple ports to PVC and bridging groups. Each group will perform as an independent network. To support this feature, you must create mapping groups with appropriate LAN and interfaces using the Add button. The Remove button will remove the grouping and add the ungrouped inter to the Default group. Only the default group has IP interface.											
Auto-Detection	Group Name	Remove	Edit	WAN Interface	LAN Interfaces	DHCP Vendor IDs						
NAT					ENET1							
Security					ENET2							
Parental Control	D - C - JA			<u> </u>	ENET2							
Quality of Service	Derault				ENEL3							
Routing					ENET4							
DIS					wlan0							
UPnP					1							
DNS Proxy/Relay	Add Remov	e										
Interface Grouping												

To add an Interface Group, click the **Add** button. The following screen will appear. It lists the available and grouped interfaces. Follow the instructions shown onscreen.

COMTREND										
ADSL F	Router									
N	Interface grouping Configuration									
	To create a new interface group: 1. Enter the Group name and the group name must be unique and select either 2. (dynamic) or									
Device Info	3. (static) below:									
Advanced Setup	2. If you like to automatically add LAN clients to a WAN Interface in the new group add the									
Layer2 Interface	 If you like to automatically add LAN clients to a WAN Interface in the new group add the DHCP vendor ID string. By configuring a DHCP vendor ID string any DHCP client request with the 									
WAN Service	specified vendor ID (DHCP option 60) will be denied an IP address from the local DHCP server.									
LAN	3.Select interfaces from the available interface list and add it to the grouped interface list using									
Auto-Detection	the arrow buttons to create the required mapping of the ports. Note that these clients may									
NAT	obtain public IP addresses									
Security	4. Click Apply/Save button to make the changes effective immediately									
Parental Control										
Quality of Service	IMPORTANT If a vendor ID is configured for a specific client device, please REBOOT									
Routing	the client device attached to the modem to allow it to obtain an appropriate IP									
DNS	address.									
DSL	Group Name:									
UPNP DNC Ducum (Dalau										
Interface Grouping	Grouped WAN Available WAN									
Interface Grouping	Interfaces Interfaces									
IP Tunnel										
Cortificato										
Multicast	->									
Wireless										
Diagnostics										
Management										
	Grouped LAN Interfaces Available LAN Interfaces									
	ENET1									
	-> ENET2									
	ENET3									
	<- ENE14									
	wiano									
	Automatically Add									
	Clients With the									
	following DHCP Vendor									
	103									
	Apply/Save									

Automatically Add Clients With Following DHCP Vendor IDs:

Add support to automatically map LAN interfaces to PVC's using DHCP vendor ID (option 60). The local DHCP server will decline and send the requests to a remote DHCP server by mapping the appropriate LAN interface. This will be turned on when Interface Grouping is enabled.

For example, imagine there are 4 PVCs (0/33, 0/36, 0/37, 0/38). VPI/VCI=0/33 is for PPPoE while the other PVCs are for IP set-top box (video). The LAN interfaces are ENET1, ENET2, ENET3, and ENET4.

The Interface Grouping configuration will be:

- 1. Default: ENET1, ENET2, ENET3, and ENET4.
- 2. Video: nas_0_36, nas_0_37, and nas_0_38. The DHCP vendor ID is "Video".

If the onboard DHCP server is running on "Default" and the remote DHCP server is running on PVC 0/36 (i.e. for set-top box use only). LAN side clients can get IP addresses from the CPE's DHCP server and access the Internet via PPPoE (0/33).

If a set-top box is connected to ENET1 and sends a DHCP request with vendor ID "Video", the local DHCP server will forward this request to the remote DHCP server. The Interface Grouping configuration will automatically change to the following:

- 1. Default: ENET2, ENET3, and ENET4
- 2. Video: nas_0_36, nas_0_37, nas_0_38, and ENET1.

5.15 IP Tunnel

5.15.1 IPv6inIPv4

Configure 6in4 tunneling to encapsulate IPv6 traffic over explicitly-configured IPv4 links.

COMPREND O ADSL	Router							
N	IP Tunr	eling -	- 6in4	Tunnel Co	onfiguration			
Device Info Advanced Setun	Name	WAN	LAN	Dynamic	IPv4 Mask Length	6rd Prefix	Border Relay Address	Remove
Layer2 Interface WAN Service					Add Rem	iove		
LAN								
NAT								
Security Parental Control								
Quality of Service								
Routing DNS								
DSL								
UPnP DNS Proxy/Relay								
Interface Grouping								
IP Tunnel								
IPv4inIPv6								

Click the **Add** button to display the following.

	Bouter		
	IP Tunneling 6in4 Tunnel Configuration		
Device Info	Currently, only 6rd configuration is supported.		
Advanced Setun	Tunnel Name		
Layer2 Interface	Mechanism:	6RD V	
WAN Service	Associated WAN Interface:		
LAN	Associated LAN Interface:	LAN/br0 v	
Auto-Detection	Manual Automatic		
NAT	S Manual S Automatic		
Security			
Parental Control	IPv4 Mask Length:		
Quality of Service	6rd Prefix with Prefix Length:		
Routing	Border Relay IPv4 Address:		
DNS			
DSL			Apply/Save
UPnP			
DNS Proxy/Relay			
Print Server			
DLNA			
Storage Service			
Interface Grouping			
IPv6inIPv4			
IPv4inIPv6			

Options	Description
Tunnel Name	Input a name for the tunnel
Mechanism	Mechanism used by the tunnel deployment
Associated WAN Interface	Select the WAN interface to be used by the tunnel
Associated LAN Interface	Select the LAN interface to be included in the tunnel
Manual/Automatic	Select automatic for point-to-multipoint tunneling / manual for point-to-point tunneling
IPv4 Mask Length	The subnet mask length used for the IPv4 interface
6rd Prefix with Prefix Length	Prefix and prefix length used for the IPv6 interface
Border Relay IPv4 Address	Input the IPv4 address of the other device

5.15.2 IPv4inIPv6

Configure 4in6 tunneling to encapsulate IPv4 traffic over an IPv6-only environment.

COMUREND O	•				=		_	=	_
ADSL	Roù	ter							
	1								
M	1	P Tunne	ling 4in	6 Tunne	l Confi	gurat	ion		
									1
Device Infe				Name	WAN	LAN	Dynamic	AFTR	Remove
Device Info							1		
Advanced Setup						Add	Remove		
Layer2 Interface									
WAN Service									
LAN									
Auto-Detection									
NAT									
Security									
Parental Control									
Quality of Service									
Routing									
DNS									
DSL									
UPnP									
DNS Proxy/Relay									
Interface Grouping									
IP Tunnel									
IPv6inIPv4									
IPv4inIPv6									

Click the **Add** button to display the following.

	11		
COMTREND O			
ADSL	Router		
- A	IP Tunneling 4in6 Tunne	l Configuration	
	Currently, only DS-Lite config	uration is supported.	
Device Info			
Advanced Setup	Tunnel Name		
Layer2 Interface	Mechanism:	DS-Lite	*
WAN Service	Associated WAN Interface:		*
LAN	Associated LAN Interface:	LAN/br) 🗸
Auto-Detection	Manual O Automatic		
NAT			
Security	AFTR:		
Parental Control			Apply/Save
Quality of Service			
Routing			
DNS			
DSL			
UPnP			
DNS Proxy/Relay			
Interface Grouping			
IP Tunnel			
IPv6inIPv4			
IPv4inIPv6			
Options	Description		

Options	Description
Tunnel Name	Input a name for the tunnel
Mechanism	Mechanism used by the tunnel deployment
Associated WAN Interface	Select the WAN interface to be used by the tunnel
Associated LAN Interface	Select the LAN interface to be included in the tunnel
Manual/Automatic	Select automatic for point-to-multipoint tunneling / manual for point-to-point tunneling
AFTR	Address of Address Family Translation Router

5.16 IPSec

You can add, edit or remove IPSec tunnel mode connections from this page.

	Router				
- Al	IPSec Tunnel Mo	de Connections	tunnel connections from	this name	
Device Info	had, remove or en		connections from	r this page.	
Advanced Setup	Connection	Remote	Local	Remote	
Layer2 Interface	Name	Gateway	Addresses	Addresses	Remove
WAN Service					
LAN		Add Ne	w Connection R	emove	
Auto-Detection					
NAT					
Security					
Parental Control					
Quality of Service					
Routing					
DNS					
DSL					
UPnP					
DNS Proxy/Relay					
Interface Grouping					
IP Tunnel					
IPSec					

Click **Add New Connection** to add a new IPSec termination rule.

The following screen will display.

COMPREND O	•	
ADSL	Router	
	IPSec Settings	
Device Info	IPSec Connection Name	new connection
Advanced Setup Layer2 Interface	Tunnel Mode	ESP 🗸
WAN Service LAN	Remote IPSec Gateway Address (IPv4 address in dotted decimal)	0.0.0.0
Auto-Detection NAT	Tunnel access from local IP addresses	Subnet
Parental Control	IP Address for VPN IP Subnetmask	0.0.0.0
Routing	Tunnel access from remote IP addresses	Subnet 🗸
DSL UPnP	IP Address for VPN	0.0.0.0
DNS Proxy/Relay Interface Grouping	1º Subhetmask	255.255.255.0
IP Tunnel IPSec	Key Exchange Method Authentication Method	Pre-Shared Key
Multicast	Pre-Shared Key Perfect Forward Secrecy	key
Diagnostics	Advanced IKE Settings	Show Advanced Settings
-,	, areneou inci octango	Apply/Save

IPSec Connection Name	User-defined label
Tunnel Mode	Select tunnel protocol, AH (Authentication Header) or ESP (Encapsulating Security
	Payload) for this tunnel.
Remote IPSec Gateway Address	The location of the Remote IPSec Gateway. IP address or domain name can be used.
Tunnel access from local IP	Specify the acceptable host IP on the local
addresses	side. Choose Single or Subnet.
IP Address/Subnet Mask for VPN	If you chose Single , please enter the host IP
	address for VPN. If you chose Subnet , please
	enter the subnet information for VPN.
Tunnel access from remote IP	Specify the acceptable host IP on the remote
addresses	side. Choose Single or Subnet.
IP Address/Subnet Mask for VPN	If you chose Single , please enter the host IP
	address for VPN. If you chose Subnet, please
	enter the subnet information for VPN.
Key Exchange Method	Select from Auto(IKE) or Manual

For the Auto(IKE) key exchange method, select Pre-shared key or Certificate (X.509) authentication. For Pre-shared key authentication you must enter a key, while for Certificate (X.509) authentication you must select a certificate from the list.

See the tables below for a summary of all available options.