User Manual

Unified Services Router

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User Manual

DSR-150 / 150N / 250 / 250N DSR-500 / 500N / 1000 / 1000N

Unified Services Router Version 2.02

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Table of Contents

Chapter 1.	Introdu	uction	11
	1.1	About this User Manual	12
	1.2	Typographical Conventions	12
Chapter 2.	Config	juring Your Network: LAN Setup	13
	2.1	LAN Configuration	13
	2.1.1	LAN DHCP Reserved IPs	17
	2.1.2	LAN DHCP Leased Clients	19
	2.1.3	LAN COnfiguration in an IPV6 Network	19
	2.1.4		
	2.2 2.2.1	VLAN Configuration	25
	2.2.1	Multiple VI AN Subnets	30
	2.2.3	VLAN configuration	31
	2.3	Configurable Port: DMZ Setup	32
	2.4	Universal Plug and Play (UPnP)	35
	2.5	Captive Portal	36
	2.5.1	Captive Portal Setup	37
	2.5.2	Captive Portals on a VLAN	41
Chapter 3.	Conne	ecting to the Internet: WAN Setup	43
	3.1	Internet Setup Wizard	43
	3.2	WAN Configuration	46
	3.2.1	WAN Port IP address	47
	3.2.2	WAN DNS Servers	47
	3.2.3		48
	3.2.4 3.2.5	PPPOE Russia LOTP and PPTP WAN	48
	326	Russia Dual Access PPPoF	
	3.2.7	WAN Configuration in an IPv6 Network	56
	3.2.8	Checking WAN Status	58
	3.2.9	VLAN ON WAN	59
	3.3	Bandwidth Controls	60
	3.3.1	Bandwidth Controls in Bridge Mode	63
	3.4	Features with Multiple WAN Links	66
	3.4.1	Auto Failover	66
	3.4.2	Load Balancing	67
	3.4.3	Protocol Bindings	68
	3.4.4 2 E	IF AlldSilly	09
	3.5 3.5.1	Routing Comiguration	/1
	3.5.1	Dynamic Routing (RIP)	/ 1
	3.5.3	Static Routing	73
	3.5.4	OSPFv2	75
	3.5.5	OSPFv3	77
	3.5.6	6to4 Tunneling	79
	3.5.7	ISATAP Tunnels	80
	3.6	Configurable Port - WAN Option	82

	3.7	WAN3 (3G) Configuration	82
	3.8	WAN Port Settings	84
Chapter 4	Wirolo	ss Access Boint Setun	86
Chapter 4.	4 1	Wireless Sottings Wizord	
	4.1	Wireless Network Setup Wizard	80 89
	4.1.2	Add Wireless Device with WPS	
	4.1.3	Manual Wireless Network Setup	90
	4.2	Wireless Profiles	90
	4.2.1	WEP Security	
	4.2.2	WPA or WPA2 with PSK	
	4.3	Creating and Using Access Points	93
	4.3.1	Tuning Padia Specific Settings	
	4.4		
	4.5	Wireless distribution system (M/DS)	
	4.0	Adversed Windows Octions	100
	4.7	Advanced Wireless Settings	101
	4.8	WI-FI Protected Setup (WPS)	102
Chapter 5.	Securi	ng the Private Network	105
	5.1	Firewall Rules	105
	5.2	Defining Rule Schedules	106
	5.3	Configuring Firewall Rules	108
	5.4	Configuring IPv6 Firewall Rules	113
	5.4.1	Firewall Rule Configuration Examples	115
	5.5	Security on Custom Services	119
	5.6	ALG support	121
	5.7	VPN Passthrough for Firewall	122
	5.8	Bridge Mode Firewall	123
	5.9	Application Rules	125
	5.10	Web Content Filtering	126
	5.10.1	Static Content Filtering	127
	5.10.2	Approved URLs	127
	5.10.3	BIOCKED KEYWOIDS	128 129
	5.10.5	Dynamic WCF	
	5.11	IP/MAC Binding	132
	5.12	Intrusion Prevention (IPS)	133
	5.13	Protecting from Internet Attacks	134
	5.14	IGMP Proxy to manage multicast traffic	136
Chapter 6	IPear		137
Unapter 0.	61	VPN Wizard	137
	6.2	Configuring IPsec Policies	130 171
	6.2.1	Extended Authentication (XAUTH)	
	6.2.2	Internet over IPsec tunnel	145
	6.3	Configuring VPN clients	146

	6.4 6.4.1	PPTP / L2TP Tunnels	146
	6.4.2	L2TP Tunnel Support	
	6.5	GRE Tunnel Support	151
	6.6	OpenVPN Support	
	6.6.1	OpenVPN Remote Network	154
	6.6.2	OpenVPN Authentication	155
Chapter 7.	SSL V	/PN	157
	7.1	Groups and Users	159
	7.1.1	Users and Passwords	165
	7.1.2	Adding many users to the Local User Database	166
	7.2	Using SSL VPN Policies	
	7.2.1	Using Network Resources	170
	7.3	Application Port Forwarding	171
	7.4	SSL VPN Client Configuration	174
	7.5	User Portal	
	7.5.1	Creating Portal Layouts	177
Chapter 8.	Advar	nced Configuration Tools	
	8.1	USB Device Setup	
	8.2	USB share port	181
	8.3	SMS service	
	8.4	External Authentication	
	8.4.1	POP3 Server	
	8.4.2	NT Domain Server	
	8.4.3	Active Directory Server	
	8.4.5	LDAP Server	
	8.5	Authentication Certificates	
	8.6	Advanced Switch Configuration	
	8.7	Package Manager	
	•••		
Chapter 9.	Admir	nistration & Management	198
	9.1	Configuration Access Control	198
	9.1.1	Admin Settings	
	9.1.2	License Opdates	200
	9.1.4	CLI Access	
	9.2	SNMP Configuration	
	9.3	Configuring Time Zone and NTP	
	9.4	Log Configuration	
	9.4.1	Defining What to Log	206
	9.4.2	Sending Logs to E-mail or Syslog	209
	9.4.3	Event Log Viewer in GUI	211
	9.5	Backing up and Restoring Configuration Settings	212
	9.6	Generating DBGLOGs	214
	9.7	Upgrading Router Firmware	214

9.8	Upgrading Router Firmware via USB	
9.9	Dynamic DNS Setup	
9.10	Using Diagnostic Tools	
9.10.	1 Ping	
9.10.	2 Trace Route	
9.10.	3 DNS LOOKUP	
9.10.4		
9.11	Localization	221
Chapter 10. Route	er Status and Statistics	
10.1	System Overview	
10.1.	1 Device Status	
10.1.	2 Resource Utilization	
10.2	Traffic Statistics	
10.2.	1 Wired Port Statistics	
10.2.	2 Wireless Statistics	227
10.3	Active Connections	
10.3.	1 Sessions through the Router	
10.3.	2 WIRELESS CITENTS	
10.3	4 Active VPN Tunnels	
10101		
Chapter 11. Trout	ble Shooting	
11.1	Internet connection	
11.2	Date and time	
11.3	Pinging to Test LAN Connectivity	
11.3.	1 Testing the LAN path from your PC to your router	
11.3.	2 Testing the LAN path from your PC to a remote device	236
11.4	Restoring factory-default configuration settings	
Chapter 12. Credi	ts	
		2 40
Appendix A. Gloss	sary	240
Appendix B. Facto	ory Default Settings	
Appendix C. Stand	dard Services Available for Port Forwarding & Firewall Configuration	
Appendix D. Log C	Dutput Reference	245
Appendix E. RJ-4	5 Pin-outs	
Appendix F New	Wi Fi Frequency table (New appendix section)	301
Appendix G. Produ	uct Statement	

List of Figures

Figure 1: Setup page for LAN TCP/IP settings (a)	16
Figure 2: Setup page for LAN TCP/IP settings (b)	16
Figure 3: LAN DHCP Reserved IPs	18
Figure 4: LAN DHCP Leased Clients	19
Figure 5: IPv6 LAN and DHCPv6 configuration	20
Figure 6: Configuring the Router Advertisement Daemon	23
Figure 7: IPv6 Advertisement Prefix settings	25
Figure 8: Adding VLAN memberships to the LAN	27
Figure 9: Port VLAN list	29
Figure 10: Configuring VLAN membership for a port	30
Figure 11: Multiple VLAN Subnets	31
Figure 12: VLAN Configuration	32
Figure 13: DMZ configuration	34
Figure 14: UPnP Configuration	36
Figure 15: Active Runtime sessions	37
Figure 16: Captive Portal Profile List	38
Figure 17: Customized Captive Portal Setup	39
Figure 18: Blocking specific clients by their MAC address	41
Figure 19: VLAN based configuration of Captive Portals	42
Figure 20: Internet Connection Setup Wizard	44
Figure 21: Manual WAN configuration	48
Figure 22: PPPoE configuration for standard ISPs	49
Figure 23: WAN configuration for Japanese Multiple PPPoE (part 1)	50
Figure 24: WAN configuration for Japanese Multiple PPPoE (part 2)(its in figure 22 itself)	51
Figure 25: Russia L2TP ISP configuration	52
Figure 26: Russia Dual access PPPoE configuration	53
Figure 27: IPv6 WAN Setup page	57
Figure 28: Connection Status information for both WAN ports	59
Figure 29: Enabling VLAN on WAN	60
Figure 30: List of Configured Bandwidth Profiles	61
Figure 31: Bandwidth Profile Configuration	62
Figure 32: Traffic Selector Configuration	63
Figure 33: Bridge Bandwidth Profile Configuration	65
Figure 34: Bridge Traffic Selector Configuration	65

Unified Services Router

Figure 35: Load Balancing is available when multiple WAN ports are configured and Protocol Bindings have been defined	68
Figure 36: Protocol binding setup to associate a service and/or LAN source to a WAN and/or destination network	69
Figure 37: Configuring the IP Alias	69
Figure 38: IP Alias Configuration	70
Figure 39: Routing Mode to determine traffic routing between WAN and LAN	72
Figure 40: Static route configuration fields	75
Figure 41: OSPFv2 configured parameters	76
Figure 42: OSPFv2 configuration	77
Figure 43: OSPFv3 configured parameters	78
Figure 44: OSPFv3 configuration	79
Figure 45: 6 to 4 tunneling	79
Figure 46: ISATAP Tunnels Configuration	81
Figure 47: WAN3 configuration for 3G internet	83
Figure 48: Physical WAN port settings	85
Figure 49: Wireless Network Setup Wizards	87
Figure 50: List of Available Profiles shows the options available to secure the wireless link	91
Figure 51: Profile configuration to set network security	92
Figure 52: Virtual AP configuration	94
Figure 53: List of configured access points (Virtual APs) shows one enabled access point on t radio, broadcasting its SSID	:he 96
Figure 54: Radio card configuration options	98
Figure 55: Wi-Fi Multimedia	99
Figure 56: Wireless Distribution System	100
Figure 57: Advanced Wireless communication settings	102
Figure 58: WPS configuration for an AP with WPA/WPA2 profile	103
Figure 59: List of Available Firewall Rules	106
Figure 60: List of Available Schedules to bind to a firewall rule	107
Figure 61: Example where an outbound SNAT rule is used to map an external IP address (209.156.200.225) to a private DMZ IP address (10.30.30.30)	111
Figure 62: The firewall rule configuration page allows you to define the To/From zone, service action, schedules, and specify source/destination IP addresses as needed	, 112
Figure 63: The IPv6 firewall rule configuration page allows you to define the To/From zone, service, action, schedules, and specify source/destination IP addresses as needed	
	. 114
Figure 64: List of Available IPv6 Firewall Rules	. 114 115
Figure 64: List of Available IPv6 Firewall Rules Figure 65: Schedule configuration for the above example	l. 114 115 118
Figure 64: List of Available IPv6 Firewall Rules Figure 65: Schedule configuration for the above example Figure 66: List of user defined services.	l. 114 115 118 120

Figure 67: Custom Services configuration	
Figure 68: Available ALG support on the router	122
Figure 69: Passthrough options for VPN tunnels	123
Figure 70: List of Configured Firewall Rules for the Bridge	124
Figure 71: Bridge Firewall Rule configuration	124
Figure 72: List of Available Application Rules showing 4 unique rules	126
Figure 73: Content Filtering used to block access to proxy servers and prevent ActiveX c from being downloaded	ontrols 127
Figure 74: Two trusted domains added to the Approved URLs List	128
Figure 75: One keyword added to the block list	129
Figure 76: Export Approved URL list	130
Figure 77: Dynamic WCF	130
Figure 78: The following example binds a LAN host's MAC Address to an IP address ser DSR. If there is an IP/MAC Binding violation, the violating packet will be dropp logs will be captured	ved by ed and 132
Figure 79: Intrusion Prevention features on the router	134
Figure 80: Protecting the router and LAN from internet attacks	135
Figure 81: Enabling IGMP Proxy for the LAN	136
Figure 82: Example of Gateway-to-Gateway IPsec VPN tunnel using two DSR routers co to the Internet	nnected 137
Figure 83: Example of three IPsec client connections to the internal network through the IPsec gateway	DSR 138
Figure 84: VPN Wizard launch screen	139
Figure 85: IPsec policy configuration	142
Figure 86: IPsec policy configuration continued (Auto policy via IKE)	144
Figure 87: IPsec policy configuration continued (Auto / Manual Phase 2)	145
Figure 88: PPTP tunnel configuration – PPTP Client	147
Figure 89: PPTP VPN connection status	147
Figure 90: PPTP tunnel configuration – PPTP Server	148
Figure 91: L2TP tunnel configuration – L2TP Server	149
Figure 92: L2TP tunnel configuration – L2TP Client	151
Figure 93: GRE Tunnel configuration	152
Figure 94: OpenVPN configuration	154
Figure 95: OpenVPN Remote Network	154
Figure 96: OpenVPN Authentication	155
Figure 97: Example of clientless SSL VPN connections to the DSR	158
Figure 98: List of groups	159

Figure 99: User group configuration	0
Figure 100: SSLVPN Settings	1
Figure 101: Group login policies options	2
Figure 102: Browser policies options	3
Figure 103: IP policies options	4
Figure 104: Available Users with login status and associated Group	5
Figure 105: User configuration options	6
Figure 106: Import a CSV file with multiple users to the User Database	7
Figure 107: List of SSL VPN polices (Global filter)	8
Figure 108: SSL VPN policy configuration	9
Figure 109: List of configured resources, which are available to assign to SSL VPN policies17	1
Figure 110: List of Available Applications for SSL Port Forwarding	3
Figure 111: SSL VPN client adapter and access configuration	5
Figure 112: Configured client routes only apply in split tunnel mode	6
Figure 113: List of configured SSL VPN portals. The configured portal can then be associated with an authentication domain	7
Figure 114: SSL VPN Portal configuration	9
Figure 115: USB Device Detection	1
Figure 116: USB SharePort	2
Figure 117: SMS Service – Send SMS	3
Figure 118: SMS Service – Receive SMS	4
Figure 119: POP3 Authentication Server configuration	5
Figure 120: POP3 CA file upload	6
Figure 121: NT Domain Authentication Server configuration	7
Figure 122: RADIUS Server configuration	8
Figure 123: Active Directory Authentication Server configuration	9
Figure 124: LDAP Authentication Server configuration	1
Figure 125: Certificate summary for IPsec and HTTPS management	3
Figure 126: Advanced Switch Settings	4
Figure 127: Device Drivers	5
Figure 128: Installation of driver/language pack	6
Figure 129: Selection of Installed Language	7
Figure 130: User Login policy configuration	9
Figure 131: Admin Settings	0
Figure 132: License upload field and List of Active Licenses	1
Figure 133: Remote Management from the WAN	2

Figure 134: Web GUI Management from the WAN	203
Figure 135: SNMP Users, Traps, and Access Control	204
Figure 136: SNMP system information for this router	205
Figure 137: Date, Time, and NTP server setup	206
Figure 138: Facility settings for Logging	207
Figure 139: Log configuration options for traffic through router	209
Figure 140: IPv6 Log configuration options for traffic through router	209
Figure 141: E-mail configuration as a Remote Logging option	210
Figure 142: Syslog server configuration for Remote Logging (continued)	211
Figure 143: VPN logs displayed in GUI event viewer	212
Figure 144: Restoring configuration from a saved file will result in the current configurat overwritten and a reboot	ion being 213
Figure 145: Firmware version information and upgrade option	215
Figure 146: Firmware upgrade and configuration restore/backup via USB	216
Figure 147: Dynamic DNS configuration	217
Figure 148: Router diagnostics tools available in the GUI	218
Figure 149: Sample trace route output	220
Figure 150: Localization	221
Figure 151: Device Status display	223
Figure 152: Device Status display (continued)	225
Figure 153: Resource Utilization statistics	226
Figure 154: Resource Utilization data (continued)	226
Figure 155: Resource Utilization data (continued)	
Figure 156: Physical port statistics	227
Figure 157: AP specific statistics	228
Figure 158: List of current Active Firewall Sessions	228
Figure 159: List of connected 802.11 clients per AP	229
Figure 160: List of LAN hosts	229
Figure 161: List of current Active VPN Sessions	231

Chapter 1. Introduction

D-Link Services Routers offer a secure, high performance networking solution to address the growing needs of small and medium businesses. Integrated high-speed IEEE 802.11n and 3G wireless technologies offer comparable performance to traditional wired networks, but with fewer limitations. Optimal network security is provided via features such as virtual private network (VPN) tunnels, IP Security (IPsec), Point-to-Point Tunneling Protocol (PPTP), Layer 2 Tunneling Protocol (L2TP), and Secure Sockets Layer (SSL). Empower your road warriors with clientless remote access anywhere and anytime using SSL VPN tunnels.

With the D-Link Services Router you are able to experience a diverse set of benefits:

• Comprehensive Management Capabilities

The DSR-500, DSR-500N, DSR-1000 and DSR-1000N include dual-WAN Gigabit Ethernet which provides policy-based service management ensuring maximum productivity for your business operations. The failover feature maintains data traffic without disconnecting when a landline connection is lost. The Outbound Load Balancing feature adjusts outgoing traffic across two WAN interfaces and optimizes the system performance resulting in high availability. The solution supports configuring a port as a dedicated DMZ port allowing you to isolate servers from your LAN.

- DSR-150/150N/250/250N producst have a single WAN interface, and thus it does not support Auto Failover and Load Balancing scenarios.
 - Superior Wireless Performance

Designed to deliver superior wireless performance, the DSR-500N and DSR-1000N include 802.11 a/b/g/n support, allowing for operation on either the 2.4 GHz or 5 GHz radio bands. Multiple In Multiple Out (MIMO) technology allows the DSR-500N and DSR-1000N to provide high data rates with minimal "dead spots" throughout the wireless coverage area.

SR-150N, DSR-250N and DSR-500N support the 2.4GHz radio band only.

• Flexible Deployment Options

The DSR-1000 / 1000N supports Third Generation (3G) Networks via an extendable USB 3G dongle. This 3G network capability offers an additional secure data connection for networks that provide critical services. The DSR-1000N can be configured to automatically switch to a 3G network whenever a physical link is lost.

• Robust VPN features

A fully featured virtual private network (VPN) provides your mobile workers and branch offices with a secure link to your network. The DSR-150/150N/250/250N, DSR-500/500N and DSR-1000 /1000N are capable of simultaneously managing 5, 5, 10, 20 Secure Sockets Layer (SSL) VPN tunnels respectively, empowering your mobile users by providing remote access to a central corporate database. Site-to-site VPN tunnels use IP Security (IPsec) Protocol, Point-to-Point Tunneling Protocol (PPTP), or Layer 2 Tunneling Protocol (L2TP) to facilitate

branch office connectivity through encrypted virtual links. The DSR-150/150N, DSR-250/250N, DSR-500/500N and DSR-1000/1000N support 10, 25, 35 and 75 simultaneous IPsec VPN tunnels respectively.

Efficient D-Link Green Technology

As a concerned member of the global community, D-Link is devoted to providing eco-friendly products. D-Link Green Wi-Fi and D-Link Green Ethernet save power and prevent waste. The D-Link Green WLAN scheduler reduces wireless power automatically during off-peak hours. Likewise the D-Link Green Ethernet program adjusts power usage based on the detected cable length and link status. In addition, compliance with RoHS (Restriction of Hazardous Substances) and WEEE (Waste Electrical and Electronic Equipment) directives make D-Link Green certified devices the environmentally responsible choice.

Support for the 3G wireless WAN USB dongle is only available for DSR-1000 and DSR-1000N.

1.1 About this User Manual

This document is a high level manual to allow new D-Link Services Router users to configure connectivity, setup VPN tunnels, establish firewall rules and perform general administrative tasks. Typical deployment and use case scenarios are described in each section. For more detailed setup instructions and explanations of each configuration parameter, refer to the online help that can be accessed from each page in the router GUI.

1.2 Typographical Conventions

The following is a list of the various terms, followed by an example of how that term is represented in this document:

- Product Name D-Link Services Router.
 - o Model numbers DSR-500/500N/1000/1000N/250/250N/150/150N
- GUI Menu Path/GUI Navigation *Monitoring > Router Status*
- Important note 🖎

Chapter 2. Configuring Your Network: LAN Setup

It is assumed that the user has a machine for management connected to the LAN to the router. The LAN connection may be through the wired Ethernet ports available on the router, or once the initial setup is complete, the DSR may also be managed through its wireless interface as it is bridged with the LAN. Access the router's graphical user interface (GUI) for management by using any web browser, such as Microsoft Internet Explorer or Mozilla Firefox:

- Go to http://192.168.10.1 (default IP address) to display the router's management login screen.
- Default login credentials for the management GUI:
 - Username: admin
 - Password: admin
- If the router's LAN IP address was changed, use that IP address in the navigation bar of the browser to access the router's management UI.

2.1 LAN Configuration

Network > *LAN* > *LAN* Settings

By default, the router functions as a Dynamic Host Configuration Protocol (DHCP) server to the hosts on the WLAN or LAN network. With DHCP, PCs and other LAN devices can be assigned IP addresses as well as addresses for DNS servers, Windows Internet Name Service (WINS) servers, and the default gateway. With the DHCP server enabled the router's IP address serves as the gateway address for LAN and WLAN clients. The PCs in the LAN are assigned IP addresses from a pool of addresses specified in this procedure. Each pool address is tested before it is assigned to avoid duplicate addresses on the LAN.

For most applications the default DHCP and TCP/IP settings are satisfactory. If you want another PC on your network to be the DHCP server or if you are manually configuring the network settings of all of your PCs, set the DHCP mode to 'none'. DHCP relay can be used to forward DHCP lease information from another LAN device that is the network's DHCP server; this is particularly useful for wireless clients.

Instead of using a DNS server, you can use a Windows Internet Naming Service (WINS) server. A WINS server is the equivalent of a DNS server but uses the NetBIOS protocol to resolve hostnames. The router includes the WINS server IP address in the DHCP configuration when acknowledging a DHCP request from a DHCP client.

You can also enable DNS proxy for the LAN. When this is enabled the router then as a proxy for all DNS requests and communicates with the ISP's DNS servers. When disabled all DHCP clients receive the DNS IP addresses of the ISP.

To configure LAN Connectivity, please follow the steps below:

- 1. In the LAN Setup page, enter the following information for your router:
 - IP address (factory default: 192.168.10.1).

- If you change the IP address and click Save Settings, the GUI will not respond. Open a new connection to the new IP address and log in again. Be sure the LAN host (the machine used to manage the router) has obtained IP address from newly assigned pool (or has a static IP address in the router's LAN subnet) before accessing the router via changed IP address.
 - Subnet mask (factory default: 255.255.255.0).
- 2. In the DHCP section, select the DHCP mode:
 - None: the router's DHCP server is disabled for the LAN
 - DHCP Server. With this option the router assigns an IP address within the specified range plus additional specified information to any LAN device that requests DHCP served addresses.
 - DHCP Relay: With this option enabled, DHCP clients on the LAN can receive IP address leases and corresponding information from a DHCP server on a different subnet. Specify the Relay Gateway, and when LAN clients make a DHCP request it will be passed along to the server accessible via the Relay Gateway IP address.
 - If DHCP is being enabled, enter the following DHCP server parameters:
 - Starting and Ending IP Addresses: Enter the first and last continuous addresses in the IP address pool. Any new DHCP client joining the LAN is assigned an IP address in this range. The default starting address is 192.168.10.2. The default ending address is 192.168.10.100. These addresses should be in the same IP address subnet as the router's LAN IP address. You may wish to save part of the subnet range for devices with statically assigned IP addresses in the LAN.
 - Primary and Secondary DNS servers: If configured domain name system (DNS) servers are available on the LAN enter their IP addresses here.
 - Default Gateway: By default this setting has the router's LAN IP address. It can be customized to any valid IP within the LAN subnet, in the event that the network's gateway is not this router. In this case the DHCP server will give the configured IP address as the Default Gateway to its DHCP clients.
 - Domain Name: This is the network domain name used for identification.
 - WINS Server (optional): Enter the IP address for the WINS server or, if present in your network, the Windows NetBIOS server.
 - Lease Time: Enter the time, in hours, for which IP addresses are leased to clients.
 - Relay Gateway: Enter the gateway address. This is the only configuration parameter required in this section when DHCP Relay is selected as its DHCP mode
- **3**. In the DNS Host Name Mapping section:

- Host Name: Provide a valid host name
- IP address: Provide the IP address of the host name,
- 4. In the LAN proxy section:
 - Enable DNS Proxy: To enable the router to act as a proxy for all DNS requests and communicate with the ISP's DNS servers, click the checkbox.
- 5. Click Save Settings to apply all changes.

Figure 1: Setup page for LAN TCP/IP settings (a)

	æ	Status	🛜 Wireless	📮 Network	🚯 VPN	Security	🏈 Maintenance	
Network	» LAN >	 LAN Setting 	gs					00

The LAN Configuration page allows you to configure the LAN interface of the router including default behaviour for ping on LAN interfaces, the DHCP Server which runs on it and Changes here affect all devices connected to the router's LAN switch and also wireless LAN clients. Note that a change to the LAN IP address will require all LAN hosts to be in the same subnet and use the new address to access this GUI.

Figure 2: Setup page for LAN TCP/IP settings (b)

LAN Settin	gs		
LAN Ping Allow Pi	ng from LAN	ОН	
IP Addres	ss Setup		
IP Addre	\$55	192.168.10.1	
Subnet	Mask	255.255.255.0	
DHCP Set	up		
DHCP M	ode	DHCP Server 🔻	
Starting	IP Address	192.168.10.100	
Ending I	P Address	192.168.10.254	
Default	Gateway	192.168.10.1	
Domain I	Name	DLink	
Lease Ti	me	24 [Range: 1 - 262800] H	Hours
Configur	e DNS / WINS	OFF	
-			
DNS Host	Name Mapping		
#	Host Name		IP Address
1			
2			
3			
4			
5			
6			
7			
8			
	·		
LAN Prox	V DNS Provv	ON THE	
Activate			
	DIG FLOXY		

2.1.1 LAN DHCP Reserved IPs

Network > LAN > LAN DHCP Reserved IPs

The router's DHCP server can assign TCP/IP configurations to computers in the LAN explicitly by adding client's network interface hardware address and the IP address to be assigned to that client in DHCP server's database. Whenever DHCP server receives a request from client, hardware address of that client is compared with the hardware address list present in the database, if an IP address is already assigned to that computer or device in the database , the customized IP address is configured otherwise an IP address is assigned to the client automatically from the DHCP pool.

Computer Name: The user defined name for the LAN host.

IP Addresses: The LAN IP address of a host that is reserved by the DHCP server.

MAC Addresses: The MAC address that will be assigned the reserved IP address when it is on the LAN.

Associate with IP/MAC Binding: When the user enables this option the Computer Name, IP and MAC addresses are associated with the IP/MAC binding.

The actions that can be taken on list of reserved IP addresses are:

Select: Selects all the reserved IP addresses in the list.

Edit: Opens the LAN DHCP Reserved IP Configuration page to edit the selected binding rule.

Delete: Deletes the selected IP address reservation(s)

Add: Opens the LAN DHCP Reserved IP Configuration page to add a new binding rule.

Figure 3: LAN DHCP Reserved IPs

			Daleh		Wi Wi	zard System Sear	ch ལ
🕜 Status	🛜 Wireless	📃 Network	CD VPN	🚨 Se	ecurity	🔅 Maintenan	се
Network » LAN » LAN DHC	P Reserved IPs						00
LAN DHCP Reserved IPs	List						
Show 10 ▼ entries	[Right click on record	to get more options]					٩
Host Name	÷ M	AC Address		⇔	IP Addres	SS	⇔
		No data av	ailable in table				
Showing 0 to 0 of 0 entries Next > Last >							
Add New DHCP Reserved IP							

LAN DHCP Reserved IP Configuration	
Host Name IP Address MAC Address Associate with IP /MAC Binding	
	Save

Note the following limits for the number of DHCP Reserved IP addresses per product:
 DSR-150/150N: 32
 DSR-250/250N: 64
 DSR-500/500N: 96

🖎 DSR-1000/1000N: 128

2.1.2 LAN DHCP Leased Clients

Setup > Network Information > DHCP Clients > LAN Leased Clients

This page provides the list of clients connect to LAN DHCP server.

Figure 4: LAN DHCP Leased Clients

	🕜 Status	🛜 Wireless	💻 Network	ഹ്ല vpn	<u> </u> Security	Maintenance			
Status » Network Information » DHCP Clients » LAN Leased Clients									
LAN	Leased Clients	IPv6 Leased Clients	DMZ Leased Clients						
This table addresses	This table displays the list of DHCP clients connected to the LAN DHCP Server and to whom DHCP Server has given leases.If the LAN is serving DHCP addresses, this table will show the list of DHCP clients for the router's LAN DHCP server.								
LAN Lea	sed Clients Li	st							
Show 10	▼ entries	[Right click on record	to get more options]			٩			
Host Na	ame	÷	IP Address			⇔			
			No data	available in table					
Showing () to 0 of 0 entries					First 🖪 Previous Next 🗲 Last 🔰			

IP Addresses: The LAN IP address of a host that matches the reserved IP list. **MAC Addresses**: The MAC address of a LAN host that has a configured IP address reservation.

2.1.3 LAN Configuration in an IPv6 Network

Network > *IPv6* > *LAN Settings* > *IPv6 LAn Settings*

- (1) In IPv6 mode, the LAN DHCP server is disabled by default (similar to IPv4 mode). The DHCPv6 server will serve IPv6 addresses from configured address pools with the IPv6 Prefix Length assigned to the LAN.
- \therefore IPv4 / IPv6 mode must be enabled in the *Advanced* > *IPv6* > *IP mode* to enable IPv6 configuration options.

LAN Settings

The default IPv6 LAN address for the router is **fec0::1**. You can change this 128 bit IPv6 address based on your network requirements. The other field that defines the LAN settings for the router is the prefix length. The IPv6 network (subnet) is identified by the initial bits of the address called the prefix. By default this is **64** bits long. All hosts in the network have common initial bits for their IPv6 address; the number of common initial bits in the network's addresses is set by the prefix length field.

Figure 5: IPv6 LAN and DHCPv6 configuration

🝘 Status	🛜 Wireless	📮 Network	🚯 VPN	Security	🗘° Maintenanc	ce .
Network » IPv6 » LAN Sett	ings » IPv6 LAN Setting	5				0 0
IPv6 LAN Settings IF	Pv6 Address Pools Pi	refixes for Prefix Delega	ation Router A	dvertisement Adv	ertisement Prefixes	

This page allows user to IPv6 related LAN configurations.The IPv6 address is 128 bits, with a default 64 bit prefix that defines the network and is common among all LAN hosts. Changes here affect all devices connected to the router's LAN switch. Note that a change to the defaul LAN IP address will require all LAN hosts to be in the same network prefix and use the new address to access this GUI.

IPv6 LAN Settings	
LAN TCP/IP Setup IPv6 Address IPv6 Prefix Length	fec0::1 64 [Range: 0 - 128]
DHCPv6	
Status	
Mode	Stateless Stateful
Domain Name	dlink.com
Server Preference	255 [Range: 0 - 255]
DNS Servers	Use DNS Proxy
Lease / Rebind Time	86400 [Range: 0 - 604800] Seconds
Prefix Delegation	OFF
	Save Cancel

As with an IPv4 LAN network, the router has a DHCPv6 server. If enabled, the router assigns an IP address within the specified range plus additional specified information to any LAN PC that requests DHCP served addresses.

The following settings are used to configure the DHCPv6 server:

- DHCP Mode: The IPv6 DHCP server is either stateless or stateful. If stateless is selected an external IPv6 DHCP server is not required as the IPv6 LAN hosts are auto-configured by this router. In this case the router advertisement daemon (RADVD) must be configured on this device and ICMPv6 router discovery messages are used by the host for auto-configuration. There are no managed addresses to serve the LAN nodes. If stateful is selected the IPv6 LAN host will rely on an external DHCPv6 server to provide required configuration settings
- The domain name of the DHCPv6 server is an optional setting
- Server Preference is used to indicate the preference level of this DHCP server. DHCP advertise messages with the highest server preference value to a LAN host are preferred over other DHCP server advertise messages. The default is 255.
- The DNS server details can be manually entered here (primary/secondary options. An alternative is to allow the LAN DHCP client to receive the DNS server details from the ISP directly. By selecting Use DNS proxy, this router acts as a proxy for all DNS requests and communicates with the ISP's DNS servers (a WAN configuration parameter).
- Primary and Secondary DNS servers: If there is configured domain name system (DNS) servers available on the LAN enter the IP addresses here.
- Lease/Rebind time sets the duration of the DHCPv6 lease from this router to the LAN client.

IPv6 Address Pools

This feature allows you to define the IPv6 delegation prefix for a range of IP addresses to be served by the gateway's DHCPv6 server. Using a delegation prefix you can automate the process of informing other networking equipment on the LAN of DHCP information specific for the assigned prefix.

Prefix Delegation

The following settings are used to configure the Prefix Delegation:

- Prefix Delegation: Select this option to enable prefix delegation in DHCPv6 server. This option can be selected only in Stateless Address Auto Configuration mode of DHCPv6 server.
- Prefix Address: IPv6 prefix address in the DHCPv6 server prefix pool
- Prefix Length: Length prefix address

2.1.4 Configuring IPv6 Router Advertisements

Router Advertisements are analogous to IPv4 DHCP assignments for LAN clients, in that the router will assign an IP address and supporting network information to devices that are configured to accept such details. Router Advertisement is required in an IPv6 network is required for stateless auto configuration of the IPv6 LAN. By configuring the Router Advertisement Daemon on this router, the DSR will listen on the LAN for router solicitations and respond to these LAN hosts with router advisements.

RADVD

Network > *IPv6* > *LAN Settings* > *Router Advertisement*

To support stateless IPv6 auto configuration on the LAN, set the RADVD status to Enable. The following settings are used to configure RADVD:

- Advertise Mode: Select Unsolicited Multicast to send router advertisements (RA's) to all interfaces in the multicast group. To restrict RA's to well-known IPv6 addresses on the LAN, and thereby reduce overall network traffic, select Unicast only.
- Advertise Interval: When advertisements are unsolicited multicast packets, this interval sets the maximum time between advertisements from the interface. The actual duration between advertisements is a random value between one third of this field and this field. The default is 30 seconds.
- RA Flags: The router advertisements (RA's) can be sent with one or both of these flags. Chose Managed to use the administered /stateful protocol for address auto configuration. If the Other flag is selected the host uses administered/stateful protocol for non-address auto configuration.
- Router Preference: this low/medium/high parameter determines the preference associated with the RADVD process of the router. This is useful if there are other RADVD enabled devices on the LAN as it helps avoid conflicts for IPv6 clients.
- MTU: The router advertisement will set this maximum transmission unit (MTU) value for all nodes in the LAN that are auto configured by the router. The default is 1500.
- Router Lifetime: This value is present in RA's and indicates the usefulness of this router as a default router for the interface. The default is 3600 seconds. Upon expiration of this value, a new RADVD exchange must take place between the host and this router.

Figure 6: Configuring the Router Advertisement Daemon

	🕜 Status	s 🛜 Wireles	s 📃 Network	က္ခ် VPN	Security	🔅 Maintenand	се
Network » IPv6 » LAN Settings » Router Advertisement							
- 1	v6 LAN Settings	IPv6 Address Pools	Prefixes for Prefix Deleg	ation Router A	dvertisement Adv	ertisement Prefixes	

This page allows user to configure Router Advertisement Daemon (RADVD) related configurations.Router Advertisements are analogous to IPv4 DHCP assignments for LAN clients. With this the router will perform stateless auto configuration of LAN nodes by assigning an IP address and supporting network information to devices that are configured to accept such details. By configuring the Router Advertisement Daemon on this router, the device will listen on the LAN for router solicitations and respond to these LAN hosts with router advertisements.

Router Advertisement

Router Advertisement Daemon Setup Status	ON
Advertise Mode	● Unsolicited Multicast 🛛 Unicast Only
Advertise Interval	30 [Range: 10 - 1800]
RA Flags	
Managed	OFF
Other	ON III
Router Preference	🔍 Low 🔍 Medium 💿 High
MTU	1500 [Range: 1280 - 1500]
Router Lifetime	3600 Seconds
	Save Cancel

Advertisement Prefixes

Network > IPv6 > LAN Settings > Advertisement Prefixes

The router advertisements configured with advertisement prefixes allow this router to inform hosts how to perform stateless address auto configuration. Router advertisements contain a list of subnet prefixes that allow the router to determine neighbors and whether the host is on the same link as the router.

The following prefix options are available for the router advertisements:

- IPv6 Prefix Type: To ensure hosts support IPv6 to IPv4 tunnel select the 6to4 prefix type. Selecting Global/Local/ISATAP will allow the nodes to support all other IPv6 routing options
- SLA ID: The SLA ID (Site-Level Aggregation Identifier) is available when 6to4 Prefixes are selected. This should be the interface ID of the router's LAN interface used for router advertisements.
- IPv6 Prefix: When using Global/Local/ISATAP prefixes, this field is used to define the IPv6 network advertised by this router.

- IPv6 Prefix Length: This value indicates the number contiguous, higher order bits of the IPv6 address that define up the network portion of the address. Typically this is 64.
- Prefix Lifetime: This defines the duration (in seconds) that the requesting node is allowed to use the advertised prefix. It is analogous to DHCP lease time in an IPv4 network.

Figure 7: IPv6 Advertisement Prefix settings

	🝘 Status	🛜 Wireless	🖳 Network	🖒 VPN	Security	🔅 Maintenan	ce	
Network » IPv6 » LAN Settings » Advertisement Prefixes								
IPv6	LAN Settings IPv	6 Address Pools Pre	fixes for Prefix Delega	ation Router Ad	dvertisement Adv	ertisement Prefixes		

This page allows user to configure IPv6 prefixes which will be used while advertisement. The router advertisements configured with advertisement prefixes allow this router to inform hosts how to perform stateless address auto configuration. Router advertisements contain a list of subnet prefixes that allow the router to determine neighbors and whether the host is on the same link as the router.

Advertisement Prefixes List

Show 10 • entries [Right click of	٩		
IPv6 Prefix	IPv6 Prefix Length	⇔	Life Time ⊖
	No data available in table		
Showing 0 to 0 of 0 entries			↓ First ↓ Previous Next → Last →
Add New Advertisement Prefix			

Advertisement Prefix Configuration		x
IPv6 Prefix Type SLA ID Prefix Lifetime	 6to4 Global /Local/ISATAP [Range: 0 - 999] [Range: 5 - 65536] Seconds 	
	Save	

2.2 VLAN Configuration

The router supports virtual network isolation on the LAN with the use of VLANs. LAN devices can be configured to communicate in a sub network defined by VLAN identifiers. LAN ports can be assigned

unique VLAN IDs so that traffic to and from that physical port can be isolated from the general LAN. VLAN filtering is particularly useful to limit broadcast packets of a device in a large network

VLAN support is enabled by default in the router. In the VLAN Configuration page, enable VLAN support on the router and then proceed to the next section to define the virtual network.

Network > *VLAN* > *VLAN Settings*

The Available VLAN page shows a list of configured VLANs by name and VLAN ID. A VLAN membership can be created by clicking the Add button below the List of Available VLANs.

A VLAN membership entry consists of a VLAN identifier and the numerical VLAN ID which is assigned to the VLAN membership. The VLAN ID value can be any number from 2 to 4091. VLAN ID 1 is reserved for the default VLAN, which is used for untagged frames received on the interface. By enabling Inter VLAN Routing, you will allow traffic from LAN hosts belonging to this VLAN ID to pass through to other configured VLAN IDs that have Inter VLAN Routing enabled.

Figure 8: Adding VLAN memberships to the LAN

A Status	🛜 Wireless	💻 Network	CD VPN	🚊 Security	ᅌ Maintenance	
Network » VLAN » VLAN Se	ettings					00
The router supports virtual defined by VLAN identifiers.	network isolation on th	e LAN with the use of V	LANs. LAN devices ca	n be configured to	communicate in a subi	network
VLAN Configuration						
Vlan Enable	(ON				
		Save C	ancel			
VLAN List						
Show 10 v entries	[Right click on record	to get more options]				0
Name 🗘	VLAN ID	⊖ IP Address		⊖ Subnet Mas	sk	⇔
Default	1	192.168.50.1		255.255.255.0		
Showing 1 to 1 of 1 entries				First	I Next >	Last 刘
Add New VLAN						
VLAN Configuration						
			4 5 0 (000)			•
Name			: 1, Kange: Z - 4093]			
Activate InterVLAN		OFF				
Routing						
Multi VLAN Subnet IP Address						
Subnet Mask						
DHCP DHCP Mode		● None ○ DHCP	Server ODHCP	Relay		
LAN Proxy		or .				
Lilable Dits Proxy						
					_	
						save

2.2.1 Associating VLANs to ports

In order to tag all traffic through a specific LAN port with a VLAN ID, you can associate a VLAN to a physical port.

Network > *VLAN* > *Port VLAN*

VLAN membership properties for the LAN and wireless LAN are listed on this page. The VLAN Port table displays the port identifier, the mode setting for that port and VLAN membership information. The configuration page is accessed by selecting one of the four physical ports or a configured access point and clicking Edit.

The edit page offers the following configuration options:

- Mode: The mode of this VLAN can be General, Access, or Trunk. The default is access.
- In General mode the port is a member of a user selectable set of VLANs. The port sends and receives data that is tagged or untagged with a VLAN ID. If the data into the port is untagged, it is assigned the defined PVID. In the configuration from Figure 4, Port 3 is a General port with PVID 3, so untagged data into Port 3 will be assigned PVID 3. All tagged data sent out of the port with the same PVID will be untagged. This is mode is typically used with IP Phones that have dual Ethernet ports. Data coming from phone to the switch port on the router will be tagged. Data passing through the phone from a connected device will be untagged.

Figure 9: Port VLAN list



This page allows user to configure the port VLANs. A user can choose ports and can add them into a VLAN.In order to tag all traffic through a specific LAN port with a VLAN ID, you can associate a VLAN to a physical port. The VLAN Port table displays the port identifier, the mode setting for that port and VLAN membership information. Go to the Available VLAN page to configure a VLAN membership that can then be associated with a port

Port VLANs List

							٩
Port Name	÷	Mode	⊜	PVID ⊖	VLAN Member	rship	⇔
OptionalPort		Access		1	1		
Port1		Access		1	1		
Port2		Access		1	1		
Port3		Access		1	1		
Port4		Access		1	1		
Port5		Access		1	1		
Port6		Access		1	1		
Port7		Access		1	1		
Showing 1 to 8 of 8 entries							
Wireless VLANs List							
							٩
Port Name	÷	Mode	⇔	PVID ⊕	VLAN Membe	rship	÷

Showing 1 to 1 of 1 entries

AutoTest

• In Access mode the port is a member of a single VLAN (and only one). All data going into and out of the port is untagged. Traffic through a port in access mode looks like any other Ethernet frame.

1

- In Trunk mode the port is a member of a user selectable set of VLANs. All data going into and out of the port is tagged. Untagged coming into the port is not forwarded, except for the default VLAN with PVID=1, which is untagged. Trunk ports multiplex traffic for multiple VLANs over the same physical link.
- Select PVID for the port when the General mode is selected.

1

Access

• Configured VLAN memberships will be displayed on the VLAN Membership Configuration for the port. By selecting one more VLAN membership options for a General or Trunk port, traffic can be routed between the selected VLAN membership IDs The DSR-150 / 150N does not support General mode for port VLANs due to hardware limitations.

Figure 10: Configuring VLAN membership for a port



This page allows user to configure the port VLANs. A user can choose ports and can add them into a VLAN.In order to tag all traffic through a specific LAN port with a VLAN ID, you can associate a VLAN to a physical port. The VLAN Port table displays the port identifier, the mode setting for that port and VLAN membership information. Go to the Available VLAN page to configure a VLAN membership that can then be associated with a port

Port VLANs List

				٩
Port Name 🔂	Mode ⊖	PVID €	VLAN Membership	⇔
OptionalPort	Access	1	1	
Port1	Access	1	1	
Port2	Access	1	1	
Port3	Access	1	1	
Port4	Access	1	1	
Port5	Access	1	1	
Port6	Access	1	1	
Port7	Access	1	1	
Showing 1 to 8 of 8 entries				

2.2.2 Multiple VLAN Subnets

Network > *VLAN* > *VLAN* Settings

This page shows a list of available multi-VLAN subnets. Each configured VLAN ID can map directly to a subnet within the LAN. Each LAN port can be assigned a unique IP address and a VLAN specific DHCP server can be configured to assign IP address leases to devices on this VLAN.

VLAN ID: The PVID of the VLAN that will have all member devices be part of the same subnet range.

IP Address: The IP address associated with a port assigned this VLAN ID.

Subnet Mask: Subnet Mask for the above IP Address

Figure 11: Multiple VLAN Subnets

	🙆 Status	🛜 Wireless	💻 Network	🚯 VPN	🚊 Security	ô Maintenance		
Network » VLAN » VLAN Settings								
The router supports virtual network isolation on the LAN with the use of VLANs. LAN devices can be configured to communicate in a subnetwork defined by VLAN identifiers.								

VLAN Configuration						
Vlan Enable	ОН	01				
	Sav	e Cancel				
VLAN List						
Show 10 • entries	[Right click on record to get mo	ore options]	٩			
Name 🔂	VLAN ID 😌	IP Address 🕀	Subnet Mask ⊖			
Default	1	192.168.50.1	255.255.255.0			
Showing 1 to 1 of 1 entries 1 Next > Last >						
Add New VLAN						

2.2.3 VLAN configuration

Network > VLAN > VLAN Settings

This page allows enabling or disabling the VLAN function on the router. Virtual LANs can be created in this router to provide segmentation capabilities for firewall rules and VPN policies. The LAN network is considered the default VLAN. Check the Enable VLAN box to add VLAN functionality to the LAN.

Figure 12: VLAN Configuration

	🙆 Status	🛜 Wireless	📮 Network	🚯 VPN	🚊 Security	ô Maintenance	
Network	» VIAN » VIAN Set	tings					00

The router supports virtual network isolation on the LAN with the use of VLANs. LAN devices can be configured to communicate in a subnetwork defined by VLAN identifiers.

VLAN Configuration						
Vlan Enable		ON				
		Save	Cancel			
VLAN List						
Show 10 • entries	[Right click on reco	ord to get more op	tions]			٩
Name 🔂	VLAN ID	⊖ IP /	Address	⇔	Subnet Mask	⇔
Default	1	192.	168.50.1		255.255.255.0	
Showing 1 to 1 of 1 entries					🕅 First 👌 Prev	ious 1 Next > Last >
Add New VLAN						
VLAN Configuration	1					X
VLAN ID			[Default: 1, Range:	2 - 4093]		
Name						
Activate InterVLAN		OFF				
Routing						
Multi VLAN Subnet						
IP Address						
Subnet Mask						
DHCP						
DHCP Mode		None	DHCP Server	DHCP Relation	iy	
LAN Proxy						
Enable DNS Proxy		OFF				
						Save

2.3 Configurable Port: DMZ Setup

This router supports one of the physical ports to be configured as a secondary WAN Ethernet port or a dedicated DMZ port. A DMZ is a sub network that is open to the public but behind the firewall. The DMZ adds an additional layer of security to the LAN, as specific services/ports that are exposed to the internet on the DMZ do not have to be exposed on the LAN. It is recommended that hosts that must be

exposed to the internet (such as web or email servers) be placed in the DMZ network. Firewall rules can be allowed to permit access specific services/ports to the DMZ from both the LAN or WAN. In the event of an attack to any of the DMZ nodes, the LAN is not necessarily vulnerable as well.

Network > Internet > DMZ DHCP Reserved IPs

DMZ configuration is identical to the LAN configuration. There are no restrictions on the IP address or subnet assigned to the DMZ port, other than the fact that it cannot be identical to the IP address given to the LAN interface of this gateway.

Figure 13: DMZ configuration

	🕜 Status	🛜 Wireless	💻 Network	🖒 VPN	🚊 Security	🌻 Maintenance	
Network	» Internet » DMZ DI	HCP Reserved IPs					00

This page allows user to configure the reserved IP Addresses for the DHCP Server configuration.In order to ensure certain DMZ devices always receive the same IP address when DHCP is enabled on the DMZ, bind the DMZ device's MAC address to a preferred IP address. This IP address will only be assigned to the matching MAC address.

DMZ DHCP Reserved IPs List

Show 10 • entries	[Right click on record to	get more options]				٩
IP Address	÷	MAC Address		⇔	Status	⇔
		No data ava	ilable in table			
Showing 0 to 0 of 0 entries Next > Last >					Last 刘	
Add New DMZ DHCP Reserved IP						
🗥 Status	🛜 Wireless	📮 Network	ഹ്ല vpn	Security	🍄 Maintenance	
Network » Internet » DMZ Settings						

The De-Militarized Zone (DMZ) is a network which, when compared to the LAN, has fewer firewall restrictions, by default. This zone can be used to host servers and give public access to them.DMZ setup is similar to the LAN TCP/IP options. The network subnet for the DMZ can be different from the LAN, and firewall/VPN policies can be customized for the DMZ. The DMZ is typically used for network devices that you wish to expose to the internet, such as FTP or mail servers.

DMZ Settings	
DMZ Setup Enable DMZ	ON [11]
DMZ IP Address	
IP Address	172.17.100.254
Subnet Mask	255.255.255.0
DHCP for DMZ	
DHCP Mode	🔍 None 💿 DHCP Server 🔍 DHCP Relay
Starting IP Address	172.17.100.100
Ending IP Address	172.17.100.253
Default Gateway	172.17.100.254
Domain Name	DLink
Lease Time	24 [Range: 1 - 262800] Hours
Primary DNS Server	
Secondary DNS Server	
WINS Server	
Enable DNS Proxy	ON III
	Save Cancel

- Solution For DSR-500N and DSR-1000N, in order to configure a DMZ port, the router's configurable port must be set to DMZ in the *Setup* > *Internet Settings* > *Configurable Port* page.
- Solution For DSR-150N and DSR-250N, enabling DMZ will result in port 8 of the LAN switch being used for a dedicated DMZ port. The other 7 LAN ports remain unchanged.

2.4 Universal Plug and Play (UPnP)

Network > *LAN* > *UPnP*

Universal Plug and Play (UPnP) is a feature that allows the router to discovery devices on the network that can communicate with the router and allow for auto configuration. If a network device is detected by UPnP, the router can open internal or external ports for the traffic protocol required by that network device.

Once UPnP is enabled, you can configure the router to detect UPnP-supporting devices on the LAN (or a configured VLAN). If disabled, the router will not allow for automatic device configuration.

Configure the following settings to use UPnP:

- Advertisement Period: This is the frequency that the router broadcasts UPnP information over the network. A large value will minimize network traffic but cause delays in identifying new UPnP devices to the network.
- Advertisement Time to Live: This is expressed in hops for each UPnP packet. This is the number of steps a packet is allowed to propagate before being discarded. Small values will limit the UPnP broadcast range. A default of 4 is typical for networks with few switches.
Figure 14: UPnP Configuration

🙆 Status	🛜 Wireless	💻 Network	ഹ്ല VPN	Security	O Maintenance	
Network » LAN » UPnP						00

UPnP (Universal Plug and Play) is a feature that allows for automatic discovery of devices that can communicate with this security appliance.UPnP is useful for auto-configuring application rules, where internal/external ports for the traffic protocol required by a detected network device are opened without user intervention. The UPnP Port Map Table has the details of UPnP devices that respond to the router's advertisements, and thereby don't require corresponding application (port forwarding) rules to be configured.

UPnP		
UPnP Setup Activate UPnP	он Ш	
LAN Segment	LAN	
Advertisement Period	1800 [Range: 1 - 86400] Seconds	
Advertisement Time To Live	4 [Range: 1 - 255] Hops	
	Save Cancel	
UPnP Port Map List		
Show 10 • entries [No right click option	5]	٩
Active 🗘 IP Address	Protocol ↔ Internal Port ↔	External Port 🛛 😌
	No data available in table	
Showing 0 to 0 of 0 entries	H	First 🔄 Previous Next 🔰 Last 🔰

UPnP Port map Table

The UPnP Port map Table has the details of UPnP devices that respond to the router's advertisements. The following information is displayed for each detected device:

- Active: A yes/no indicating whether the port of the UPnP device that established a connection is currently active
- Protocol: The network protocol (i.e. HTTP, FTP, etc.) used by the DSR
- Int. Port (Internal Port): The internal ports opened by UPnP (if any)
- Ext. Port (External Port): The external ports opened by UPnP (if any)
- IP Address: The IP address of the UPnP device detected by this router

Click Refresh to refresh the portmap table and search for any new UPnP devices.

2.5 Captive Portal

LAN users can gain internet access via web portal authentication with the DSR. Also referred to as Run-Time Authentication, a Captive Portal is ideal for a web café scenario where users initiate HTTP connection requests for web access but are not interested in accessing any LAN services. Firewall policies underneath will define which users require authentication for HTTP access, and when a matching user request is made the DSR will intercept the request and prompt for a username / password. The login credentials are compared against the Runtime Authentication users in user database prior to granting HTTP access.

DSR-150/150N/250/250N does not have support for the Captive Portal feature.

Status > Network Information > CaptivePortal Sessions

The active run time internet sessions through the router's firewall are listed in the below table. These users are present in the local or external user database and have had their login credentials approved for internet access. A 'Disconnect' button allows the DSR admin to selectively drop an authenticated user. The "Block MAC" button will result in the selected client being added to the blocked list, and the current and future sessions from this client will be prevented.

Figure 15: Active Runtime sessions



2.5.1 Captive Portal Setup

Security > Authentication > Login Profiles

Captive Portal is a security mechanism to selectively provide authentication on certain interfaces. This page displays configured custom Captive Portal profiles and indicates which are in use.

Figure 16: Captive Portal Profile List

🖾 Status 🛜 W	ireless 📮 Network	A VPN	Security	O Maintenance			
Security » Authentication » Login Profiles							
The table lists all the available Login Profiles in the system. This Login page is used for authentication on Captive Portal enabled interfaces. Login Profiles List							
Show 10 • entries [Right click	on record to get more options]				٩		
Profile Name	🔂 Browser Title			⊖ Status	⇔		
default	D-link Unified Services Router	r		SSLVPN			
default2	D-link Unified Services Router	r		Not In Use			
Showing 1 to 2 of 2 entries			First	Previous 1 Next	Last 刘		
Add New Login Profile							

List of Available Profiles: Any one of these profiles can be used for Captive Portal Login page while enabling Captive Portal.

Click "Add" in the Captive Portal setup page to allow defining customized captive portal login page information (Page Background Color, Header Details, Header Caption, Login Section Details, Advertisement Details, Footer Details and Captive Portal Header Image).

Security > Authentication > Login Profiles

To create a new Captive Portal, a profile with a unique policy name is to be created. The profile governs the entry screen shown to new sessions, and the browser message and background color / header can be customized to identify the service provider for internet access.

Figure 17: Customized Captive Portal Setup

😰 Status 🛜 Wirele	ess 💻 Network	යි VPN 🔒 🖻	Security 🗘 🍄 Mai	ntenance
Security » Authentication » Login Profiles				0 0
The table lists all the available Login Profiles	in the system. This Login page is	used for authentication	n on Captive Portal enable	ed interfaces.
Login Profiles List				
Show 10 • entries [Right click on re	cord to get more options]			٩
Profile Name	Browser Title		⊖ Status	; ⇔
default	D-link Unified Services Router		SSLVPN	
default2	D-link Unified Services Router		Not In U	lse
Showing 1 to 2 of 2 entries			H First A Previous	1 Next > Last >
Add New Login Profile				
Login Profile Configuration				×
General Details Profile Name				
Browser litte Background	● Image ○ Color			
Page Background Image				
	Default <u>Add Add</u>	Add Add Add		
Minimal Page for Mobile Devices	ON UI			
Header Details				
Background	🖲 Image 🔍 Color			-

Header Background Image	Default Add Add Add Add
	Add Add Add Add Add
Header Caption	
Caption Font	Tahoma
Font Size	Small
Font Color	Red
Login Details	
Login Section Title	Portal Login
Welcome Message	Please Login!
Error Message	Invalid UserName/Password
Change Footer Content	055
	Save

Security > Firewall > Blocked Clients

Access for specific clients can be regulated by the Captive Portal as well. The Block Client page allows one to define a MAC address that will always be denied access through all configured Captive Portals.

Figure 18: Blocking specific clients by their MAC address

🙆 Status	🛜 Wireless	📮 Network	ഹ vpn	🚊 Security	🍅 Maintenance	
Security » Firewall » block	edClients					00
This page shows a list of cli	ents MAC addresses bloc	ked by admin.				
Block MAC Clients List						
Show 10 entries	[Right click on record to	get more options]				٩
MAC Address		÷	Description			÷
		No data available	e in table			
Showing 0 to 0 of 0 entries					First Previous Next >	Last 刘
Add New Blocked Clien	ts					

2.5.2 Captive Portals on a VLAN

Network > *VLAN* > *VLAN Settings*

Captive Portals can be enabled on a per-VLAN basis. Hosts of a particular VLAN can be directed to authenticate via the Captive Portal, which may be a customized portal with unique instructions and branding as compared to another VLAN. The most critical aspect of this configuration page is choosing the authentication server. All users (VLAN hosts) that want to gain internet access via the selected Captive Portal will be authenticated through the selected server.

Figure 19: VLAN based configuration of Captive Portals

🕜 Status	🛜 Wireless	💻 Network	🕜 VPN	Security	🍄 Maintenance	
Network » VLAN » VLAN Se	ttings					00
The router supports virtual defined by VLAN identifiers.	network isolation on th	e LAN with the use of V	/LANs. LAN devices	can be configured to	o communicate in a subn	etwork
VLAN Configuration						
Vlan Enable		ON				
		Save C	ancel			
VI AN List						
Show 10 • entries	Right click on record	to get more options]				0
Nome				O Subset He		
Default	1	€ IP Address 192.168.50.1		255.255.255.0	SK	₩
Showing 1 to 1 of 1 entries				K First	Previous 1 Next >	Last 刘
Add New VLAN						
VLAN Configuration						X
VLAN ID		[Defaul	t: 1, Range: 2 - 4093]		
Name						
Activate InterVLAN		OFF				
Routing						
Multi VLAN Subnet IP Address						
Subnet Mask						
DHCP						
DHCP Mode		None ODHCF	Server ODH	ICP Relay		
LAN Proxy Enable DNS Proxy		OFF				
					Sa	ave

Chapter 3. Connecting to the Internet: WAN Setup

This router has two WAN ports that can be used to establish a connection to the internet. The following ISP connection types are supported: DHCP, Static, PPPoE, PPTP, L2TP, 3G Internet (via USB modem).

It is assumed that you have arranged for internet service with your Internet Service Provider (ISP). Please contact your ISP or network administrator for the configuration information that will be required to setup the router.

3.1 Internet Setup Wizard

Setup > Wizard > Internet

The Internet Connection Setup Wizard is available for users new to networking. By going through a few straightforward configuration pages you can take the information provided by your ISP to get your WAN connection up and enable internet access for your network.

System Search. 🛜 Wireless C Status Retwork A VPN 🔒 Security Maintenance X Wizards Internet Connection Wizard Security Wizard This wizard will guide you in configuring This wizard will guide you in connecting your new D-Link Unified Services Router to default Outbound Policy, VPN Passthrough the Internet. and VPN Network Settings. Run... Run... Wireless Wizard Users Wizard This Wizard guides you in creating a new This wizard will guide you through common and easy steps to configure your router's user. wireless interface. Run... Run... Dynamic DNS Wizard Date and Time Wizard This Wizard helps in configuring Dynamic DNS This Wizard helps you in configuring Date WAN 1 or WAN 2 settings. and Time settings. Run.. Run...

Figure 20: Internet Connection Setup Wizard

Internet Conne	stion Wizard		X
	Current Conne	ection type DHCP	
Internet Conne	ction		
DHCP Choose this if your provides you with a this type of connec	Internet connection automatically in IP Address. Most Cable Modems use ction	PPPoE Choose this option if your Internet a username and password to get on modems use this type of connection	connection requires line. Most DSL n
PPTP Choose this if your username and passy Choose this if your username a	Internet connection requires PPTP word to get online r Internet connection requires PPTP and password to get online.	Static IP Address Choose this option if your Internet provided you with IP Address inform manually configured	Setup Provider nation that has to be
L2TP Choose this if your username and passy	Internet connection requires L2TP word to get online		
Step: [1 of 2]		P	revious Next

Internet Connec	ction Wizard			X
	DHCP Cor	nnection Details		
DHCP Connecti	on (Dynamic IP Address)			
MAC Address Source	e Use Default Address 🔻	Host Name	admin	
DNS settings				
DNS Server Source	Get Dynamically from I 🔻			
Step: [2 of 2]			Pre	vious Save

You can start using the Wizard by logging in with the administrator password for the router. Once authenticated set the time zone that you are located in, and then choose the type of ISP connection type: DHCP, Static, PPPoE, PPTP, L2TP. Depending on the connection type a username/password may be required to register this router with the ISP. In most cases the default settings can be used if the ISP did not specify that parameter. The last step in the Wizard is to click the Connect button, which confirms the settings by establishing a link with the ISP. Once connected, you can move on and configure other features in this router.

Solution 3 Solution 3

3.2 WAN Configuration

Network > Internet > WAN1Settings

You must either allow the router to detect WAN connection type automatically or configure manually the following basic settings to enable Internet connectivity:

• ISP Connection type: Based on the ISP you have selected for the primary WAN link for this router, choose Static IP address, DHCP client, Point-to-Point Tunneling Protocol (PPTP), Point-to-Point Protocol over Ethernet (PPPoE), Layer 2 Tunneling Protocol (L2TP). Required fields for the selected ISP type become highlighted. Enter the following information as needed and as provided by your ISP:

- PPPoE Profile Name. This menu lists configured PPPoE profiles, particularly useful when configuring multiple PPPoE connections (i.e. for Japan ISPs that have multiple PPPoE support).
- ISP login information. This is required for PPTP and L2TP ISPs.
 - User Name
 - Password
 - Secret (required for L2TP only)
- MPPE Encryption: For PPTP links, your ISP may require you to enable Microsoft Point-to-Point Encryption (MPPE).
- Split Tunnel (supported for PPTP and L2TP connection). This setting allows your LAN hosts to access internet sites over this WAN link while still permitting VPN traffic to be directed to a VPN configured on this WAN port.
 - Solution I senabled, DSR won't expect a default route from the ISP server. In such case, user has to take care of routing manually by configuring the routing from Static Routing page.
- Connectivity Type: To keep the connection always on, click Keep Connected. To log out after the connection is idle for a period of time (useful if your ISP costs are based on logon times), click Idle Timeout and enter the time, in minutes, to wait before disconnecting in the Idle Time field.
- My IP Address: Enter the IP address assigned to you by the ISP.
- Server IP Address: Enter the IP address of the PPTP or L2TP server.

DSR-150/150N/250/250N doesn't have a dual WAN support.

3.2.1 WAN Port IP address

Your ISP assigns you an IP address that is either dynamic (newly generated each time you log in) or static (permanent). The IP Address Source option allows you to define whether the address is statically provided by the ISP or should be received dynamically at each login. If static, enter your IP address, IPv4 subnet mask, and the ISP gateway's IP address. PPTP and L2TP ISPs also can provide a static IP address and subnet to configure, however the default is to receive that information dynamically from the ISP.

3.2.2 WAN DNS Servers

The IP Addresses of WAN Domain Name Servers (DNS) are typically provided dynamically from the ISP but in some cases you can define the static IP addresses of the DNS servers. DNS servers map Internet domain names (example: www.google.com) to IP addresses. Click to indicate whether to get DNS server addresses automatically from your ISP or to use ISP-specified addresses. If it's latter, enter addresses for the primary and secondary DNS servers. To avoid connectivity problems, ensure that you enter the addresses correctly.

3.2.3 **DHCP WAN**

For DHCP client connections, you can choose the MAC address of the router to register with the ISP. In some cases you may need to clone the LAN host's MAC address if the ISP is registered with that LAN host.

Figure 21: Manual WAN configuration

🖽 Status 🛜 Wireless	💻 Network	යි VPN	Security	🗘 Maintenance	
Network » Internet » WAN1 Settings					00
This page allows you to set up your Internet conr Account Information etc. This information is usua	ection. Ensure that you lly provided by your ISP o	have the Internet or network admini	t connection informat strator.	ion such as the IP Address	ses,
IPv4 WAN Settings					
WAN Setup					
Connection Type	Static IP	¥			
Enable VLAN Tag	OFF				
Static IP					
IP Address	0.0.0.0				
IP Subnet Mask	0.0.0.0				
Gateway IP Address	0.0.0.0				
Domain Name System (DNS) Servers					
Primary DNS Server	0.0.0.0				
Secondary DNS Server	0.0.0.0				
MAC Address					
MAC Address Source	Use Default MAC	Clone your PC	's MAC 🛛 🔍 Use this	MAC	
Port Setup					
MTU Size	🖲 Default 🛛 🔍 Custo	m			
Port Speed	Auto Sense	¥			
	Save	ancel			

3.2.4 **PPPoE**

Network > Internet > WAN1Settings

The PPPoE ISP settings are defined on the WAN Configuration page. There are two types of PPPoE ISP's supported by the DSR: the standard username/password PPPoE and Japan Multiple PPPoE.

Figu	re 22: PPPol	E configurat	ion for standa	rd ISPs			
	🝘 Status	🛜 Wireless	💻 Network	🞧 VPN	Security	🍄 Maintenance	
Network	» Internet » WAN1 9	Settings					00
This pag Account	e allows you to set up t Information etc. This	p your Internet conn s information is usuall	ection. Ensure that you y provided by your ISP	have the Interne or network admir	et connection informat histrator.	ion such as the IP Addres	ses,
IPv4 W	AN Settings						
WAN	Setup						
Cor	nnection Type		PPPoE (Username/Passw	or) 🔻			
Ena	ble VLAN Tag		OFF				
PPPo Ado	E Profile Configura Iress Mode	tion	Oynamic IP Since Sinc	atic IP			
Use	r Name		dlink				
Pas	sword		•••••				
Ser	vice			Optional			
Aut	hentication Type		Auto-negotiate	•			
Red	onnect Mode		Always On Or	Demand			
Domo DNS	ain Name System (D 5 Server Source	NS) Servers	Get Dynamically fro	m ISP 🔍 Use	These DNS Servers		
<i>МАС</i> МА	<i>Address</i> C Address Source		Use Default MAC	Clone your P	C's MAC 🔍 Use this	MAC	
Port MT	S <i>etup</i> U Size		● Default ○ Custo	m			
Por	t Speed		Auto Sense	•			
			Save	Cancel			

Most PPPoE ISP's use a single control and data connection, and require username / password credentials to login and authenticate the DSR with the ISP. The ISP connection type for this case is "PPPoE (Username/Password)". The GUI will prompt you for authentication, service, and connection settings in order to establish the PPPoE link.

For some ISP's, most popular in Japan, the use of "Japanese Multiple PPPoE" is required in order to establish concurrent primary and secondary PPPoE connections between the DSR and the ISP. The Primary connection is used for the bulk of data and internet traffic and the Secondary PPPoE connection carries ISP specific (i.e. control) traffic between the DSR and the ISP.

Figure 23: WAN configuration for Japanese Multiple PPPoE (part 1)

🖓 Status 🛜 Wireless	📃 Network	ഹ്ര vpn	🙍 Security	🏈 Maintenance
Network » Internet » WAN1 Settings				00
This page allows you to set up your Internet con Account Information etc. This information is usu	nection. Ensure that you ally provided by your ISP	have the Interne or network admini	t connection informati strator.	on such as the IP Addresses,
IPv4 WAN Settings				
WAN Setup				
Connection Type	Japanese multiple PPPoE	•		
Enable VLAN Tag	OFF			
Innanese PPPoF				
Address Mode	🖲 Dynamic IP 🔍 St	atic IP		
User Name	dlink			
Password				
Service		Optional		
Authentication Type	Auto-negotiate	T		
Reconnect Mode	🖲 Always On 🛛 Or	Demand		
Primary PPPoE Domain Name System (DNS DNS Server Source	5) Servers	m ISP 🔍 Use T	hese DNS Servers	
Secondary PPPoE Profile Configuration Address Mode	● Dynamic IP – St	atic IP		
User Name	dlink			
Password				
Service				
Authentication Type	Auto-negotiate	•		
Reconnect Mode	Always On Or	Demand		
Secondary PPPoE Domain Name System (D DNS Server Source	NS) Servers • Get Dynamically fro	m ISP 🔍 Use T	hese DNS Servers	
MAC Address				
MAC Address MAC Address Source	Use Default MAC	Clone your PC	's MAC 🔍 Use this	MAC
Port Setup MTU Size	Default Custo	m		
Port Speed	Auto Sense	T		
	Save	Cancel		

There are a few key elements of a multiple PPPoE connection:

- Primary and secondary connections are concurrent
- Each session has a DNS server source for domain name lookup, this can be assigned by the ISP or configured through the GUI

- The DSR acts as a DNS proxy for LAN users
- Only HTTP requests that specifically identify the secondary connection's domain name (for example *.flets) will use the secondary profile to access the content available through this secondary PPPoE terminal. All other HTTP / HTTPS requests go through the primary PPPoE connection.

When Japanese multiple PPPoE is configured and secondary connection is up, some predefined routes are added on that interface. These routes are needed to access the internal domain of the ISP where he hosts various services. These routes can even be configured through the static routing page as well.

Figure 24: WAN configuration for Japanese Multiple PPPoE (part 2)(its in figure 22 itself)

Secondary PPPoE Profile Configu	iration
Address Mode:	💿 Dynamic IP 🔘 Static IP
IP Address:	0.0.0.0
IP Subnet Mask:	0.0.0.0
User Name:	dlink
Password:	••••
Service:	(Optional)
Authentication Type:	Auto-negotiate
Reconnect Mode:	Always On On Demand
Maximum Idle Time:	5
Secondary PPPoE Domain Name	System (DNS) Servers
DNS Server Source:	Get Dynamically from ISP
Primary DNS Server:	0.0.0.0
Secondary DNS Server:	0.0.0
Mac Address	
MAC Address Source:	Use Default Address
MAC Address:	00:00:00:00:00

3.2.5 Russia L2TP and PPTP WAN

For Russia L2TP WAN connections, you can choose the address mode of the connection to get an IP address from the ISP or configure a static IP address provided by the ISP. For DHCP client connections, you can choose the MAC address of the router to register with the ISP. In some cases you may need to clone the LAN host's MAC address if the ISP is registered with that LAN host.

Figure 25: Russia L2TP ISP configuration

🙆 Status 🛜 Wireless	🖳 Network	යි VPN	Security	🗘 Maintenance	
Network » Internet » WAN1 Settings					00
This page allows you to set up your Internet con Account Information etc. This information is usua IPv4 WAN Settings	nection. Ensure that you ha Illy provided by your ISP or	ave the Internet network adminis	connection informati trator.	on such as the IP Addres	sses,
WAN Setup					
Connection Type	Puesian dual second LOTO	-			
Connection Type	Russian dual access L21P	·			
Enable VLAN Tag	OFF				
Pussion 12TP					
Address Mode	🖲 Dynamic IP 🔍 Stat	ic IP			
Server Address	0.0.0				
Selver Address	0.0.0				
User Name	dlink				
Password					
Secret		Optional			
Split Tunnel	OFF				
Reconnect Mode	🖲 Always On 🔍 On D	emand			
Domain Name System (DNS) Servers DNS Server Source	Get Dynamically from	ISP 🔍 Use Th	ese DNS Servers		
MAC Address					
MAC Address Source	🖲 Use Default MAC 🛛 🤇	Clone your PC's	MAC 🔍 Use this	MAC	
Port Setup					
MTU Size	🖲 Default 🛛 🔍 Custom				
Port Speed	Auto Sense	▼.			

3.2.6 Russia Dual Access PPPoE

For Russia dual access PPPoE connections, you can choose the address mode of the connection to get an IP address from the ISP or configure a static IP address provided by the ISP.

Figure 26: Russia Dual access PPPoE configuration

2 Status	🛜 Wireless	💻 Network	🚯 VPN	Security	ᅌ Maintenance	
Network » Internet » WAN1 Sett	ings					00
This page allows you to set up y Account Information etc. This in IPv4 WAN Settings	our Internet connectic formation is usually pr	n. Ensure that you I ovided by your ISP o	have the Internet r network adminis	connection informati trator.	ion such as the IP Addres	ses,
WAN Setup						
Connection Type	1.27	D (lleername/Dasewor/	4 v			
Enable VLAN Tag		OFF				
1270						
Address Mode	۲	Dynamic IP 🔍 Sta	itic IP			
Server Address	0.0.	0.0				
User Name	dlinl	c				
Password	••••					
Secret			Optional			
Split Tunnel		OFF				
Reconnect Mode		Always On 🔍 On	Demand			
Domain Name System (DNS) Servers					
DNS Server Source	۲	Get Dynamically from	n ISP 🔍 Use Th	ese DNS Servers		
MAC Address						
MAC Address Source	۲	Use Default MAC	Clone your PC's	s MAC 🔍 Use this	MAC	
Port Setup		-				
MTU Size	۲	Default 🔍 Custon	n			
Port Speed	Aut	o Sense	¥			
		Save C	ancel			

Unified Services Router

	🗥 Status	🛜 Wireless	💻 Network	යි vpn	Security	🍄 Maintenance		
Network » Internet » WAN1 Settings							0	
This page Account	e allows you to set u Information etc. Thi	p your Internet conne s information is usually	ction. Ensure that you y provided by your ISP	have the Interne or network admin	t connection informati istrator.	ion such as the IP Address	ies,	

IPv4 WAN Settings	
WAN Setup	
Connection Type	Russian dual access PPTP 🔻
Enable VLAN Tag	UI OFF
Russian PPTP	
Address Mode	🖲 Dynamic IP 🛛 🔍 Static IP
Server Address	0.0.0.0
User Name	dlink
Password	
MPPE Encryption	OFF
Split Tunnel	OFF
Reconnect Mode	Always On On Demand
Domain Name System (DNS) Servers DNS Server Source	Get Dynamically from ISP O Use These DNS Servers
MAC Address	
MAC Address Source	● Use Default MAC 🛛 Clone your PC's MAC 🔍 Use this MAC
Port Setup	
MTU Size	Default Custom
Port Speed	Auto Sense 🔻
	Save Cancel

Unified Services Router

	🝘 Status	🛜 Wireless	📮 Network	යි VPN	Security	鏱 Maintenance		
Network	» Internet » WAN1	Settings					?	0
This page Account	allows you to set u Information etc. Thi	p your Internet conne s information is usually	ction. Ensure that you provided by your ISP	have the Interne or network admini	t connection informati istrator.	on such as the IP Address	es,	
IPv4 WA	AN Settings							

WAN Setup	
Connection Type	Russian dual access I 2TP
Enable VLAN Tag	OFF
Russian L2TP	
Address Mode	🖲 Dynamic IP 🛛 🔍 Static IP
Server Address	0.0.0.0
User Name	dlink
Password	
Secret	
Secret	Optional
Split Tunnel	OFF
Reconnect Mode	Always On On Demand
Domain Name System (DNS) Servers	
DNS Server Source	Get Dynamically from ISP Use These DNS Servers
MAC Address	
MAC Address Source	◉ Use Default MAC ○ Clone your PC's MAC ○ Use this MAC
Post Satur	
MTU Size	Default Ocustom Custom Custo
Port Speed	Auto Sense 🔻
	Save Cancel

Unified Services Router

🕜 Status	🛜 Wireless	💻 Network	பல VPN	🚊 Security	ô Maintenance	
Network » Internet » WAN1 Settings						00

This page allows you to set up your Internet connection. Ensure that you have the Internet connection information such as the IP Addresses, Account Information etc. This information is usually provided by your ISP or network administrator.

Pv4 WAN Settings	
WAN Setup	
Connection Type	Russian dual access PPPoE 🔻
Enable VLAN Tag	OFF
Russian PPPoE	
Address Mode	● Dynamic IP ○ Static IP
User Name	dlink
Password	
Service	Optional
Authentication Type	Auto-negotiate 🔻
Reconnect Mode	Always On On Demand On On Demand On
Domain Name System (DNS) Servers DNS Server Source	● Get Dynamically from ISP ○ Use These DNS Servers
MAC Address MAC Address Source	● Use Default MAC
WAN Physical Setting Address Mode	Oynamic IP O Static IP
WAN Physical Setting Domain Name System DNS Server Source	Get Dynamically from ISP Use These DNS Servers
Port Setup MTU Size	Default Custom C
Port Speed	Auto Sense 🔻
	Save Cancel

3.2.7 WAN Configuration in an IPv6 Network

Network > *IPv6* > *WAN1Settings*

For IPv6 WAN connections, this router can have a static IPv6 address or receive connection information when configured as a DHCPv6 client. In the case where the ISP assigns you a fixed address to access the internet, the static configuration settings must be completed. In addition to the IPv6 address assigned to your router, the IPv6 prefix length defined by the ISP is needed. The default IPv6 Gateway address is the server at the ISP that this router will connect to for accessing the internet. The primary and secondary DNS servers on the ISP's IPv6 network are used for resolving internet addresses, and these are provided along with the static IP address and prefix length from the ISP.

When the ISP allows you to obtain the WAN IP settings via DHCP, you need to provide details for the DHCPv6 client configuration. The DHCPv6 client on the gateway can be either stateless or stateful. If a stateful client is selected the gateway will connect to the ISP's DHCPv6 server for a leased address. For stateless DHCP there need not be a DHCPv6 server available at the ISP, rather ICMPv6 discover messages will originate from this gateway and will be used for auto configuration. A third option to specify the IP address and prefix length of a preferred DHCPv6 server is available as well.

Figure 27: IPv6 WAN Setup page

	🝘 Status	🛜 Wireless	💻 Network	r vpn	<u> </u> Security	🍄 Maintenance	
Network	» IPv6 » WAN1 Sett			00			
		69	IPv6 Mode				

This page allows user to IPv6 related Option1 configurations. This router can have a static IPv6 address or receive connection information when configured as a DHCPv6 client or connect to ISP using username and password (PPPoE). The DHCPv6 client on the gateway can be either stateless or stateful. If a stateful client is selected the gateway will connect to the ISP's DHCPv6 server for a leased address. For stateless DHCP there need not be a DHCPv6 server available at the ISP, rather ICMPv6 discover messages will originate from this gateway and will be used for auto configuration.

IPv6 Wan Settings		
IPv6 WAN Setup		
Connection Type	DHCPv6	
DHCPv6		
DHCPv6 Auto Configuration	💿 Stateless Address 🛛 🔍 Stateful Address	
Prefix Delegation	OFF	
	Save Cancel	

Prefix Delegation: Select this option to request router advertisement prefix from any available DHCPv6 servers available on the ISP, the obtained prefix is updated to the advertised prefixes on the LAN side. This option can be selected only in Stateless Address Auto Configuration mode of DHCPv6 Client.

When IPv6 is PPPoE type, the following PPPoE fields are enabled.

- Username: Enter the username required to log in to the ISP.
- Password: Enter the password required to login to the ISP.
- Authentication Type: The type of Authentication in use by the profile: Auto-Negotiate/PAP/CHAP/MS-CHAP/MS-CHAPv2.
- Dhcpv6 Options: The mode of Dhcpv6 client that will start in this mode: disable dhcpv6/stateless dhcpv6/stateful dhcpv6/stateless dhcpv6 with prefix delegation.
- Primary DNS Server: Enter a valid primary DNS Server IP Address.

• Secondary DNS Server: Enter a valid secondary DNS Server IP Address.

Click Save Settings to save your changes.

3.2.8 Checking WAN Status

Status > System Information > Device > WANx

The connection status and a summary of configured settings for all WAN interfaces are available on the WAN Status page. You can view the following key connection status information for each WAN port:

- Connection time: The connection uptime
- Connection type: Dynamic or Static IP address
- Connection state: This is whether the WAN is connected or disconnected to an ISP. The Link State is whether the physical WAN connection in place; the Link State can be up (i.e. cable inserted) while the WAN connection state is down.
- IP address / subnet mask: IP Address assigned
- Gateway IP address: WAN Gateway Address

Figure 28: Connection Status information for both WAN ports

	🕜 Status	🛜 Wireless	💻 Network	🚯 VPN	💂 Security	ᅌ Maintenance	
Status » System Information » Device » WAN2						00	
Syst	em LAN Dedica	ated WAN Rollover W	AN Wireless				

All of your Rollover WAN network connection details are displayed on the Device Status page.

Rollover WAN Information

Description	Rollover WAN Info
MAC Address	00:11:BB:CC:DD:70
IPv4 Address	0.0.0.0 / 255.255.255.0
IPv6 Address	1
Status	DOWN
IPv6 Connection Type	threeg
IPv6 Connection State	Not Yet Connected
Prefix Obtained	
NAT (IPv4 Only)	Enabled
IPv4 Connection Type	3G Internet
IPv4 Connection State	Not Yet Connected
Link State	LINK DOWN
WAN Mode	Use only single port: WAN1
Gateway	0.0.0
Primary DNS	0.0.0
Secondary DNS	0.0.0.0

The WAN status page allows you to Enable or Disable static WAN links. For WAN settings that are dynamically received from the ISP, you can Renew or Release the link parameters if required.

3.2.9 VLAN ON WAN

This page allows you to set up your internet connection if it uses tagged VLAN headers for interacting with the ISP. Ensure that you have the Internet connection information such as the IP Addresses, Account Information etc. This information is usually provided by your ISP or network administrator. With VLAN on WAN support the router is able to get addresses to access the tagged interface.

Network>Internet>WAN1 Settings

Figure 29: Enabling VLAN on WAN

🖓 Status	Network	යි VPN	🚊 Security	🔅 Maintenance	
Network » Internet » WAN1 Settings					00
This page allows you to set up your Internet c Account Information etc. This information is u	onnection. Ensur sually provided b	e that you have t y your ISP or netv	he Internet connectic vork administrator.	on information such as the	IP Addresses,
IPv4 WAN Settings					
WAN Setup					
Connection Type	Dynamic IP (DHCP) 🔻			
Enable VLAN Tag	ON				
VLAN ID	0				
<i>Dynamic IP (DHCP)</i> Host Name					
DNS Servers (Domain Name System) DNS Server Source	◉ Get Dyna	amically from ISP	O Use These DNS S	ervers	
MAC Address MAC Address Source	Use Defa	ult MAC 🔍 Clo	ne your PC's MAC	Use this MAC	
Port Setup MTU Size	Default	Custom			
Port Speed	Auto Sense	•			
	Save	Cancel			

3.3 Bandwidth Controls

Network > Internet > Traffic Management > Bandwidth Profilers

Bandwidth profiles allow you to regulate the traffic flow from the LAN to WAN 1 or WAN 2. This is useful to ensure that low priority LAN users (like guests or HTTP service) do not monopolize the available WAN's bandwidth for cost-savings or bandwidth-priority-allocation purposes.

Bandwidth profiles configuration consists of enabling the bandwidth control feature from the GUI and adding a profile which defines the control parameters. The profile can then be associated with a traffic selector, so that bandwidth profile can be applied to the traffic matching the selectors. Selectors are elements like IP addresses or services that would trigger the configured bandwidth regulation.

Figure 30: List of Configured Bandwidth Profiles

🕢 Status	🛜 Wireless	💻 Network	🚯 VPN	🔒 Security	ᅌ Maintenance			
letwork » Internet » Traffic Management » Bandwidth Profiles								
Bandwidth Profiles Traffic Shaping								
This page shows the list of co	nfigured bandwidth p	rofiles. These profiles	then can be used	with the traffic selec	tors.			
Bandwidth Profiles								
Enable Bandwidth Profile	\$5	ON						
	l	Save	Cancel					
Bandwidth Profiles List								
Show 10 ▼ entries	[Right click on record	to get more options]				٩		
Name	🔂 🛛 Bandwidth Ra	ate / Priority				⇔		
No data available in table								
Showing 0 to 0 of 0 entries				Fi	rst 🔄 Previous 🛛 Next 🍹	Last 刘		
Add New Bandwidth Pr	ofile							

To create a new bandwidth profile, click Add in the List of Bandwidth Profiles. The following configuration parameters are used to define a bandwidth profile:

- Profile Name: This identifier is used to associate the configured profile to the traffic selector
- You can choose to limit the bandwidth either using priority or rate.
 - If using priority "Low", "High", and "Medium" can be selected. If there is a low priority profile associated with traffic selector A and a high priority profile associated with traffic selector B, then the WAN bandwidth allocation preference will be to traffic selector B packets.
 - For finer control, the Rate profile type can be used. With this option the minimum and maximum bandwidth allowed by this profile can be limited.
- Choose the WAN interface that the profile should be associated with.

Figure 31: Bandwidth Profile Configuration

Bandwidth Profile Configuration			X
Name			
Policy Type	Outbound v		
WAN Interface	Dedicated WAN 🔻		
Profile Type	Priority •		
Priority	Low		
		Sa	ve

Network > Internet > Traffic Management > Bridge Traffic Selectors

Once a profile has been created it can then be associated with a traffic flow from the LAN to WAN. To create a traffic selector, click Add on the Traffic Selectors page. Traffic selector configuration binds a bandwidth profile to a type or source of LAN traffic with the following settings:

- Available profiles: Assign one of the defined bandwidth profiles
- Service: You can have the selected bandwidth regulation apply to a specific service (i.e. FTP) from the LAN. If you do not see a service that you want, you can configure a custom service through the *Advanced* > *Firewall Settings* > *Custom Services* page. To have the profile apply to all services, select ANY.
- Traffic Selector Match Type: this defines the parameter to filter against when applying the bandwidth profile. A specific machine on the LAN can be identified via IP address or MAC address, or the profile can apply to a LAN port or VLAN group. As well a wireless network can be selected by its BSSID for bandwidth shaping. In order to restrict services from all IP addresses or specific subnets, the subnet mask field can be configured in conjunction with the IP address to regulate inbound traffic.

Figure 32: Traffic Selector Configuration

	🕜 Status	🛜 Wireles	is 📃 Network	🖒 VPN	🚊 Security	Maintenance	
Network	Network » Internet » Traffic Management » Bridge Traffic Selectors						
Ban	dwidth Profiles	Traffic Shaping B	ridge Bandwidth Profiles	Bridge Traffic Se	electors		

This page shows the list of static routes configured on the router. User can also add, delete and edit the configured routes.Use this page to define static routes. Be sure to enter a destination address, subnet mask, gateway and metric foreach configured static route. The Interface dropdown menu will show all available configured wired interfaces on the router as options. Once a bridge bandwidth profile has been created it can then be associated with a traffic flow from the LANPort-1 toDMZ. Bridge traffic selectors are elements like IP addresses or services that require their outbound traffic to be regulated.

Bridge Traffic Selectors List

Show 10 • entries [Right click on record to	get more options]		٩
Service 🗘 Traffic Selector Match T	ype ⊖	Bridge Bandwidth Profile	⇔
	No data available in table		
Showing 0 to 0 of 0 entries		H First	Previous Next > Last >
Add New Bridge Traffic Selector			
Bridge Traffic Selector Configuratio	n		X
Available Profiles	hh 🔻		
Service	AIM		
Traffic Selector Match Type	MAC Address 🔻		
MAC Address			
			Save

3.3.1 Bandwidth Controls in Bridge Mode

Network > Internet > Traffic Management > Bridge Bandwidth Profile Configuration

Network > Internet > Traffic Management > Bridge Traffic Selectors

The above traffic management applies to classical or NAT routing modes. When the system is in bridge mode (where the LAN1 and WAN2/DMZ ports are in the same network), traffic management factors in traffic type and bandwidth available on the ports part of the bridge.

For Bandwidth Profiles, the major difference between the options available in bridge mode compared to standard classical / NAT routing mode is the interface options are not applicable. There is no association of the bandwidth profile with a particular outbound or inbound interface as this profile can only apply to the bridge network. Similarly, Traffic Selectors for bridge mode do not factor in port / SSID / VLAN as these concepts to not apply to the bridge network.

Figure	33:	Bridge	Bandwidth	Profile	Configuration
I ISUI V		DIIUSU	Dunawiuch		Configuration

Bridge Bandwidth Profile Configura	tion		×
Name			
Policy Type	Outbound 🔻	•	
Profile Type	Priority •		
Priority	Low		
e			
			Save

Figure 34: Bridge Traffic Selector Configuration

	🝘 Status	🛜 Wire	eless	Network	ഹ് VPN	Security	🍄 Maintenance	
Network » Internet » Traffic Management » Bridge Traffic Selectors								
Band	Bandwidth Profiles Traffic Shaping Bridge Bandwidth Profiles Bridge Traffic Selectors							
This page shows the list of static routes configured on the router. User can also add, delete and edit the configured routes.Use this page to define								

This page shows the list of static routes configured on the router. User can also add, delete and edit the configured routes.Use this page to define static routes. Be sure to enter a destination address, subnet mask, gateway and metric foreach configured static route. The Interface dropdown menu will show all available configured wired interfaces on the router as options. Once a bridge bandwidth profile has been created it can then be associated with a traffic flow from the LANPort-1 toDMZ. Bridge traffic selectors are elements like IP addresses or services that require their outbound traffic to be regulated.

Bridge Traffic Selectors List

Show 10	▼ entries	[Right click on record to get more options]				٩
Service	Û	Traffic Selector Match Type	⇔	Bridge Bandwidth	Profile	÷
		No data	available in table			
Showing 0 to	0 of 0 entr	es			First Previous	Next 🔪 Last 刘
Add New Bridge Traffic Selector						

Bridge Traffic Selector Configuratio	n	×
Available Profiles	hh 🔻	
Service	AIM]
Traffic Selector Match Type	MAC Address 🔻]
MAC Address]
		Save

3.4 Features with Multiple WAN Links

This router supports multiple WAN links. This allows you to take advantage of failover and load balancing features to ensure certain internet dependent services are prioritized in the event of unstable WAN connectivity on one of the ports.

Network > Internet > WAN Mode

To use Auto Failover or Load Balancing, WAN link failure detection must be configured. This involves accessing DNS servers on the internet or ping to an internet address (user defined). If required, you can configure the number of retry attempts when the link seems to be disconnected or the threshold of failures that determines if a WAN port is down.

3.4.1 Auto Failover

In this case one of your WAN ports is assigned as the primary internet link for all internet traffic. The secondary WAN port is used for redundancy in case the primary link goes down for any reason. Both WAN ports (primary and secondary) must be configured to connect to the respective ISP's before enabling this feature. The secondary WAN port will remain unconnected until a failure is detected on the primary link (either port can be assigned as the primary). In the event of a failure on the primary port, all internet traffic will be rolled over to the backup port. When configured in Auto Failover mode, the link status of the primary WAN port is checked at regular intervals as defined by the failure detection settings.

Note that bothWAN1, WAN2 and WAN3 can be configured as the primary internet link.

- Auto-Rollover using WAN port
- Primary WAN: Selected WAN is the primary link (WAN1/WAN2/WAN3)
- Secondary WAN: Selected WAN is the secondary link.

Failover Detection Settings: To check connectivity of the primary internet link, one of the following failure detection methods can be selected:

- DNS lookup using WAN DNS Servers: DNS Lookup of the DNS Servers of the primary link is used to detect primary WAN connectivity.
- DNS lookup using DNS Servers: DNS Lookup of the custom DNS Servers can be specified to check the connectivity of the primary link.
- Ping these IP addresses: These IP's will be pinged at regular intervals to check the connectivity of the primary link.
- Retry Interval is: The number tells the router how often it should run the above configured failure detection method.
- Failover after: This sets the number of retries after which failover is initiated.
- DSR-1000, DSR-1000N, DSR-500, DSR-500N, DSR-250, DSR-250N, DSR-150N, and DSR-150N support 3G USB Modem as a failover link when the internet access is lost.

3.4.2 Load Balancing

This feature allows you to use multiple WAN links (and presumably multiple ISP's) simultaneously. After configuring more than one WAN port, the load balancing option is available to carry traffic over more than one link. Protocol bindings are used to segregate and assign services over one WAN port in order to manage internet flow. The configured failure detection method is used at regular intervals on all configured WAN ports when in Load Balancing mode.

DSR currently support three algorithms for Load Balancing:

Round Robin: This algorithm is particularly useful when the connection speed of one WAN port greatly differs from another. In this case you can define protocol bindings to route low-latency services (such as VOIP) over the higher-speed link and let low-volume background traffic (such as SMTP) go over the lower speed link. Protocol binding is explained in next section.

Spillover: If Spillover method is selected, the primary WAN acts as a dedicated link until a defined bandwidth threshold are reached. After this, the secondary WAN will be used for new connections. Inbound connections on the secondary WAN are permitted with this mode, as the spillover logic governs outbound connections moving from the primary to secondary WAN. You can configure spillover mode by using following options:

- Load Tolerance: It is the percentage of bandwidth after which the router switches to secondary WAN.
- Max Bandwidth: This sets the maximum bandwidth tolerable by the primary WAN for outbound traffic.

If the link bandwidth of outbound traffic goes above the load tolerance value of max bandwidth, the router will spillover the next connections to secondary WAN.

For example, if the maximum bandwidth of primary WAN is 1 Kbps and the load tolerance is set to 70. Now every time a new connection is established the bandwidth increases. After a certain number of connections say bandwidth reached 70% of 1Kbps, the new outbound connections will be spilled-over to secondary WAN. The maximum value of load tolerance is 80% and the minimum is 20%.

DSR-1000, DSR-1000N, DSR-500 and DSR-500N support the traffic load balancing between physical WAN port and the 3G USB Modem.

Load balancing is particularly useful when the connection speed of one WAN port greatly differs from another. In this case you can define protocol bindings to route low-latency services (such as VOIP) over the higher-speed link and let low-volume background traffic (such as SMTP) go over the lower speed link.

Figure 35: Load Balancing is available when multiple WAN ports are configured and Protocol Bindings have been defined

🗥 Status 🛜 Wireless	💂 Network	3 VPN	盈 Security	🌻 Maintenance	
Network » Internet » WAN Mode					00
This page allows user to configure the policies on router to access the internet. Load balancing allo not excessively overloaded. Auto-Rollover uses a l Option fails for any reason.	the two WAN ports for Intern- ws traffic to and from the inte packup link to preserve interne	et connection.B ernet to be shar t connectivity f	y configuring bot red across both co for the LAN if the	h WANs, there are two wa onfigured links to ensure main ISP configured on th	iys for the one ISP is he primary
WAN Mode					
WAN Mode Setup WAN Mode	Load Balancing 🔻				
Load Balancing Setup Load Balancing	Round Robin Spillov	er Mode			
WAN health check	WAN DNS Servers 🔻				
Retry Interval is	30 [Default: 30, Rang	e: 5 - 999] Seconds	5		
Failover After	4 [Default: 4, Range	: 2 - 999] Failures			
Spillover Configuration Setup					
Load Tolerance	80 [Default: 80, Rang	e: 20 - 80]			
Max Bandwidth	8192 bps	•	(Max. 100 Mbps)		
	Save Cance				

3.4.3 Protocol Bindings

Network > Routing > Protocol Binding

Protocol bindings are useful when the Load Balancing feature is in use. Choosing from a list of configured services or any of the user-defined services, the type of traffic can be assigned to go over only one of the available WAN ports. For increased flexibility the source network or machines can be specified as well as the destination network or machines. For example the VOIP traffic for a set of LAN IP addresses can be assigned to one WAN and any VOIP traffic from the remaining IP addresses

can be assigned to the other WAN link. Protocol bindings are only applicable when load balancing mode is enabled and more than one WAN is configured.

Figure 36: Protocol binding setup to associate a service and/or LAN source to a WAN and/or destination network

	🝘 Status	((î•	Wireless	📃 Network	k ርጔ VPN	🔒 Sec	curity 🔅 🏠 Mainte	enance	
Network » Routing » Protocol Binding									
This page shows the configured protocol bindings. A user can also add, delete, edit, enable or disable the protocol bindings.Protocol bindings are required when the Load Balancing feature is in use, and are only applicable when two Option links are configured. This feature lets you assign a service to a particular Option link to ensure the high priority services are sent to the more reliable or less expensive ISP. Protocol Bindings List									
Show 10 • entries [Right click on record to get more options]							٩		
Status	🗘 Service	⇔	Local Gatew	ay ⊖	Source Network	⇔	Destination Network		⇔
No data available in table									
Showing 0 to 0 of 0 entries Next >						Next 🔪 L	.ast 刘		
Add New Protocol Binding									

3.4.4 IP Aliasing

Network > Internet > IP Aliasing

A single WAN ethernet port can be accessed via multiple IP addresses by adding an alias to the port. This is done by configuring an IP Alias address.

Figure 37: Configuring the IP Alias

	🕋 Status	🛜 Wireless	📃 Network	🎧 VPN	🔒 Security	🍄 Maintenance	
Network » Internet » IP Aliasing							
This page displays the configured IP Aliases on Option interfaces . User can also add, delete and edit the IP Alias also.A single Option Ethernet port can be accessed via multiple IP addresses by adding a alias to the port. This is done by configuring IP Alias. IP Aliasing List							
Show 10 • entries [Right click on record to get more options]							٩
Port	Û	IP Address		⊖ Sub	net Mask		÷
No data available in table							
Showing	0 to 0 of 0 entries				H	First d Previous Next >	Last 刘
Add N	lew IP Aliasing						

Interface: Sets the interface on which IP Alias is being configured.

IP Address: Sets the IP address of the IP Alias.

Subnet Mask: Sets the Subnet Mask of the IP Alias.

Click Save Settings to save your changes.

Click Don't Save Settings to revert to the previous settings.

Figure 38: IP Alias Configuration

IP Aliasing Configuration		x
Interface IP Address Subnet Mask	• WAN	
	Save	

List of IP Aliases

The List of IP Aliases displays the configured IP Aliases on the router.

Interface Name: The interface on which the Alias was configured.

IP Address: The IP Address of the configured IP Alias.

Subnet Mask: The Subnet Mask of the configured IP Alias.

Edit: Opens the IP Alias configuration page to edit the selected IP Alias.

Add: Opens the IP Alias configuration page to add a new IP Alias.

Delete: Deletes the selected IP Aliases.

3.5 Routing Configuration

Routing between the LAN and WAN will impact the way this router handles traffic that is received on any of its physical interfaces. The routing mode of the gateway is core to the behavior of the traffic flow between the secure LAN and the internet.

3.5.1 Routing Mode

Network > Internet > Routing

This device supports classical routing, network address translation (NAT), and transport mode routing.

- With classical routing, devices on the LAN can be directly accessed from the internet by their public IP addresses (assuming appropriate firewall settings). If your ISP has assigned an IP address for each of the computers that you use, select Classic Routing.
- NAT is a technique which allows several computers on a LAN to share an Internet connection. The computers on the LAN use a "private" IP address range while the WAN port on the router is configured with a single "public" IP address. Along with connection sharing, NAT also hides internal IP addresses from the computers on the Internet. NAT is required if your ISP has assigned only one IP address to you. The computers that connect through the router will need to be assigned IP addresses from a private subnet.
- When Transparent Routing Mode is enabled, NAT is not performed on traffic between LAN and WAN. Broadcast and multicast packets that arrive on the LAN interface are switched to the WAN and vice versa, if they do not get filtered by firewall or VPN policies. To maintain the LAN and WAN in the same broadcast domain select Transparent mode, which allows bridging of traffic from LAN to WAN and vice versa, except for router-terminated traffic and other management traffic. All DSR features (such as 3G modem support) are supported in transparent mode assuming the LAN and WAN are configured to be in the same broadcast domain.
- NAT routing has a feature called "NAT Hair-pinning" that allows internal network users on the LAN and DMZ to access internal servers (e.g. an internal FTP server) using their externally-known domain name. This is also referred to as "NAT loopback" since LAN generated traffic is redirected through the firewall to reach LAN servers by their external name.
- When Bridge Mode routing is enabled, the first physical LAN port and secondary WAN/DMZ (port 2) interfaces are bridged together at Layer 2, creating an aggregate network. The other LAN ports and the primary WAN (WAN1) are not part of this bridge, and the router asks as a NAT device for these other ports. With Bridge mode for the LAN port 1 and WAN2/DMZ interfaces, L2 and L3 broadcast traffic as well as ARP / RARP packets are passed through. When WAN2
receives tagged traffic the tag information will be removed before the packet is forwarded to the LAN port 1 interface.

Figure 39: Routing Mode to determine traffic routing between WAN and LAN

	🝘 Status	🛜 Wireless	📃 Network	ഹ്പം vpn	盈 Security	🔅 Maintenance	
Network »	Internet » Routin	g					00
This page a handled wi addresses Routing a	allows user to conf hen received on or from internet devi Mode	figure different routing ne physical interface. 1 ces. Transparent mode	; modes like NAT, Class NAT is the most commo does not perform NAT	ical Routing and T n application for `and lets you brid	ransparent.The Routin most routers, and allov ge traffic between the	ng mode determines how f ws you to hide internal L/ e LAN and Option.	traffic is AN IP
<i>Routing</i> Routin	g Settings ng Settings		NAT Classical Save ()	Routing O Tra	ansparent		

3.5.2 Dynamic Routing (RIP)

DSR- 150/150N/250/250N does not support RIP.

Setup > Internet Settings > Routing Mode

Dynamic routing using the Routing Information Protocol (RIP) is an Interior Gateway Protocol (IGP) that is common in LANs. With RIP this router can exchange routing information with other supported routers in the LAN and allow for dynamic adjustment of routing tables in order to adapt to modifications in the LAN without interrupting traffic flow.

The RIP direction will define how this router sends and receives RIP packets. Choose between:

- Both: The router both broadcasts its routing table and also processes RIP information received from other routers. This is the recommended setting in order to fully utilize RIP capabilities.
- Out Only: The router broadcasts its routing table periodically but does not accept RIP information from other routers.
- In Only: The router accepts RIP information from other routers, but does not broadcast its routing table.
- None: The router neither broadcasts its route table nor does it accept any RIP packets from other routers. This effectively disables RIP.
 - The RIP version is dependent on the RIP support of other routing devices in the LAN.
- Disabled: This is the setting when RIP is disabled.
- RIP-1 is a class-based routing version that does not include subnet information. This is the most commonly supported version.
- RIP-2 includes all the functionality of RIPv1 plus it supports subnet information. Though the data is sent in RIP-2 format for both RIP-2B and RIP-2M, the mode in which packets are sent is different. RIP-2B broadcasts data in the entire subnet while RIP-2M sends data to multicast addresses.

If RIP-2B or RIP-2M is the selected version, authentication between this router and other routers (configured with the same RIP version) is required. MD5 authentication is used in a first/second key exchange process. The authentication key validity lifetimes are configurable to ensure that the routing information exchange is with current and supported routers detected on the LAN.

3.5.3 Static Routing

Network > Routing >Static Routes

Advanced > IPv6 > IPv6 Static Routing

Manually adding static routes to this device allows you to define the path selection of traffic from one interface to another. There is no communication between this router and other devices to account for

changes in the path; once configured the static route will be active and effective until the network changes.

The List of Static Routes displays all routes that have been added manually by an administrator and allows several operations on the static routes. The List of IPv4 Static Routes and List of IPv6 Static Routes share the same fields (with one exception):

- Name: Name of the route, for identification and management.
- Active: Determines whether the route is active or inactive. A route can be added to the table and made inactive, if not needed. This allows routes to be used as needed without deleting and re-adding the entry. An inactive route is not broadcast if RIP is enabled.
- Private: Determines whether the route can be shared with other routers when RIP is enabled. If the route is made private, then the route will not be shared in a RIP broadcast or multicast. This is only applicable for IPv4 static routes.
- Destination: the route will lead to this destination host or IP address.
- IP Subnet Mask: This is valid for IPv4 networks only, and identifies the subnet that is affected by this static route
- Interface: The physical network interface (WAN1, WAN2, WAN3, DMZ or LAN), through which this route is accessible.
- Gateway: IP address of the gateway through which the destination host or network can be reached.
- Metric: Determines the priority of the route. If multiple routes to the same destination exist, the route with the lowest metric is chosen.

Figure 40: Static route configuration fields

2 Status	(î:•	Wireless	<u></u> N	etwork	A VPI	1	Security	🌣 Maintenanc	e
Network » Routing » Static	Routes								00
Static Routes List									
Show 10 <pre> entries</pre>	[Right cl	ick on record to	get more op	tions]					٩
Name 🔂 Destination	• ⊖	Subnet Mas	sk ⊖	Gatewa	y ⊖ In t	erface	⊖ Metric		rivate ⊖
				No data a	ailable in table				
Showing 0 to 0 of 0 entries								First Previous Nex	t 🔪 Last 刘
Add New Static Route									
Static Route Config	guration								×
Route Name									
Active			OFF						
Private			OFF						
Destination IP Addre	ess								
IP Subnet Mask									
Interface			WAN		•				
Gateway IP Address									
Metric				[Rang	e: 2 -15]				
									Save

3.5.4 OSPFv2

Network > *Routing* > *OSPF*

OSPF is an interior gateway protocol that routes Internet Protocol (IP) packets solely within a single routing domain. It gathers link state information from available routers and constructs a topology map of the network.

OSPF version 2 is a routing protocol which described in RFC2328 - OSPF Version 2. OSPF is IGP (Interior Gateway Protocols).OSPF is widely used in large networks such as ISP backbone and enterprise networks.

DSR-150, DSR-150N, DSR-250 and DSR-250 don't support OSPFv2.

Figure 41: OSPFv2 configured parameters

	🝘 Status	(î;	Wireless	📃 Network	යි VPN	e 2	Security	©° Maintenance	
Network » Routing » OSPF									
This page s	This page shows the OSPFv2 parameters configured on the router.User can also edit the OSPFv2 configured parameters.								
OSPFv2 L	.ist								
Show 10	▼ entries	[Right o	click on record to	get more options]					٩
Status		Area ⊖	Priority 😌	Hello Interval	Dead Interv	ral ⇔	Cost ⊖	Authentication Type	⇔
DISABLED	LAN		1	10	40		10	None	
DISABLED	WAN1		1	10	40		10	None	
DISABLED	WAN2		1	10	40		10	None	
Showing 1 to 3 of 3 entries 1 Next > Last >									

Interface: The physical network interface on which OSPFv2 is Enabled/Disabled.

Status: This column displays the Enable/Disable state of OSPFv2 for a particular interface.

Area: The area to which the interface belongs. Two routers having a common segment; their interfaces have to belong to the same area on that segment. The interfaces should belong to the same subnet and have similar mask.

Priority: Helps to determine the OSPFv2 designated router for a network. The router with the highest priority will be more eligible to become Designated Router. Setting the value to 0, makes the router ineligible to become Designated Router. The default value is 1.Lower value means higher priority.

HelloInterval: The number of seconds for HelloInterval timer value. Setting this value, Hello packet will be sent every timer value seconds on the specified interface. This value must be the same for all routers attached to a common network. The default value is 10 seconds.

DeadInterval: The number of seconds that a device's hello packets must not have been seen before its neighbors declare the OSPF router down. This value must be the same for all routers attached to a common network. The default value is 40 seconds.

OSPF requires these intervals to be exactly the same between two neighbors. If any of these intervals are different, these routers will not become neighbors on a particular segment

Cost: The cost of sending a packet on an OSPFv2 interface.

Authentication Type:. This column displays the type of authentication to be used for OSPFv2.If Authentication type is none the interface does not authenticate OSPF packets. If Authentication Type is Simple then OSPF packets are authenticated using simple text key. If Authentication Type is MD5 then the interface authenticates OSPF packets with MD5 authentication.

Figure 42: OSPFv2 configuration

OSPFv2 Configuration		×
OSPFv2 Enable	ON	
Interface	WAN1	
Area		[Range: 0 - 200]
Priority	1	[Default:1, Range: 0 - 255]
Hello Interval	10	[Default:10, Range: 1 - 65535]
Dead Interval	40	[Default:40, Range: 1 - 65535]
Cost	10	[Default:10, Range: 1 - 65535]
Authentication Type	Md5	▼
Md5 Key ID		[Range: 1 - 255]
Md5 Authentication Key		
		Save

3.5.5 OSPFv3

Network > *IPv6* > *OSPFv3*

Open Shortest Path First version 3 (OSPFv3) supports IPv6. To enable an OSPFv3 process on a router, you need to enable the OSPFv3 process globally, assign the OSPFv3 process a router ID, and enable the OSPFv3 process on related interfaces.

 \boxtimes DSR-150, DSR-150N, DSR-250 and DSR-250 don't support OSPFv3.

Figure 43: OSPFv3 configured parameters



This page shows the OSPFv3 parameters configured on the router.User can also edit the OSPFv3 configured parameters.OSPF(Open Shortest Path First) version 3 is a routing protocol for IPv6 Networks (OSPFv3) described in RFC2740.OSPF is an IGP (Interior Gateway Protocol) used to distribute routing information within a single Autonomous System. Compared with RIP, OSPF can provide scalable network support and faster convergence times.OSPF can be used to design and build large and complicated networks.

OSPFv3 List

Show 10 • entrie	es [Right o	lick on record to get more	options]		٩		
Status 🔂	Port Θ	Priority ⊖	Hello Interval ⊖	Dead Interval	⊖ Cost ⊖		
DISABLED	LAN	1	10	40	10		
DISABLED	WAN1	1	10	40	10		
DISABLED	WAN2	1	10	40	10		
Showing 1 to 3 of 3 entries							

Interface: The physical network interface on which OSPFv3 is Enabled/Disabled.

Status: This column displays the Enable/Disable state of OSPFv3 for a particular interface.

Priority: Helps to determine the OSPFv3 designated router for a network. The router with the highest priority will be more eligible to become Designated Router. Setting the value to 0, makes the router ineligible to become Designated Router. The default value is 1.Lower Value means higher priority.

HelloInterval: The number of seconds for HelloInterval timer value. Setting this value, Hello packet will be sent every timer value seconds on the specified interface. This value must be the same for all routers attached to a common network. The default value is 10 seconds.

DeadInterval: The number of seconds that a device's hello packets must not have been seen before its neighbors declare the OSPF router down. This value must be the same for all routers attached to a common network. The default value is 40 seconds.

OSPF requires these intervals to be exactly the same between two neighbors. If any of these intervals are different, these routers will not become neighbors on a particular segment

Cost: The cost of sending a packet on an OSPFv3 interface.

Save

Figure 44: OSPFv3 configuration

OSPFv3 Configuration		X
OSPFv3 Enable		
Interface	WAN1	
Priority	1 [Default:1, Range: 0 - 255]	
Hello Interval	10 [Default:10, Range: 1 - 65535]	
Dead Interval	40 [Default:40, Range: 1 - 65535]	
Cost	10 [Default:10, Range: 1 - 65535]	

3.5.6 6to4 Tunneling

Figure 45: 6 to 4 tunneling

Network > *IPv6* > 6 to 4 *Tunneling*

6to4 is an Internet transition mechanism for migrating from IPv4 to IPv6, a system that allows IPv6 packets to be transmitted over an IPv4 network. Select the check box to **Enable Automatic Tunneling** and allow traffic from an IPv6 LAN to be sent over an IPv4 Option to reach a remote IPv6 network.



79

3.5.7 ISATAP Tunnels

Network > IPv6 > ISATAP Tunnels

ISATAP (Intra-Site Automatic Tunnel Addressing Protocol) is an IPv6 transition mechanism meant to transmit IPv6 packets between dual-stack nodes on top of an IPv4 network. ISATAP specifies an IPv6-IPv4 compatibility address format as well as a means for site border router discovery. ISATAP also specifies the operation of IPv6 over a specific link layer - that being IPv4 used as a link layer for IPv6.

Figure 46: ISATAP Tunnels Configuration

🙆 Status 🛜 Wireless	💻 Network	යි VPN	Security	🍄 Maintenance	
Network » IPv6 » ISATAP Tunnels					00
	IPv6 Mode	is not enabled			
This page shows the list of available ISATAP tunne connectivity between IPv6 nodes within the LAN,	ls. A user can also add, as it treats the IPv4 net	delete and edit ISA work as a single IPv	TAP tunnels from the	is page.ISATAP is available	to provide
ISATAP Tunnels List					
Show 10 • entries [Right click on record	to get more options]				٩
Local Endpoint	🔂 ISATAP	Subnet Prefix			÷
	No data av	ailable in table			
Showing 0 to 0 of 0 entries			K	First Previous Next	Last 刘
Add New ISATAP Tunnel					
ISATAP Tunnels Configuration					X
ISATAP Subnet Prefix					
End Point Address	● LAN ○ Other	IP			
				Sa	ve

ISATAP Subnet Prefix: This is the 64-bit subnet prefix that is assigned to the logical ISATAP subnet for this intranet. This can be obtained from your ISP or internet registry, or derived from RFC 4193.

End Point Address: This is the endpoint address for the tunnel that starts with this router. The endpoint can be the LAN interface (assuming the LAN is an IPv4 network), or a specific LAN IPv4 address.

IPv4 Address: The end point address if not the entire LAN.

3.6 Configurable Port - WAN Option

This router supports one of the physical ports to be configured as a secondary WAN Ethernet port or a dedicated DMZ port. If the port is selected to be a secondary WAN interface, all configuration pages relating to WAN2 are enabled.

3.7 WAN3 (3G) Configuration

This router supports one of the physical ports WAN3 to be configured for 3G internet access.

Network > Internet > WAN3 Settings

WAN3 configuration for the 3G USB modem is available only on WAN3 interface.

There are a few key elements of WAN 3 configuration.

- Reconnect Mode: Select one of the following options
 - Always On: The connection is always on.
 - Username: Enter the username required to log in to the ISP.
 - On Demand: The connection is automatically ended if it is idle for a specified number of minutes. Enter the number of minutes in the Maximum Idle Time field. This feature is useful if your ISP charges you based on the amount of time that you are connected.
- Password: Enter the password required to login to the ISP.
- Dial Number: Enter the number to dial to the ISP.
- Authentication Protocol: Select one of None, PAP or CHAP Authentication Protocols to connect to the ISP.
- APN: Enter the APN (Access Point Name) provided by the ISP.

Domain Name System (DNS) Servers

- Domain name servers (DNS) convert Internet names such as www.dlink.com, to IP addresses to route traffic to the correct resources on the Internet. If you configure your router to get an IP address dynamically from the ISP, then you need to specify the DNS server source in this section.
- DNS Server Source: Choose one of the following options:
 - Get Dynamically from ISP: Choose this option if your ISP did not assign a static DNS IP address.
 - Use These DNS Servers: Choose this option if your ISP assigned a static DNS IP address for you to use. Also complete the fields that are highlighted white in this section.
 - Primary DNS Server: Enter a valid primary DNS Server IP Address.
 - o Secondary DNS Server: Enter a valid secondary DNS Server IP Address.

- Configurable Port: This page allows you to assign the functionality intended for the Configurable Port. Choose from the following options:
 - WAN: If this option is selected, configure the WAN3. The WAN Mode options are now available as there are two WAN ports for the gateway.
 - DMZ: If this option is selected, you are able to configure the DMZ port on the DMZ Configuration menu.

Click Save Settings to save your changes.

Click Don't Save Settings to revert to the previous settings.

Figure 47: WAN3 configuration for 3G internet

A Status	🛜 Wireless	📮 Network	ഹ്രം vpn	Security	🍄 Maintenance			
Network » Internet » WAN3 Settings								
This page allows user to config System Information-> USB State	gure the ISP settings us page.	to enable this router t	to connect to a 3Gi	nternet, please chec	k the USB card status on	Status->		
Rollover WAN Settings								
Rollover WAN (3G Interne Reconnect Mode	et)	● Always On □ On	Demand					
3G Internet Connection 7 User Name	[ype	admin	Optional					
Password	[•••••	Optional					
Dial-In Number	[*99#						
Authentication Protocol		None	•					
APN Required		ON						
APN	[wap.isp.com						
Domain Name System (DN DNS Server Source	15) Servers	● Get Dynamically from	n ISP 🔍 Use The	se DNS Servers				
Port Setup MTU Size		● Default) m					
		Save	Cancel					

Cellular 3G internet access is available on WAN3 via a 3G USB modem for DSR-1000 and DSR-1000N. The cellular ISP that provides the 3G data plan will provide the authentication requirements to establish a connection. The dial Number and APN are specific to the cellular carriers. Once the connection type settings are configured and saved, navigate to the WAN status page (Network > Internet > WAN# Settings) and Enable the WAN3 link to establish the 3G connection.

The 3G USB modem can be configured as the third WAN in DSR-1000 and DSR- 1000N.

3.8 WAN Port Settings

Network > Internet > WAN1 Settings

The physical port settings for each WAN link can be defined here. If your ISP account defines the WAN port speed or is associated with a MAC address, this information is required by the router to ensure a smooth connection with the network.

The default MTU size supported by all ports is 1500. This is the largest packet size that can pass through the interface without fragmentation. This size can be increased, however large packets can introduce network lag and bring down the interface speed. Note that a 1500 byte size packet is the largest allowed by the Ethernet protocol at the network layer.

The port speed can be sensed by the router when Auto is selected. With this option the optimal port settings are determined by the router and network. The duplex (half or full) can be defined based on the port support, as well as one of three port speeds: 10 Mbps, 100 Mbps and 1000 Mbps (i.e. 1 Gbps). The default setting is 100 Mbps for all ports.

The default MAC address is defined during the manufacturing process for the interfaces, and can uniquely identify this router. You can customize each WAN port's MAC address as needed, either by letting the WAN port assume the current LAN host's MAC address or by entering a MAC address manually.

Figure 48: Physical WAN port settings 🕢 Status 🛜 Wireless Network 🞧 VPN 🔒 Security Maintenance Network » Internet » WAN1 Settings ? 0 This page allows you to set up your Internet connection. Ensure that you have the Internet connection information such as the IP Addresses, Account Information etc. This information is usually provided by your ISP or network administrator. IPv4 WAN Settings WAN Setup Connection Type Dynamic IP (DHCP) • Enable VLAN Tag OFF Dynamic IP (DHCP) Host Name DNS Servers (Domain Name System) DNS Server Source Get Dynamically from ISP Use These DNS Servers MAC Address MAC Address Source Port Setup Default Ocustom MTU Size Port Speed Auto Sense •

Save

The 3G USB Modem can be configured as dedicated WAN2 for DSR-500 and DSR-500N as well as dedicated WAN3 for DSR-1000 and DSR-1000N.

Cancel

Chapter 4. Wireless Access Point Setup

This router has an integrated 802.11n radio that allows you to create an access point for wireless LAN clients. The security/encryption/authentication options are grouped in a wireless Profile, and each configured profile will be available for selection in the AP configuration menu. The profile defines various parameters for the AP, including the security between the wireless client and the AP, and can be shared between multiple APs instances on the same device when needed.

Up to four unique wireless networks can be created by configuring multiple "virtual" APs. Each such virtual AP appears as an independent AP (unique SSID) to supported clients in the environment, but is actually running on the same physical radio integrated with this router.

You will need the following information to configure your wireless network:

- Types of devices expected to access the wireless network and their supported Wi-Fi[™] modes
- The router's geographical region
- The security settings to use for securing the wireless network.
 - Profiles may be thought of as a grouping of AP parameters that can then be applied to not just one but multiple AP instances (SSIDs), thus avoiding duplication if the same parameters are to be used on multiple AP instances or SSIDs.

4.1 Wireless Settings Wizard

Setup > Wizard > Wireless Settings

The Wireless Network Setup Wizard is available for users new to networking. By going through a few straightforward configuration pages you can enable a Wi-Fi[™] network on your LAN and allow supported 802.11 clients to connect to the configured Access Point.

Figure 49: Wireless Network Setup Wizards

Wizards	
Internet Connection Wizard	Security Wizard
This wizard will guide you in connecting	This wizard will guide you in configuring
your new D-Link Unified Services Router to	default Outbound Policy, VPN Passthrough
the Internet.	and VPN Network Settings.
Wireless Wizard	Users Wizard
This wizard will guide you through common	This Wizard guides you in creating a new
and easy steps to configure your router's	user.
wireless interface.	
Dynamic DNS Wizard	Date and Time Wizard
This Wizard helps in configuring Dynamic DNS	This Wizard helps you in configuring Date
WAN 1 or WAN 2 settings.	and Time settings.
Run.	

Unified Services Router

Wireless Wizard	X
Wireless Wiz	ard Configuration
Network Name (SSID) Wireless Security Password Wireless Security Password: Between 8 and 63 characters (A longer WPA key is more secure than a short one)	Network Key TypeManualAutomatic: To prevent outsiders from accessing your network, the router will automatically assign a security to your network.Manual: Use this options if you prefer to create our own key.
Step: [1 of 1]	Previous Save

Wireless Wizard		×
	Wireless Wizard	Configuration
Network Name (SSID)		Network Key Type Automatic Automatic: To prevent outsiders from accessing your network, the router will automatically assign a security to your network.
		Manual: Use this options if you prefer to create our own key.
Step: [1 of 1]		Previous Save

4.1.1 Wireless Network Setup Wizard

This wizard provides a step-by-step guide to create and secure a new access point on the router. The network name (SSID) is the AP identifier that will be detected by supported clients. The Wizard uses a TKIP+AES cipher for WPA / WPA2 security; depending on support on the client side, devices associate with this AP using either WPA or WPA2 security with the same pre-shared key.

The wizard has the option to automatically generate a network key for the AP. This key is the preshared key for WPA or WPA2 type security. Supported clients that have been given this PSK can associate with this AP. The default (auto-assigned) PSK is "passphrase".

The last step in the Wizard is to click the Connect button, which confirms the settings and enables this AP to broadcast its availability in the LAN.

4.1.2 Add Wireless Device with WPS

With WPS enabled on your router, the selected access point allows supported WPS clients to join the network very easily. When the Auto option for connecting a wireless device is chose, you will be presented with two common WPS setup options:

• Personal Identification Number (PIN): The wireless device that supports WPS may have an

alphanumeric PIN, and if entered in this field the AP will establish a link to the client. Click Connect to complete setup and connect to the client.

- **Push Button Configuration (PBC):** for wireless devices that support PBC, press and hold down on this button and within 2 minutes, click the PBC connect button. The AP will detect the wireless device and establish a link to the client.
- You need to enable at least one AP with WPA/WPA2 security and also enable WPS in the *Advanced > Wireless Settings > WPS* page to use the WPS wizard.

4.1.3 Manual Wireless Network Setup

This button on the Wizard page will link to the *Setup> Wireless Settings> Access Points* page. The manual options allow you to create new APs or modify the parameters of APs created by the Wizard.

4.2 Wireless Profiles

Wireless > General > Profiles

The profile allows you to assign the security type, encryption and authentication to use when connecting the AP to a wireless client. The default mode is "open", i.e. no security. This mode is insecure as it allows any compatible wireless clients to connect to an AP configured with this security profile.

To create a new profile, use a unique profile name to identify the combination of settings. Configure a unique SSID that will be the identifier used by the clients to communicate to the AP using this profile. By choosing to broadcast the SSID, compatible wireless clients within range of the AP can detect this profile's availability.

The AP offers all advanced 802.11 security modes, including WEP, WPA, WPA2 and WPA+WPA2 options. The security of the Access point is configured by the Wireless Security Type section:

- Open: select this option to create a public "open" network to allow unauthenticated devices to access this wireless gateway.
- WEP (Wired Equivalent Privacy): this option requires a static (pre-shared) key to be shared between the AP and wireless client. Note that WEP does not support 802.11n data rates; is it appropriate for legacy 802.11 connections.
- WPA (Wi-Fi Protected Access): For stronger wireless security than WEP, choose this option. The encryption for WPA will use TKIP and also CCMP if required. The authentication can be a pre-shared key (PSK), Enterprise mode with RADIUS server, or both. Note that WPA does not support 802.11n data rates; is it appropriate for legacy 802.11 connections.
- WPA2: this security type uses CCMP encryption (and the option to add TKIP encryption) on either PSK (pre-shared key) or Enterprise (RADIUS Server) authentication.
- WPA + WPA2: this uses both encryption algorithms, TKIP and CCMP. WPA clients will use TKIP and WPA2 clients will use CCMP encryption algorithms.

WPA+WPA2" is a security option that allows devices to connect to an AP using the strongest security that it supports. This mode allows legacy devices that only support WPA2 keys (such as an older wireless printer) to connect to a secure AP where all the other wireless clients are using WPA2.

Figure 50: List of Available Profiles shows the options available to secure the wireless link

	🕋 Status	🛜 Wireless	💻 Network	යි VPN	🚊 Security	🔅 Maintenance			
Wireless » General » Profiles									
A profile is a grouping of wireless settings which can be shared across multiple APs. AP specific settings are configured on the Access Point Configuration page. The profile allows for easy duplication of SSIDs, security settings, encryption methods, client authentication, etc. across APs. Profiles List									
Show 10	▼ entries	[Right click on record	to get more options]			٩			
Profile	Name 🔂	SSID ↔	Broadcast 😔	Security ⊖	Encryption	∂ Authentication ⊖			
default1		DSR-500N_1	Enabled	OPEN	NONE	NONE			
Showing 1 to 1 of 1 entries 1 Next > Last >									
Add N	ew Profile								

4.2.1 WEP Security

If WEP is the chosen security option, you must set a unique static key to be shared with clients that wish to access this secured wireless network. This static key can be generated from an easy-to-remember passphrase and the selected encryption length.

- Authentication: select between Open System, or Shared Key schemes
- Encryption: select the encryption key size -- 64 bit WEP or 128 bit WEP. The larger size keys provide stronger encryption, thus making the key more difficult to crack
- WEP Passphrase: enter an alphanumeric phrase and click Generate Key to generate 4 unique WEP keys with length determined by the encryption key size. Next choose one of the keys to be used for authentication. The selected key must be shared with wireless clients to connect to this device.

Figure 51: Profile configuration to set network security

🙆 Status	🛜 Wireles	ss 💻 Networ	k ക്ര	VPN	Secur	ity	©° Maintenance	
Wireless » General » Profiles								00
A profile is a grouping of wire Configuration page. The profi	eless settings whi ile allows for easy	ch can be shared acro / duplication of SSIDs,	ss multiple APs security setting	. AP spe gs, encr	cific settings ar yption methods	e configu , client a	ured on the Access Poi uthentication, etc. acr	nt [.] oss APs.
Profiles List								
Show 10 • entries	[Right click on rec	ord to get more options]						٩
Profile Name 🗘	SSID ⇔	Broadcast 🕀	Security	⇔	Encryption	⇔	Authentication	÷
default1	AutoTest	Enabled	WEP		128		Shared	
Showing 1 to 1 of 1 entries						First	I Next	Last 刘
Add New Profile								
Profile Configuration	n							X
Profile Name								Î
SSID				[Lengt	h: 1 -32]			
Broadcast SSID		ON III						
Security		WEP	•					
WEP Index and Keys								
Authentication		Open System	•					
Encryption		64 bit WEP	•					
WEP Passphrase				Ger	nerate Key			
WEP Key 1		۲						
WEP Key 2		0						
WEP Key 3		0						
							Sa	ave

4.2.2 WPA or WPA2 with PSK

A pre-shared key (PSK) is a known passphrase configured on the AP and client both and is used to authenticate the wireless client. An acceptable passphrase is between 8 to 63 characters in length.

4.3 Creating and Using Access Points

Wireless > General > Access Points

Once a profile (a group of security settings) is created, it can be assigned to an AP on the router. The AP SSID can be configured to broadcast its availability to the 802.11 environment can be used to establish a WLAN network.

The AP configuration page allows you to create a new AP and link to it one of the available profiles. This router supports multiple AP's referred to as virtual access points (VAPs). Each virtual AP that has a unique SSIDs appears as an independent access point to clients. This valuable feature allows the router's radio to be configured in a way to optimize security and throughput for a group of clients as required by the user. To create a VAP, click the "add" button on the *Wireless* > *General* > *Access Points* page. After setting the AP name, the profile dropdown menu is used to select one of the configured profiles.

The AP Name is a unique identifier used to manage the AP from the GUI, and is not the SSID that is detected by clients when the AP has broadcast enabled.

Figure 52: Virtual AP configuration

	🗥 Status	🛜 Wireless	💻 Netv	vork 🙃 VF	PN 🔒 Sec	urity	🗘 Mainter	nance
Wireless » G	eneral » Access Po	ints						00
The List of Av all radios) can	vailable Access Poi n be reviewed and	ints table lists the AP parameter co	e configured Acce nfiguration settin	ess Points (AP) for th gs can be accessed.	nis device. From this	s summary	y list, the status	of each AP (over
Access Poi	nts List							
Show 10	▼ entries [f	Right click on record	d to get more option	ns]	U			٩
Status 🕁	Virtual AP 🗧	Ə SSID ⊕	Broadcast ⊖	Profile Name	⊖ Active Time	⊜ St	tart Time 🛛 ⊖	Stop Time Θ
Enabled	ap1	AutoTest	Enabled	default1	No (Turn-off)			·
Showing 1 to	1 of 1 entries					First	t 🚽 Previous 1	Next 🔪 Last 刘
Add New .	Access Point							
Access P	oint Configur	ation						X
AP Nam	e							
Profile	Name		default1	•				
Active	Time		OFF					
WLAN P	ar titio n		OFF					
								Save

Access Point Configuration		x
AP Name		
Profile Name	default1 🔻	
Active Time		
Schedule Control		
Start Time	Hour Minute AM	
Stop Time	Hour Minute AM V	
WLAN Partition	OFF	
	Save	

A valuable power saving feature is the start and stop time control for this AP. You can conserve on the radio power by disabling the AP when it is not in use. For example on evenings and weekends if you know there are no wireless clients, the start and stop time will enable/disable the access point automatically.

Once the AP settings are configured, you must enable the AP on the radio on the *Wireless* > *General* > *Access Points* page. The status field changes to "Enabled" if the AP is available to accept wireless clients. If the AP is configured to broadcast its SSID (a profile parameter), a green check mark indicating it is broadcasting will be shown in the List of Available Access points.

Figure 53: List of configured access points (Virtual APs) shows one enabled access point on the radio, broadcasting its SSID

	🕜 Status	🛜 Wireless	💻 Netv	work 🞧	VPN	Security	🗘° Mainte	nance
Wireless » Ge	eneral » Access Poi	nts						0
The List of Av all radios) car	ailable Access Poir 1 be reviewed and	nts table lists the AP parameter co	e configured Acce nfiguration settir	ess Points (AP) for ags can be accesse	this devi ed.	rice. From this summ	nary list, the status	of each AP (over
Access Poir	nts List							
Show 10	▼ entries [R	ight click on record	d to get more optio	ns]				٩
Status 🗘	Virtual AP ⊖	SSID ⇔	Broadcast 🕀	Profile Name	⊖ A(ctive Time ⊖	Start Time → 😣	Stop Time →
Enabled	ap1	AutoTest	Enabled	default1	No	o (Turn-off)	•	•
Showing 1 to 1	l of 1 entries					K	First 🚽 Previous 1	Next > Last >
Add New /	Access Point							
Access Po	oint Configura	tion						×
AP Name	÷							
Profile	Name		default1	•				
Active T	ime		OFF					
WLAN Pa	artition		OFF					
								Save

The clients connected to a particular AP can be viewed by using the Status Button on the List of Available Access Points. Traffic statistics are shown for that individual AP, as compared to the summary stats for each AP on the Statistics table. Connected clients are sorted by the MAC address and indicate the security parameters used by the wireless link, as well as the time connected to this particular AP. Clicking the Details button next to the connected client will give the detailed send and receive traffic statistics for the wireless link between this AP and the client.

4.3.1 Primary benefits of Virtual APs:

- Optimize throughput: if 802.11b, 802.11 g, and 802.11n clients are expected to access the LAN via this router, creating 3 VAPs will allow you to manage or shape traffic for each group of clients. A unique SSID can be created for the network of 802.11b clients and another SSID can be assigned for the 802.11n clients. Each can have different security parameters remember, the SSID and security of the link is determined by the profile. In this way legacy clients can access the network without bringing down the overall throughput of more capable 802.11n clients.
- Optimize security: you may wish to support select legacy clients that only offer WEP security while using WPA2 security for the majority of clients for the radio. By creating two VAPs configured with different SSIDs and different security parameters, both types of clients can connect to the LAN. Since WPA2 is more secure, you may want to broadcast this SSID and not broadcast the SSID for the VAP with WEP since it is meant to be used for a few legacy devices in this scenario.

4.4 Tuning Radio Specific Settings

Wireless > General > Radio Settings

The Radio Settings page lets you configure the channels and power levels available for the AP's enabled on the DSR. The router has a dual band 802.11n radio, meaning either 2.4 GHz or 5 GHz frequency of operation can be selected (not concurrently though). Based on the selected operating frequency, the mode selection will let you define whether legacy connections or only 802.11n connections (or both) are accepted on configured APs.

Figure 54: Radio card configuration options

🖓 Status 🛜 Wireless	📮 Network	යි VPN	Security	🍄 Maintenance	
Wireless » General » Radio Settings					00
This page allows you to configure the hardware se	ettings for each available	radio card.			
Radio Settings					
Operating Frequency	2.4GHz	T			
Mode	g and b	T			
Channel Spacing	20MHz	•			
Current Channel	1 - 2.412GHz				
Channel	Auto	•			
Transmission Rate	Best(Automatic)	•			
	Save	Cancel			

The ratified 802.11n support on this radio requires selecting the appropriate broadcast (NA or NG etc.) mode, and then defining the channel spacing and control side band for 802.11n traffic. The default settings are appropriate for most networks. For example, changing the channel spacing to 40 MHz can improve bandwidth at the expense of supporting earlier 802.11n clients.

The available transmission channels are governed by regulatory constraints based on the region setting of the router. The maximum transmission power is similarly governed by regulatory limits; you have the option to decrease from the default maximum to reduce the signal strength of traffic out of the radio.

4.5 WMM

Wireless > Advanced > WMM

Wi-Fi Multimedia (WMM) provides basic Quality of service (QoS) features to IEEE 802.11 networks. WMM prioritizes traffic according to four Access Categories (AC) - voice, video, best effort, and background.

Figure 55: Wi-Fi Multimedia

🗥 Status	🛜 Wireless	💻 Network	I VPN	💂 Security	O Maintenance	
Wireless » Advanced » WMM						00
This page allows you to config	ure the Wi-Fi Multime	edia(WMM) configura	tion parameters.			
WMM Settings						
Wi-Fi Multimedia Configu Profile Name Enable WMM Default Class Of Service	ration	default1 III OFF Background	T T			
Show 10 Tentries	[No right click option	s]				٩
IP DSCP / TOS		¢	Class Of Service			÷
0			Defaul 🔻			
1			Defaul 🔻			
2			Defaul 🔻			
3			Defaul 🔻			
4			Defaul 🔻			
5			Defaul 🔻			
6			Defaul 🔻			
7			Defaul 🔻			
8			Defaul 🔻			
9			Defaul 🔻			
Showing 1 to 10 of 64 entries				First Previous	1 2 3 4 5 Next >	Last 刘
		Save	Cancel			

Profile Name:

This field allows you to select the available profiles in wireless settings.

Enable WMM:

This field allows you to enable WMM to improve multimedia transmission.

Default Class of Service:

This field allows you to select the available Access Categories (voice, video, best effort, and background).

4.6 Wireless distribution system (WDS)

Wireless > Advanced > WDS

Wireless distribution system is a system enabling the wireless interconnection of access points in a network. This feature is only guaranteed to work only between devices of the same type.

Figure 56: Wireless Distribution System

🖓 Status 🛜	Wireless 📃 Network	ഹ്ല vpn	盈 Security	ᅌ Maintenance	
Wireless » Advanced » WDS					00
	🕅 Operat	ion Succeeded			
This page allows you to configure the	Wireless Distribution System (WDS) configuration para	meters.		
WDS Settings					
WDS Enable	ON				
WDS Encryption	128				
WDS Security	WEP				
WDS Authentication	Shared				
System MAC Address	00:19:21:68:50:04				
	Save	Cancel			
WDS Peer MAC Address List					
Show 10 • entries [Right	click on record to get more options]				٩
MAC Address					Ŷ
	No data	available in table			
Showing 0 to 0 of 0 entries			K Fi	rst 👌 Previous 🛛 Next 🍾	Last 刘
Add New WDS					

This feature is only guaranteed to work only between devices of the same type (i.e. using the same chipset/driver). For example between two DSR250N boxes, or between two DSR1000N. It should also interoperate between a DSR 1000N and DSR 500 N boxes since they are based on the same chipset/driver.

When the user enables the WDS links use the same security configuration as the default access point. The WDS links do not have true WPA/WPA2 support, as in there is no WPA key handshake performed. Instead the Session Key to be used with a WDS Peer is computed using a hashing function (similar to the one used for computing a WPA PMK). The inputs to this function are a PSK (configurable by an administrator from the WDS page) and an internal "magic" string (non-configurable).

In effect the WDS links use TKIP/AES encryption, depending on the encryption configured for the default AP. In case the default AP uses mixed encryption (TKIP + AES). The WDS link will use the AES encryption scheme.

The WDS page would consist of two sections. The first section provides general WDS settings shared by all its WDS peers.

WDS Enable - This would be a check box

WDS Encryption - Displays the type of encryption used. It could be one of OPEN/64 bit WEP/128 bit WEP/TKIP/AES (Use the term being used throughout the box i.e. either CCMP or AES).

WDS Passphrase - This is required if the encryption selected is TKIP/CCMP. We would expect it to be within 8~63 ASCII characters. In the WDS configuration page this field is mandatory and has to be same on the two WDS peers, when the security is configured in TKIP/AES mode. The WDS links use this as the PSK for the connection.

DUT's Mac Address - This would be the mac address of this box. This should be configured in the peer's WDS configuration page to be able to establish a WDS link with this box. This field in the WDS Configuration section displays the device's mac address, which needs to be specified on the WDS peer for making a connection to this device (Similarly the WDS peers MAC address will have to be specified on this device for the WDS link to be established between the two devices).

The second section will have the list of configured WDS peers with buttons to Add/Delete Peer entries. We support up to a maximum of 4 WDS links per box.

The both devices need to have same wireless settings (wireless mode, encryption, authentication method, WDS passphrase, WDS MAC address and wireless SSID) when we configure WDS features in DSR router.

The "Add WDS Peer" section allows the user to specify a WDS peer. The "WDS Peers" table displays the list of WDS peers currently configured on the device. A maximum of 4 WDS peers can be specified in any given mode.

4.7 Advanced Wireless Settings

Wireless > Advanced > Advanced Sttings

Sophisticated wireless administrators can modify the 802.11 communication parameters in this page. Generally, the default settings are appropriate for most networks. Please refer to the GUI integrated help text for further details on the use of each configuration parameter.

🛜 Wireless 💂 Network Maintenance 🙆 Status ക് VPN 👘 Security Wireless » Advanced » Advanced Settings ? 0 This page is used to specify advanced configuration settings for the radio. Advanced Wireless Settings Beacon Interval 100 [Default: 100, Range: 40 - 3500] Milliseconds 2 Dtim Interval [Default: 2, Range: 1 - 255] RTS Threshold 2346 [Default: 2346, Range: 256 - 2346] Fragmentation Threshold 2346 [Default: 2346, Range: 257 - 2346] Preamble Mode • Long Protection Mode None • Power Save Enable OFF Cancel

Figure 57: Advanced Wireless communication settings

4.8 Wi-Fi Protected Setup (WPS)

Wireless > Advanced > WPS

WPS is a simplified method to add supporting wireless clients to the network. WPS is only applicable for APs that employ WPA or WPA2 security. To use WPS, select the eligible VAPs from the dropdown list of APs that have been configured with this security and enable WPS status for this AP.

The WPS Current Status section outlines the security, authentication, and encryption settings of the selected AP. These are consistent with the AP's profile. There are two setup options available for :

- **Personal Identification Number (PIN):** The wireless device that supports WPS may have an alphanumeric PIN, if so add the PIN in this field. The router will connect within 60 seconds of clicking the "Configure via PIN" button immediately below the PIN field. There is no LED indication that a client has connected.
- **Push Button Configuration (PBC):** for wireless devices that support PBC, press and hold down on this button and within 2 minutes click the PBC connect button. The AP will detect the wireless device and establish a link to the client.
 - More than one AP can use WPS, but only one AP can be used to establish WPS links to client at any given time.

Figure 58: WPS configuration for an AP with WPA/WPA2 profile

A Status	🛜 Wireless	💻 Network	යි VPN	Security	ᅌ Maintenance				
Wireless » Advanced » WPS						00			
Please configure at least one AP with WPA/WPA2 security to use this feature.									
This page allows you to define and modify the Wi-Fi Protected Setup (WPS) configuration parameters.									
WPS Settings									
WPS Configuration									
VAP Name		None							
WPS Status		ON							
WPS Current Status									
Security		N/A							
Authentication		N/A							
Encryption		N/A							

Chapter 5. Securing the Private Network

You can secure your network by creating and applying rules that your router uses to selectively block and allow inbound and outbound Internet traffic. You then specify how and to whom the rules apply. To do so, you must define the following:

- Services or traffic types (examples: web browsing, VoIP, other standard services and also custom services that you define)
- Direction for the traffic by specifying the source and destination of traffic; this is done by specifying the "From Zone" (LAN/WAN/DMZ) and "To Zone" (LAN/WAN/DMZ)
- Schedules as to when the router should apply rules
- Any Keywords (in a domain name or on a URL of a web page) that the router should allow or block
- Rules for allowing or blocking inbound and outbound Internet traffic for specified services on specified schedules
- MAC addresses of devices that should not access the internet
- Port triggers that signal the router to allow or block access to specified services as defined by port number
- Reports and alerts that you want the router to send to you

You can, for example, establish restricted-access policies based on time-of-day, web addresses, and web address keywords. You can block Internet access by applications and services on the LAN, such as chat rooms or games. You can block just certain groups of PCs on your network from being accessed by the WAN or public DMZ network.

5.1 Firewall Rules

Security > Firewall > Firewall Rules > IPv4 Firewall Rules

Inbound (WAN to LAN/DMZ) rules restrict access to traffic entering your network, selectively allowing only specific outside users to access specific local resources. By default all access from the insecure WAN side are blocked from accessing the secure LAN, except in response to requests from the LAN or DMZ. To allow outside devices to access services on the secure LAN, you must create an inbound firewall rule for each service.

If you want to allow incoming traffic, you must make the router's WAN port IP address known to the public. This is called "exposing your host." How you make your address known depends on how the WAN ports are configured; for this router you may use the IP address if a static address is assigned to the WAN port, or if your WAN address is dynamic a DDNS (Dynamic DNS) name can be used.

Outbound (LAN/DMZ to WAN) rules restrict access to traffic leaving your network, selectively allowing only specific local users to access specific outside resources. The default outbound rule is to allow access from the secure zone (LAN) to either the public DMZ or insecure WAN. On other hand the default outbound rule is to deny access from

DMZ to insecure WAN. You can change this default behavior in the *Firewall Settings* > *Default Outbound Policy* page. When the default outbound policy is allow always, you can to block hosts on the LAN from accessing internet services by creating an outbound firewall rule for each service.

Figure 59: List of Available Firewall Rules

🖽 Status	🛜 Wireless	💻 Network	යි vpn	Security	🗘 Maintenance	2			
Security » Firewall » Firewa	Security » Firewall » Firewall Rules PV4 Firewall Rules								
IPv4 Firewall Rules IPv6 Firewall Rules Bridge Firewall Rules									
A firewall is a security mechanism to selectively block or allow certain types of traffic in accordance with rules specified by network administrators. You can use this page to manage the firewall rules that control traffic to and from your network. The List of Available Firewall Rules table includes all firewall rules for this device and allows several operations on the firewall rules. Firewall Rules									
Default Outbound Policy for IPv4 Always © Allow © Block									
		Save	Cancel						
IPv4 Firewall Rules Li	st								
Show 10 <pre> entries</pre>	[Right click on recor	d to get more options]				٩			
Status From Zone Zon	ne [⊕] Service ⊖ Bl Al	low Source ⊖ Hosts	Destination Hosts ⊖	Local Server Destinat	$\Theta \xrightarrow{\text{Log}} \text{Rule F}$	Priority ⊖			
		No data av	ailable in table						
Showing 0 to 0 of 0 entries				KI F	irst 🔄 Previous 🛛 Next 🕽	Last 刘			
Add New IPv4 Firewall	Rule								

5.2 Defining Rule Schedules

Security > Firewall > Schedules

Firewall rules can be enabled or disabled automatically if they are associated with a configured schedule. The schedule configuration page allows you to define days of the week and the time of day for a new schedule, and then this schedule can be selected in the firewall rule configuration page.

All schedules will follow the time in the routers configured time zone. Refer to the section on choosing your Time Zone and configuring NTP servers for more information.

Figure 60: List of Available Schedules to bind to a firewall rule

🙆 Status 🛜 Wi	reless 📮 Network	🚯 VPN	Security	🍄 Maintenance	
Security » Firewall » Schedules					00
When you create a firewall rule, you can allows several operations on the Schedule	specify a schedule when the ru es.	le applies. The tabl	e lists all the Available	e Schedules for this devi	ice and
Schedules List					
Show 10 Tentries [Right click of	on record to get more options]				٩
Name 🔂 Day(s)	⊖ Start Tim	e	⊖ End	Time	⇔
Showing 0 to 0 of 0 entries	NO DATA AV	allable in table		First A Bravious Next	Last NL
				First A Previous Next 7	
Add New Schedule					
Schedules Configuration					×
Name					A
Scheduled Days Do you want this schedule to be active on all days or specific days?	○ All Days ● S	pecific Days			
Monday	Tue	sday		OFF	
Wednesday	Thu	rsday		OFF	
Friday Sunday	III OFF Satu	ırday		OFF	
<i>Start Time</i> Start Time	HH MM AM/PM 10 35 AM 36 AM 9M				
End Time End Time	НН АМ АМ/РМ 11 35 АМ 27 ФМ				Ţ
					Save
Schedules Configuration					X
Scheduled Time of Day Do you want this schedule to be active all day or at specific times during the day?	⊖ All Day ® Sp	ecific Times			•
5.3 Configuring Firewall Rules

Security > Firewall > Firewall Rules > IPv4 Firewall Rules

All configured firewall rules on the router are displayed in the Firewall Rules list. This list also indicates whether the rule is enabled (active) or not, and gives a summary of the From/To zone as well as the services or users that the rule affects.

To create a new firewall rules, follow the steps below:

- 1. View the existing rules in the List of Available Firewall Rules table.
- 2. To edit or add an outbound or inbound services rule, do the following:
- To edit a rule, click the checkbox next to the rule and click Edit to reach that rule's configuration page.
- To add a new rule, click Add to be taken to a new rule's configuration page. Once created, the new rule is automatically added to the original table.
 - **3.** Chose the From Zone to be the source of originating traffic: either the secure LAN, public DMZ, or insecure WAN. For an inbound rule WAN should be selected as the From Zone.
 - 4. Choose the To Zone to be the destination of traffic covered by this rule. If the From Zone is the WAN, the To Zone can be the public DMZ or secure LAN. Similarly if the From Zone is the LAN, then the To Zone can be the public DMZ or insecure WAN.
 - 5. Parameters that define the firewall rule include the following:
 - Service: ANY means all traffic is affected by this rule. For a specific service the drop down list has common services, or you can select a custom defined service.
 - Action & Schedule: Select one of the 4 actions that this rule defines: BLOCK always, ALLOW always, BLOCK by schedule otherwise ALLOW, or ALLOW by schedule otherwise BLOCK. A schedule must be preconfigured in order for it to be available in the dropdown list to assign to this rule.
 - Source & Destination users: For each relevant category, select the users to which the rule applies:
 - Any (all users)
 - Single Address (enter an IP address)
 - Address Range (enter the appropriate IP address range)

- Log: traffic that is filtered by this rule can be logged; this requires configuring the router's logging feature separately.
- QoS Priority: Outbound rules (where To Zone = insecure WAN only) can have the traffic marked with a QoS priority tag. Select a priority level:
 - Normal-Service: ToS=0 (lowest QoS)
 - Minimize-Cost: ToS=1
 - Maximize-Reliability: ToS=2
 - Maximize-Throughput: ToS=4
- Minimize-Delay: ToS=8 (highest QoS)
- 6. Inbound rules can use Destination NAT (DNAT) for managing traffic from the WAN. Destination NAT is available when the To Zone = DMZ or secure LAN.
 - With an inbound allow rule you can enter the internal server address that is hosting the selected service.
 - You can enable port forwarding for an incoming service specific rule (From Zone = WAN) by selecting the appropriate checkbox. This will allow the selected service traffic from the internet to reach the appropriate LAN port via a port forwarding rule.
 - Translate Port Number: With port forwarding, the incoming traffic to be forwarded to the port number entered here.
 - External IP address: The rule can be bound to a specific WAN interface by selecting either the primary WAN or configurable port WAN as the source IP address for incoming traffic.
- This router supports multi-NAT and so the External IP address does not necessarily have to be the WAN address. On a single WAN interface, multiple public IP addresses are supported. If your ISP assigns you more than one public IP address, one of these can be used as your primary IP address on the WAN port, and the others can be assigned to servers on the LAN or DMZ. In this way the LAN/DMZ server can be accessed from the internet by its aliased public IP address.
- Outbound rules can use Source NAT (SNAT) in order to map (bind) all LAN/DMZ traffic matching the rule parameters to a specific WAN interface or external IP address (usually provided by your ISP).

Once the new or modified rule parameters are saved, it appears in the master list of firewall rules. To enable or disable a rule, click the checkbox next to the rule in the list of firewall rules and choose Enable or Disable.

The router applies firewall rules in the order listed. As a general rule, you should move the strictest rules (those with the most specific services or addresses) to the top of the list. To reorder rules, click the checkbox next to a rule and click up or down.

Figure 61: Example where an outbound SNAT rule is used to map an external IP address (209.156.200.225) to a private DMZ IP address (10.30.30.30)



Showing 0 to 0 of 0 entries

Add New IPv4 Firewall Rule

Q

Rule Priority 🕀

Log⊜

 Image: Heat of First
 Image: H

nternet estination[⊖]

Figure 62: The firewall rule configuration page allows you to define the To/From zone, service, action, schedules, and specify source/destination IP addresses as needed.

	🕜 Status	🛜 Wireless	💻 Network	ഹ്ര vpn	🔒 Security	🔅 Maintenance	
Security » Firewall » Firewall Rules » IPv4 Firewall Rules							
IPv4	Firewall Rules IP	v6 Firewall Rules					

A firewall is a security mechanism to selectively block or allow certain types of traffic in accordance with rules specified by network administrators You can use this page to manage the firewall rules that control traffic to and from your network. The List of Available Firewall Rules table includes all firewall rules for this device and allows several operations on the firewall rules.

No data available in table

irewall Rul	es								
Default Outbound Policy for IPv4 Always				Allow Block					
IDv4 Firev	uall Dula	e l det		Sav	/e	Cancel			
Show 10	• entrie:	s [i	Right click on r	ecord to get m	ore options]				
Status	From Zone⊖	To Zone [⊕]	Service ⊖	Block / Allow ↔	Source Hosts ⊖	Destination Hosts ⊖	Local Server	lr D	

IPv4 Firewall Rules Configuration			X
From Zone	SECURE (LAN)		
To Zone	INSECURE (WAN)		
Service	ANY v		
Action	Always Block 🔻		
Source Hosts	● Any ○ Single Address	O Address Range	
Destination Hosts	Any O Single Address	O Address Range	
Log	Never O Always		
QoS Priority	Normal-Service 🔻		
			Save

IPv6 Firewall Rules Configuration		X
From Zone To Zone Service Action	SECURE (LAN) INSECURE (WAN) ANY Block Always	
Source Hosts Destination Hosts	 Any Single Address Address Range Any Single Address Address Range 	
Log	Never O Always	
		Save

5.4 Configuring IPv6 Firewall Rules

Security > Firewall > Firewall Rules > IPv4 Firewall Rules

All configured IPv6 firewall rules on the router are displayed in the Firewall Rules list. This list also indicates whether the rule is enabled (active) or not, and gives a summary of the From/To zone as well as the services or users that the rule affects.

Figure 63: The IPv6 firewall rule configuration page allows you to define the To/From zone, service, action, schedules, and specify source/destination IP addresses as needed.

🕜 Status	🛜 Wireless	💻 Network	s cጔ vp	N 🔮 S	ecurity 📢	🎾 Maintenanc	e
ecurity » Firewall » Firewa	ll Rules » IPv6 Firewal	l Rules					00
IPv4 Firewall Rules IPv	v6 Firewall Rules						
firewall is a security mecha ou can use this page to man Il firewall rules for this devi	nism to selectively bl age the firewall rules ce and allows several	ock or allow certain that control traffic operations on the f	n types of traffic c to and from yo ïrewall rules.	in accordance ur network. The	with rules specif List of Available	ied by network a Firewall Rules ta	administrator: able includes
Pv6 Firewall Rules							
Default Outbound Policy Always	ı for IPv6	● Allow ○ Bloc	k				
		Save	Cancel				
Show 10 • entries	[Right click on recor	d to get more options]				٩
Status G From Zone	⊖ To ⊖ Zone ⊖	Service ⊖	Action	Source	⊖ Destination	on 😔	Log ⊖
		No dat	a available in table				
Showing 0 to 0 of 0 entries					K First	Previous Next	> Last >
Add New IPv6 Firewall	I Rule						X
From Zone		SECURE (LAN)	•				
To Zone		INSECURE (WAN)	•				
Service		ANY	T				
Action		Block Always	Ŧ				
Source Hosts		🔾 Any 💿 Sin	gle Address	O Address Ra	nge		
From		192.168.1.22					
Prefix Length		[R	ange: 0 - 128]				
Destination Hosts		🖲 Any 💿 Sin	gle Address	O Address Ra	nge		
Log		O Never 💿	Always				
							Save

Figure 64: List of Available IPv6 Firewall Rules

	🕜 Status	🛜 Wireless	💻 Network	A VPN	🚨 Security	🔅 Maintenance	
Security » Firewall » Firewall Rules » IPv6 Firewall Rules							
IPv4	Firewall Rules	v6 Firewall Rules					

A firewall is a security mechanism to selectively block or allow certain types of traffic in accordance with rules specified by network administrators. You can use this page to manage the firewall rules that control traffic to and from your network. The List of Available Firewall Rules table includes all firewall rules for this device and allows several operations on the firewall rules.

IPv6 Firewall Rules

<i>Default Ou</i> Always	tbou	nd Policy	for l	IPv6	Allow	Bloc	k							
					Save		Cance	I						
Show 10	• e	ntries	[Ri	ght click on reco	rd to get more	options]							٩
Status	¢	From Zone	⇔	To Zone ⊖	Service	⇔	Action	⇔	Source Hosts	⇔	Destination Hosts	⇔	Log	⇔
		u.				No da	ta available ir	n table						
Showing 0 to	0 of 0	entries									First Pr	evious Next	> Las	t 刘
Add New IPv6 Firewall Rule														

5.4.1 Firewall Rule Configuration Examples

Example 1: Allow inbound HTTP traffic to the DMZ

Situation: You host a public web server on your local DMZ network. You want to allow inbound HTTP requests from any outside IP address to the IP address of your web server at any time of day.

Solution: Create an inbound rule as follows.

Parameter	Value
From Zone	Insecure (WAN1/WAN2/WAN3)
To Zone	Public (DMZ)
Service	НТТР
Action	ALLOW always
Send to Local Server (DNAT IP)	192.168.5.2 (web server IP address)
Destination Users	Any
Log	Never

Example 2: Allow videoconferencing from range of outside IP addresses

Situation: You want to allow incoming videoconferencing to be initiated from a restricted range of outside IP addresses (132.177.88.2 - 132.177.88.254), from a branch office.

Solution: Create an inbound rule as follows. In the example, CUSeeMe (the video conference service used) connections are allowed only from a specified range of external IP addresses.

Parameter	Value
From Zone	Insecure (WAN1/WAN2/WAN3)
To Zone	Secure (LAN)
Service	CU-SEEME:UDP
Action	ALLOW always
Send to Local Server (DNAT IP)	192.168.10.11
Destination Users	Address Range
From	132.177.88.2
То	134.177.88.254
Enable Port Forwarding	Yes (enabled)

Example 3: Multi-NAT configuration

Situation: You want to configure multi-NAT to support multiple public IP addresses on one WAN port interface.

Solution: Create an inbound rule that configures the firewall to host an additional public IP address. Associate this address with a web server on the DMZ. If you arrange with your ISP to have more than one public IP address for your use, you can use the additional public IP addresses to map to servers on your LAN. One of these public IP addresses is used as the primary IP address of the router. This address is used to provide Internet access to your LAN PCs through NAT. The other addresses are available to map to your DMZ servers.

The following addressing scheme is used to illustrate this procedure:

- WAN IP address: 10.1.0.118
- LAN IP address: 192.168.10.1; subnet 255.255.255.0
- Web server host in the DMZ, IP address: 192.168.12.222
- Access to Web server: (simulated) public IP address 10.1.0.52

Parameter	Value
From Zone	Insecure (WAN1/WAN2/WAN3)
To Zone	Public (DMZ)
Service	нттр
Action	ALLOW always

Send to Local Server (DNAT IP)	192.168.12.222 (web server local IP address)
Destination Users	Single Address
From	10.1.0.52
WAN Users	Any
Log	Never

Example 4: Bloc

Example 4: Block traffic by schedule if generated from specific range of machines

Use Case: Block all HTTP traffic on the weekends if the request originates from a specific group of machines in the LAN having a known range of IP addresses, and anyone coming in through the Network from the WAN (i.e. all remote users).

Configuration:

- 1. Setup a schedule:
- To setup a schedule that affects traffic on weekends only, navigate to Security: Schedule, and name the schedule "Weekend"
- Define "weekend" to mean 12 am Saturday morning to 12 am Monday morning

 all day Saturday & Sunday
- In the Scheduled days box, check that you want the schedule to be active for "specific days". Select "Saturday" and "Sunday"
- In the scheduled time of day, select "all day" this will apply the schedule between 12 am to 11:59 pm of the selected day.
- Click apply now schedule "Weekend" isolates all day Saturday and Sunday from the rest of the week.

Figure 65: Schedule configuration for the above example.

🖓 Status 🛜 Wireless	💻 Network	பல் VPN	💂 Security	🍄 Maintenance	
Security » Firewall » Schedules					00
When you create a firewall rule, you can specify allows several operations on the Schedules.	a schedule when the rul	e applies. The tab	le <mark>l</mark> ists all the Availab	le Schedules for this dev	ice and
Schedules List					
Show 10 • entries [Right click on record	d to get more options]				٩
Name 🔂 Day(s)	⊖ Start Time		⊖ End	Time	⇔
	No data ava	ilable in table			
Showing 0 to 0 of 0 entries				First Previous Next	Last 刘
Add New Schedule					
Schedules Configuration					×
Name					^
Scheduled Days					
Do you want this schedule	🖲 All Days 🛛 Spe	ecific Days			
to be active on all days					
or specific days:					
Scheduled Time of Day		aifia Timaa			
to be active all day or at	⊖ All Day ⊕ Spe	chic thies			
specific times					
during the day?					
Start Time					
Start Time					
	HH MM AM/PM				
	07 42 08 43 AM 09 44 PM				
End Time					
Ling Time					
	HH MM AM/PM				
	07 42 08 43 AM 09 44 DM				×
				S	ave

- 2. Since we are trying to block HTTP requests, it is a service with To Zone: Insecure (WAN1/WAN2/WAN3) that is to be blocked according to schedule "Weekend".
- **3**. Select the Action to "Block by Schedule, otherwise allow". This will take a predefined schedule and make sure the rule is a blocking rule during the defined dates/times. All other times outside the schedule will not be affected by this firewall blocking rule

- 4. As we defined our schedule in schedule "Weekend", this is available in the dropdown menu
- 5. We want to block the IP range assigned to the marketing group. Let's say they have IP 192.168.10.20 to 192.168.10.30. On the Source Users dropdown, select Address Range and add this IP range as the From and To IP addresses.
- 6. We want to block all HTTP traffic to any services going to the insecure zone. The Destination Users dropdown should be "any".
- 7. We don't need to change default QoS priority or Logging (unless desired) clicking apply will add this firewall rule to the list of firewall rules.
- 8. The last step is to enable this firewall rule. Select the rule, and click "enable" below the list to make sure the firewall rule is active

5.5 Security on Custom Services

Security > Firewall > Custom Services

Custom services can be defined to add to the list of services available during firewall rule configuration. While common services have known TCP/UDP/ICMP ports for traffic, many custom or uncommon applications exist in the LAN or WAN. In the custom service configuration menu you can define a range of ports and identify the traffic type (TCP/UDP/ICMP) for this service. Once defined, the new service will appear in the services list of the firewall rules configuration menu.

Figure 66: List of user defined services.

🕜 Status	🛜 Wireless	💻 Network	යි VPN	Security	🏈 Maintenance			
Security » Firewall » Custon	n Services				0 0			
When you create a firewall rule, you can specify a service that is controlled by the rule Common types of services are available for selection, and you can create your own custom services. This page allows creation of custom services against which firewall rules can be defined. Once defined, the new service will appear in the List of Available Custom Services table. Custom Services List								
Show 10 • entries	[Right click on record to ge	et more options]			٩			
Name 🗘	Туре	⊖ ICMP Type / P	ort Range		⇔			
		No data ava	ilable in table					
Showing 0 to 0 of 0 entries				Н	First J Previous Next > Last >			
Add New Custom Servic	e							

Figure 67: Custom Services configuration

Custom Services Configuration		X
Name Type	TCP V	
Port Type	● Port Range ○ Multiple Ports	
Start Port	[Range: 0 - 65535]	
Finish Port	[Range: 0 - 65535]	
	Pave	
	Save	
Created services are available	ailable as options for firewall rule configuration.	

Name: Name of the service for identification and management purposes.

Type: The layer 3 Protocol that the service uses. (TCP, UDP, BOTH, ICMP or ICMPv6)

Port Type: This fields allows to select Port Range or Multiple Ports

ICMP Type: This field is enabled when the layer 3 protocol (in the Type field) is selected as ICMP or ICMPv6. The ICMP type is a numeric value that can range between 0 and 40, while for ICMPv6 the type ranges from 1 to 255. For a list of ICMP types, visit the following URL: http://www.iana.org/assignments/icmp-parameters.

Start Port: The first TCP, UDP or BOTH port of a range that the service uses. If the service uses only one port, then the Start Port will be the same as the Finish Port.

Finish Port: The last port in the range that the service uses. If the service uses only one port, then the Finish Port will be the same as the Start Port.

Port: The port that the service uses.

5.6 ALG support

Security > Firewall > ALGs > SMTP ALGs

Application Level Gateways (ALGs) are security component that enhance the firewall and NAT support of this router to seamlessly support application layer protocols. In some cases enabling the ALG will allow the firewall to use dynamic ephemeral TCP/ UDP ports to communicate with the known ports a particular client application (such as H.323 or RTSP) requires, without which the admin would have to open large number of ports to accomplish the same support. Because the ALG understands the protocol used by the specific application that it supports, it is a very secure and efficient way of introducing support for client applications through the router's firewall.

Figure 68: Available ALG support on the router.

Ć	🖄 Status	🛜 Wireless	💻 Network	ഹ്രം VPN	Security	🍄 Maintenance	
Security » Fire	wall » ALGs	» SMTP ALGs					00
ALGs SA	TP ALGS A	oproved Mail IDs Blo	cked Mail IDs Mail F	iltering			
This page allow	rs the user to	enable the SMTP ALG.					
SMTP ALG							
Status Port			IRange: 1	- 65535] Cancel			
Ć	🖄 Status	🛜 Wireless	💻 Network	යි VPN	💂 Security	🗘 Maintenance	
Security » Fire	wall » ALGs						00
ALGs SA	TP ALGS A	pproved Mail IDs Blo	cked Mail IDs 🛛 Mail F	iltering			
Application Lev application lay number of ALG	vel Gateway al er "control/da s for common	lows customized NAT tr ata" protocols such as T applications are enable	aversal filters to be pl FFTP, SIP, RTSP etc. Ea ed by default.	ugged into the ga ch ALG provides s	teway to support addr pecial handling for a s	ess and port translation f pecific protocol or appli	or certain cation. A

ALGs

TFTP	Save	Cancel
H.323	ON [11]	
SIP	ON	
RTSP	ON	

5.7 VPN Passthrough for Firewall

Security > Firewall > VPN Passthrough

This router's firewall settings can be configured to allow encrypted VPN traffic for IPsec, PPTP, and L2TP VPN tunnel connections between the LAN and internet. A specific firewall rule or service is not appropriate to introduce this passthrough support; instead the appropriate check boxes in the VPN Passthrough page must be enabled.

Figure 69: Passthrough options for VPN tunnels

	🕜 Status	🛜 Wireless	💻 Network	A VPN	Security	🏟 Maintenance			
Security » Firewall » VPN Passthrough									
This page firewall r VPN Pas	allows user to cont ules based on the si isthrough	figure VPN (IPsec, PPTF ame service.	P and L2TP) passthroug	h on the router. I	nabled passthrough cl	heckboxes have higher priority than			
IPSe	c	[ON						
РРТР		l	ON III						
L2TP		l	ON						
		l	Save	Cancel					

5.8 Bridge Mode Firewall

Security > Firewall > Firewall Rules > Bridge Firewall rules

When Bridge is the selected system routing mode, Layer 2 level firewall rules are available to manage network traffic. These firewall rules will be applied between the two ports that are part of the bridge: LAN1 and the WAN2/DMZ physical ports.

Bridge mode option is available on DSR-500 / 500N / 1000 / 1000N products only.

Figure 70: List of Configured Firewall Rules for the Bridge

🙆 Status	🛜 Wireless	💻 Network	A VPN	🔒 Security	🗘 Mai	ntenance			
ecurity » Firewall » Firewall Rules » Bridge Firewall Rules									
IPv4 Firewall Rules IPv6 Firewall Rules									
A firewall is a security mechanism to selectively block or allow certain types of traffic in accordance with rules specified by network administrators. You can use this page to manage the firewall rules that control traffic between interfaces of your Bridged network. The List of Bridge Firewall Rules table includes all firewall rules for the bridged network and allows several operations on the firewall rules.By default in bridge Mode, all access is allowed for Inbound and Outbound direction between the interfaces of the bridged network. Inbound Rules govern access from DMZ Port to the LAN Port1 interface. Oubound rules restrict access to traffic leaving your LAN Port1 interface. Firewall rules are applied in the order listed. As a general rule, you should move the strictest rules (those with the most specific services or addresses) to the top of the list. List of Bridge Firewall Rules									
Show 10 • entries	[Right click on record to	get more options]			(٩			
Status 🔓 Direction	⊖ ^{Service} ⊖	Action ↔ H	ource ⊖ De osts ⊖ Ho	stination sts ⊖	Source MAC ↔	Destination ⊖ MAC			
		No data a	vailable in table						
Showing 0 to 0 of 0 entries					🕅 First 🔄 Previ	ous Next 🕽 Last 刘			
Add New Bridge Firewall	Rule								

Firewall rules configured for the bridge will filter traffic based on protocol, outgoing range of ports and/or the incoming range of ports. The processing is at L2 and can apply either to the LAN1 port or the WAN2/DMZ port (not both).

Figure /1: bridge Firewall Kule configurati	ridge Firewall Rule confi	config	guratio
---	---------------------------	--------	---------

Custom Services Configuration		X
Name		
Туре	ТСР 🔻	
Port Type	Port Range O Multiple Ports	
Start Port	[Range: 0 - 65535]	
Finish Port	[Range: 0 - 65535]	
	Sav	e
L		

5.9 Application Rules

Security > Firewall > Dynamic Port Forwarding

Application rules are also referred to as port triggering. This feature allows devices on the LAN or DMZ to request one or more ports to be forwarded to them. Port triggering waits for an outbound request from the LAN/DMZ on one of the defined outgoing ports, and then opens an incoming port for that specified type of traffic. This can be thought of as a form of dynamic port forwarding while an application is transmitting data over the opened outgoing or incoming port(s).

Port triggering application rules are more flexible than static port forwarding that is an available option when configuring firewall rules. This is because a port triggering rule does not have to reference a specific LAN IP or IP range. As well ports are not left open when not in use, thereby providing a level of security that port forwarding does not offer.

> Port triggering is not appropriate for servers on the LAN, since there is a dependency on the LAN device making an outgoing connection before incoming ports are opened.

Some applications require that when external devices connect to them, they receive data on a specific port or range of ports in order to function properly. The router must send all incoming data for that application only on the required port or range of ports. The router has a list of common applications and games with corresponding outbound and inbound ports to open. You can also specify a port triggering rule by defining the type of traffic (TCP or UDP) and the range of incoming and outgoing ports to open when enabled.

Figure 72: List of Available Application Rules showing 4 unique rules

🙆 Status	🛜 Wireless	💻 Networ	k 🕼 VPN	Security	🗘 Mainten	ance
Security » Firewall » Dynamic	e Port Forwarding					0 0
Application Rules Appli	ication Rules Statu	s				
The table lists all the available	e port triggering ru	les and allows sever	al operations on the	rules.		
Application Rules List						
Show 10 • entries	[Right click on record	to get more options]				٩
Name ⊖ Status ⊖	Protocol \varTheta	Interface ⊖	Outgoing Start Port ⊖	Outgoing End Port ⊖	Incoming Start Port ↔	Incoming End Port ⊖
		No da	ata available in table			
Showing 0 to 0 of 0 entries					H First H Previous	Next 🔪 Last 刘
Add New Application Rul	e					
nd Countries Doutros DCD					FILLIWARS. 7.JUDU	
Application Rules Co	nfiguration					X
Application Rules Name						
Enable		OFF				
Protocol		🖲 тср 🛛 U	DP			
Interface		🖲 LAN 🔍 D	MZ			
Outgoing (Trigger) Pol Start Port	rt Range	[Range: 0 - 65535]			
То		[Range: 0 - 65535]			
Incoming (Response) F Start Port	Port Range	[]	Range: 0 - 65535]			
То		[Range: 0 - 65535]			
						Save

The application rule status page will list any active rules, i.e. incoming ports that are being triggered based on outbound requests from a defined outgoing port.

5.10 Web Content Filtering

The gateway offers some standard web filtering options to allow the admin to easily create internet access policies between the secure LAN and insecure WAN. Instead of creating policies based on the type of traffic (as is the case when using firewall rules), web based content itself can be used to determine if traffic is allowed or dropped.

5.10.1 Static Content Filtering

Security > Web Content Filter > Static Filtering

Content filtering must be enabled to configure and use the subsequent features (list of Trusted Domains, filtering on Blocked Keywords, etc.). Proxy servers, which can be used to circumvent certain firewall rules and thus a potential security gap, can be blocked for all LAN devices. Java applets can be prevented from being downloaded from internet sites, and similarly the gateway can prevent ActiveX controls from being downloaded via Internet Explorer. For added security cookies, which typically contain session information, can be blocked as well for all devices on the private network.

Figure 73: Content Filtering used to block access to proxy servers and prevent ActiveX controls from being downloaded

	🝘 Status	🛜 Wireless	💻 Network	🎧 VPN	Security	🌮 Maintenance			
Security >	• Web Content Filter	» Static Filtering					00		
			Operatio	on Succeeded					
Stati	c Filtering Appro	ved URL Blocked Ke	ywords						
This cont specified, Static F	This content filtering option allows the user to block access to certain Internet sites. Up to 32 key words in the site's name (web site URL) can be specified, which will block access to the site. To setup URLs, go to Approved URLs and Blocked Keywords page. Static Filtering								
Cont	ent Filtering		ON						
Web	Proxy		ON						
Java			ON						
Activ	еX		ON						
Brow	ser Cookies		ON						
			Save	Cancel					

5.10.2 Approved URLs

Security > Web Content Filter > Static Filtering > Approved URl

The Approved URLs is an acceptance list for all URL domain names. Domains added to this list are allowed in any form. For example, if the domain "yahoo" is added to this list then all of the following URL's are permitted access from the LAN: www.yahoo.com, yahoo.co.uk, etc. Import/export from a text or CSV file for Approved URLs is also supported

Figure 74: Two trusted domains added to the Approved URLs List

🐼 Status	🛜 Wireless	💻 Network	🚯 VPN	Security	🏈 Maintenance	
Security » Web Content Filter »	Static Filtering » App	proved URL				00
Static Filtering Approve	d URL Blocked Keyv	words				
This page displays the approved firewall rules or blocked keywo	I URLs. The list of wel rds.	bsites here are alway	s allowed to be ac	cessed, and have high	er priority than any conf	igured
Approved URLs List						
Show 10 • entries [F	Right click on record to g	get more options]				٩
URL		No. data au				÷
Showing 0 to 0 of 0 entries		NO DATA AV	alladie in table		First Previous Next >	Last 🖌
Add New Approved URL	Upload URLs Li	ist from File	xport URLs List t	o File		
Approved URLs Config	guration					X
URL	[www.dlink.com				
					S	ave

5.10.3 Blocked Keywords

Security > Web Content Filter > Static Filtering > Blocked Keywords

Keyword blocking allows you to block all website URL's or site content that contains the keywords in the configured list. This is lower priority than the Approved URL List; i.e. if the blocked keyword is present in a site allowed by a Trusted Domain in the Approved URL List, then access to that site will be allowed. Import/export from a text or CSV file for keyword blocking is also supported.

Figure 75: One keyword added to the block list

2 Status	🛜 Wireless	💻 Network	🚯 VPN	💂 Security	🌣 Maintenance			
Security » Web Content Filter »	» Static Filtering » Bl	ocked Keywords				00		
		Operatio	on Succeeded					
Static Filtering Approv	ed URL Blocked Key	words						
You can block access to websites by entering complete URLs or keywords. Keywords prevent access to websites that contain the specified characters in the URLs or the page contents. The table lists all the Blocked keywords and allows several operations on the keywords.								
Blocked All URL Configurati Block All URL	ion	OFF						
		Save	ancel					
Blocked Keywords List								
Show 10 🔻 entries	[Right click on record to	get more options]				٩		
Keyword			🔂 Status			⇔		
GUN			Enabled					
Showing 1 to 1 of 1 entries				K Firs	t d Previous 1 Next	Last 刘		
Add New Keyword	pload Keywords Lis	from File Expo	ort Keywords List	to File				

5.10.4 Export Web Filter

Security > Web Content Filter > Static Filtering > Approved URL

Export Approved URLs: Feature enables the user to export the URLs to be allowed to a .csv (comma-separated value) file which can then be downloaded to the local host. The user has to click the export button to get the csv file.

Export Blocked Keywords: This feature enables the user to export the keywords to be blocked to a csv file which can then be downloaded to the local host. The user has to click the export button to get the csv file.

Figure 76: Export Approved URL list

🝘 Status	🛜 Wireless	💻 Network	යි VPN	Security	🍄 Maintenance	
Security » Web Content Filter	» Static Filtering » Ap	pproved URL				0
Static Filtering Appro	ved URL Blocked Key	words				
This page displays the approv firewall rules or blocked keyv	ed URLs. The list of we words.	ebsites here are always	allowed to be ac	cessed, and have high	er priority than any conf	igured
Approved URLs List						
Show 10 • entries	[Right click on record to	get more options]				٩
URL						Û
		No data ava	ilable in table			
Showing 0 to 0 of 0 entries				M	First 🔄 Previous Next >	Last 刘
Add New Approved URL	Upload URLs I	ist from File	port URLs List to	o File		

5.10.5 Dynamic WCF

Security > Web Content Filter > Dynamic Filtering

Figure 77: Dynamic WCF

	Status	💻 Network	යි VPN		Security	🗘° Mainte	nance
ecurity » Web Content Filter »	Dynamic Filtering						0
his page displays the list of cate	egories to be blo	ocked.					
ynamic Filtering							
Adult	OFF	News		OFF	Job Search		OFF
Gambling	OFF	Travel/Tourism		OFF	Shopping		OFF
Entertainment	OFF	Chat Rooms/IMs	;	OFF	Dating Sites	5	OFF
Game Sites	OFF	Investment Site	s	OFF	E-Banking		OFF
Crime Terrorism	OFF	Personal Beliefs	Cults	OFF	Politics		OFF
Sports	OFF	www-E-Mail Site	s	OFF	Violence/U	ndesirable	OFF
Malicious	OFF	Search Sites		OFF	Health Site	s	OFF
Clubs and Societies	OFF	Music/Video		OFF	Business Or	riented	OFF
Government Blocking List	OFF	Educational		OFF	Advertising		OFF
Drugs/Alcohol	OFF	Computing/IT		OFF	Swimsuit/Li	ngerie/Models	OFF
Remote Control/Desktop	OFF						
		Save	Cancel				

This feature allows the administrator to block access from a range of web content categories. The router must be upgraded with the the WCF license and then the Content Filtering option, which allows the user to filter out internet sites, needs to be enabled.

The Dynamic Content Filtering configuration page will let the administrator choose from a range of pre-defined categories to be blocked. When enabled, access to a website belonging to one of these configured categories will be blocked with an error page.

- Adult Content: Sites that host explicit sex content, nudity and sites that use profanity.
- News: Sites that offer news and information on current events, including newspapers, broadcasters and other publishers.
- Job Search: Sites that offer job listings, interview coaching and other employment-related services.
- Gambling: Sites that offer online gambling or information about gambling.
- Travel/Tourism: Sites with travel and tourism information like city maps and services including planning trips, reservations for bus/train/airlines, hotel booking etc.
- Shopping: Online shops, catalogs, auction sites and classified ads etc.
- Entertainment: Websites for TV, movies, entertainment news etc. and sites hosting video content of movies, TV streaming etc.
- Chatrooms/IM: Social networking sites, chartrooms and instant messaging sites.
- Dating Sites: Online dating, matchmaking, relationship advice, personal ads and web pages related to marriage.
- Game Sites: Sites that offer online games, MORPG and information about computer games, cheat codes etc.
- Investment Sites: Sites for brokerages, trusts, insurance and other investments related organizations.
- E-banking: Sites providing online banking services offered by financial institutions
- Crime/Terrorism: Sites providing information on anti-social activities like murder, sabotage, bombing etc.
- Personal Beliefs/Cults: Sites about religion, places of worship, religious groups, and occultism.

- Politics: Sites about politics, elections and legislation and sites that promote a politician or political party.
- Sports: Sites about sports teams, fan clubs, and generally about all kinds of sports.
- www Email Sites: Websites that allow users to send and/or receive email through a web accessible email account.

5.11 IP/MAC Binding

Network > LAN > LAN DHCP Reserved IPs

Another available security measure is to only allow outbound traffic (from the LAN to WAN) when the LAN node has an IP address matching the MAC address bound to it. This is IP/MAC Binding, and by enforcing the gateway to validate the source traffic's IP address with the unique MAC Address of the configured LAN node, the administrator can ensure traffic from that IP address is not spoofed. In the event of a violation (i.e. the traffic's source IP address doesn't match up with the expected MAC address having the same IP address) the packets will be dropped and can be logged for diagnosis.

Figure 78: The following example binds a LAN host's MAC Address to an IP address served by DSR. If there is an IP/MAC Binding

violation, the violating packet will be dropped and logs will be captured

🕜 Status	🛜 Wireless	📮 Network	🚯 VPN	Security	ô Maintenance				
letwork » LAN » LAN DHCP Reserved IPs									
LAN DHCP Reserved IPs	List								
Show 10 entries	[Right click on record	to get more options]				٩			
Host Name	÷ I	MAC Address		⊖ IP Addre	55	⇔			
		No data av	ailable in table						
Showing 0 to 0 of 0 entries				K	First 🔄 Previous Next 🕻	Last 刘			
Add New DHCP Reserve	ed IP								
LAN DHCP Reserved	IP Configuratio	n				X			
Host Name		test-ipmac1							
IP Address		97.0.0.8							
MAC Address		00:11:AA:22:33:BB							
Associate with		ON III							
IP /MAC Binding									
					S	ave			

5.12 Intrusion Prevention (IPS)

Security > Firewall > IPs

The gateway's Intrusion Prevention System (IPS) prevents malicious attacks from the internet from accessing the private network. Static attack signatures loaded to the DSR allow common attacks to be detected and prevented. The checks can be enabled between the WAN and DMZ or LAN, and a running counter will allow the administrator to see how many malicious intrusion attempts from the WAN have been detected and prevented.

DSR-150/150N does not support Intrusion Prevention System.

Figure 79: Intrusion Prevention features on the router

🕜 Status	🛜 Wireless	📃 Network	යි VPN	Security	🍄 Maintenance	
Security » Firewall » IPS						00
This page allows user to con	figure Intrusion Detect	ion System and Intrusi	on Preventions sys	tem on the router.		
IPS						
Intrusion Detection/Pre	evention Enable					
Enable Intrusion Detect	tion	OFF				
Enable Intrusion Preven	tion	OFF				
IPS Checks Active Betwe	een					
LAN and WAN		OFF				
IPS Status						
Number of Signatures L	oaded ()				
		Save	Cancel			

5.13 Protecting from Internet Attacks

Security > Firewall > Attack Checks

Attacks can be malicious security breaches or unintentional network issues that render the router unusable. Attack checks allow you to manage WAN security threats such as continual ping requests and discovery via ARP scans. TCP and UDP flood attack checks can be enabled to manage extreme usage of WAN resources.

Additionally certain Denial-of-Service (DoS) attacks can be blocked. These attacks, if uninhibited, can use up processing power and bandwidth and prevent regular network services from running normally. ICMP packet flooding, SYN traffic flooding, and Echo storm thresholds can be configured to temporarily suspect traffic from the offending source.

Figure 80: Protecting the router and LAN from internet attacks

🝘 Status	🛜 Wireless	💻 Networl	< 🏠 VPN	Security	🍄 Maintenance			
iecurity » Firewall » Attack Checks								
This page allows you to specify	whether or not to p	rotect against co	mmon attacks from th	e LAN and WAN networ	ks.			
Attack Checks								
WAN Security Checks Stealth Mode Block TCP Flood		он Ш						
LAN Security Checks Block UDP Flood	[OFF						
ICSA Settings Block ICMP Notification		ON						
Block Fragmented Packets Block Multicast Packets	· [OFF OFF						
Block Spoofed IP Packets	[OFF						
DoS Attacks SYN Flood Detect Rate	[128 [Ran	ge:1 - 10000] max/sec					
Echo Storm		15 [Ran	ge: 1 - 10000] Ping pkts./s	ec				
ICMP Flood		100 [Ran	ge: 1 - 10000] ICMP pkts./:	sec				
		Save	Cancel					

WAN Security Checks:

Enable Stealth Mode: If Stealth Mode is enabled, the router will not respond to port scans from the WAN. This makes it less susceptible to discovery and attacks.

Block TCP Flood: If this option is enabled, the router will drop all invalid TCP packets and be protected from a SYN flood attack.

LAN Security Checks:

Block UDP Flood: If this option is enabled, the router will not accept more than 20 simultaneous, active UDP connections from a single computer on the LAN.

UDP Connection Limit: You can set the number of simultaneous active UDP connections to be accepted from a single computer on the LAN; the default is 25

ICSA Settings:

Block ICMP Notification: selecting this prevents ICMP packets from being identified as such. ICMP packets, if identified, can be captured and used in a Ping (ICMP) flood DoS attack.

Block Fragmented Packets: selecting this option drops any fragmented packets through or to the gateway

Block Multicast Packets: selecting this option drops multicast packets, which could indicate a spoof attack, through or to the gateway.

DoS Attacks:

SYN Flood Detect Rate (max/sec): The rate at which the SYN Flood can be detected.

Echo Storm (ping pkts/sec): The number of ping packets per second at which the router detects an Echo storm attack from the WAN and prevents further ping traffic from that external address.

ICMP Flood (ICMP pkts/sec): The number of ICMP packets per second at which the router detects an ICMP flood attack from the WAN and prevents further ICMP traffic from that external address.

The ping on LAN interfaces is enabled in default. To disable the ping response from LAN hosts to the LAN/WAN port of the device uncheck the "Allow Ping from LAN" option.

5.14 IGMP Proxy to manage multicast traffic

Network > *LAN* > *IGMP Setup*

IGMP snooping allows the router to 'listen' in on IGMP network traffic through the router. This then allows the router to filter multicast traffic and direct this only to hosts that need this stream. This is helpful when there is a lot of multicast traffic on the network (say from an IPTV application) where all LAN hosts do not need to receive this multicast traffic. Enabling IGMP snooping allows the router to regulate the amount of multicast traffic on the network, to prevent flooding all LAN hosts. Active IGMP snooping is referred to IGMP Proxy, and this is available on your router.

Figure 81: Enabling IGMP Proxy for the LAN

🙆 Status	🛜 Wireless	📃 Network	යි VPN	🙍 Security	©° Maintenance					
Network » LAN » IGMP Setup										
The IGMP Proxy page allows the user to enable IGMP proxy on a LAN interface.This is known as active IGMP snooping, and lets the router listen in on IGMP network traffic. The router filters multicast traffic through the router and is used to prevent LAN hosts from receiving traffic from a multicast group that they have not explicitly joined. IGMP Setup										
IGMP Setup IGMP Proxy	I	ON								
		Save	Cancel							

Enable IGMP Proxy: selecting this allows the router to listen in on IGMP traffic through the network, and manage multicast streams bound for the LAN

In the event that aWAN uses Russia Dual Access PPTP / L2TP connection, the outbound interface for IGMP traffic can be selected. Either the physical link (DHCP) or the PPP link (PPTP / L2TP) can be designated to carry IGMP outbound traffic. This applies to any WAN that uses Russia Dual Access PPTP, which is set at based on the WAN configuration. This setting is specific for Russia Dual Access ISPs where streaming services are run on the physical links only.

Chapter 6. IPsec / PPTP / L2TP VPN

A VPN provides a secure communication channel ("tunnel") between two gateway routers or a remote PC client. The following types of tunnels can be created:

- Gateway-to-gateway VPN: to connect two or more routers to secure traffic between remote sites.
- Remote Client (client-to-gateway VPN tunnel): A remote client initiates a VPN tunnel as the IP address of the remote PC client is not known in advance. The gateway in this case acts as a responder.
- Remote client behind a NAT router: The client has a dynamic IP address and is behind a NAT Router. The remote PC client at the NAT router initiates a VPN tunnel as the IP address of the remote NAT router is not known in advance. The gateway WAN port acts as responder.
- PPTP server for LAN / WAN PPTP client connections.
- L2TP server for LAN / WAN L2TP client connections.





Figure 83: Example of three IPsec client connections to the internal network through the DSR IPsec gateway



6.1 VPN Wizard

Setup > Wizard > VPN Wizard

You can use the VPN wizard to quickly create both IKE and VPN policies. Once the IKE or VPN policy is created, you can modify it as required.

Figure 84: VPN Wizard launch screen



To easily establish a VPN tunnel using VPN Wizard, follow the steps below:

- 1. Select the VPN tunnel type to create
- The tunnel can either be a gateway to gateway connection (site-to-site) or a tunnel to a host on the internet (remote access).
- Set the Connection Name and pre-shared key: the connection name is used for management, and the pre-shared key will be required on the VPN client or gateway to establish the tunnel. The pre-shared key has a maximum length of 64 digits.
- Determine the local gateway for this tunnel; if there is more than one WAN configured the tunnel can be configured for either of the gateways.
 - 2. Configure Remote and Local WAN address for the tunnel endpoints
- Remote Gateway Type: identify the remote endpoint of the tunnel by FQDN or static IP address
- Remote WAN IP address / FQDN: This field is enabled only if the peer you are trying to connect to is a Gateway. For VPN Clients, this IP address or Internet Name is determined when a connection request is received from a client.
- Local Gateway Type: identify this router's endpoint of the tunnel by FQDN or static IP address
- Local WAN IP address / FQDN: This field can be left blank if you are not using a different FQDN or IP address than the one specified in the WAN port's configuration.

- **3.** Configure the Secure Connection Remote Accessibility fields to identify the remote network:
- Remote LAN IP address: address of the LAN behind the peer gateway
- Remote LAN Subnet Mask: the subnet mask of the LAN behind the peer
 - Note: The IP address range used on the remote LAN must be different from the IP address range used on the local LAN.
 - 4. Review the settings and click Connect to establish the tunnel.

The Wizard will create an Auto IPsec policy with the following default values for a VPN Client or Gateway policy (these can be accessed from a link on the Wizard page):

Parameter	Default value from Wizard
Exchange Mode	Aggressive (Client policy) or Main (Gateway policy)
ID Type	FQDN
Local WAN ID	wan_local.com (only applies to Client policies)
Remote WAN ID	wan_remote.com (only applies to Client policies)
Encryption Algorithm	3DES
Authentication Algorithm	SHA-1
Authentication Method	Pre-shared Key (max 64 digits)
PFS Key-Group	DH-Group 2(1024 bit)
Life Time (Phase 1)	24 hours
Life Time (Phase 2)	8 hours
NETBIOS	Enabled (only applies to Gateway policies)

The VPN Wizard is the recommended method to set up an Auto IPsec policy. Once the Wizard creates the matching IKE and VPN policies required by the Auto policy, one can modify the required fields through the edit link. Refer to the online help for details.

Easy Setup Site to Site VPN Tunnel:

If you find it difficult to configure VPN policies through VPN wizard use easy setup site to site VPN tunnel. This will add VPN policies by importing a file containing VPN policies.

6.2 Configuring IPsec Policies

VPN > IPSec VPN > Policies

An IPsec policy is between this router and another gateway or this router and an IPsec client on a remote host. The IPsec mode can be either tunnel or transport depending on the network being traversed between the two policy endpoints.

- Transport: This is used for end-to-end communication between this router and the tunnel endpoint, either another IPsec gateway or an IPsec VPN client on a host. Only the data payload is encrypted and the IP header is not modified or encrypted.
- Tunnel: This mode is used for network-to-network IPsec tunnels where this gateway is one endpoint of the tunnel. In this mode the entire IP packet including the header is encrypted and/or authenticated.

When tunnel mode is selected, you can enable NetBIOS and DHCP over IPsec. DHCP over IPsec allows this router to serve IP leases to hosts on the remote LAN. As well in this mode you can define the single IP address, range of IPs, or subnet on both the local and remote private networks that can communicate over the tunnel.

Figure 85: IPsec policy configuration

	æ	Status		🛜 Wireless		💻 Netv	work	ക	VPN		Security	¢	⁹ Mainten	ance		
VPN » I	PSec VPN →	» Policies													?	0
This page policies	e shows th from this (ne list of o page.	onfig	ured IPsec VPN	policie	es on the	router. A	user can	also a	dd, delete	, edit, enat	ole, disab	le and exp	ort IP:	ec VPN	
IPSec P	Policies	List														
Show 1	0 v en	ntries	[Rig	ht click on record	to get	more optic	ons]							-		٩
Status	÷	Name	÷	Backup Tunnel	÷ .	Туре	⇒ IPSeMod	ec le é	Loo	cal ⊖	Remote	÷	Auth	÷	Encr	÷
				Name		1	√o data ava	ilable in ta	ole							
Showing	0 to 0 of 0	entries										First	Previous	Next	Last	
Add M Backup	New IPSe	c Policy s List														
Show 1	0 v en	ntries												_	_	٩
Status	¢	Name	e	Primary Tunnel	⇔	Туре	⊖ IPS	ec de (Lo	cal ⊖	Remote	⇔	Auth	÷	Encr	•
				Name		1	No data ava	ilable in ta	ole							
Showing	0 to 0 of 0	entries										🖌 First 🕔	Previous	Next	> Last	
IPSec	: Policy	Config	urat	ion												x
Gene Pol Pol IP I IKE IPS Sel Ren IP J Ena	ral icy Name icy Type Protocol Version ec Mode ect Loca note End Address / ble Mode	Version L Gatewa point / FQDN e Config SIOS	у		Aut IPv4 IKE1 Tun Ded	o Policy 4 v1 nel Mode licated W/ kddress OFF OFF	AN									•
															Save	

Unified Services Router

IPSec Policy Configuration		8
Enable NetBIOS	OFF	•
Enable RollOver	OFF	
Protocol	ESP 🔻	
Enable DHCP	OFF	
Local IP	Subnet 🔻	
Local Start IP Address		
Local Subnet Mask		
Remote IP	Subnet 🔻	
Remote Start IP Address		
Remote Subnet Mask		
Enable Keepalive	OFF	
Phase1(IKE SA Parameters)		•
		Save

Once the tunnel type and endpoints of the tunnel are defined you can determine the Phase 1 / Phase 2 negotiation to use for the tunnel. This is covered in the IPsec mode setting, as the policy can be Manual or Auto. For Auto policies, the Internet Key Exchange (IKE) protocol dynamically exchanges keys between two IPsec hosts. The Phase 1 IKE parameters are used to define the tunnel's security association details. The Phase 2 Auto policy parameters cover the security association lifetime and encryption/authentication details of the phase 2 key negotiation.

The VPN policy is one half of the IKE/VPN policy pair required to establish an Auto IPsec VPN tunnel. The IP addresses of the machine or machines on the two VPN endpoints are configured here, along with the policy parameters required to secure the tunnel
IPSec Policy Configuration					×
Phase1(IKE SA Parameters)					*
Exchange Mode	Main		•		
Direction / Type	Both		•		
Nat Traversal	ON 111				
NAT Keep Alive Frequency	20		Seconds		_
Local Identifier Type	Local Wa	n IP	•		
Remote Identifier Type	Remote W	/an IP	•		
Encryption Algorithm					
DES	OFF	3 DE S		OFF	
AES - 128	ON	AES-192		OFF	
AES-256	OFF				
BLOWFISH	OFF				
0.07100					*
					Save

Figure 86: IPsec policy configuration continued (Auto policy via IKE)

A Manual policy does not use IKE and instead relies on manual keying to exchange authentication parameters between the two IPsec hosts. The incoming and outgoing security parameter index (SPI) values must be mirrored on the remote tunnel endpoint. As well the encryption and integrity algorithms and keys must match on the remote IPsec host exactly in order for the tunnel to establish successfully. Note that using Auto policies with IKE are preferred as in some IPsec implementations the SPI (security parameter index) values require conversion at each endpoint.

DSR supports VPN roll-over feature. This means that policies configured on primary WAN will rollover to the secondary WAN in case of a link failure on a primary WAN. This feature can be used only if your WAN is configured in Auto-Rollover mode.

IPSec Policy Configuration				×
Phase2-(Auto Policy Parameter SA Lifetime	3600	Seconds V		^
Encryption Algorithm				
DES	OFF	NONE	OFF	
3DE S	OFF	AES-128	ON	
AES-192	OFF	AES-256	OFF	
TWOFISH (128)	OFF	TWOFISH (192)	OFF	
TWOFISH (256)	OFF			
BLOWFISH	OFF			
CAST128	OFF			
Integrity Algorithm MD5	OFF	SHA-1		
				Save
Integrity Algorithm				
MD5	OFF	SHA-1		
SHA2-224	OFF	SHA2-256	OFF	
SHA2-384	OFF	SHA2-512	OFF	
PFS Key Group	OFF			Ţ
				Save

Figure 87: IPsec policy configuration continued (Auto / Manual Phase 2)

6.2.1 Extended Authentication (XAUTH)

You can also configure extended authentication (XAUTH). Rather than configure a unique VPN policy for each user, you can configure the VPN gateway router to authenticate users from a stored list of user accounts or with an external authentication server such as a RADIUS server. With a user database, user accounts created in the router are used to authenticate users.

With a configured RADIUS server, the router connects to a RADIUS server and passes to it the credentials that it receives from the VPN client. You can secure the connection between the router and the RADIUS server with the authentication protocol supported by the server (PAP or CHAP). For RADIUS – PAP, the router first checks in the user database to see if the user credentials are available; if they are not, the router connects to the RADIUS server.

6.2.2 Internet over IPsec tunnel

In this feature all the traffic will pass through the VPN Tunnel and from the Remote Gateway the packet will be routed to Internet. On the remote gateway side, the outgoing packet will be SNAT'ed.

6.3 Configuring VPN clients

Remote VPN clients must be configured with the same VPN policy parameters used in the VPN tunnel that the client wishes to use: encryption, authentication, life time, and PFS key-group. Upon establishing these authentication parameters, the VPN Client user database must also be populated with an account to give a user access to the tunnel.

> VPN client software is required to establish a VPN tunnel between the router and remote endpoint. Open source software (such as OpenVPN or Openswan) as well as Microsoft IPsec VPN software can be configured with the required IKE policy parameters to establish an IPsec VPN tunnel. Refer to the client software guide for detailed instructions on setup as well as the router's online help.

The user database contains the list of VPN user accounts that are authorized to use a given VPN tunnel. Alternatively VPN tunnel users can be authenticated using a configured RADIUS database. Refer to the online help to determine how to populate the user database and/or configure RADIUS authentication.

6.4 PPTP / L2TP Tunnels

This router supports VPN tunnels from either PPTP or L2TP ISP servers. The router acts as a broker device to allow the ISP's server to create a TCP control connection between the LAN VPN client and the VPN server.

6.4.1 PPTP Tunnel Support

VPN > PPTP VPN > Client

PPTP VPN Client can be configured on this router. Using this client we can access remote network which is local to PPTP server. Once client is enabled, the user can access VPN > PPTP VPN > Active Users page and establish PPTP VPN tunnel clicking Connect. To disconnect the tunnel, click Drop.

Figure 88: PPTP tunnel configuration – PPTP Client

🖓 Status 🛜 Wireless	🖳 Network	A VPN	Security	🐡 Maintenance	
VPN » PPTP VPN » Client					? Ø
PPTP VPN Client can be configured on this router	. Using this client we can ac	cess remote ne	twork which is local	to PPTP server.	
PPTP Client					
Client	ON				
Server IP	0.0.0.0				
Remote Network	0.0.0.0				
Remote Netmask	0 [Range: 0 - 32]				
Username	dlink				
Password	•••••				
Mppe Encryption	OFF				
Idle Time Out	0 [Range: 300 - 18	00] Seconds			
Auto Dial	OFF				
	Save Cano	el			

Figure 89: PPTP VPN connection status

	🗥 Status	🛜 Wireless	💻 Network	r vpn	🔒 Securi	ty 🗘	• Maintenance		
VPN » P	PN » PPTP VPN » Active Users								
Active PP	ctive PPTP tunnels connections are listed here, as LAN VPN clients are active PPTP users.								
PPTP A	PPTP Active Users List								
Show 1	entries	[No right click options]						٩	
User N	ame	ć	Remote IP		⇔	PPTP IP		⇔	
			No data ava	ailable in table					
Showing	0 to 0 of 0 entries					First	Previous Next	Last 刘	

VPN > PPTP VPN > Server

A PPTP VPN can be established through this router. Once enabled a PPTP server is available on the router for LAN and WAN PPTP client users to access. Once the PPTP server is enabled, PPTP clients that are within the range of configured IP addresses of allowed clients can reach the router's PPTP server. Once authenticated by the PPTP server (the tunnel endpoint), PPTP clients have access to the network managed by the router.

The range of IP addresses allocated to PPTP clients can coincide with the LAN subnet. As well the PPTP server will default to local PPTP user authentication, but can be configured to employ an external authentication server should one be configured.

Figure 90: PPTP tunnel configuration – PPTP Server

🖓 Status 🛜 Wireless	Network	🚯 VPN	Security	ô Maintenance	
VPN » PPTP VPN » Server					00
PPTP allows an external user to connect to your range of IP addresses for clients connecting to yo with LAN hosts, access any servers present etc. PPTP Server	router through the interr our router. The connecte	net. This section d clients can fun	allows you to enable/ ction as if they are or	disable PPTP server and c your LAN (they can com	define a umunicate
Server Setup Enable PPTP Server PPTP Routing Mode	Enable IPv4 Nat O Classical	T			
Range of IP Addresses (Allocated to PPTP Starting IP Address	Clients)				
Ending IP Address					
Authentication Database Authentication	Local User Database	T			
Authentication Supported PAP	OFF				
СНАР	OFF				
MS-CHAP	OFF				
MS-CHAPv2	OFF				
User Time-out	0 0000000000000000000000000000000000000	1900] C			
	V [Kange: 300	J - 1800] Seconds			
Netbios Setup Netbios	OFF				
	Save C	ancel			

6.4.2 L2TP Tunnel Support

VPN > L2TP VPN > Server

A L2TP VPN can be established through this router. Once enabled a L2TP server is available on the router for LAN and WAN L2TP client users to access. Once the L2TP server is enabled, L2TP clients that are within the range of configured IP addresses of allowed clients can reach the router's L2TP server. Once authenticated by the L2TP server (the tunnel endpoint), L2TP clients have access to the network managed by the router.

Figure 91: L2TP tunnel configuration – L2TP Server

🙆 Status 🛜 Wirele	ess 📃 Network	ഹ്ര vpn	Security	O Maintenance	
VPN » L2TP VPN » Server					00
L2TP allows an external user to connect to y and define a range of IP addresses for client: communicate with LAN hosts, access any serv L2TP Server	rour router through the inter s connecting to your router. vers present etc.).	net, forming a VPN The connected cli	I. This section allows ients can function as	you to enable/disable L2 ⁻ if they are on your LAN (TP server they can
Server Setup					
Enable L2TP Server	Enable IPv4	•			
L2TP Routing Mode	🖲 Nat 🔍 Classical				
Range of IP Addresses (Allocated to L Starting IP Address	2TP Clients)				
Ending IP Address					
Authentication Database Authentication	Local User Database	•			
Authentication Supported PAP	OFF				
СНАР	OFF				
MS-CHAP	OFF				
MS-CHAPv2	OFF				
Encryption					
Secret Key	OFF				
User Time-out					
Idle TimeOut	0 [Range: 3	00 - 1800] Seconds			
	Save	Cancel			

Unified Services Router

😰 Status	🛜 Wireless	💻 Network	୍ଦ୍ରେ VPN	盈 Security	Maintenance	
VPN » L2TP VPN » Server					(20
L2TP allows an external user t and define a range of IP addre communicate with LAN hosts, L2TP Server	o connect to your ro isses for clients conn access any servers pi	outer through the i ecting to your rou resent etc.).	nternet, forming a VF ter. The connected (PN. This section allows clients can function as	you to enable/disable L2TP if they are on your LAN (th	server ey can
Server Setup Enable L2TP Server		Enable IPv6	T			
L2TP Routing Mode		🖲 Nat 🔍 Class	ical			
Range of IP Addresses (A Starting IP Address	Allocated to L2TP (lients)				
Ending IP Address						
IPv6 Prefix IPv6 Prefix						
IPv6 Prefix Length		admin [Ran	ge: 0 - 128]			
Authentication Database Authentication	2	Local User Databas	• ▼			
Authentication Supporte PAP	ed	OFF				
СНАР		OFF				
MS-CHAP		OFF				
MS-CHAPv2		OFF				
Encryption Secret Key		OFF				
User Time-out Idle TimeOut		0 [Ran	ge: 300 - 1800] Seconds			
		Save	Cancel			

VPN > L2TP VPN > Client

A L2TP VPN Client can be configured on this router. Using this client we can access remote network which are local to the L2TP server. Once the client is enabled, the user can access Status > Active VPN page and establish L2TP VPN tunnel clicking Connect. To disconnect the tunnel, click Drop.

A L2TP VPN can be established through this router. Once enabled a L2TP server is available on the router for LAN and WAN L2TP client users to access. Once the L2TP server is enabled, L2TP clients that are configured with the remote L2TP network server range (IP address and Netmask) can reach an endpoint router's L2TP

server. Once authenticated by the L2TP server (the tunnel endpoint), L2TP clients have access to the local network managed by the router.

Figure 92: L2TP tunnel configuration – L2TP Client

C Status	🛜 Wireless	💻 Network	A VPN	🔒 Security	Maintenance	
VPN » L2TP VPN » Client						00
L2TP VPN Client can be conf	igured on this router.	Using this client we c	an access remote i	network which is local	to L2TP server.	
L2TP Client						
Client		ON				
Server IP	[0.0.0.0				
Remote Network	[0.0.0.0				
Remote Netmask	[0 [Range: () - 32]			
Username	[dlink				
Password	[•••••				
Reconnect Mode		● Always On ○ On	Demand			
Enable MPPE		OFF				
Auto Dial		OFF				
		Save	Cancel			

6.5 GRE Tunnel Support

VPN > GRE > GRE Tunnels

GRE tunnels allow for broadcast traffic on the LAN of the router to be passed over the internet and received by remote LAN hosts. This is primarily useful in the D-Link Discovery Protocol (DDP) application where broadcast traffic from one LAN host is to be received by all LAN hosts in the local subnets of the GRE endpoints.

- 🖎 DSR-150/150N:
- 🖎 DSR-500/500N: 15

5

There are two simple steps involved in establishing a GRE tunnel on the router:

- 1. Create a GRE tunnel from the GUI
- 2. Setup a static route for the remote local networks using the GRE tunnel

Figure 93: GRE Tunnel configuration

🙆 Status	🛜 Wireless	💻 Network	යි VPN	Security	🔅 Maintenance	
VPN » GRE » GRE Tunnels						00
This page allows user to add/	edit GRE tunnel config	uration.				
GRE Tunnels List						
Show 10 • entries	[Right click on record to	get more options]				٩
Tunnel Name		🔂 Interface		⊖ Remote I	P	÷
		No data ava	ailable in table			
Showing 0 to 0 of 0 entries				И	First 🔄 Previous Next 💡	Last 刘
Add New GRE Tunnel						
GRE Tunnels Configur	ration					X
GRE Tunnel Name						
IP Address						
Subnet Mask						
Interface		WAN1	T			
Remote End Address						
Enable DDP Broadcast		OFF				
Static Route Configure IP Address	ation					
Subnet Mask						
Gateway IP Address						
					Sa	ive

When creating the GRE tunnel, the IP Address should be a unique address that identifies that GRE tunnel endpoint. It will be referenced in the other router's static route as the Gateway IP address. The Remote End Address in the GRE tunnel configuration page is the WAN IP address of the other endpoint router.

Once the tunnel is established, a static route on the router can be made using the interface set to the configured GRE tunnel name. The destination IP address of the static route is the remote LAN subnet, and the route's gateway IP address will be the

GRE tunnel IP of the terminating router (the same router that manages the remote LAN subnet). Once these two steps are completed, all DDP broadcast traffic can flow between remote LAN subnets via the GRE Tunnel.

6.6 **OpenVPN Support**

VPN > Open VPN > Settings

OpenVPN allows peers to authenticate each other using a pre-shared secret key, certificates, or username/password. When used in a multiclient-server configuration, it allows the server to release an authentication certificate for every client, using signature and Certificate authority. An Open VPN can be established through this router. Check/Uncheck this and click save settings to start/stop the OpenVPN server.

- Mode: OpenVPN daemon mode. It can run in server mode, client mode or access server client mode. In access server client mode, the user has to download the auto login profile from the OpenVPN Access Server and upload the same to connect.
- Server IP: OpenVPN server IP address to which the client connects (applicable in client mode).
- VPN Network: Address of the Virtual Network.
- VPN Netmask: Netmask of the Virtual Network.
- Port: The port number on which OpenVPN server (or Access Server) runs.
- Tunnel Protocol: The protocol used to communicate with the remote host. Ex: TCP, UDP. UDP is the default.
- Encryption Algorithm: The cipher with which the packets are encrypted. Ex: BF-CBC, AES-128, AES-192 and AES-256. BF-CBC is the default
- Hash algorithm: Message digest algorithm used to authenticate packets. Ex: SHA1, SHA256 and SHA512. SHA1 is the default.
- Tunnel Type: Select Full Tunnel to redirect all the traffic through the tunnel. Select Split Tunnel to redirect traffic to specified resources (added via OpenVPN client routes) through the tunnel. Full Tunnel is the default.
- Enable Client to Client communication: Enable this to allow OpenVPN clients to communicate with each other in split tunnel case. Disabled by default.
- Upload Access Server Client Configuration: The user has to download the auto login profile and upload here to connect this router to the OpenVPN Access Server.
- Certificates: Select the set of certificates OpenVPN server uses. First Row: Set of certificates and keys the server uses. Second Row: Set of certificates and keys newly uploaded.
- Enable TLS Authentication Key: Enabling this adds TLS authentication which adds an additional layer of authentication. Can be checked only when the TLS key is uploaded. Disabled by default.

Click Save Settings to save the settings.

Figure 94: OpenVPN configuration

penven settings				
OpenVPN		ON		
Mode		Server O Client O	Access Server Client	
VPN Network		128.10.0.0		
VPN Netmask		255.255.0.0		
Port		1194 [Default: 1194, R	ange: 1024 - 65535]	
Tunnel Protocol		◯ TCP		
Encryption Algorithm		BF-CBC V		
Hash Algorithm		SHA1 V		
Tunnel Type		● Full Tunnel ○ Split Te	unnel	
Certificates				
CA Subject Name	Server / Client	Cert Subject Name	Server / Client Key Uploaded	Dh Key Uploaded
Enable Tls Authentication	Kev			
Enable Tls Authentication	Key	Disabled		
		Save Cance	el	

6.6.1 OpenVPN Remote Network

VPN > Open VPN > Remote Networks

This page allows the user to add/edit a remote network and netmask which allows the other OpenVPN clients to reach this network.

OpenVPN Remote Network Configur	ation		X
Common Name	DHQ]	
Remote Network	192.168.10.111]	
Subnet Mask	255.255.255.0]	
			Save
~			

Figure 95: OpenVPN Remote Network

Common Name: Common Name of the OpenVPN client certificate.

Remote Network: Network address of the remote resource.

Subnet Mask: Netmask of the remote resource.

6.6.2 **OpenVPN** Authentication

VPN > Open VPN > Authentication

This page allows the user to upload required certificates and keys.

Figure 96: OpenVPN Authentication

	🝘 Status	🛜 Wireless	💻 Network	🎧 VPN	Security	O Maintenance	
VPN » Op	enVPN » Authentica	ation				(00
Openvpn p	provides authentica	tion using certificates	. This page allows you t	o upload required	l certificates and keys	s which are in pem format.	
OpenVPI	N Authentication	n					
Truste Certif	d Certificate (CA ficate Status	Certificate)	No				
Brow	se Certificate File		Choose File No file chose	n			
			Upload				
Server Certi	/ Client Certifico ficate Status	ite	No				
Brow	se Certificate File		Choose File No file chose	n			
			Upload				
Server Key S	/ Client Key itatus		No				
Brow	se Key File		Choose File No file chose	n			
			Upload				
DH Key Key S	, itatus		No				
Brow	se Key File		Choose File No file chose	n			
			Upload				
Tls Aut Key S	thentication Key		No				
Brow	se Key File		Choose File No file chose	n			
			Upload				

Trusted Certificate (CA Certificate): Browse and upload the pem formatted CA Certificate.

Server/Client Certificate: Browse and upload the pem formatted Server/Client Certificate.

Server/Client Key: Browse and upload the pem formatted Server/Client Key.

DH Key: Browse and upload the pem formatted Diffie Hellman Key.

TLS Authentication Key: Browse and upload the pem formatted TLS Authentication Key.

Chapter 7. SSL VPN

The router provides an intrinsic SSL VPN feature as an alternate to the standard IPsec VPN. SSL VPN differs from IPsec VPN mainly by removing the requirement of a preinstalled VPN client on the remote host. Instead, users can securely login through the SSL User Portal using a standard web browser and receive access to configured network resources within the corporate LAN. The router supports multiple concurrent sessions to allow remote users to access the LAN over an encrypted link through a customizable user portal interface, and each SSL VPN user can be assigned unique privileges and network resource access levels.

The remote user can be provided different options for SSL service through this router:

- VPN Tunnel: The remote user's SSL enabled browser is used in place of a VPN client on the remote host to establish a secure VPN tunnel. A SSL VPN client (Active-X or Java based) is installed in the remote host to allow the client to join the corporate LAN with pre-configured access/policy privileges. At this point a virtual network interface is created on the user's host and this will be assigned an IP address and DNS server address from the router. Once established, the host machine can access allocated network resources.
- **Port Forwarding**: A web-based (ActiveX or Java) client is installed on the client machine again. Note that Port Forwarding service only supports TCP connections between the remote user and the router. The router administrator can define specific services or applications that are available to remote port forwarding users instead of access to the full LAN like the VPN tunnel.

ActiveX clients are used when the remote user accesses the portal using the Internet Explorer browser. The Java client is used for other browsers like Mozilla Firefox, Netscape Navigator, Google Chrome, and Apple Safari.



Figure 97: Example of clientless SSL VPN connections to the DSR

7.1 Groups and Users

Security > Authentication > User Database > Groups

The group page allows creating, editing and deleting groups. The groups are associated to set of user types. The lists of available groups are displayed in the "List of Group" page with Group name and description of group.

- Click Add to create a group.
- Click Edit to update an existing group.
- Click Delete to clear an existing group.

Figure 98: List of groups

	😰 Status	🛜 Wireless	💻 Network	A VPN	🔒 Security	🌻 Maintenance	
Security >	 Authentication >> 	User Database » Groups					00
Get	Jser DB Groups	Users					
This page	shows the list of a	dded groups to the rou	ter. The user can add,	delete and edit	the groups also.		
Groups	List						
Show 10	entries	[Right click on record to	get more options]				٩
Group	Name		÷	Description			÷
ADMIN				Admin Group			
GUEST				Guest Group			
Showing	1 to 2 of 2 entries				H Fir	st Previous 1 Next >	Last 刘

Group configuration page allows creating a group with a different type of users. The user types are as follows:

- PPTP User: These are PPTP VPN tunnel LAN users that can establish a tunnel with the PPTP server on the WAN.
- L2TP User: These are L2TP VPN tunnel LAN users that can establish a tunnel with the L2TP server on the WAN.
- Xauth User: This user's authentication is performed by an externally configured RADIUS or other Enterprise server. It is not part of the local user database.
- SSLVPN User: This user has access to the SSL VPN services as determined by the group policies and authentication domain of which it is a member. The domain-determined SSL VPN portal will be displayed when logging in with this user type.
- Admin: This is the router's super-user, and can manage the router, use SSL VPN to access network resources, and login to L2TP/PPTP servers on the WAN. There will always be one default administrator user for the GUI

- Guest User (read-only): The guest user gains read only access to the GUI to observe and review configuration settings. The guest does not have SSL VPN access.
- Captive Portal User: Captive portal users obtain internet access via approval from the router. The access is determined based on captive portal policies.

Idle Timeout: This is the login timeout period for users of this group.

Figure 99: User group configuration

Group Configuration		X
Group Name		
Description		
User Type		
User Type	💿 Admin 🔍 Network 🔍 Guest	
PPTP User	OFF	
L2TP User	OFF	
SSLVPN User	OFF	
Idle Timeout	10 [Default: 10, Range: 1 - 999] Minutes	
	Sav	e

When SSLVPN users are selected, the SSLVPN settings are displayed with the following parameters as captured in SSLVPN Settings. As per the Authentication Type SSL VPN details are configured.

- Authentication Type: The authentication Type can be one of the following: Local User Database (default), RADIUS-PAP, RADIUS-CHAP, RADIUS-MSCHAP, RADIUS-MSCHAPv2, NT Domain, Active Directory and LDAP.
- Authentication Secret: If the domain uses RADIUS authentication then the authentication secret is required (and this has to match the secret configured on the RADIUS server).
- Workgroup: This is required is for NT domain authentication. If there are multiple workgroups, user can enter the details for up to two workgroups.
- LDAP Base DN: This is the base domain name for the LDAP authentication server. If there are multiple LDAP authentication servers, users can enter the details for up to two unique LDAP Base DN.
- Active Directory Domain: If the domain uses the Active Directory authentication, the Active Directory domain name is required. Users configured in the Active Directory database are given access to the SSL VPN portal with their Active Directory username and password. If there are multiple Active Directory domains, user can enter the details for up to two authentication domains.

- Timeout: The timeout period for reaching the authentication server.
- Retries: The number of retries to authenticate with the authentication server after which the DSR stops trying to reach the server.

Figure 100: SSLVPN Settings

2 Status	🛜 Wi	reless	Network	🚯 VPN	💂 Security	ô Maintenance	
VPN » SSL VPN » Portal I	ayouts						00
The table lists the SSL po a custom page for remote are specific to a domain a	rtallayouts con SSL VPN users f are useful to pre	figured for this d that is presented esent on the auth	device and allows I upon authentica hentication portal	several operatio tion. Login instr I. Portals are ass	ns on the portal layou uctions, available servi igned to the user dom	ts.The router allows you ces, and other usage det ain.	to create ails that
SSL VPN Portal Layou	its List						
Show 10 • entries	[Right click o	on record to get mo	ore options]				٩
Layout Name	¢	Use Count	⇔	Portal URL			÷
SSLVPN		0		https://0.0.0.0:44	43/portal/SSLVPN		
Showing 1 to 1 of 1 entries					K Firs	t Previous 1 Next >	Last 刘
Add New SSL VPN P	ortal Layout						
SSL VPN Portal La	yout Config	uration					X
Portal Layout and Portal Layout Nam Login Profile Name Portal Site Title Banner Title Banner Message Display Banner Me on Login Page HTTP Meta Tags fo Control (Recomme	Theme Name e ssage ssage nr Cache nded)	de fault	FF			Sa	ve
ActiveX Web Cache SSL VPN Portal Aut Authentication Ty SSL VPN Portal Pag VPN Tunnel page Port Forwarding	e Cleaner hentication pe es to Display		FF	T			
						Sa	ive

Login Deligion

Login Policies

To set login policies for the group, select the corresponding group click "Login policies". The following parameters are configured:

- Group Name: This is the name of the group that can have its login policy edited
- Disable Login: Enable to prevent the users of this group from logging into the devices management interface(s)
- Deny Login from WAN interface: Enable to prevent the users of this group from logging in from a WAN (wide area network) interface. In this case only login through LAN is allowed.

Figure 101: Group login policies options

Login Foncies			
Show 10 • entries			٩
Group	÷	Status	\ominus
ADMIN		Allow	
GUEST		Deny	
Showing 1 to 2 of 2 entries			↓ First ↓ Previous 1 Next ▶ Last ▶
Add Login Policies			
Login Policies Configuration			\mathbf{x}
Group Name Disable Login Deny Login from WAN Interface	ADMIN OFF	7	
			Save

Policy by Browsers

To set browser policies for the group, select the corresponding group click "Policy by Browsers". The following parameters are configured:

- Group Name: This is the name of the group that can have its login policy edited
- Deny Login from Defined Browsers: The list of defined browsers below will be used to prevent the users of this group from logging in to the routers GUI. All non-defined browsers will be allowed for login for this group.

- Allow Login from Defined Browsers: The list of defined browsers below will be used to allow the users of this group from logging in to the routers GUI. All non-defined browsers will be denied for login for this group.
- Defined Browsers: This list displays the web browsers that have been added to the Defined Browsers allotment, upon which group login policies can be defined. (Check Box at First Column Header): Selects all the defined browsers in the table.
- Delete: Deletes the selected browser(s).

You can add to the list of Defined Browsers by selecting a client browser from the drop down menu and clicking Add. This browser will then appear in the above list of Defined Browsers.

• Click Save Settings to save your changes.

Browser Policies		
Show 10 • entries		٩
Group 🔂 Added Client B	rowsers	⊖ Status ⊖
	No data available in table	
Showing 0 to 0 of 0 entries		Image: First Image: Previous Next Image: Last
Add Browser Policies		
Browser Policies Configuration		×
Group Name	ADMIN V	
Add Defined Browser Client Browser	Internet Explorer	
		Save

Figure 102: Browser policies options

Policy by IP

To set policies by IP for the group, select the corresponding group click "Policy by IP". The following parameters are configured:

• Group Name: This is the name of the group that can have its login policy edited

- Deny Login from Defined Browsers: The list of defined browsers below will be used to prevent the users of this group from logging in to the routers GUI. All non-defined browsers will be allowed for login for this group.
- Allow Login from Defined Browsers: The list of defined browsers below will be used to allow the users of this group from logging in to the routers GUI. All non-defined browsers will be denied for login for this group.
- Defined Browsers: Displays the web browsers that have been added to the Defined Browsers list, upon which group login policies can be defined.
- Check Box At First Column Header: Selects all defined browsers in the table.
- Delete: Deletes the selected browser(s).

You can add to the list of Defined Browsers by selecting a client browser from the drop down menu and clicking Add. This browser will then appear in the above list of Defined Browsers.

• Click Save Settings to save your changes.

Figure 103: IP policies options

IP Policies							
Show 10 • entries						٩	
Group 🖸 Source Address Type	⇔	Network Address / IP Address	}	Mask Length	⊖ Sta	itus ⊖	
		No data available in table					
Showing 0 to 0 of 0 entries				First Previou	s Next ≽	Last 划	
Add IP Policies		NPURE - UNITED A	46.3		Z.1117 VV VV		
IP Policies Configuration						X)
Group Name	A	DMIN V					
Defined Address Configuration							
Source Address Type	IF	Address 🔻					
Network Address / IP Address							
					S	ave	

Solution Login Policies, Policy by Browsers, Policy by IP are applicable SSL VPN user only.

Security > Authentication > User Database > Users

The Users page allows the administrator to add, edit or delete existing groups. Each user is associated to configured groups. The Lists of Available Users is displayed in the "List of Users" page with User name, associated group and Login status.

- Click Add to create a user.
- Click Edit to update an existing user.
- Click Delete to clear an existing user

Figure 104: Available Users with login status and associated Group

🙆 Status	🛜 Wireless	💻 Network	୍ଭ v	'PN 🔒 Se	ecurity	🔅 Maintenance	
Security » Authentication » User	r Database » Users						? @
Get User DB Groups Use	ers						
This page shows a list of availabl on users.	e users in the syste	m. A user can add, de	ete and e	dit the users also.	This page c	an also be used for set	ting policies
Users List							
Show 10 • entries [R	ight click on record to	get more options]					٩
User Name	🔂 Group Name	e	⊖ Log	gin Status			÷
admin	ADMIN		Enat	oled (LAN) Enabled (W	AN)		
guest	GUEST		Disa	bled (LAN) Disabled (V	(AN)		
Showing 1 to 2 of 2 entries					First	Previous 1 Next	> Last >
Add New User							

7.1.1 Users and Passwords

Security > Authentication > User Database > Users > Add New Users

The user configurations allow creating users associated to group. The user settings contain the following key components:

- User Name: This is unique identifier of the user.
- First Name: This is the user's first name
- Last Name: This is the user's last name
- Select Group: A group is chosen from a list of configured groups.
- Password: The password associated with the user name.

- Confirm Password: The same password as above is to be re-entered to prevent against typing errors.
- Idle Timeout: The session timeout for the user.

It is recommended that passwords contains no dictionary words from any language, and is a mixture of letters (both uppercase and lowercase), numbers, and symbols. The password can be up to 30 characters.

Figure	105:	User	configuration	options
--------	------	------	---------------	---------

User Configuration		8
User Name	sam]
First Name	sam]
Last Name	admin]
Select Group	ADMIN *]
Password	•••••]
Confirm Password	•••••]
		Save

7.1.2 Adding many users to the Local User Database

Security > Authentication > User Database > Get User DB

The DSR administrator can add users to the local built-in database directly via an appropriately-formatted comma separated value (CSV) file. The advantage of this feature is to allow for a large number of users to be added to the system with one operation, and the same file can be uploaded to multiple DSR devices as needed. Once uploaded the specific users in the local user database can be modified via the GUI as needed.

Figure 106: Import a CSV file with multiple users to the User Database

	🕋 Status	🛜 Wireless	💻 Network	යි VPN	Security	🍄 Maintenance				
Security	ecurity » Authentication » User Database » Get User DB									
Get	Get User DB Groups Users									
This page	allows user to imp	ort a CSV formatted use	er database to the rout	ter.						
Get Use	er DB									
Sele	ct User DB File		Choose File No file chose	en						
		ļ	Upload							

The following parameters must be used to define the User database CSV file.

- 1. Create an empty text file with a .csv extension
- 2. Each line in the file corresponds to a single user entry. Every line should end with carriage return equivalent of CRLF. Do not add comments or other text in this file.
- 3. Formatting rules:
 - a) All the fields must be enclosed within double quotes.
 - b) Consecutive fields are seperated by commas.
 - c) There should be no leading or trailing spaces in a line.
 - d) There should be no spaces between fields.

Each line in the CSV user database file should follow the following format:

"UserName", "FirstName", "LastName", "GroupName", "MultiLogin", "Password"

The above sample has fields that can assume the following values:

- Username (text field): Name of the user and identifier in the DSR's database, and so it must be unique in the local user database.
- FirstName (text field): This is a user detail and need not be unique.
- LastName (text field): This is a user detail and need not be unique.
- GroupName (text field): The group that is associated with this user.
- MultiLogSup (Boolean value): With this enabled ("1"), then multiple users can share a single username and password.
- Password (text field): password to assign for this username
- The Group for a corresponding user ("GroupName" in the CSV) must be created via the GUI in advance of the User Database CSV upload action.
- 🖎 None of the above fields can be left empty or NULL in the User Database CSV.

7.2 Using SSL VPN Policies

VPN > SSL VPN > SSL VPN Server Policy

SSL VPN Policies can be created on a Global, Group, or User level. User level policies take precedence over Group level policies and Group level policies take precedence over Global policies. These policies can be applied to a specific network resource, IP address or ranges on the LAN, or to different SSL VPN services supported by the router. The List of Available Policies can be filtered based on whether it applies to a user, group, or all users (global).

A more specific policy takes precedence over a generic policy when both are applied to the same user/group/global domain. I.e. a policy for a specific IP address takes precedence over a policy for a range of addresses containing the IP address already referenced.

Figure 107: List of SSL VPN polices (Global filter)

	🕢 Stat	tus 🛜	Wireless	💻 Network	🚯 VPN	🔒 Security	🗘° Ma	intenance				
VPN » SSL VPN » SSL VPN Server Policy												
This SSLVI resources was alrea SSL VPN	This SSLVPN Enable feature enables Option users to use SSLVPN functionality.Policies are useful to permit or deny access to specific network resources, IP addresses, or IP networks. They may be defined at the user, group or global level. By Default, a global PERMIT policy (not displayed) was already configured over all addresses and over all services/ports SSL VPN Server Policies List											
Show 10	▼ entries	[Right cli	ck on record to	get more options]			(٩			
Name	Ŷ	Service	⇔	Destination	⇔	Permission	⇔	Scope	⇔			
				No data avai	lable in table							
Showing 0 to 0 of 0 entries Next > Last >												
Add N	Add New SSL VPN Server Policy											

To add a SSL VPN policy, you must first assign it to a user, group, or make it global (i.e. applicable to all SSL VPN users). If the policy is for a group, the available configured groups are shown in a drop down menu and one must be selected. Similarly, for a user defined policy a SSL VPN user must be chosen from the available list of configured users.

The next step is to define the policy details. The policy name is a unique identifier for this rule. The policy can be assigned to a specific Network Resource (details follow in the subsequent section), IP address, IP network, or all devices on the LAN of the router. Based on the selection of one of these four options, the appropriate configuration fields are required (i.e. choosing the network resources from a list of defined resources, or defining the IP addresses). For applying the policy to addresses the port range/port number can be defined.

The final steps require the policy permission to be set to either permit or deny access to the selected addresses or network resources. As well the policy can be specified for one or all of the supported SSL VPN services (i.e. VPN tunnel) Once defined, the policy goes into effect immediately. The policy name, SSL service it applies to, destination (network resource or IP addresses) and permission (deny/permit) is outlined in a list of configured policies for the router.

Figure	108:	SSL	VPN	policy	configuration
--------	------	-----	-----	--------	---------------

SSL VPN Server Policies Configurati	ion	x
Policy Type	● Global ○ Group ○ User	
SSL VPN Policy Apply Policy to Policy Name ICMP	Network Resource	
Port Range / Port Number Defined Resources	τ	
Permission	Permit O Deny	
	Save	

To configure a policy for a single user or group of users, enter the following information:

- Policy for: The policy can be assigned to a group of users, a single user, or all users (making it a global policy). To customize the policy for specific users or groups, the user can select from the Available Groups and Available Users drop down.
- Apply policy to: This refers to the LAN resources managed by the DSR, and the policy can provide (or prevent) access to network resources, IP address, IP network, etc.
- Policy name: This field is a unique name for identifying the policy. IP address: Required when the governed resource is identified by its IP address or range of addresses.
- Mask Length: Required when the governed resource is identified by a range of addresses within a subnet.
- ICMP: Select this option to include ICMP traffic
- Port range: If the policy governs a type of traffic, this field is used for defining TCP or UDP port number(s) corresponding to the governed traffic. Leaving the starting and ending port range blank corresponds to all UDP and TCP traffic.
- Service: This is the SSL VPN service made available by this policy. The services offered are VPN tunnel, port forwarding or both.
- Defined resources: This policy can provide access to specific network resources. Network resources must be configured in advance of creating the policy to make them available for selection as a defined resource. Network resources are created with the following information

• Permission: The assigned resources defined by this policy can be explicitly permitted or denied.

7.2.1 Using Network Resources

VPN > SSL VPN > Resources

Network resources are services or groups of LAN IP addresses that are used to easily create and configure SSL VPN policies. This shortcut saves time when creating similar policies for multiple remote SSL VPN users.

Adding a Network Resource involves creating a unique name to identify the resource and assigning it to one or all of the supported SSL services. Once this is done, editing one of the created network resources allows you to configure the object type (either IP address or IP range) associated with the service. The Network Address, Mask Length, and Port Range/Port Number can all be defined for this resource as required. A network resource can be defined by configuring the following in the GUI:

- Resource name: A unique identifier name for the resource.
- Service: The SSL VPN service corresponding to the resource (VPN tunnel, Port Forwarding or All).

Figure 109: List of configured resources, which are available to assign to SSL VPN policies

î Status	🛜 Wireless	💻 Network	යි VPN		Security	🍄 Maintenance	
VPN » SSL VPN » Resources							00
Network resources are services when creating similar policies for or services after they login to t re-routed based on configured that is being made accessible to SSL VPN Resources List	or groups of LAN IP or multiple remote S the User Portal and I port forwarding rule o remote users.	addresses that are use SL VPN users. Port forv aunch the Port Forwar s. Port forwarding requ	ed to easily create warding allows rem ding service. Traff uires the identific	and con note SSL fic from ation of	nfigure SSL VPN users to access the remote use the TCP applica	policies. This shortc s specified network aj r to the router is det ation and local server	ut saves time oplications ected and IP address
Show 10 • entries [R	Right click on record to	get more options]					٩
Name 🔂 Service	⊖ Туре		ect	⇔	Port 😌	Mask Length	⇔
	"	No data ava	ilable in table			1	
Showing 0 to 0 of 0 entries					K Fi	rst 🔄 Previous Next	> Last >
Add New Resource							
SSL VPN Resources Co	nfiguration						×
SSL VPN Resources Resource Name							
Service		VPN Tunnel	Port Forwardi	ng 🤅	All		
Resource Object Config ICMP	uration	OFF					
Object Type		IP Address	•				
Object Address							
Port Range / Port Numb Begin	per	[Range	: 0 - 65535]				
End		[Range	: 0 - 65535]				
							Save

7.3 Application Port Forwarding

Setup > VPN Settings > SSL VPN Server > Port Forwarding

Port forwarding allows remote SSL users to access specified network applications or services after they login to the User Portal and launch the Port Forwarding service. Traffic from the remote user to the router is detected and re-routed based on configured port forwarding rules.

Internal host servers or TCP applications must be specified as being made accessible to remote users. Allowing access to a LAN server requires entering the local server IP

address and TCP port number of the application to be tunneled. The table below lists some common applications and corresponding TCP port numbers:

TCP Application	Port Number
FTP Data (usually not needed)	20
FTP Control Protocol	21
SSH	22
Telnet	23
SMTP (send mail)	25
HTTP (web)	80
POP3 (receive mail)	110
NTP (network time protocol)	123
Citrix	1494
Terminal Services	3389
VNC (virtual network computing)	5900 or 5800

As a convenience for remote users, the hostname (FQDN) of the network server can be configured to allow for IP address resolution. This host name resolution provides users with easy-to-remember FQDN's to access TCP applications instead of error-prone IP addresses when using the Port Forwarding service through the SSL User Portal.

To configure port forwarding, following are required:

- Local Server IP address: The IP address of the local server which is hosting the application.
- TCP port: The TCP port of the application

Once the new application is defined it is displayed in a list of configured applications for port forwarding.

allow users to access the private network servers by using a hostname instead of an IP address, the FQDN corresponding to the IP address is defined in the port forwarding host configuration section.

- Local server IP address: The IP address of the local server hosting the application. The application should be configured in advance.
- Fully qualified domain name: The domain name of the internal server is to be specified

Once the new FQDN is configured, it is displayed in a list of configured hosts for port forwarding.

Defining the hostname is optional as minimum requirement for port forwarding is identifying the TCP application and local server IP address. The local server IP address of the configured hostname must match the IP address of the configured application for port forwarding.

Figure 110: List of Available Applications for SSL Port Forwarding

Port Forwarding List for Configured App	lications			
Show 10 • entries				٩
Local Server IP Address	٥	TCP Port Number		⇔
	No data available in tabl	e		
Showing 0 to 0 of 0 entries			K First Previous Next >	Last 刘
Add New Rule				
Port Forwarding List for Configure	d Applications	terrat. Contractor	290707 0 100000 × 2307 1000	X
Local Server IP Address				
TCP Port Number	[Range: 0 - 65535]]		
			Sa	ve
L				

Port Forwarding List for Configured Host Nan	nes				
Show 10 • entries		٩			
Local Server IP Address	Fully Qualified Domain Name	⇔			
No data available in table					
Showing 0 to 0 of 0 entries		↓ First ↓ Previous Next > Last >			
Add New Rule					

A CLARKER DEVICE DCD 3EAN		Serial: UBD 1173456789 Firmware:	7.00 WW
Port Forwarding List for Host Config	guration		X
Local Server IP Address	192.168.15.25]	
Fully Qualified Domain Name	test		
			Save

7.4 SSL VPN Client Configuration

VPN > SSL VPN > SSL VPN Clients

An SSL VPN tunnel client provides a point-to-point connection between the browserside machine and this router. When a SSL VPN client is launched from the user portal, a "network adapter" with an IP address from the corporate subnet, DNS and WINS settings is automatically created. This allows local applications to access services on the private network without any special network configuration on the remote SSL VPN client machine.

It is important to ensure that the virtual (PPP) interface address of the VPN tunnel client does not conflict with physical devices on the LAN. The IP address range for the SSL VPN virtual network adapter should be either in a different subnet or non-overlapping range as the corporate LAN.

The IP addresses of the client's network interfaces (Ethernet, Wireless, etc.) cannot be identical to the router's IP address or a server on the corporate LAN that is being accessed through the SSL VPN tunnel.

Figure 111: SSL VPN client adapter and access configuration

🖾 Status 🎅	Wireless 💻 Network	CB VPN	🔒 Security	🍄 Maintenance	
VPN » SSL VPN » SSL VPN Client				0	0
An SSL VPN tunnel client provides a p launched from the user portal, a "nel applications to talk to services on th SSL VPN Client	oint-to-point connection betwee work adapter" with an IP address e private network without any sp	n the browser-side m , DNS and WINS settin ecial network configu	nachine and this devic ngs is automatically cr uration on the remote	e. When a SSL VPN client is eated, which allows local SSL VPN client machine.	
Full Tunnel Support	ON III				
DNS Suffix					
Primary DNS Server					
Secondary DNS Server					
Client Address Range Begin	192.168.251.1				
Client Address Range End	192.168.251.254				
LCP Timeout	60 [Rang	e: 1 - 999999] Seconds			
	Save	Cancel			

The router allows full tunnel and split tunnel support. Full tunnel mode just sends all traffic from the client across the VPN tunnel to the router. Split tunnel mode only sends traffic to the private LAN based on pre-specified client routes. These client routes give the SSL client access to specific private networks, thereby allowing access control over specific LAN services.

Client level configuration supports the following:

- Enable Split Tunnel Support: With a split tunnel, only resources which are referenced by client routes can be accessed over the VPN tunnel. With full tunnel support (if the split tunnel option is disabled the DSR acts in full tunnel mode) all addresses on the private network are accessible over the VPN tunnel. Client routes are not required.
- DNS Suffix: The DNS suffix name which will be given to the SSL VPN client. This configuration is optional.
- Primary DNS Server: DNS server IP address to set on the network adaptor created on the client host. This configuration is optional.
- Secondary DNS Server: Secondary DNS server IP address to set on the network adaptor created on the client host. This configuration is optional.
- Client Address Range Begin: Clients who connect to the tunnel get a DHCP served IP address assigned to the network adaptor from the range of addresses beginning with this IP address

Client Address Range End: The ending IP address of the DHCP range of addresses served to the client network adaptor.

VPN > SSL VPN > Client Routes

If the SSL VPN client is assigned an IP address in a different subnet than the corporate network, a client route must be added to allow access to the private LAN through the VPN tunnel. As well a static route on the private LAN's firewall (typically this router) is needed to forward private traffic through the VPN Firewall to the remote SSL VPN

client. When split tunnel mode is enabled, the user is required to configure routes for VPN tunnel clients:

- Destination network: The network address of the LAN or the subnet information of the destination network from the VPN tunnel clients' perspective is set here.
- Subnet mask: The subnet information of the destination network is set here.

Figure 112: Configured client routes only apply in split tunnel mode

C Status	🛜 Wireless	💻 Network	r vpn	Security	🗭 Maintenance	
VPN » SSL VPN » Client Ro	outes				(2 0
The Configured Client Rou addresses is redirected th The table shows the desti network then in SPLIT Tun	tes entries are the routin rough the SSL VPN tunne nation routes that will be nel mode you should add	ng entries which will be ls, and all other traffic configured on the SSL the LAN subnet as the	added by the SSL is redirected usin VPN client. For ex destination subne	VPN Client such that g the hosts (SSL VPN cample if the SSL VPN t on this device.	only traffic to these desti Clients) native network into Client wishes to access th	nation erface. e LAN
SSL VPN Client Route	s List					
Show 10 • entries	[Right click on record to	get more options]				٩
Destination Network		Ne data and	able in table	Subnet Mask		⇔
Showing 0 to 0 of 0 entries		NO DATA AVA			First Previous Next >	Last)
Add New Client Route						
SSL VPN Client Ro	ute Configuration					×
Destination Netwo	r k					
Subnet Mask						
c s						
					Sav	/e
L						

🖎 Steps to Install/Uninstall SSLVPN tunnel in MAC OS

l.Open terminal and run "visudo" as root and it will open sudoers file

- 2. Add "username ALL=NOPASSWD: /usr/sbin/chown,/bin/chmod,/bin/rm" at the bottom of the sudoers file, save and close the file. (Username is the user name of the MAC account but not SSLVPN user name).
- While uninstalling SSLVPN tunnel, when it asks for password, enter the MAC user account password but not the root password or SSL VPN user password

7.5 User Portal

VPN > SSL VPN > Portal Layouts

When remote users want to access the private network through an SSL tunnel (either using the Port Forwarding or VPN tunnel service), they login through a user portal. This portal provides the authentication fields to provide the appropriate access levels and privileges as determined by the router administrator. The domain where the user account is stored must be specified, and the domain determines the authentication method and portal layout screen presented to the remote user.

Figure 113: List of configured SSL VPN portals. The configured portal can then be associated with an authentication domain

	🝘 Status	🛜 Wireless	💻 Network	A VPN	🙍 Security	🍄 Maintenance	
VPN » SS	VPN » SSL VPN » Portal Layouts						
The table lists the SSL portal layouts configured for this device and allows several operations on the portal layouts.The router allows you to create a custom page for remote SSL VPN users that is presented upon authentication. Login instructions, available services, and other usage details that are specific to a domain are useful to present on the authentication portal. Portals are assigned to the user domain. SSL VPN Portal Layouts List							
Show 10	▼ entries	[Right click on record t	to get more options]				٩
Layout	Name	🔂 Use Co	ount 🕀	Portal URL			⇔
SSLVPN		0		https://0.0.0.0:44	13/portal/SSLVPN		
Showing 1	to 1 of 1 entries				K First	t Previous 1 Next >	Last 刘
Add N	ew SSL VPN Porta	I Layout					

7.5.1 Creating Portal Layouts

Setup > VPN Settings > SSL VPN Server > Portal Layouts

The router allows you to create a custom page for remote SSL VPN users that is presented upon authentication. There are various fields in the portal that are customizable for the domain, and this allows the router administrator to communicate details such as login instructions, available services, and other usage details in the portal visible to remote users. During domain setup, configured portal layouts are available to select for all users authenticated by the domain. The default portal LAN IP address is https://192.168.10.1/scgibin/userPortal/portal. This is the same page that opens when the "User Portal" link is clicked on the SSL VPN menu of the router GUI.

The router administrator creates and edits portal layouts from the configuration pages in the SSL VPN menu. The portal name, title, banner name, and banner contents are all customizable to the intended users for this portal. The portal name is appended to the SSL VPN portal URL. As well, the users assigned to this portal (through their authentication domain) can be presented with one or more of the router's supported SSL services such as the VPN Tunnel page or Port Forwarding page.

To configure a portal layout and theme, following information is needed:

- Portal layout name: A descriptive name for the custom portal that is being configured. It is used as part of the SSL portal URL.
- Portal site title: The portal web browser window title that appears when the client accesses this portal. This field is optional.
- Banner title: The banner title that is displayed to SSL VPN clients prior to login. This field is optional.
- Banner message: The banner message that is displayed to SSL VPN clients prior to login. This field is optional.
- Display banner message on the login page: The user has the option to either display or hide the banner message in the login page.
- HTTP meta tags for cache control: This security feature prevents expired web pages and data from being stored in the client's web browser cache. It is recommended that the user selects this option.
- ActiveX web cache cleaner: An ActiveX cache control web cleaner can be pushed from the gateway to the client browser whenever users login to this SSL VPN portal.
- SSL VPN portal page to display: The User can either enable VPN tunnel page or Port Forwarding, or both depending on the SSL services to display on this portal.

Once the portal settings are configured, the newly configured portal is added to the list of portal layouts.

VPN>SSL VPN>Portal Layout>Add New SSl VPN Portal Layout

This pages allows the admin to create a custom SSL VPN portal layout. This new portal is for local DB authentication using the SSL VPN group user, and then the port forward connection for this local database portal is available.

Figure 114: SSL VPN Portal configuration

SSL VPN Portal Layout Configuration		
Portal Layout and Theme Name Portal Layout Name Login Profile Name Portal Site Title Banner Title Banner Message	default	
Display Banner Message on Login Page	OFF	
HTTP Meta Tags for Cache Control (Recommended)	OFF	•
	Save	
Chapter 8. Advanced Configuration Tools

8.1 USB Device Setup

Status > System Information > USB Status

The D-Link Services Router has a USB interface for printer access, file sharing and on the DSR-1000 / DSR-1000N models, 3G modem support. There is no configuration on the GUI to enable USB device support. Upon inserting your USB storage device, printer cable or 3G modem the DSR router will automatically detect the type of connected peripheral.

- USB Mass Storage: also referred to as a "share port", files on a USB disk connected to the DSR can be accessed by LAN users as a network drive.
- USB Printer: The DSR can provide the LAN with access to printers connected through the USB. The printer driver will have to be installed on the LAN host and traffic will be routed through the DSR between the LAN and printer.
- USB 3G modem: A 3G modem dongle can be plugged in and used as a secondary WAN. Load balancing, auto-failover, or primary WAN access can be configured through the 3G interface.

To configure printer on a Windows machine, follow below given steps:

- Click 'Start' on the desktop.
- Select 'Printers and faxes' option.
- Right click and select 'add printer' or click on 'Add printer' present at the left menu.
- Select the 'Network Printer' radio button and click next (select "device isn't listed in case of Windows7").
- Select the 'Connect to printer using URL' radio button ('Select a shared printer by name 'in case of Windows 7) and give the following URL http://<Router's LAN IP address>:631/printers/<Model Name> (Model Name can be found in the USB status page of router's GUI).
- Click 'next' and select the appropriate driver from the displayed list.
- Click on 'next' and 'finish' to complete adding the printer.

Figure 115: USB Device Detection

🙆 Status	🛜 Wireless	💻 Network	🚯 VPN	Security	🍄 Maintenance	
Status » System Information »	USB Status					00
This page displays informatio devices connected to the ro USB(s) Status	n about the USB device: uter.	s connected to the US	B port(s).This page	e will update dynamic	ally to show the status o	f the USB
Description			USB Port 1			
Status			disconnected			
Vendor			NA			
Model			NA			
Туре			NA			
Mount Status			NA			
🙆 Status	🛜 Wireless	💻 Network	යි vpn	🔒 Security	Maintenance	
Status » System Information » System LAN Dedicat	e Device » System	N Wireless				00
All of your Internet and netw also displayed here.	vork connection details	are displayed on the I	Device Status page.	. The firmware versio	n and hardware serial nu	mber is
System Information						
<i>General</i> System Name	D!	SR-250N				
Firmware Version	2.	00_ww				
Hardware Version	A	1				
Serial Number	Q	BDT123456789				

8.2 USB share port

Maintenance > Administration > USB SharePort

This page allows configure the SharePort feature available in this router.

Figure 116: USB SharePort

🕜 Status	🛜 Wireless	💻 Network	🕼 VPN	💂 Security	Omega Maintenance	
Maintenance » Administration	» USB Share Ports					00
USB Share Ports						
USB Share Port Setup Enable USB Printer Enable sharing		OFF				
Printer Enabled Interfaces	s List					
Interface Name		Enable Printer		Enable Storag	je	
default		OFF		OFF		
		Save	Cancel			

USB-1:

Enable USB Printer: Select this option to allow the USB printer connected to the router to be shared across the network.

The USB printer can be accessed on any LAN host (with appropriate printer driver installed) connected to the router by using the following command in the host's add printers window

http://<Router's IP:631>/printers/<Device Model> (Device Model can be found in the USB settings page).

Enable Sharing: Select this option to allow the USB storage device connected to the router to be shared across the network.

USB-2:

Enable USB Printer: Select this option to allow the USB printer connected to the router to be shared across the network.

The USB printer can be accessed on any LAN host (with appropriate printer driver installed) connected to the router by using the following command in the host's add printers window

http://<Router's IP:631>/printers/<Device Model> (Device Model can be found in the USB settings page).

Enable Sharing: Select this option to allow the USB storage device connected to the router to be shared across the network.

Sharing Enabled interfaces:

The LAN interfaces on which USB sharing is enabled, at least one interface must be selected to begin sharing.

Enable Printer: Enables printer sharing on the selected interface.

Enable Storage: Enables storage device sharing on the selected interface.

8.3 SMS service

Maintenance > Administration > SMS Service > Inbox

The D-Link Services Router has a USB interface to connect 3G modem support to send and receive Short Messaging Service. The received messages can be seen in the Inbox and allows the user to create a new SMS. If WAN3 is used in dedicated wan mode, load balancing mode or if 3G USB Device is not connected to router then the controls on this page will be greyed out.

Figure 117: SMS Service – Send SMS

	<i>2</i> 2€ S	tatus 🛜	Wireless	💻 Network	🚯 VPN	🚊 Security	🌻 Maintenance				
Maintenar	nce » Admi	nistration » SMS S	ervice » Inbox					00			
Inbo	Inbox Create SMS										
This page	This page allows the users to check received messages in the Inbox and also to create new messages.										
Inbox											
Show 1	0 🔻 entr	ies [Right d	lick on record to	get more options]				٩			
S.N€	Sende⊖	Time Stamp ↔	Text					⇔			
0	IA-IDEA	13/10/18,22:23:02	Idea welcomes no.+9197020123	you to Mumbai! Roam acro 45	oss India on Idea at a	ffordable call rates (with f	ree incoming SMS)!Idea Mumb	ai helpline			
1	IA-IDEA	13/10/25,10:51:33	Idea welcomes no. +919702012	you to Mumbai! Roam acro	oss India on Idea at a	ffordable call rates (with f	ree incoming SMS)!Idea Mumb	ai helpline			
Showing	Showing 1 to 2 of 2 entries										

The following details are displayed in SMS INBOX page:

- Sno: Displays the serial number of message in the inbox.
- Sender: Displays the sender of the particular message.
- TimeStamp: Displays the time when the message was sent
- Text: Displays the content of the particular Message.

The following actions are performed:

- Delete: Deletes the SMS having that particular Sno. Only one message can be deleted at a time.
- Refresh: Updates the inbox with new SMS (if any).
- Reply: Lets the user create a new SMS in reply to a particular message by the selected sender. "Receiver" field in the createSms.htm page is filled with the sender's number.
- Forward: Lets the user forward a selected SMS. "Text Message" field in the createSms.htm page is filled with the "Text" of the selected message.

Figure 118: SMS Service – Receive SMS

🙆 Stat	us 🛜	• Wireless	💻 Network	🚯 VPN	Security	Maintenance				
Maintenance » Adminis	tration » SMS	Service » Create	e SMS				00			
Inbox Create SA	AS									
This page will allow us	'his page will allow users to create a new SMS and send it to a particular number.									
Compose Message										
Receiver		4	3184904351							
Text Message		-	Fext Message							
					4					
			Send Message	Cancel						

The following details to be provided in Create Message page:

- Receiver: Enter the phone number of the intended receiver of the message.
- Text Message: Enter the body of the message here

Click Send Message to send the message.

Click Don't Save Settings to reset Receiver and Text Message fields.

8.4 External Authentication

The local user database present in the router itself is typically used for granting management access for the GUI or CLI. External authentication servers are typically more secure, and can be used for allowing wireless AP connections, authenticating IPsec endpoints, and even allowing access via a Captive Portal on the VLAN. This section describes the available authentication servers on the router, and also the configuration requirements.

In all cases, the "Server Checking" button is used to verify connectivity to the configured server(s).

8.4.1 POP3 Server

Security > Authentication > External Auth Server > POP3 Server

POP3 is an application layer protocol most commonly used for e-mail over a TCP/IP connection. The authentication server can be used with SSL encryption over port 995to send encrypted traffic to the POP3 server. The POP3 server's certificate is verified by a user-uploaded CA certificate. If SSL encryption is not used, port 110 will be used for the POP3 authentication traffic.

The DSR router acts only as a POP3 client to authenticate a user by contacting an external POP3 server. This authentication option is available for IPsec, PPTP/L2TP

Server and Captive Portal users. Note that POP3 for PPTP / L2TP servers is supported only with PAP and not with CHAP / MSCHAP / MSCHAPv2 encryption.

Figure	119:	POP3	Authentication	Server	configuration

🖓 Status 🛜 Wireless	💻 Network	ഹ്ലം vpn	🔒 Security	🔅 Maintenance	
Security » Authentication » External Auth Server	> POP3 Server				00
Radius Server POP3 Server POP3 Trust	ed CA LDAP Server AD	Server NT Dom	ain		
This page allow user to configure pop3 authentic	ation servers.				
POP3 Server Configuration					
Server Check	Server Checking				
Authentication Server 1 (Primary)					
Authentication Port	110 [Default: 110), Range: 0 - 65535]			
SSL Enable	OFF				
Authentication Server 2 (Secondary)		Optional			
Authentication Port	110 [Default: 110), Range: 0 - 65535]			
SSL Enable	OFF				
Authentication Server 3 (Optional)		Optional			
Authentication Port	110 [Default: 110), Range: 0 - 65535]			
SSL Enable	OFF				
Timeout	[Range: 1 - 9	199] Seconds			
Retries	5 [Range: 5 - 9	1]			
	Save Ca	incel			

The "Server Checking" button is used to verify connectivity to the configured server(s). A CA file is used as part of the POP3 negotiation to verify the configured authentication server identity. Each of the 3 configured servers can have a unique CA used for authentication.

Figure 120: POP3 CA file upload

🙆 Status 🛜 Wireless 💂 Network 🎧 VPN 🔒 Security	Maintenance							
Security » Authentication » External Auth Server » POP3 Trusted CA	00							
Radius Server POP3 Server POP3 Trusted CA LDAP Server AD Server NT Domain								
This page shows the list of POP3 CA Files.								
POP3 CA Files List								
Show 10 • entries [Right click on record to get more options]	٩							
CA File	÷							
No data available in table								
Showing 0 to 0 of 0 entries	H First Previous Next > Last >							
Add CA File								

8.4.2 NT Domain Server

Security > Authentication > External Auth Server > NT Domain

The NT Domain server allows users and hosts to authenticate themselves via a preconfigured Workgroup field. Typically Windows or Samba servers are used to manage the domain of authentication for the centralized directory of authorized users.

Figure	121.	NT	Domain	Authentication	Server	configuration
riguit		TAT	Domain	Authentitation	BUIVU	configuration

🖓 Status 🛜 Wireless	💻 Ne	twork	ക	VPN		Security	O Maintenance		
Security » Authentication » External Auth Server >	» NT Domain							?	0
Radius Server POP3 Server POP3 Truste	Radius Server POP3 Server POP3 Trusted CA LDAP Server AD Server NT Domain								
NT Domain Configuration									
Server Check	Server Cl	necking							
Authentication Server 1 (Primary)									
Authentication Server 2 (Secondary)				Optional					
Authentication Server 3 (Optional)				Optional					
Workgroup									
Second Workgroup				Optional					
Third Workgroup				Optional					
Timeout		[Range: 1 -	999] Sec	onds					
Retries	5	[Range: 5 -	9]						
First Administrator Account	admin			Optional					
Password	•••••			Optional					
First Server Hostname				Optional					
Second Administrator Account				Optional					
Password				Optional					
Second Server Hostname				Optional					
Third Administrator Account				Optional					
Password				Optional					
Third Server Hostname				Optional					
	Save	С	ancel						

8.4.3 RADIUS Server

Security > Authentication > External Auth Server > RADIUS Server

Enterprise Mode for wireless security uses a RADIUS Server for WPA and/or WPA2 security. A RADIUS server must be configured and accessible by the router to authenticate wireless client connections to an AP enabled with a profile that uses RADIUS authentication.

• The Authentication IP Address is required to identify the server. A secondary RADIUS server provides redundancy in the event that the primary server cannot be reached by the router when needed.

- Authentication Port: the port for the RADIUS server connection
- Secret: enter the shared secret that allows this router to log into the specified RADIUS server(s). This key must match the shared secret on the RADIUS Server.
- The Timeout and Retries fields are used to either move to a secondary server if the primary cannot be reached, or to give up the RADIUS authentication attempt if communication with the server is not possible.

Figure 122: RADIUS Server configuration

	🕜 Status	🛜 Wireless	💻 Network	ഹം vp	PN 💭	Security	🍄 Maintenance		
Security » Authentication » External Auth Server » Radius Server									0
Radi	us Server POP3 S	Server POP3 Trusted	CA LDAP Server	AD Server	NT Domain				

This page configures the RADIUS servers to be used for authentication. A RADIUS server maintains a database of user accounts used in larger environments. If a RADIUS server is configured in the LAN, it can be used for authenticating users that want to connect to the IPSec,L2TP,PPTP,SSL VPN and wireless networks provided by this device. If the first/primary RADIUS server is not accessible at any time, then the device will attempt to contact the secondary RADIUS server for user authentication.

Radius Server Configuration

Server Check	Server Ch	necking
Authentication Server 1 (Primary)	192.168.1.2	
Authentication Port	1812	[Range: 0 - 65535]
Secret	•••••	
Timeout	1	[Range: 1 - 999] Seconds
Retries	2	[Range: 1 - 999]
Authentication Server 2 (Secondary)	192.168.1.3	
Authentication Port	1812	[Range: 0 - 65535]
Secret	•••••	
Timeout	1	[Range: 1 - 999] Seconds
Retries	2	[Range: 1 - 999]
Authentication Server 3 (Optional)	192.168.1.4	
Authentication Port	1812	[Range: 0 - 65535]
Secret	•••••	
Timeout	1	[Range: 1 - 999] Seconds
Retries	2	[Range: 1 - 999]
	Save	Cancel

8.4.4 Active Directory Server

Security > Authentication > External Auth Server > AD Server

Active Directory authentication is an enhanced version of NT Domain authentication. The Kerberos protocol is leveraged for authentication of users, who are grouped in Organizational Units (OUs). In particular the Active Directory server can support more than a million users given is structure while the NT Domain server is limited to thousands.

The configured Authentication Servers and Active Directory domain(s) are used to validate the user with the directory of users on the external Windows based server. This authentication option is common for SSL VPN client users and is also useful for IPsec / PPTP / L2TP client authentication.

Figure 123: Active Directory Authentication Server configuration

🖓 Status 🛜 Wireless	💻 Network 🤇 🤇	🔒 VPN 🔮 Security	🔅 Maintenance					
Security » Authentication » External Auth Server »	AD Server			3 0				
Radius Server POP3 Server POP3 Truste	d CA LDAP Server AD Ser	ver NT Domain						
This page allow to configure Active Directory authentication servers								
Active Directory Configuration								
Server Check	Server Checking							
Authentication Server 1 (Primary)								
Authentication Server 2 (Secondary)		Optional						
Authentication Server 3 (Optional)		Optional						
Active Directory Domain								
Second Active Directory Domain		Optional						
Third Active Directory Domain		Optional						
Timeout	[Range: 1 - 999]	Seconds						
Retries	5 [Range: 5 - 9]							
First Administrator Account	admin	Optional						
Password		Optional						
First Server Hostname		Optional						
Second Administrator Account		Optional						
Password		Optional						
Second Server Hostname		Optional						
Third Administrator Account		Optional						
Password		Optional						
Third Server Hostname		Optional						
1	Save Cance	2						

8.4.5 LDAP Server

Security > Authentication > External Auth Server > LDAP Server

The LDAP authentication method uses LDAP to exchange authentication credentials between the router and external server. The LDAP server maintains a large database of users in a directory structure, so users with the same username but belonging to different groups can be authenticated since the user information is stored in a hierarchal manner. Also of note is that configuring a LDAP server on Windows or Linux servers is considerably less complex than setting up NT Domain or Active Directory servers for user authentication.

The details configured on the router will be passed for authenticating the router and its hosts. The LDAP attributes, domain name (DN), and in some cases the administrator account & password are key fields in allowing the LDAP server to authenticate the router.

Figure 124: LDAP Authentication Server configuration

🖾 Status 🛜 Wireless	💻 Network	🔓 VPN 🔒	Security	O Maintenance	
Security » Authentication » External Auth Server »	LDAP Server				00
Radius Server POP3 Server POP3 Truste	d CA LDAP Server AD Se	rver NT Domain			
This page allows a user to configure authenticatic	on servers for LDAP authentic	ation.			
LDAP Server Configuration					
Server Check	Server Checking				
Authentication Server 1 (Primary)]			
Authentication Server 2 (Secondary)		Optional			
Authentication Server 3 (Optional)		Optional			
LDAP Attribute 1		Optional			
LDAP Attribute 2		Optional			
LDAP Attribute 3		Optional			
LDAP Attribute 4		Optional			
LDAP Base DN]			
Second LDAP Base DN		Optional			
Third LDAP Base DN		Optional			
Timeout	[Range: 1 - 999]	Seconds			
Retries	5 [Range: 5 - 9]				
First Administrator Account	admin	Optional			
Password	•••••	Optional			
Second Administrator Account		Optional			
Password		Optional			
Third Administrator Account		Optional			
Password		Optional			
	Save Canc	el			

8.5 Authentication Certificates

VPN > IPSec VPN > Certificates > Trusted Certificates

This gateway uses digital certificates for IPsec VPN authentication as well as SSL validation (for HTTPS and SSL VPN authentication). You can obtain a digital certificate from a well-known Certificate Authority (CA) such as VeriSign, or generate and sign your own certificate using functionality available on this gateway. The gateway comes with a self-signed certificate, and this can be replaced by one signed by a CA as per your networking requirements. A CA certificate provides strong assurance of the server's identity and is a requirement for most corporate network VPN solutions.

The certificates menu allows you to view a list of certificates (both from a CA and selfsigned) currently loaded on the gateway. The following certificate data is displayed in the list of Trusted (CA) certificates:

CA Identity (Subject Name): The certificate is issued to this person or organization

Issuer Name: This is the CA name that issued this certificate

Expiry Time: The date after which this Trusted certificate becomes invalid

A self certificate is a certificate issued by a CA identifying your device (or self-signed if you don't want the identity protection of a CA). The Active Self Certificate table lists the self certificates currently loaded on the gateway. The following information is displayed for each uploaded self certificate:

- Name: The name you use to identify this certificate, it is not displayed to IPsec VPN peers or SSL users.
- Subject Name: This is the name that will be displayed as the owner of this certificate. This should be your official registered or company name, as IPsec or SSL VPN peers are shown this field.
- Serial Number: The serial number is maintained by the CA and used to identify this signed certificate.
- Issuer Name: This is the CA name that issued (signed) this certificate
- Expiry Time: The date after which this signed certificate becomes invalid you should renew the certificate before it expires.

To request a self certificate to be signed by a CA, you can generate a Certificate Signing Request from the gateway by entering identification parameters and passing it along to the CA for signing. Once signed, the CA's Trusted Certificate and signed certificate from the CA are uploaded to activate the self-certificate validating the identity of this gateway. The self certificate is then used in IPsec and SSL connections with peers to validate the gateway's authenticity.

Figure 125: Certificate summary for IPsec and HTTPS management

	Status	🛜 Wireless	💻 Network	🚯 VPN	🚊 Security	ô Maintenance		
VPN » IPSec VPN	» Certificat	es » Trusted Certificates	5				00	
Trusted Cer	tificates	Active Self Certificate	s Self Certificate F	Requests				
Trusted Certifica a trusted organi client presents a The Trusted CA	ates or CA co zation or aut a digital cert certificates	ertificates are used to chority called the Certi cificate, the authentica are used in this authen	verify the validity of o ficate Authority. The tion process verifies tication process.	certificates signed table contains the that the presented	by them. When a certi certificates of each C I certificate is issued b	ficate is generated, it is A.When a remote VPN ga yy one of the trusted aut	signed by teway or thorities.	
Trusted Certi	ficates (C	A Certificate) List						
Show 10 🔻	entries	[Right click on record to	get more options]				٩	
CA Identity (Subject Nai	me)	🔂 Issu	er Name ailable in table	⊖ Expiry Date	e & Time	÷	
Showing 0 to 0 of	0 entries				Н	First J Previous Next >	Last 刘	
Upload New	CA Certific	ate						
	Status	🛜 Wireless	💻 Network	යි VPN	<u> </u> Security	🍄 Maintenance		
VPN » IPSec VPN	I » Certificat	tes » Active Self Certific	ates				00	
Trusted Ce	rtificates	Active Self Certificate	Self Certificate F	Requests				
This table lists the certificates issued to you by trusted Certification Authorities (CAs), and available for presentation to remote IKE servers. The remote IKE server validates this router using these certificates. For each certificate, the following data is displayed:								
Active Self C	ertificate	s List						
Show 10 🔻	entries	[Right click on record to	get more options]				٩	
Name 🔂	Subject	Name ⊖	Serial Number	⊖ Is:	suer Name	⊖ Expiry Time	⇔	
Showing 0 to 0 of	0 entries		No data av	ailable in table	Ы	First 🔄 Previous Next 🔾	Last 刘	
Upload New	Self Certifi	cate						
<i>a</i>	Status	🛜 Wireless	📮 Network	යි VPN	Security	🗘 Maintenance		
VPN » IPSec VPN	∣ » Certificat	tes » Self Certificate Req	juests				00	
Trusted Cer	rtificates	Active Self Certificate	s Self Certificate F	Requests				
The Self Certific	ate Request	s table displays a list of	fall the certificate re	quests made.				
Self Certificate Requests List								
Show 10 T	entries	[Right click on record to	get more options]				٩	
Name			a	Status			⇔	
Showing 0 to 0 of	0 entries		No data a	anadie in tâdie		First Previous Next	Last X	
	stific of a							
New Self Ce	nficate							

8.6 Advanced Switch Configuration

Maintenance > Management > Power Saving

The DSR allows you to adjust the power consumption of the hardware based on your actual usage. The two "green" options available for your LAN switch are Power Saving by Link Status and Length Detection State. With "Power Saving by Link Status" option enabled, the total power consumption by the LAN switch is dependent function of on the number of connected ports. The overall current draw when a single port is connected is less than when all the ports are connected. With "Length Detection State" option enabled, the overall current supplied to a LAN port is reduced when a smaller cable length is connected on a LAN port.

Jumbo Frames support can be configured as an advanced switch configuration. Jumbo frames are Ethernet frames with more than 1500 bytes of payload. When this option is enabled, the LAN devices can exchange information at Jumbo frames rate.

Image: Status Image: Wireless Image: Network Image: Security Image: Security Image: Security Maintenance Maintenance Maintenance Image: Security Image: Security

Figure 126: Advanced Switch Settings

8.7 Package Manager

Maintenance > Administration > Package Manager

A package is a set of files which are installed by the router from D-Link's repositories. This feature allows users to download new drivers for supported USB devices and language packs to enable multi-lingual support for the router's management interface. Multi-lingual support via the package manager allows the user to choose a language of choice so that the entire textual content in the router's user interface is presented in the selected language.

DSR-1000, DSR-1000N, DSR-500, and DSR-500N support the Package Manager feature.

This feature supports a single driver and single language pack to be stored in the router (i.e. these files are available for use after device reboot). There are 2 types of installations supported by this feature:

- 1. Manual Installation: Upon selecting manual installation, the user has to download the package which will then display the available languages that the router GUI now supports.
- Only drivers provided by D-Link can be used for manual installation. A validation process will be performed during installation.
- 2. Auto Installation: By selecting the link "click here" the Auto installation of the package is exercised. A page showing the list of available drivers / language packs is displayed from which the user can select and install one of the options. For this type of installation the router must be able to access the internet, as this will allow the user to download the package from a repository server which consists of all the available languages.

Figure 127: Device Drivers

	🕜 Status	🛜 Wireless	💻 Network	I VPN	Security	🌻 Maintenance	
Maintenance	» Administration »	Package Manager					00
This page sh	ows the list of avai	lable drivers. User ca	in install or uninstall t	he drivers.			
Device Dr	ivers						
List of De	efault Drivers						
Show 10	▼ entries						٩
Drive	Description					⊖ In:	stalle
cdc- acm	D-Link (DWM-156 A5,	DWM-156 A6, DWM-157 A	1)			•	0.9
option	D-Link (DWM-152 A1, 1550, E-173, E-156, E	DWM-152 A2, DWM-152 A -303, EC-306), ZTE (MF-71	3, DWM-156 A1, DWM-156 0)	A2, DWM-156 A3, DWM	156 A7, DWM-157 B1, DW	M-158 D1), Huawei (E-	0.9
Showing 1	to 2 of 2 entries				K First	Previous 1 Next	Last 刘
Driver for yo	our device not listed?	<u>click here</u> to see if upda	tes or new drivers are ava	ilable.			
<i>Manual Ir</i> Select[n <i>stall</i> Driver		Choose File No file chos	en			
		l	Install				
<i>Install Hi</i> Install H	<i>story</i> listory				a.		

Device Drivers: Users can install drivers manually or can install from the listed drivers. List of Device Drivers: It allows the user to install or uninstall the available drivers. Manual Install: User can upload the provided driver package for installation. Browse: The user can choose the package to upload. Click on "Install" to save your changes.

Figure 128: Installation of driver/language pack

	🕢 Status	🛜 Wireless	💻 Network	🚯 VPN	Security	🗘° Maintenance	
Maintenance	» Administration	» Package Manager					00
his page sl	hows the list of av	ailable drivers. User c	an install or uninstall t	he drivers.			
)evice D	rivers						
	invers						
List of D	Device Drivers						
Show 1	0 • entries						٩
Drive	Description					⊖ In	stalle 🔗
cdc- acm	D-Link (DWM-156 A	15, DWM-156 A6, DWM-157	A1)				0.9
CN	Chinese (Simplified	d) Language Installation Pa	ck Version 1.0				
DE	German Language	Installation Pack Version	1.0				
ES	Spanish Language	Installation Pack Version 1	1.0				
FR	French Language	Installation Pack Version 1	.0				
IT	Italian Language Ir	nstallation Pack Version 1.	0				
JP	Japanese Languag	e Installation Pack Versior	n 1.0			(
	D-Link (DWM-152 A	1, DWM-152 A2, DWM-152	A3, DWM-156 A1, DWM-156	A2, DWM-156 A3, DW/	M-156 A7, DWM-157 B1, DW	M-158 D1), Huawei (E-	
option	1550, E-173, E-156,	E-303, EC-306), ZTE (MF-7	10)			•	0.9
RU	Russian Language	Installation Pack Version 1	1.0			•	
тс	Chinese (Tradition	al) Language Installation F	ack Version 1.0			•	
Showing	1 to 10 of 10 entries				[First	Previous 1 Next >	Last 刘
List of D	efault Drivers						
Show 10	▼ entries						٩
Drive	Description					⇔	In stalle 😔
cdc- acm	D-Link (DWM-156 A	5, DWM-156 A6, DWM-157	A1)				0.9
	D-Link (DWM-152 A	1, DWM-152 A2, DWM-152	A3, DWM-156 A1, DWM-156	A2, DWM-156 A3, DW	/M-156 A7, DWM-157 B1, DV	WM-158 D1), Huawei (E-	
option	1550, E-173, E-156,	E-303, EC-306), ZTE (MF-7	10)				0.9
Showing 1	to 2 of 2 entries				First	Previous 1 Next	Last 刘
Driver for vo	our device not listed	click here to see if und	ates or new drivers are ava	ilable.			
Manual Ir	nstall						
Select [Driver	[Choose File No file chos	en			
		l	Install				
Install Hi	story						
Install H	listory						
					//		

Upon clicking on the link "click here", a page showing the list of device drivers is displayed.

Driver: Description of the driver name.

Description: This describes the type of language installation pack supported.

Installed: All the language installation packs or option 3G Driver for ThreeG V-1.0 displayed in the list of device drivers are shown in Red color by default since none of them have been selected. When a particular language installation pack or if Option Driver for ThreeG V-1.0 is selected then the button turns green in color.

Action: It consists of 2 options:

• Install 1.0: Click on "Install 1.0" to install a particular Language pack. Remove: To remove the installed language pack, click on "Remove".

Manual Install: User can upload the provided driver package for installation.

Install History: This displays the history of the language packs installed/uninstalled previously along with the respective date and time to show when they were installed/uninstalled.

Figure 129: Selection of Installed Language

🐼 Status	🛜 Wireless	💻 Network	A VPN	🚊 Security	Omega Maintenance	
Maintenance » Administration	» Set Language					00
	•	Please install dri packa	vers for langua gemanager			
This page shows the list of a	vailable languages.					
Language Settings						
Set Language		English	T			
		Save	Cancel			

Once the language has been selected by the user from the list of Device Drivers, the "Set Language" option under "Tools" menu will display the selected language. The user must select the language from the drop down list of "Set Language" and save the settings so that this configuration is applied in its entirety.

Chapter 9. Administration & Management

9.1 Configuration Access Control

The primary means to configure this gateway via the browser-independent GUI. The GUI can be accessed from LAN node by using the gateway's LAN IP address and HTTP, or from the WAN by using the gateway's WAN IP address and HTTPS (HTTP over SSL).

Administrator and Guest users are permitted to login to the router's management interface. The user type is set in the Advanced > Users > Users page. The Admin or Guest user can be configured to access the router GUI from the LAN or the Internet (WAN) by enabling the corresponding Login Policy.

Figure 130: User Login policy configuration

🖓 Status <table-cell> 🛜 W</table-cell>	/ireless 📮 Network	r vpn	💂 Security	Maintenance	
Security » Authentication » User Database	e » Groups				00
Get User DB Groups Users					
This page shows the list of added group	s to the router. The user can add	d, delete and edit t	the groups also.		
Groups List					
Show 10 ▼ entries [Right click	on record to get more options]				٩
Group Name		Description			⇔
ADMIN		Admin Group			
GUEST		Guest Group			
Showing 1 to 2 of 2 entries			K Firs	t 🚽 Previous 1 Next	> Last >
Add New Group					
Login Policies					
Show 10 • entries					٩
Group	Ó	Status			⇔
ADMIN		Allow			
GUEST		Deny			
Showing 1 to 2 of 2 entries			K Firs	t 🗸 Previous 1 Next	Last
Login Policies Configuration	I				X
Group Name	ADMIN	•			
Disable Login	OFF				
Deny Login from WAN					
Interface	OFF				
					Save

9.1.1 Admin Settings

Maintenance > Administration > System settings

This page allows one to set the name of the router.

Figure 131: Admin Settings

Status	🛜 Wireless	💻 Network	යි VPN	<u> </u> Security	🔅 Maintenance				
Maintenance » Administration	Aaintenance » Administration » System Setting								
This page allows user to set the router identification name.									
System Setting									
Current System Name	ſ	DSR-250N							
New Name for System	[DSR-250N							
	ļ	Save	Cancel						

9.1.2 License Updates

Maintenance > Administration > Licsense Update

Certain features available in the DSR require a license. The licence is presented in the form of a code specific for this particular router, which when activated enables the use of this feature for a fixed duration. A license code is provided based on the router's MAC Address, so it is unique to that particular device.

Each license has the following three parameters:

Model: The license key model as it relates to the feature being enabled.

Activation Code: The specific activiation code corresponding to this license.

Expires: Licenses can either have a fixed duration, which would be displayed in this column, or are perpetual for the life of this router.

Currently, dynamic web content filtering (WCF) is the only license-controlled feature available in the DSR products.

Figure 132: License upload field and List of Active Licenses

🙆 Status	🛜 Wireless	💻 Network	ഹ്ലം vpn	盈 Security	🜻 Maintenance	
Maintenance » Administration	» License Update					00
This page shows the list of ac	tivated licenses and al	so can be used for ac	tivating new WCF l	icenses.		
License Update						
Licenses List						
Show 10 👻 entries	[No right click options]				٩
License Model		☆ Activation Cod	le	¢	Expires	⇔
		No data ava	ailable in table			
Showing 0 to 0 of 0 entries				∫ Fi	rst 🔄 Previous 🛛 Next 🗦	Last 刘
Activation Setup License Activation Code						
	I	Activate				

9.1.3 Remote Management

Maintenance > Management > Remote Management

Both HTTPS and telnet access can be restricted to a subset of IP addresses. The router administrator can define a known PC, single IP address or range of IP addresses that are allowed to access the GUI with HTTPS. The opened port for SSL traffic can be changed from the default of 443 at the same time as defining the allowed remote management IP address range.

Figure 133: Remote Management from the WAN

A Status	🛜 Wireless	💻 Network	A VPN	🚊 Security	🌻 Maintenance	
Maintenance » Management »	Remote Management					00
From this page a user can con	figure the remote ma	nagement feature. Th	is feature can be u	used to manage the bo	x remotely from WAN side	
Remote Management						
Remote Management Set	up					
Enable Remote Manageme	ent	ON				
HTTPS Port No	[443 [Range:	1 - 65535]			
SSH	[OFF				
SNMP	1	OFF				
Access Control Setup						
Access Type		All IP Addresses	IP Address Rar	nge 🛛 🔍 Only Selecte	ed PC	
WAN Ping						
Respond to Ping	1	OFF				
		Save	Cancel			

Maintenance > Administration > Web GUI Management

This feature restricts management access via the GUI to a predefined set of IP addresses or VLAN subnets. When enabled, the GUI management access can be restricted for all LAN hosts, and instead enabled only via a specific IP address or specific VLAN subnet.

When this feature is enabled:

- Access will be allowed by the configured IP address or VLAN subnet, and no other LAN hosts will be allowed to access the GUI management interface.
- Only the GUI management is affected. CLI / SNMP are not affected by this control
- User will still need administrator credentials to modify configuration settings

Figure 134: Web GUI Management from the WAN

🖽 Status 🛜 Wireless	📃 Network	යි VPN	Security	Maintenance				
Maintenance » Administration » Web GUI Management								
This page allows the user to manage Device GUI access/deny permissions to VLAN host/ VLAN Network.								
Web GUI Management								
Enable	OFF							
	Save	Cancel						
List of Allowed IP Address / Vlan Networ	k							
Show 10 • entries [Right click on red	ord to get more options]				٩			
Name 🏠 Access Type	⊖ IP Ad	ddress / Vlan Net	twork		⇔			
No data available in table								
Showing 0 to 0 of 0 entries			Fi	rst 🔄 Previous Next 🔪	Last 刘			

9.1.4 CLI Access

In addition to the web-based GUI, the gateway supports SSH and Telnet management for command-line interaction. The CLI login credentials are shared with the GUI for administrator users. To access the CLI, type "cli" in the SSH or console prompt and login with administrator user credentials.

9.2 SNMP Configuration

Maintenance > *Management* > *SNMP*

SNMP is an additional management tool that is useful when multiple routers in a network are being managed by a central Master system. When an external SNMP manager is provided with this router's Management Information Base (MIB) file, the manager can update the router's hierarchal variables to view or update configuration parameters. The router as a managed device has an SNMP agent that allows the MIB configuration variables to be accessed by the Master (the SNMP manager). The Access Control List on the router identifies managers in the network that have read-only or read-write SNMP credentials. The Traps List outlines the port over which notifications from this router are provided to the SNMP community (managers) and also the SNMP version (v1, v2c, v3) for the trap.

Figure 135: SNMP Users, Traps, and Access Control

A Status	🛜 Wireless	💻 Network	က္ခ် VPN	Security	🗘 Maintenance	
Maintenance » Management »	> SNMP					00
SNMP SNMP Trap List	Access Control List	SNMP System Info				
Simple Network Management monitor and control network	Protocol (SNMP) lets y devices, and to manag	ou monitor and manage e configurations, statis	your router from tics collection, pe	an SNMP manager. SN erformance, and secu	MP provides a remote m ity.	eans to
SNMP v3 User List						
Name	Privilege		Security I	Level		
admin	RWUSER		No-Auth No-	Priv		
guest	ROUSER		No-Auth No-	Priv		
🙆 Status	🛜 Wireless	💻 Network	යි VPN	🚊 Security	© [©] Maintenance	
Maintenance » Management »	SNMP » SNMP Trap Lis	t				00
SNMP SNMP Trap List	Access Control List	SNMP System Info				
The table lists all IP addresse	es of SNMP agents to wi	hich the router will ser	nd trap messages.			
SNMP Traps List						
Show 10 <pre>show</pre>	[Right click on record to	get more options]				٩
IP Address	🗘 Port	⊖ Community		⊖ SNMP Vers	ion	÷
		No data avai	lable in table			
Showing 0 to 0 of 0 entries				KI F	First 🔄 Previous 🛛 Next 🔾	Last 刘
Add SNMP Trap						
🕜 Status	🛜 Wireless	💻 Network	🚯 VPN	Security	🌻 Maintenance	
Maintenance » Management »	SNMP » Access Control	List				00
SNMP SNMP Trap List	Access Control List	SNMP System Info				
The table lists all IP addresse	es of SNMP agents to w	hich the router will all	ows several operat	ions on the SNMP age	nts.	
Access Control List						
Show 10 Tentries	[Right click on record to	get more options]				٩
Name 🔂 Sub	onet Mask	⊖ Comm	nunity	⊖ Acces	s Type	⇔
		No data avai	lable in table			
Showing 0 to 0 of 0 entries				KI	First 🔄 Previous 🛛 Next 🗲	Last 刘
Add Access Control						

Maintenance > Management > SNMP > SNMP System Info

The router is identified by an SNMP manager via the System Information. The identifier settings The SysName set here is also used to identify the router for SysLog logging.

Figure 136: SNMP system information for this router

🗥 Status	🛜 Wireless	💻 Network	ഹ്ല VPN	Security	Maintenance		
Maintenance » Management »	SNMP » SNMP System	Info			0 9		
SNMP SNMP Trap List	Access Control List	SNMP System Info					
This page displays the current SNMP configuration of the router. The following MIB (Management Information Base) fields are displayed and can be modified here.							
SNMP System Info							
SysContact	[
SysLocation	[
SysName	[DSR-250N					
		Save	Cancel				

9.3 Configuring Time Zone and NTP

Maintenance > Administration > Date and Time

You can configure your time zone, whether or not to adjust for Daylight Savings Time, and with which Network Time Protocol (NTP) server to synchronize the date and time. You can choose to set Date and Time manually, which will store the information on the router's real time clock (RTC). If the router has access to the internet, the most accurate mechanism to set the router time is to enable NTP server communication.

Accurate date and time on the router is critical for firewall schedules, Wi-Fi power saving support to disable APs at certain times of the day, and accurate logging.

Please follow the steps below to configure the NTP server:

- 1. Select the router's time zone, relative to Greenwich Mean Time (GMT).
- 2. If supported for your region, click to Enable Daylight Savings.
- **3.** Determine whether to use default or custom Network Time Protocol (NTP) servers. If custom, enter the server addresses or FQDN.

Figure 137: Date, Time, and NTP server setup

🖓 Status 🎅	Wireless 📃 Net	work	🚊 Security	ô Maintenance	
Maintenance » Administration » Date	and Time				00
This page allows us to set the date, time in a network of computers. Acc Date and Time	time and NTP servers. Netw urate time across a network	ork Time Protocol (NTP) is a < is important for many reas	protocol that is used	d to synchronize computer	· clock
Current Device Time	Sat Jan 01 00:	24:01 GMT 2011			
Time Zone	(GMT) Greenw	vich Mean Tim 🔻			
Daylight Saving	OFF				
NTP Servers	ON				
NTP Server Type	Default	Custom			
Time to re-synchronize	120	[Default: 120, Range: 5 - 1440] /	Ainutes		
	Save	Cancel			

9.4 Log Configuration

This router allows you to capture log messages for traffic through the firewall, VPN, and over the wireless AP. As an administrator you can monitor the type of traffic that goes through the router and also be notified of potential attacks or errors when they are detected by the router. The following sections describe the log configuration settings and the ways you can access these logs.

9.4.1 Defining What to Log

Maintenance > Log Settings > Facility Logs

The Logs Facility page allows you to determine the granularity of logs to receive from the router. There are three core components of the router, referred to as Facilities:

- Kernel: This refers to the Linux kernel. Log messages that correspond to this facility would correspond to traffic through the firewall or network stack.
- System: This refers to application and management level features available on this router, including SSL VPN and administrator changes for managing the unit.
- Wireless: This facility corresponds to the 802.11 driver used for providing AP functionality to your network.
- Local1-UTM: This facility corresponds to IPS (Intrusion Prevention System) which helps in detecting malicious intrusion attempts from the WAN.

For each facility, the following events (in order of severity) can be logged: Emergency, Alert, Critical, Error, Warning, Notification, Information, Debugging. When a particular severity level is selected, all events with severity equal to and greater than the chosen severity are captured. For example if you have configured CRITICAL level logging for the Wireless facility, then 802.11 logs with severities CRITICAL, ALERT, and EMERGENCY are logged. The severity levels available for logging are:

- EMERGENCY: system is unusable
- ALERT: action must be taken immediately
- CRITICAL: critical conditions
- ERROR: error conditions
- WARNING: warning conditions
- NOTIFICATION: normal but significant condition
- INFORMATION: informational
- DEBUGGING: debug-level messages

Figure 138: Facility settings for Logging

🙆 Status 🏾 🎅 Wirele	ess 📮 Net	work	යි VPN	🔒 Security	Maintenance	
Maintenance » Logs Settings » Facility Logs						00
This page allows user to configure logging se	verity levels for diff	erent logging	g facilities.			
Facility Logs						
Facility Select Facility	Kernel	System	O Local1-UTM	CocalO-Wireless		
For Event Log	Event Log	Syslog				
Emergency	OFF	OFF				
Alert	OFF	OFF				
Critical	OFF	OFF				
Error	OFF	OFF				
Warning	OFF	OFF				
Notification	OFF	OFF				
Information	OFF	OFF				
Debugging	OFF	OFF				
	Save	Car	ncel			

The display for logging can be customized based on where the logs are sent, either the Event Log viewer in the GUI (the Event Log viewer is in the *Status* > *Logs* page) or a remote Syslog server for later review. E-mail logs, discussed in a subsequent section, follow the same configuration as logs configured for a Syslog server.

Maintenance > Log Settings > Routing Logs

This page allows you to determine the type of traffic through the router that is logged for display in Syslog, E-mailed logs, or the Event Viewer. Denial of service attacks, general attack information, login attempts, dropped packets, and similar events can be captured for review by the IT administrator. Traffic through each network segment (LAN, WAN, DMZ) can be tracked based on whether the packet was accepted or dropped by the firewall.

Accepted Packets are those that were successfully transferred through the corresponding network segment (i.e. LAN to WAN). This option is particularly useful when the Default Outbound Policy is "Block Always" so the IT admin can monitor traffic that is passed through the firewall.

• Example: If Accept Packets from LAN to WAN is enabled and there is a firewall rule to allow SSH traffic from LAN, then whenever a LAN machine tries to make an SSH connection, those packets will be accepted and a message will be logged. (Assuming the log option is set to Allow for the SSH firewall rule.)

Dropped Packets are packets that were intentionally blocked from being transferred through the corresponding network segment. This option is useful when the Default Outbound Policy is "Allow Always".

• Example: If Drop Packets from LAN to WAN is enabled and there is a firewall

rule to block SSH traffic from LAN, then whenever a LAN machine tries to

make an SSH connection, those packets will be dropped and a message will

be logged. (Make sure the log option is set to allow for this firewall rule.)

Enabling accepted packet logging through the firewall may generate a significant volume of log messages depending on the typical network traffic. This is recommended for debugging purposes only.

In addition to network segment logging, unicast and multicast traffic can be logged. Unicast packets have a single destination on the network, whereas broadcast (or multicast) packets are sent to all possible destinations simultaneously. One other useful log control is to log packets that are dropped due to configured bandwidth profiles over a particular interface. This data will indicate to the admin whether the bandwidth profile has to be modified to account for the desired internet traffic of LAN users.

Figure 139: Log configuration options for traffic through router

🖓 Status 🛜 Wireless	💻 Network	යි VPN	🔒 Security	Maintenance	
Maintenance » Logs Settings » Routing Logs					00
The table lists all the available routing Logs in th	he system.				
Routing Logs					
Routing Log	Accepted Packets	Dropped Packets			
LAN to WAN	OFF OFF	OFF			
WAN to LAN	OFF	OFF			
WAN to DMZ	OFF	OFF			
DMZ to WAN	OFF	OFF			
LAN to DMZ	OFF	OFF			
VLAN to VLAN	OFF	OFF			
	Save	Cancel			

Maintenance > Log Settings > IPv6 logs

This page allows you to configure the IPv6 logging

Figure 140: IPv6 Log configuration options for traffic through router

	🕜 Status	🛜 Wireless	💻 Network	🚯 VPN	盈 Security	Maintenance	
Maintenar	nce » Logs Settings >	» IPv6 Logs					00
This page	e allows user to cont	figure log settings for I	Pv6 network.				
IPv6 Lo	gs						
LAN t	o WAN epted Packets		OFF				
Drop	oped Packets	ĺ	OFF				
WAN I Acc	P <i>lease configure a</i> epted Packets	t least one	OFF				
Drop	oped Packets		OFF				
			Save	Cancel			

9.4.2 Sending Logs to E-mail or Syslog

Maintenance > Log Settings > Remote Logs

Once you have configured the type of logs that you want the router to collect, they can be sent to either a Syslog server or an E-Mail address. For remote logging a key configuration field is the Remote Log Identifier. Every logged message will contain the configured prefix of the Remote Log Identifier, so that syslog servers or email addresses that receive logs from more than one router can sort for the relevant device's logs.

Once you enable the option to e-mail logs, enter the e-mail server's address (IP address or FQDN) of the SMTP server. The router will connect to this server when sending e-mails out to the configured addresses. The SMTP port and return e-mail addresses are required fields to allow the router to package the logs and send a valid e-mail that is accepted by one of the configured "send-to" addresses. Up to three e-mail addresses can be configured as log recipients.

In order to establish a connection with the configured SMTP port and server, define the server's authentication requirements. The router supports Login Plain (no encryption) or CRAM-MD5 (encrypted) for the username and password data to be sent to the SMTP server. Authentication can be disabled if the server does not have this requirement. In some cases the SMTP server may send out IDENT requests, and this router can have this response option enabled as needed.

Once the e-mail server and recipient details are defined you can determine when the router should send out logs. E-mail logs can be sent out based on a defined schedule by first choosing the unit (i.e. the frequency) of sending logs: Hourly, Daily, or Weekly. Selecting Never will disable log e-mails but will preserve the e-mail server settings.

🛜 Wireless Network 🚊 Security Maintenance 🙆 Status Maintenance » Logs Settings » Remote Logs **? 9** This page allows user to configure the remote logging options for the router. Remote Logging DSR-250N Remote Log Identifier E-Mail Log E-Mail Server Address SMTP Port [Range: 1 - 65535] Return E-Mail Address Send to E-Mail Address (1) Send to E-Mail Address (2) Optional Send to E-Mail Address (3) Optional Authentication with SMTP None Plain Login CRAM-MD5 Respond to Identd from SMTP OFF E-Mail log by schedule Unit Hourly Daily Weekly Never Cancel

Figure 141: E-mail configuration as a Remote Logging option

An external Syslog server is often used by network administrator to collect and store logs from the router. This remote device typically has less memory constraints than the local Event Viewer on the router's GUI, and thus can collect a considerable number of logs over a sustained period. This is typically very useful for debugging network issues or to monitor router traffic over a long duration. This router supports up to 8 concurrent Syslog servers. Each can be configured to receive different log facility messages of varying severity. To enable a Syslog server select the checkbox next to an empty Syslog server field and assign the IP address or FQDN to the Name field. The selected facility and severity level messages will be sent to the configured (and enabled) Syslog server once you save this configuration page's settings.

Figure 142: Syslog server configuration for Remote Logging (continued)

🙆 Status	🛜 Wireless	💻 Network	යි VPN	Security	Maintenance	
Maintenance » Logs Settings >	 Syslog Server 					? Ø
This page allows user to cont	figure the syslog serve	r logging options for th	ne router.			
Syslog Server Configura	ition					
SysLog Server 1		OFF				
SysLog Server 2		OFF				
SysLog Server 3		OFF				
SysLog Server 4		OFF				
SysLog Server 5		OFF				
SysLog Server 6		OFF				
SysLog Server 7		OFF				
SysLog Server 8		OFF				
	[Save	Cancel			

9.4.3 Event Log Viewer in GUI

Status > Logs > View All Logs

The router GUI lets you observe configured log messages from the Status menu. Whenever traffic through or to the router matches the settings determined in the **Tools** > **Log Settings** > **Logs Facility** or **Tools** > **Log Settings** > **Logs Configuration** pages, the corresponding log message will be displayed in this window with a timestamp.

> It is very important to have accurate system time (manually set or from a NTP server) in order to understand log messages.

Status > Sysytem Information > All Logs > IPSec VPN Logs

This page displays IPsec VPN log messages as determined by the configuration settings for facility and severity. This data is useful when evaluating IPsec VPN traffic and tunnel health.

Figure 143: VPN logs displayed in GUI event viewer

🕐 Status	🛜 Wireless	💻 Network	A VPN	Security	ô Maintenance	
Status » System Information »	All Logs » IPSec VPN L	.ogs				00
Current Logs Firewall	Logs IPSec VPN Log	s SSL VPN Logs				
This page displays the captur	ed log messages specif	ically for IPsec events.				
Current IPSec VPN Logs						
Show 10 • entries	[No right click options]					٩
Logs						÷
		No data ava	ilable in table			
Showing 0 to 0 of 0 entries				K	First I Previous Next >	Last 刘
Clear All Send L	ogs					

9.5 Backing up and Restoring Configuration Settings

Maintenance > Firmware&config. > Backup/restore

You can back up the router's custom configuration settings to restore them to a different device or the same router after some other changes. During backup, your settings are saved as a file on your host. You can restore the router's saved settings from this file as well. This page will also allow you revert to factory default settings or execute a soft reboot of the router. This page also allows you to download and automate the dbglog package, agrouping of system status, statistics, and support logs that are useful for D-Link support to diagnose router issues.

IMPORTANT! During a restore operation, do NOT try to go online, turn off the router, shut down the PC, or do anything else to the router until the operation is complete. This will take approximately 1 minute. Once the LEDs are turned off, wait a few more seconds before doing anything with the router.

For backing up configuration or restoring a previously saved configuration, please follow the steps below:

- To save a copy of your current settings, click the Backup button in the Save Current Settings option. The browser initiates an export of the configuration file and prompts to save the file on your host.
- 2. If there is a USB storage device currently plugged in to the system, you can enable Autobackup of the configuration file to the USB file system. The snapshot of current configuration settings will be updated on the USB file system and overwrite any files with the same filename (i.e. if there was an earlier configuration backup done to this location).

- **3.** To restore your saved settings from a backup file, click Browse then locate the file on the host. After clicking Restore, the router begins importing the file's saved configuration settings. After the restore, the router reboots automatically with the restored settings.
- 4. To erase your current settings and revert to factory default settings, click the Default button. The router will then restore configuration settings to factory defaults and will reboot automatically. (See Appendix B for the factory default parameters for the router).

Figure 144: Restoring configuration from a saved file will result in the current configuration being overwritten and a reboot

🖓 Status 🛜 Wireless	s 💻 Network	A VPN	🚊 Security	🔅 Maintenance	
Maintenance » Firmware & Config » Backup / Res	tore				00
Backup / Restore Backup Settings					
This page allows user to do configuration relat	ed operations which includ	les backup and re:	store.		
Backup / Restore					
Download Debug Logs					
	Download				
Config File Backup					
	Save to System (P	C) Save to	USB Port 1		
Restore Config File from System (PC) Browse Saved Configurations	Choose File No file chos	en			
	Restore				
Restore Config File from USB USB Device Status	disconnected				
Select File					
				Ŧ	
	Restore				

The configuration file can be encrypted during the backup process by enabling encryption. This will ensure confidential information like system username / passwords are not available for view by unauthorized sources. Selecting this option will apply to configuration files backed up on the host as well as a USB drive.

9.6 Generating DBGLOGs

Tools > System

This page also allows you to download and automate the debug log (a.k.a. "dbglog") package, agrouping of system status, statistics, and support logs that are useful for D-Link support to diagnose router issues.

Clicking the download link for the debug logs will result in the package being saved on the host machine used to manage this router. This package (a compressed archive) can then be sent to D-Link support for evaluation.

9.7 Upgrading Router Firmware

Maintenance > Firmware&config. > Firmware upgrade > Using System (PC)

You can upgrade to a newer software version from the Administration web page. In the Firmware Upgrade section, to upgrade your firmware, click Browse, locate and select the firmware image on your host, and click Upgrade. After the new firmware image is validated, the new image is written to flash, and the router is automatically rebooted with the new firmware. The Firmware Information and also the *Status* > *Device Info* > *Device Status* page will reflect the new firmware version.

IMPORTANT! During firmware upgrade, do NOT try to go online, turn off the DSR, shut down the PC, or interrupt the process in anyway until the operation is complete. This should take only a minute or so including the reboot process. Interrupting the upgrade process at specific points when the flash is being written to may corrupt the flash memory and render the router unusable without a low-level process of restoring the flash firmware (not through the web GUI).

Figure 145: Firmware version information and upgrade option

🙆 Status	🛜 Wireless	💻 Network	ഹ്ല vpn	Security	🌮 Maintenance	
Maintenance » Firmware & C	Config » Firmware Upgrade	 » Using System (PC) 				00
Using System (PC)	Jsing USB Check Upda	te				
This page allows user to up	ograde/downgrade the ro	uter firmware. This pa	ge also shows the in	nformation regarding	firmware version and bui	ld time.
Using System (PC)						
Current Firmware Info	ormation					
Firmware Version	2	2.00_WW				
Firmware Date	٦	Fue Jul 1 06:14:53 2014				
Firmware Upgrade						
Browse Firmware		Choose File No file chos	en			
		Upgrade				

This router also supports an automated notification to determine if a newer firmware version is available for this router. By clicking the Check Now button in the notification section, the router will check a D-Link server to see if a newer firmware version for this router is available for download and update the Status field below.

IMPORTANT! After firmware 1.04B13, new user database architecture is introduced. The new user database is easier to setup and more intuitively to use. When users upgrade DSR's firmware to 1.04B13 or latter, DSR will automatically merge users in the old database into the new one. However, all user databases will be swept away when users downgrade firmware from 1.04B13 to the older one, e.g. 1.03B43. Please keep in mind: backup your user database for further restoring once you decide to downgrade firmware to the older one.

9.8 Upgrading Router Firmware via USB

Maintenance > Firmware&config. > Firmware upgrade > Using USb

This page allows user to upgrade the firmware, backup and restore the settings using a USB storage key.
Figure 146: Firmware upgrade and configuration restore/backup via USB

🖓 Status 🛜 Wireless	💻 Network	යි VPN	Security	🍄 Maintenance	
Maintenance » Firmware & Config » Firmware Upgra	de » Using USB				00
	Please Connect	a USB Storage De	evice!		
Using System (PC) Using USB Check Up	late				
This page allows user to upgrade/downgrade the	router firmware via USB	Device.			
Using USB					
USB Device Status	disconnected				
Select Firmware				<u>ه</u>	
				*	
	Upgrade				

9.9 Dynamic DNS Setup

Network > Internet > Dynamic DNS > Dynamic DNS WAN1 Settings

Dynamic DNS (DDNS) is an Internet service that allows routers with varying public IP addresses to be located using Internet domain names. To use DDNS, you must setup an account with a DDNS provider such as DynDNS.org, D-Link DDNS, or Oray.net.

Each configured WAN can have a different DDNS service if required. Once configured, the router will update DDNS services changes in the WAN IP address so that features that are dependent on accessing the router's WAN via FQDN will be directed to the correct IP address. When you set up an account with a DDNS service, the host and domain name, username, password and wildcard support will be provided by the account provider.

Figure 147: Dynamic DNS configuration

🗥 Status 🛜 Wireless	📮 Network	🚯 VPN	Security	🌻 Maintenance	
Network » Internet » Dynamic DNS » Dynamic DN	S WAN1 Settings				00
Dynamic DNS WAN Settings					
Dynamic DNS WAN Settings					
WAN Mode Current WAN Mode	use only single WAN port V	WAN1			
<i>WAN1</i> Dynamic DNS Service Type	DynDNS ORAY	DLINKDDNS	None		
Domain Name Status					
User Name	admin				
Password Allow Wildcards	OFF				
Update Periodically	OFF 30 Days				
	Save Car	ncel			

9.10 Using Diagnostic Tools

Maintenance > Management > Diagnostics > Network Tools

The router has built in tools to allow an administrator to evaluate the communication status and overall network health.

Figure 148: Router diagnostics tools available in the GUI

🖓 Status 🛜 Wire	eless 💻 Network	ഹ്ല vpn	Security	Maintenance	
Maintenance » Management » Diagnostics »	Network Tools				00
Network Tools Capture Packets Sy	ystem Check				
This page can be used for diagnostics purp	ose. This page provides user wi	th some diagnostic	tools like ping, dns la	okup and traceroute.	
Network Tools					
Command Output for Ping and Trace IP Address / Domain Name	route www.dlink.com				
	Ping Tra	aceroute			
Command Output					
DNS Lookup	4			• //	
Domain Name					
Commend Output	Lookup				
Command Output					
	4			•	
🖓 Status 🛜 Wire	eless 📮 Network	s vpn	🚊 Security	🜻 Maintenance	
Maintenance » Management » Diagnostics »	Capture Packets				00
Network Tools Capture Packets S	ystem Check				
This page provides user packet sniffer as a	diagnostic tool.				
Capture Packets					
Interface	LAN	¥			
	Start Trace St	op Trace D	ownload		

			security			
Maintenance » Management » Diagnos	stics » System Check					0
	e Ope	ration Succeede	d			
Network Tools Capture Packe	ets System Check					
his page display the router's static	and dynamic routes.					
System Check						
System Check						
System Check	Display IPv4 T	able				
System Check	Display IPv4 T Destination Ref Vac Ifa	able Gateway	Kernel IP Genmask	routing t Flags Met	able fic	*
System Check	Display IPv4 T Destination Ref Use Ifa 127.0.0.1 0 to	Cateway Ce 127.0.0.1	Kernel IP Genmask 255.255.255.255	routing t Flags Met UGH 1	able fric	A
System Check Command Output	Display IPv4 T Destination Ref Use Ifa 127.0.0.1 0.10 192.168.10.0 0.bdq1	able Gateway Ce 127.0.0.1 0.0.0.0	Kernel IP Genmask 255.255.255.255 255.255.255.0	routing t Flags Met UGH 1 U 0	able ric 0	A
System Check Command Output	Display IPv4 T Destination Ref Use Ifa 127.0.0.1 0 10.168.10.0 152.168.10.0 0 bdd1	able Gateway Ce 127.0.0.1 0.0.0.0 192.168.10.1	Kernel IP Genmask 255.255.255.255 255.255.255.0 255.255.255.0	routing t Flags Met UGH 1 UG 1	able ric 0 0	

9.10.1 Ping

This utility can be used to test connectivity between this router and another device on the network connected to this router. Enter an IP address and click PING. The command output will appear indicating the ICMP echo request status.

9.10.2 Trace Route

This utility will display all the routers present between the destination IP address and this router. Up to 30 "hops" (intermediate routers) between this router and the destination will be displayed.

Figure 149: Sample trace route output

	Оре	ration Succeede				
Capture Packets	ystem Check					
router's static and d	ynamic routes.					
	Display IPv4 T	able				
E	Destination	Gateway	Kernel IP Genmask	Flags	ng tak Metri	c Ref
	127.0.0.1	127.0.0.1	255.255.255.255	UGH	1	0
	192.168.10.0	0.0.0.0	255.255.255.0	σ	0	0
	0 bdg1 192.168.10.0 0 bdg1	192.168.10.1	255.255.255.0	UG	1	0

9.10.3 DNS Lookup

To retrieve the IP address of a Web, FTP, Mail or any other server on the Internet, type the Internet Name in the text box and click Lookup. If the host or domain entry exists, you will see a response with the IP address. A message stating "Unknown Host" indicates that the specified Internet Name does not exist.

This feature assumes there is internet access available on the WAN link(s).

9.10.4 Router Options

The static and dynamic routes configured on this router can be shown by clicking Display for the corresponding routing table. Clicking the Packet Trace button will allow the router to capture and display traffic through the DSR between the LAN and WAN interface as well. This information is often very useful in debugging traffic and routing issues.

9.11 Localization

Maintenance > Administration > Set Language

The router GUI displays content in English by default. The package manager feature has to be enabled so that the appropriate language of the installed language package is shown. The user must configure the package manager feature under Advanced settings first, in order to install a language package.

Figure 150: Localization

	🝘 Status	🛜 Wireless	💻 Network	යි VPN	盈 Security	Maintenance	
Maintenar	ce » Administration	» Set Language					00
		•	Please install dri packa	ivers for langu gemanager	ages in		
This page	shows the list of av	vailable languages.					
Set	Language	[English	T			
			Save	Cancel			

Chapter 10. Router Status and Statistics

10.1 System Overview

The Status page allows you to get a detailed overview of the system configuration. The settings for the wired and wireless interfaces are displayed in the DSR Status page, and then the resulting hardware resource and router usage details are summarized on the router's Dashboard.

10.1.1 Device Status

Status > System Information > Device > System

The DSR Status page gives a summary of the router configuration settings configured in the Setup and Advanced menus. The static hardware serial number and current firmware version are presented in the General section. The WAN and LAN interface information shown on this page are based on the administrator configuration parameters. The radio band and channel settings are presented below along with all configured and active APs that are enabled on this router.

Figure 151: Device Status display

🖓 Status 🛜 Wireless	💻 Network	🚯 VPN	Security	ᅌ Maintenance				
Status » System Information » Device » System					00			
System LAN Dedicated WAN Rollover	WAN Wireless							
All of your Internet and network connection det also displayed here.	ails are displayed on the	Device Status page	e. The firmware version	n and hardware serial nu	mber is			
System Information								
General System Name Firmware Version Hardware Version	DSR-250N 2.00_WW A1							
Serial Number	QBD1123456789							
Call Status Wireless	💻 Network	යි VPN	<u> </u> Security	🔅 Maintenance				
Status » System Information » Device » LAN					00			
System LAN Dedicated WAN Rollover	WAN Wireless							
All of your LAN network connection details are o	lisplayed on the Device St	atus page.						
LAN Information								
Description	LAN Info							
MAC Address	MAC Address 00:19:21:68:50:00							
IPv4 Address	192.168.50.1 / 255	.255.255.0						
IPv6 Address	fec0::1 / 64							
Status	UP							
DHCP Server	Disabled							
DHCP Relay	Disabled							

🐼 Stat	tus 🛜	Wireless		letwork	🖒 VPN	£	Security	🌻 Maintenance		
Status » System Informa	ation » Device	» WAN1							?	0
System LAN D	edicated WAN	Rollover W	AN Wire	less						
All of your Dedicated \	WAN network c	onnection det	ails are dis	played on th	e Device Status	page.				
Dedicated WAN In	formation									
Description				Ded	icated WAN In	fo				
MAC Address				28:10	:7B:BE:23:21					
IPv4 Address				0.0.0.	0 / 255.255.255.0					
IPv6 Address				N/A						
Status				DOW	4					
IPv6 Connection Type				N/A						
IPv6 Connection State				IPv6 i	s disabled					
Prefix Obtained				N/A						
NAT (IPv4 Opky)				Eash	od					
IDud Connection Type				Dura						
IPv4 Connection State				Not Y	et Connected					
Link State				LINK	DOWN					
WAN Mode				Use o	nly single port: W	AN1				
Gateway				0.0.0	0					
Primary DNS				0.0.0.	0					
Secondary DNS				0.0.0.	0					
			Renew	Re	lease					
🙆 Stat	tus 🛜	Wireless	۱ 💻 ۱	letwork	🕜 VPN		Security	🍄 Maintenance		
Status » System Informa	ition » Device	» Wireless							?	0
System LAN D	edicated WAN	Rollover WA	AN Wirel	ess						
System Entry S										
All of your wireless ne	twork connecti	on details are	displayed	on the Devic	e Status page.					
Wireless Lan Infor	mation									
Description					Wirele	ss LAN				
Operating Frequency					2.4GHz					
Mode					B/G-Mixe	ed				
Channel					1					
Available Access P	oints									
SSID	Security	1	E	ncryption		Δ	uthentica	tion		
AutoTest	WEP		1	28		S	hared			

Figure 152: Device Status display (continued)

🙆 Status 🛜 Wireless 💂 Netwo	rk 🏠 VPN 🔮 Security 🔅 Maintenance									
Status » System Information » Device » WAN2	0 0									
System LAN Dedicated WAN Rollover WAN Wireless										
All of your Rollover WAN network connection details are displayed on the Device Status page.										
Rollover WAN Information										
Description	Rollover WAN Info									
MAC Address	00:11:BB:CC:DD:70									
IPv4 Address	0.0.0.0 / 255.255.255.0									
IPv6 Address	N/A									
Status	DOWN									
IPv6 Connection Type	N/A									
IPv6 Connection State	IPv6 is disabled									
Prefix Obtained	N/A									
NAT (IPv4 Only)	Enabled									
IPv4 Connection Type IPv4 Connection State	36 Internet Not Yet Connected									
Link State	LINK DOWN									
WAN Mode	Use only single port: WAN1									
Gateway	0.0.0.0									
Primary DNS	0.0.0.0									
Secondary DNS	0.0.0									
Disable										

10.1.2 Resource Utilization

Status > Device Info > Dashboard

The Dashboard page presents hardware and usage statistics. The CPU and Memory utilization is a function of the available hardware and current configuration and traffic through the router. Interface statistics for the wired connections (LAN, WAN1, WAN2/DMZ, VLANs) provide indication of packets through and packets dropped by the interface. Click refresh to have this page retrieve the most current statistics.

Traffic Information

Figure 153: Resource Utilization statistics



Figure 154: Resource Utilization data (continued)

TrafficLANDedicated WANRollover WANIncoming524500Outgoing751730Dropped Incoming000Dropped Outgoing000Active InformationICMP Recieved Available VLANs1Active Interfacer7	Traffic Information			
Incoming 5245 0 0 Outgoing 7517 3 0 Dropped Incoming 0 0 0 Dropped Outgoing 0 0 0 Active Information 1 Image: Second Secon	Traffic	LAN	Dedicated WAN	Rollover WAN
Outgoing 7517 3 0 Dropped Incoming 0 0 0 Dropped Outgoing 0 0 0 Active Information ICMP Recieved Available VLANs 1 Active Information 7	Incoming	5245	0	0
Dropped Incoming 0 0 0 Dropped Outgoing 0 0 0 Active Information Image: Comparison of the second se	Outgoing	7517	3	0
Dropped Outgoing 0 0 Active Information	Dropped Incoming	0	0	0
Active Information ICMP Recieved Available VLANs 1 Active Interfacer 7	Dropped Outgoing	0	0	0
ICMP Recieved Available VLANs 1 Active Interfaces 7	Active Information			
Available VLANs 1	ICMP Recieved			
	Available VLANs	1		
Active interfaces	Active Interfaces	7		

Figure 155: Resource Utilization data (continued)

Traffic information			
Traffic	LAN	Dedicated WAN	Rollover WAN
Incoming	15014	0	0
Outgoing	17682	5	0
Dropped Incoming	0	0	0
Dropped Outgoing	0	0	0
Active Information			
ICMP Recieved			
Available VLANs	1		
Active Interfaces	7		

10.2 Traffic Statistics 10.2.1 Wired Port Statistics

Status > Network Information > Device Statistics

Detailed transmit and receive statistics for each physical port are presented here. Each interface (WAN1, WAN2/DMZ, LAN, and VLANs) have port specific packet level information provided for review. Transmitted/received packets, port collisions, and the cumulating bytes/sec for transmit/receive directions are provided for each interface along with the port up time. If you suspect issues with any of the wired ports, this table will help diagnose uptime or transmit level issues with the port.

The statistics table has auto-refresh control which allows display of the most current port level data at each page refresh. The default auto-refresh for this page is 10 seconds.

🛜 Wireless 💻 Network CA VPN 🔒 Security 🗢 Maintenance 🕢 Status Status » Network Information » Device Statistics **? 9** This page shows the Rx/Tx packet and byte count for all the system interfaces. It also shows the up time for all the interfaces. **Device Statistics** entries Show 10 [No right click options] Q 😣 🛛 Rx Pkts ⊖ Collisions ⊖ Tx B/s Port ☆ Tx Pkts 😣 Up time ۲ LAN 7084 4856 29 0 Days 00:52:53 0 56 WAN 3 0 Not Yet Available 0 0 0 Showing 1 to 2 of 2 entries Image: Heat of First Image: H

Figure 156: Physical port statistics

10.2.2 Wireless Statistics

Status > Network Information > Wireless Statistics

The Wireless Statistics tab displays the incrementing traffic statistics for each enabled access point. This page will give a snapshot of how much traffic is being transmitted over each wireless link. If you suspect that a radio or VAP may be down, the details on this page would confirm if traffic is being sent and received through the VAP.

The clients connected to a particular AP can be viewed by using the Status Button on the list of APs in the *Setup* > *Wireless* > *Access Points* page. Traffic statistics are shown for that individual AP, as compared to the summary stats for each AP on this Statistics page. The poll interval (the refresh rate for the statistics) can be modified to view more frequent traffic and collision statistics.

Figure 157: AP specific statistics

	🙆 Statu	5 🔶 Wi	reless 📮	Network	ഹം ∿	р N 🔂	Security	🗘° Maintena	ance .	
Status » No	Status » Network Information » Wireless Statistics									
Wireless tra AP.	(ireless traffic statistics for all configured access points are displayed in this table. The receive (Rx) and transmit (Tx) data is shown per configured .P.									
Wireless	Wireless Statistics									
Show 10	Show 10 T entries [No right click options]									
AP Name		Packets rx ⊖	Packets tx ⊖	Bytes rx⊖	Bytes tx⊖	Errors rx ⊖	Errors tx ⊖	Dropped rx 🕀	Dropped tx Θ	
ap1	1	0	0	0	0	0	0	0	0	
Showing 1 t	o 1 of 1 entries						First	Previous 1	Next 🔰 Last 刘	

10.3 Active Connections

10.3.1 Sessions through the Router

Status > Network Information > Active Sessions

This table lists the active internet sessions through the router's firewall. The session's protocol, state, local and remote IP addresses are shown.

Figure 158: List of current Active Firewall Sessions

	🕐 Status	<u></u>	Wireless	💻 Network	ഹ്ല vpi	1	Security	O° Mainte	nance
Status » 1	tatus » Network Information » Active Sessions								
Use this p	Jse this page to monitor the sessions that are active on your router.								
Active S	Active Sessions List								
Show 10	Show 10 🔻 entries [No right click options]							٩	
Source		÷	Destinatio	in	⇔	Protocol	⇔	State	⇔
192.168.10	.1:443		192.168.10.20	0:51084		tcp		ESTABLISHED	
192.168.10.1:443 192.168.10.200:50832				tcp		ESTABLISHED			
192.168.10.1:443 192.168.10.200:51065 tcp ESTABLISHED									
Showing 1 to 3 of 3 entries						Next > Last >			

10.3.2 Wireless Clients

Status > Network Information > Wireless Clients

The clients connected to a particular AP can be viewed on this page. Connected clients are sorted by the MAC address and indicate the security parameters used by the wireless link, as well as the time connected to the corresponding AP.

The statistics table has auto-refresh control which allows display of the most current port level data at each page refresh. The default auto-refresh for this page is 10 seconds.

Figure 159: List of connected 802.11 clients per AP

		Status	🛜 Wi	ireless		💻 Netw	ork	rav 🟠 vpi	И	Security	¢	• Maintenance	
Status »	itatus » Network Information » Wireless Clients												
This list i	This list identifies the wireless clients (or stations) currently connected to the Access Points configured and enabled on this device.												
Wireles	s Client	S											
Show 10	Show 10 🔹 entries [No right click options]												
AP Nam	e 🗘	MAC Addre	ss ⊖	Radio	⇔	Security	¢	Encryption	⇔	Authentication	÷	Time Connected	⇔
No data available in table													
Showing) to 0 of 0	entries								Н	First	Previous Next >	Last 刘

10.3.3 LAN Clients

Status > Network Information > LAN Clients

The LAN clients to the router are identified by an ARP scan through the LAN switch. The NetBIOS name (if available), IP address and MAC address of discovered LAN hosts are displayed.

Figure 160: List of LAN hosts

A Status	🛜 Wireless	💻 Network	යි VPN	🔒 Secur	ity 🔅 Maintenance			
Status » Network Information »	LAN Clients					00		
This page displays a list of LAN	This page displays a list of LAN clients connected to the router.							
LAN Clients List								
Show 10 • entries [No right click options]					٩		
Name	IP Address		⇔	MAC Address		⇔		
unknown	192.168.10.200			00:80:48:63:2e:a7				
Showing 1 to 1 of 1 entries					First Previous 1 Next)	> Last >		

10.3.4 Active VPN Tunnels

Status > Network Information > Active VPNs > IPsec SAs

You can view and change the status (connect or drop) of the router's IPsec security associations. Here, the active IPsec SAs (security associations) are listed along with

the traffic details and tunnel state. The traffic is a cumulative measure of transmitted/received packets since the tunnel was established.

If a VPN policy state is "IPsec SA Not Established", it can be enabled by clicking the Connect button of the corresponding policy. The Active IPsec SAs table displays a list of active IPsec SAs. Table fields are as follows.

Field	Description
Policy Name	IKE or VPN policy associated with this SA.
Endpoint	IP address of the remote VPN gateway or client.
Тх (КВ)	Kilobytes of data transmitted over this SA.
Tx (Packets)	Number of IP packets transmitted over this SA.
State	Status of the SA for IKE policies: Not Connected or IPsec SA Established.

Figure 161: List of current Active VPN Sessions

🕜 Status	🛜 Wireless	💻 Network	යි VPN	<u> </u> Security	🔅 Maintenance			
Status » Network Information	» Active VPNs » IPsec	5As				00		
IPsec SAs SSL VPN Co	nnections PPTP VPN	Connections Open \	/PN Connections	L2TP VPN Connections				
This page lists current estab	This page lists current established IPsec Security Associations.							
Active IPsec SAs List								
Show 10 • entries	[Right click on record to	get more options]				٩		
Policy Name	🗘 Endpoint	⊖ tx (⊮	(B)	tx (Packets)	⊖ State	⇔		
		No data av	ailable in table					
Showing 0 to 0 of 0 entries				K Fi	rst 🔄 Previous 🛛 Next 🗦	Last 刘		
🙆 Status	🛜 Wireless	💻 Network	ക vpn	🚊 Security	©° Maintenance			
Status » Network Information	» Active VPNs » SSL V	PN Connections				00		
IPsec SAs SSL VPN Co	nnections PPTP VPN	Connections Open 1	VPN Connections	L2TP VPN Connections				
This page lists current estab	lished SSL VPN tunnels	,						
Active SSL VPN Connec	tions							
Show 10 • entries	[Right click on record to	get more options]				٩		
User Name 🔂 IP A	ddress ⊖ Loca	l PPP Interface	⊖ Peer Pl	PP Interface	⊖ Connect Status	⇔		
		No data av	ailable in table					
Showing 0 to 0 of 0 entries				K Fi	rst 🔄 Previous Next 💡	Last 刘		
🙆 Status	🛜 Wireless	💻 Network	🚯 VPN	Security	🍄 Maintenance			
Status » Network Information	» Active VPNs » PPTP	VPN Connections				00		
IPsec SAs SSL VPN Co	nnections PPTP VPN	Connections OpenV	PN Connections	L2TP VPN Connections				
This page lists current estab	lished PPTP VPN tunne	5.						
Active PPTP VPN Conne	ections							
Show 10 • entries	[Right click on record to	get more options]				٩		
Connection Status						Û		
Disconnected								
Showing 1 to 1 of 1 entries				K First	I Previous 1 Next >	Last 刘		

All active SSL VPN connections, both for VPN tunnel and VPN Port forwarding, are displayed on this page as well. Table fields are as follows.

Field	Description
User Name	The SSL VPN user that has an active tunnel or port forwarding session to this router.
IP Address	IP address of the remote VPN client.
Local PPP Interface	The interface (WAN1 or WAN2) through which the session is active.
Peer PPP Interface IP	The assigned IP address of the virtual network adapter.
Connect Status	Status of the SSL connection between this router and the remote VPN client: Not Connected or Connected.

Chapter 11. Trouble Shooting

11.1 Internet connection

Symptom: You cannot access the router's web-configuration interface from a PC on your LAN.

Recommended action:

- 1. Check the Ethernet connection between the PC and the router.
- Ensure that your PC's IP address is on the same subnet as the router. If you are using the recommended addressing scheme, your PC's address should be in the range 192.168.10.2 to 192.168.10.254.
- **3.** Check your PC's IP address. If the PC cannot reach a DHCP server, some versions of Windows and Mac OS generate and assign an IP address. These auto-generated addresses are in the range 169.254.x.x. If your IP address is in this range, check the connection from the PC to the firewall and reboot your PC.
- **4.** If your router's IP address has changed and you don't know what it is, reset the router configuration to factory defaults (this sets the firewall's IP address to 192.168.10.1).
- 5. If you do not want to reset to factory default settings and lose your configuration, reboot the router and use a packet sniffer (such as EtherealTM) to capture packets sent during the reboot. Look at the Address Resolution Protocol (ARP) packets to locate the router's LAN interface address.
- 6. Launch your browser and ensure that Java, JavaScript, or ActiveX is enabled. If you are using Internet Explorer, click Refresh to ensure that the Java applet is loaded. Close the browser and launch it again.
- 7. Ensure that you are using the correct login information. The factory default login name is admin and the password is password. Ensure that CAPS LOCK is off when entering this information.

Symptom: Router does not save configuration changes.

Recommended action:

- 1. When entering configuration settings, click Apply before moving to another menu or tab; otherwise your changes are lost.
- **2.** Click Refresh or Reload in the browser. Your changes may have been made, but the browser may be caching the old configuration.

Symptom: Router cannot access the Internet.

Possible cause: If you use dynamic IP addresses, your router may not have requested an IP address from the ISP.

Recommended action:

- 1. Launch your browser and go to an external site such as www.google.com.
- 2. Access the firewall's configuration main menu at http://192.168.10.1.
- 3. Select *Monitoring > Router Status*.
- 4. Ensure that an IP address is shown for the WAN port. If 0.0.0.0 is shown, your firewall has not obtained an IP address from your ISP. See the next symptom.

Symptom: Router cannot obtain an IP address from the ISP.

Recommended action:

- 1. Turn off power to the cable or DSL modem.
- 2. Turn off the router.
- 3. Wait 5 minutes, and then reapply power to the cable or DSL modem.
- 4. When the modem LEDs indicate that it has resynchronized with the ISP, reapply power to the router. If the router still cannot obtain an ISP address, see the next symptom.

Symptom: Router still cannot obtain an IP address from the ISP.

Recommended action:

- 1. Ask your ISP if it requires a login program PPP over Ethernet (PPPoE) or some other type of login.
- 2. If yes, verify that your configured login name and password are correct.
- **3.** Ask your ISP if it checks for your PC's hostname.
- If yes, select *Network Configuration > WAN Settings > Ethernet ISP Settings* and set the account name to the PC hostname of your ISP account.
- 5. Ask your ISP if it allows only one Ethernet MAC address to connect to the Internet, and therefore checks for your PC's MAC address.
- **6.** If yes, inform your ISP that you have bought a new network device, and ask them to use the firewall's MAC address.
- Alternatively, select *Network Configuration > WAN Settings > Ethernet ISP* Settings and configure your router to spoof your PC's MAC address.

Symptom: Router can obtain an IP address, but PC is unable to load Internet pages.

Recommended action:

- Ask your ISP for the addresses of its designated Domain Name System (DNS) servers. Configure your PC to recognize those addresses. For details, see your operating system documentation.
- 2. On your PC, configure the router to be its TCP/IP gateway.

11.2 Date and time

Symptom: Date shown is January 1, 1970.

Possible cause: The router has not yet successfully reached a network time server (NTS).

Recommended action:

1. If you have just configured the router, wait at least 5 minutes, select Administration >

Time Zone, and recheck the date and time.

2. Verify your Internet access settings.

Symptom: Time is off by one hour.

Possible cause: The router does not automatically adjust for Daylight Savings Time.

Recommended action:

- 1. Select *Administration > Time Zone* and view the current date and time settings.
- 2. Click to check or uncheck "Automatically adjust for Daylight Savings Time", then click Apply.

11.3 Pinging to Test LAN Connectivity

Most TCP/IP terminal devices and firewalls contain a ping utility that sends an ICMP echo-request packet to the designated device. The DSR responds with an echo reply. Troubleshooting a TCP/IP network is made very easy by using the ping utility in your PC or workstation.

11.3.1 Testing the LAN path from your PC to your

router

- 1. From the PC's Windows toolbar, select Start > Run.
- 2. Type ping <IP_address> where <IP_address> is the router's IP address. Example: ping 192.168.10.1.
- 3. Click OK.

- 4. Observe the display:
 - If the path is working, you see this message sequence:

Pinging <IP address> with 32 bytes of data

Reply from <IP address>: bytes=32 time=NN ms TTL=xxx

• If the path is not working, you see this message sequence:

Pinging <IP address> with 32 bytes of data

Request timed out

- 5. If the path is not working, Test the physical connections between PC and router
 - If the LAN port LED is off, go to the "LED displays" section on page B-1 and follow instructions for "LAN or Internet port LEDs are not lit."
 - Verify that the corresponding link LEDs are lit for your network interface card and for any hub ports that are connected to your workstation and firewall.
- **6.** If the path is still not up, test the network configuration:
 - Verify that the Ethernet card driver software and TCP/IP software are installed and configured on the PC.
 - Verify that the IP address for the router and PC are correct and on the same subnet.

11.3.2 Testing the LAN path from your PC to a remote device

- 1. From the PC's Windows toolbar, select Start > Run.
- Type ping -n 10 <IP_address> where -n 10 specifies a maximum of 10 tries and <IP address> is the IP address of a remote device such as your ISP's DNS server. Example: ping -n 10 10.1.1.1.
- 3. Click OK and then observe the display (see the previous procedure).
- 4. If the path is not working, do the following:
 - Check that the PC has the IP address of your firewall listed as the default gateway. (If the IP configuration of your PC is assigned by DHCP, this information is not visible in your PC's Network Control Panel.)

- Verify that the network (subnet) address of your PC is different from the network address of the remote device.
- Verify that the cable or DSL modem is connected and functioning.
- Ask your ISP if it assigned a hostname to your PC.

If yes, select *Network Configuration* > *WAN Settings* > *Ethernet ISP Settings* and enter that hostname as the ISP account name.

• Ask your ISP if it rejects the Ethernet MAC addresses of all but one of your PCs.

Many broadband ISPs restrict access by allowing traffic from the MAC address of only your broadband modem; but some ISPs additionally restrict access to the MAC address of just a single PC connected to that modem. If this is the case, configure your firewall to clone or spoof the MAC address from the authorized PC.

11.4 Restoring factory-default configuration settings

To restore factory-default configuration settings, do either of the following:

- 1. Do you know the account password and IP address?
 - If yes, select *Maintenance* > *Firmware & Config* > *Soft Reboot* and click Default.
 - If you do not, do the following:
 - On the rear panel of the router, press and hold the Reset button about 10 seconds, until the test LED lights and then blinks.
 - \circ Release the button and wait for the router to reboot.
- 2. If the router does not restart automatically; manually restart it to make the default settings effective.
- **3.** After a restore to factory defaults —whether initiated from the configuration interface or the Reset button the following settings apply:
 - LAN IP address: 192.168.10.1
 - Username: admin
 - Password: admin
 - DHCP server on LAN: enabled
 - WAN port configuration: Get configuration via DHCP

Chapter 12. Credits

Microsoft, Windows are registered trademarks of Microsoft Corp. Linux is a registered trademark of Linus Torvalds. UNIX is a registered trademark of The Open Group.

Appendix A. Glossary

ARP	Address Resolution Protocol. Broadcast protocol for mapping IP addresses to MAC addresses.
СНАР	Challenge-Handshake Authentication Protocol. Protocol for authenticating users to an ISP.
DDNS	Dynamic DNS. System for updating domain names in real time. Allows a domain name to be assigned to a device with a dynamic IP address.
DHCP	Dynamic Host Configuration Protocol. Protocol for allocating IP addresses dynamically so that addresses can be reused when hosts no longer need them.
DNS	Domain Name System. Mechanism for translating H.323 IDs, URLs, or e-mail IDs into IP addresses. Also used to assist in locating remote gatekeepers and to map IP addresses to hostnames of administrative domains.
FQDN	Fully qualified domain name. Complete domain name, including the host portion. Example: serverA.companyA.com.
FTP	File Transfer Protocol. Protocol for transferring files between network nodes.
нттр	Hypertext Transfer Protocol. Protocol used by web browsers and web servers to transfer files.
IKE	Internet Key Exchange. Mode for securely exchanging encryption keys in ISAKMP as part of building a VPN tunnel.
IPsec	IP security. Suite of protocols for securing VPN tunnels by authenticating or encrypting IP packets in a data stream. IPsec operates in either transport mode (encrypts payload but not packet headers) or tunnel mode (encrypts both payload and packet headers).
ISAKMP	Internet Key Exchange Security Protocol. Protocol for establishing security associations and cryptographic keys on the Internet.
ISP	Internet service provider.
MAC Address	Media-access-control address. Unique physical-address identifier attached to a network adapter.
ΜΤυ	Maximum transmission unit. Size, in bytes, of the largest packet that can be passed on. The MTU for Ethernet is a 1500-byte packet.
NAT	Network Address Translation. Process of rewriting IP addresses as a packet passes through a router or firewall. NAT enables multiple hosts on a LAN to access the Internet using the single public IP address of the LAN's gateway router.
NetBIOS	Microsoft Windows protocol for file sharing, printer sharing, messaging, authentication, and name resolution.
NTP	Network Time Protocol. Protocol for synchronizing a router to a single clock on the network, known as the clock master.
PAP	Password Authentication Protocol. Protocol for authenticating users to a remote access server or ISP.

PPPoE	Point-to-Point Protocol over Ethernet. Protocol for connecting a network of hosts to an ISP without the ISP having to manage the allocation of IP addresses.
РРТР	Point-to-Point Tunneling Protocol. Protocol for creation of VPNs for the secure transfer of data from remote clients to private servers over the Internet.
RADIUS	Remote Authentication Dial-In User Service. Protocol for remote user authentication and accounting. Provides centralized management of usernames and passwords.
RSA	Rivest-Shamir-Adleman. Public key encryption algorithm.
тср	Transmission Control Protocol. Protocol for transmitting data over the Internet with guaranteed reliability and in-order delivery.
UDP	User Data Protocol. Protocol for transmitting data over the Internet quickly but with no guarantee of reliability or in-order delivery.
VPN	Virtual private network. Network that enables IP traffic to travel securely over a public TCP/IP network by encrypting all traffic from one network to another. Uses tunneling to encrypt all information at the IP level.
WINS	Windows Internet Name Service. Service for name resolution. Allows clients on different IP subnets to dynamically resolve addresses, register themselves, and browse the network without sending broadcasts.
XAUTH	IKE Extended Authentication. Method, based on the IKE protocol, for authenticating not just devices (which IKE authenticates) but also users. User authentication is performed after device authentication and before IPsec negotiation.

Appendix B. Factory Default Settings

Feature	Description	Default Setting
	User login URL	http://192.168.10.1
Device login	User name (case sensitive)	admin
	Login password (case sensitive)	admin
	WAN MAC address	Use default address
Internet Connection	WAN MTU size	1500
	Port speed	Autosense
	IP address	192.168.10.1
	IPv4 subnet mask	255.255.255.0
	RIP direction	None
	RIP version	Disabled
	RIP authentication	Disabled
Local area network	DHCP server	Enabled
(LAN)	DHCP starting IP address	192.168.10.2
	DHCP ending IP address	192.168.10.100
	Time zone	GMT
	Time zone adjusted for Daylight Saving Time	Disabled
	SNMP	Disabled
	Remote management	Disabled
	Inbound communications from the Internet	Disabled (except traffic on port 80, the HTTP port)
Firewall	Outbound communications to the Internet	Enabled (all)
	Source MAC filtering	Disabled
	Stealth mode	Enabled

Appendix C. Standard Services Available for Port Forwarding & Firewall Configuration

ANY	ICMP-TYPE-8	RLOGIN
AIM	ICMP-TYPE-9	RTELNET
BGP	ICMP-TYPE-10	RTSP:TCP
BOOTP_CLIENT	ICMP-TYPE-11	RTSP:UDP
BOOTP_SERVER	ICMP-TYPE-13	SFTP
CU-SEEME:UDP	ICQ	SMTP
CU-SEEME:TCP	IMAP2	SNMP:TCP
DNS:UDP	IMAP3	SNMP:UDP
DNS:TCP	IRC	SNMP-TRAPS:TCP
FINGER	NEWS	SNMP-TRAPS:UDP
FTP	NFS	SQL-NET
НТТР	NNTP	SSH:TCP
HTTPS	PING	SSH:UDP
ICMP-TYPE-3	POP3	STRMWORKS
ICMP-TYPE-4	РРТР	TACACS
ICMP-TYPE-5	RCMD	TELNET
ICMP-TYPE-6	REAL-AUDIO	TFTP
ICMP-TYPE-7	REXEC	VDOLIVE

Appendix D. Log Output Reference

Facility: System (Networking)

Log Message	Severity	Log Message	Severity
DBUpdate event: Table: %s	555110	BridgeConfig: too few arguments to	
opCode:%d rowld:%d	DEBUG	command %s	ERROR
networkIntable.txt not found	DEBUG	command %s	ERROR
sqlite3QueryResGet failed	DEBUG	sqlite3QueryResGet failed.Query:%s	ERROR
Interface is already deleted in bridge	DEBUG	ddnsDisable failed	ERROR
removing %s from bridge %s %s	DEBUG	sqlite3QueryResGet failed.Query:%s	ERROR
adding %s to bridge %s %s	DEBUG	sqlite3QueryResGet failed.Query:%s	ERROR
stopping bridge	DEBUG	ddnsDisable failed	ERROR
stopping bridge	DEBUG	failed to call ddns enable	ERROR
stopping bridge	DEBUG	ddnsDisable failed	ERROR
%s:DBUpdate event: Table: %s			
opCode:%d rowld:%d	DEBUG	sqlite3QueryResGet failed.Query:%s	ERROR
Wan is not up	DEBUG	handler	FRROR
%s:DBUpdate event: Table: %s	02000		Linton
opCode:%d rowld:%d	DEBUG	sqlite3QueryResGet failed.Query:%s	ERROR
doDNS:failed	DEBUG	Illegal invocation of ddnsView (%s)	ERROR
doDNS:failed	DEBUG	sqlite3QueryResGet failed.Query:%s	ERROR
doDNS:Result = FAILED	DEBUG	sqlite3QueryResGet failed.Query:%s	ERROR
doDNS:Result SUCCESS	DEBUG	ddns: SQL error: %s	ERROR
Write Old Entry: %s %s %s: to %s	DEBUG	Illegal operation interface got deleted	ERROR
Write New Entry: %s %s #%s : to %s	DEBUG	sqlite3QueryResGet failed.Query:%s	ERROR
Write Old Entry: %s %s %s: to %s	DEBUG	sqlite3QueryResGet failed.Query:%s	ERROR
Write New Entry: %s %s #%s : to %s	DEBUG	sqlite3QueryResGet failed.Query:%s	ERROR
ifStaticMgmtDBUpdateHandler:	DEDUG		
returning with "	DEBUG	ddnsDisable failed	ERROR
nimfLinkStatusGet: buffer: \	DEBUG	ddns: SQL error: %s	ERROR
status: %d	DEBUG	Failed to call ddns enable	ERROR
nimfAdvOptSetWrap: current Mac			
Option: %d	DEBUG	ddns: SQL error: %s	ERROR
nimfAdvOptSetWrap: current Port		salite3Ouen/ResCet failed Ouen/:%s	
nimfAdvOptSetWrap: current Mtu	DLD0G	squesquery resolet failed. Query. 765	LINION
Option: %d	DEBUG	Failed to call ddns enable	ERROR
nimfAdvOptSetWrap: looks like we are	DEDUO		
reconnecting.	DEBUG	ddns: SQL error: %s	
	DEBUG		ERROR
nimfAdvOptSetWrap: NIMF table is %s	DEBUG	ddns: SQL error: %s	ERROR
TRIGGER	DEBUG	sqlite3QueryResGet failed.Query:%s	ERROR
nimfAdvOptSetWrap: MTU: %d	DEBUG	Failed to call ddns enable	ERROR
nimfAdvOptSetWrap: MacAddress: %s	DEBUG	ddns: SQL error: %s	ERROR
nimfAdvOptSetWrap: old Mtu Flag: %d	DEBUG	ddnsDisable failed	ERROR

NTU option DEBUG ddns: SQL error: %s ERROR nimfAdvOptSetWrap: old MTU size: %d DEBUG sqlite3QueryResGet failed.Query.%s ERROR nimfAdvOptSetWrap: old MTU size: %d DEBUG ddns. SQL error. %s ERROR nimfAdvOptSetWrap: old Mac Address DEBUG ddns. SQL error. %s ERROR nimfAdvOptSetWrap: MacAddress: %s DEBUG ddns: SQL error. %s ERROR NimfAdvOptSetWrap: MacAddress: %s DEBUG ddns: SQL error. %s ERROR Setting LED [%d]; %d] For %s DEBUG ddns. SQL error. %s ERROR nimfAdvOptSetWrap: INDICATOR = %d DEBUG ddns. SQL error. %s ERROR nimfAdvOptSetWrap: UpdateFlag: %d DEBUG ddns. SQL error. %s ERROR nimfAdvOptSetWrap: Interuning with DEBUG sqlite3QueryResGet failed.Query.%s ERROR nimfMacGet: MacAddress: %s DEBUG sqlite3QueryResGet failed.Query.%s ERROR nimfMacGet: MacAddress: %s DEBUG sqlite3QueryResGet failed.Query.%s ERROR nimfMacGet: MacAddress: %s DEBUG Error opening the lanUptime File. ERROR nim	nimfAdvOptSetWrap: user has changed			
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%s·DBUpdate event: Table: %s	l	1	1
opCode:%d rowld:%d	DEBUG	Failed to commit	ERROR
%s:%d SIP ENABLE: %s	DEBUG	ifStatusDBUpdate: Failed to begin "	ERROR
sipTblHandler:failed to update ifStatic	DEBUG	%s: SQL error: %s	ERROR
sipTblHandler:failed to update			
Configport	DEBUG	%s: Failed to commit "	ERROR
		nimfNetIfaceTblHandler: unable to	
%s:%d SIP DISABLE: %s	DEBUG	get LedPinId	ERROR
%s·%d SIP SET CONE: %s	DEBUG		FRROR
	DEBOO	nimfNetIfaceTblHandler: unable to	Littloit
Failed to open %s: %s	DEBUG	get LedPinId	ERROR
Failed to start sipalg	DEBUG	%s: unable to kill dhclient	ERROR
		nimfAdvOptSetWrap: unable to get	Ĩ
Failed to stop sipalg	DEBUG	current Mac Option	ERROR
Failed to get config info		nimfAdvOptSetWrap: unable to get	
Failed to get coning into	DEBUG	nimfAdyOntSetWrap: upable to get	ERROR
Network Mask: 0x%x	DEBUG	current MTU Option	ERROR
		nimfAdvOptSetWrap: error getting	1
RTP DSCP Value: 0x%x	DEBUG	Mac Address from "	ERROR
	DEDUG	nimfAdvOptSetWrap: unable to get	
Need more arguments	DEBUG	the MIU	ERROR
Invalid lanaddr	DEBUG	interface advanced "	FRROR
	DEBOO	nimfAdvOptSetWrap: error getting	Littloit
Invalid lanmask	DEBUG	MTU size	ERROR
		nimfAdvOptSetWrap: unable to get	
Invalid option	DEBUG	Mac Address	ERROR
Failed to set config info		nimtAdvOptSetWrap: error setting	
T alled to set coring into	DEBUG	nimfAdvOptSetWrap: failed to get	
Unknown option	DEBUG	old connectiontype	ERROR
		nimfAdvOptSetWrap: old connection	
sshdTblHandler	DEBUG	type is: %s	ERROR
		nimfAdvOptSetWrap: failed to get	
pP0n. %s	DEBUG	nimfAdyOptSetWrap: error getting	ERROR
pProtocol: %s	DEBUG	MTU size	ERROR
		nimfOldFieldValueGet: failed to get	
pListerAddr: %s	DEBUG	old "	ERROR
	DEDUG	nimfOldFieldValueGet: user has	
pKeyBits: %s	DEBUG	changed MTU size	ERROR
nRootEnable: %s	DEBUG	old Port Speed "	FRROR
	DEBOO	nimfAdvOptSetWrap: user has	LINION
pRsaEnable: %s	DEBUG	changed Port Speed	ERROR
		nimfAdvOptSetWrap: failed to get	
pDsaEnable: %s	DEBUG	old Mac Address "	ERROR
nPassEnable: %s		nimfAdvOptSetWrap: user has	EPPOP
		nimfAdvOptSetWrap: unable to get	
pEmptyPassEnable: %s	DEBUG	Mac Address	ERROR
		nimfAdvOptSetWrap:Failed to	
pSftpEnable: %s	DEBUG	RESET the flag	ERROR
nSanEnable: % a	DEDUC	nimtAdvOptSetWrap: setting	
poupenable. 705	DEDUG	auvanceu options falleu	

		nimfAdvOptSetWrap: interface	
pSshdEnable: %s	DEBUG	advanced options applied	ERROR
pPrivSep: %s	DEBUG	nimfGetUpdateMacFlag: unable to get Flag from MacTable	ERROR
%s:DBUpdate event: Table: %s		nimfMacGet: Updating MAC address	
opCode:%d rowld:%d	DEBUG	failed	ERROR
Re-Starting sshd daemon	DEBUG	sqlite3QueryResGet failed.Query:%s	ERROR
sshd re-started successfully.	DEBUG	error executing the command %s	ERROR
sshd stopped .	DEBUG	error executing the command %s	ERROR
failed query %s	DEBUG	error executing the command %s	ERROR
vlan disabled, not applying vlan	DEDUO	disableLan function is failed to	
configuration	DEBUG		ERROR
failed query %s	DEBUG	sqlite3QueryResGet failed.Query:%s	ERROR
failed query %s	DEBUG	sqlite3QueryResGet failed.Query:%s	ERROR
no ports present in this vlanId %d	DEBUG	from	ERROR
failed query %s	DEBUG	configPortTblHandler has failed	ERROR
vlan disabled, not applying vlan			
configuration	DEBUG	Error in executing DB update	ERROR
disabling vlan	DEBUG	handler	ERROR
enabling vlan	DEBUG	sqlite3QueryResGet failed	ERROR
vlan disabled, not applying vlan		Failed to execute switchConfig for	
comguration	DEBUG	Failed to execute switchConfig for	ENNON
no ports present in this vlanId %d	DEBUG	port enable	ERROR
· · ·		Failed to execute ifconfig for port	
failed query %s	DEBUG	enable	ERROR
vlan disabled, not applying vlan configuration	DEBUG	Failed to execute ethtool for\	ERROR
		Failed to execute switchConfig for	
removing %s from bridge%s %s	DEBUG	port disable	ERROR
adding %s to bridge%d %s	DEBUG	disable	ERROR
restarting bridge	DEBUG	solite3QueryResGet failed	
[switchConfig] Ignoring event on port	DEBOO		LINION
number %d	DEBUG	sqlite3_mprintf failed	ERROR
restarting bridge	DEBUG	sqlite3QueryResGet failed	ERROR
		Failed to execute switchConfig for	
executing %s %s	DEBUG	port mirroring	ERROR
removing %s from bridge%s %s	DEBUG	Name> <logfile> <subject></subject></logfile>	ERROR
adding %s to bridge%d %s	DEBUG	sqlite3QueryResGet failed	ERROR
		Could not get all the required	
[switchConfig] Ignoring event on %s	DEBUG	variables to email the Logs.	ERROR
restarting bridge	DEBUG	runSmtpClient failed	ERROR
IswitchConfig] ignoring event on port	DEBUG	getaddrinfo returned %s	ERROR
[switchConfig] executing %s %s	DEBUG	file not found	ERROR
restarting bridge	DEBUG	sqlite3QueryResGet failed.Query:%s	ERROR
UserName: %s	DEBUG	sqlite3QueryResGet failed.Query:%s	ERROR
Password: %s	DEBUG	sqlite3QueryResGet failed.Query:%s	ERROR
IspName: %s	DEBUG	No memory to allocate	ERROR
		Failed to Open SSHD Configuration	
DialNumber: %s	DEBUG	File	ERROR

		Inaddress should be provided with	
Apn: %s	DEBUG	accessoption 1	ERROR
		Subnetaddress should be provided	
GetDnsFromIsp: %s	DEBUG	with accessoption 2	ERROR
IdleTimeOutFlag: %s	DEBUG	Failed to restart sshd	ERROR
IdleTimeOutValue: %d	DEBUG	unable to open the "	ERROR
AuthMetho: %d	DEBUG	sqlite3QueryResGet failed.Query:%s	ERROR
		Error in executing DB update	
executing %s %s	DEBUG	Fror in executing DB update	ERROR
removing %s from bridge%d %s	DEBUG	handler	ERROR
adding %s to bridge%d %s	DEBUG	unknown vlan state	ERROR
		Failed to execute vlanConfig binary	
stopping bridge	DEBUG	for vlanld %d	ERROR
restarting bridge	DEBUG	sqlite3_mprintf failed	ERROR
Could not configure 6to4 Tunnel		Access port can be present only in	
Could not de-configure 6to4 Tunnel	DEB0G	Failed to execute vlanConfig binary	LINION
Interface	DEBUG	for vlanld %d	ERROR
failed to restart 6to4 tunnel interfaces	DEBUG	unknown vlan state	ERROR
BridgeConfig: too few arguments to		Failed to execute vlanConfig binary	
command %s	DEBUG	for port number %d	ERROR
BridgeConfig: unsupported command	DEBUG	Failed to clear vian for oldPVID %d	
700	DEBOO	Failed to execute vlanConfig binary	Entron
BridgeConfig returned error=%d	DEBUG	for port number %d	ERROR
sqlite3QueryResGet failed	DEBUG	Failed to clear vlan for %d	ERROR
Error in executing DB update handler	DEBUG	Failed to set vlan entry for vlan %d	ERROR
		Failed to set vlan entries, while	
sqlite3QueryResGet failed	DEBUG	enabling \	ERROR
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sqlite3QueryResGet failed Invalid oidp passed Invalid oidp passed Failed to get oid from the tree threegEnable: Input to wrapper %s threegEnable: spawning command %s threegMgmtHandler: query string: %s threegMgmtHandler: returning with status: %s adding to dhcprealy ifgroup failed adding to ipset fwDhcpRelay failed Disabling Firewall Rule for DHCP Relay Protocol Enabling Firewall Rule for DHCP Relay Protocol	DEBUG DEBUG DEBUG DEBUG DEBUG DEBUG DEBUG DEBUG DEBUG	Failed to execute vlanConfig binary for port number %d Failed to execute vlanConfig binary for vlanld %d Failed to enable vlan Failed to observe vlanConfig binary for vlanld %d Failed to enable vlan Failed to set vlanPort table entries, while \ Failed to enable vlan unknown vlan state Error in executing DB update handler unknown vlan state Failed to execute vlanConfig binary for vlanld %d sqlite3_mprintf failed Access port can be present only in single vlan	ERROR ERROR ERROR ERROR ERROR ERROR ERROR ERROR ERROR ERROR ERROR
sqlite3QueryResGet failed Invalid oidp passed Invalid oidp passed Failed to get oid from the tree threegEnable: Input to wrapper %s threegEnable: spawning command %s threegMgmtHandler: query string: %s threegMgmtHandler: returning with status: %s adding to dhcprealy ifgroup failed adding to ipset fwDhcpRelay failed Disabling Firewall Rule for DHCP Relay Protocol Enabling Firewall Rule for DHCP Relay Protocol prerouting Firewall Rule add for Relay failed	DEBUG DEBUG DEBUG DEBUG DEBUG DEBUG DEBUG DEBUG DEBUG DEBUG DEBUG	Failed to execute vlanConfig binary for port number %d Failed to execute vlanConfig binary for vlanld %d Failed to enable vlan Failed to disable vlan Failed to set vlanPort table entries, while \ Failed to enable vlan Failed to enable vlan Failed to set vlanPort table entries, while \ Failed to enable vlan unknown vlan state Error in executing DB update handler unknown vlan state Failed to execute vlanConfig binary for vlanld %d sqlite3_mprintf failed Access port can be present only in single vlan Failed to execute vlanConfig binary for vlanld %d	ERROR ERROR ERROR ERROR ERROR ERROR ERROR ERROR ERROR ERROR ERROR
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	I	Failed to execute vlanConfig binary	
%s: SQL get query: %s	DEBUG	for port number %d	ERROR
%s: sqlite3QueryResGet failed	DEBUG	Failed to clear vlan for oldPVID %d	ERROR
		Failed to execute vlanConfig binary	
%s: no result found	DEBUG	for port number %d	ERROR
%s: buffer overflow	DEBUG	Failed to clear vlan for %d	ERROR
%s: value of %s in %s table is: %s	DEBUG	Failed to set vlan entry for vlan %d	ERROR
9/ or returning with status 9/ o		Failed to set vlan entries, while	
dnsResolverConfigure: addressFamily:	DEBUG	Failed to execute vlanConfig binary	ERROR
%d	DEBUG	for port number %d	ERROR
dnsResolverConfigure: LogicallfName:		Failed to execute vlanConfig binary	
%s	DEBUG	for vlanld %d	ERROR
chap-secrets File found	DEBUG	Failed to enable vlan	ERROR
PID File for xl2tpd found	DEBUG	Failed to disable vlan	ERROR
	DEDUO	Failed to set vlanPort table entries,	
	DEBUG		ERROR
options.xl2tpd file found	DEBUG	Failed to enable vian	ERROR
options.xl2tpd file not found	DEBUG	unknown vlan state	ERROR
Conf File for xl2tpd found	DEBUG	database file %s	FRROR
	DEBOO	threegConnEnable: failed to get the	LINION
xl2tpd.conf not found	DEBUG	WanMode	ERROR
Chap Secrets file found	DEBUG	threegEnable:spawning failed	ERROR
		threegDisable: unable to kill ppp	
Chap Secrets file not found	DEBUG	daemon	ERROR
opCode:%d rowld:%d	DEBUG	threedMamtHandler: Querv: %s	FRROR
	DEDOO	threegMomtHandler: error in	LINION
chap-secrets File found	DEBUG	executing database update	ERROR
		Error in executing DB update	
PID File for pptpd found	DEBUG	handler	ERROR
pid: %d	DEBUG	are we getting invoked twice ??	ERROR
PID File for pptpd interface found	DEBUG	could not open %s to append	ERROR
nid: %d		could not write nameserver %s to	
	DEBUG	could not write nameserver %s to	ENNON
options.pptpd file found	DEBUG	%s	ERROR
options.pptpd file not found	DEBUG	could not open %s to truncate	ERROR
· · · ·		dnsResolverConfigMgmtInit: unable	
Conf File for pptpd found	DEBUG	to open the "	ERROR
noted confinct found		resolverConfigDBUpateHandler:	
Chan Secreta file found		squitesqueryResGet	
Chap Secrets lie found	DEBUG	dosResolverConfigure: could not	EKKUK
Chap Secrets file not found	DEBUG	write nameserver:%s,"	ERROR
%s:DBUpdate event: Table: %s			
opCode:%d rowld:%d	DEBUG	unboundMgmt: unable to open the "	ERROR
chan socrate File found	DEBUIC	locti call Failed-could not update	
		active user Details	
pppoelvigmt i biHandler: Mtu: %d	DEROG		EKKUK
IdleTimeOutFlag: %d	DEBUG	xl2tpd restart failed	ERROR

I	pppoeMgmtTblHandler:			
ļ	IdleTimeOutValue: %d	DEBUG	failed to get field value	ERROR
Į	pppoeMgmtTblHandler: UserName: %s	DEBUG	failed to get field value	ERROR
ļ	pppoeMgmtTblHandler: Password: %s	DEBUG	sqlite3QueryResGet failed.Query:%s	ERROR
	pppoeMgmtTblHandler: DNS specified:		adite 20 year / Dee Cat failed Quar (19/ a	
ļ	%S	DEBUG	squesqueryResGet Tailed.Query.%s	
ļ	pppoelvigmt i biHandier: Service: %s	DEBUG		ERROR
ļ	pppoelvigmt i biHandler: Staticip: %s	DEBUG		ERROR
ļ	pppoelvigmt i biHandler: NetMask: %s	DEBUG		ERROR
ļ	pppoeMgmt1blHandler: AuthOpt: %d	DEBUG	writing xl2tpd.conf failed	ERROR
ļ	pppoeMgmt1blHandler: Satus: %d	DEBUG	writing options.xl2tpd failed	ERROR
ļ	pppoeEnable: ppp dial string: %s	DEBUG	xl2tpdStop failed	ERROR
	returning with status: %s	DEBUG	xl2tpdStart failed	FRROR
ļ	notoMamtTblHandler: MtuElag: %d	DEBUG	solite3Ouer/ResGet failed Ouer/:%s	ERROR
ļ	pppmgmrbinandier. Mariag. //a	DEDOO	writing Chap-secrets/Pap-Secrets	LINION
Į	pptpMgmtTblHandler: Mtu: %d	DEBUG	failed	ERROR
	pptpMgmtTblHandler: IdleTimeOutFlag:			
ļ	%d	DEBUG	xl2tpdStop failed	ERROR
	IdleTimeOutValue: %d	DEBUG	xl2tpdStart failed	FRROR
ł	pptpMgmtTblHandler: GetDnsFromlsp:	DEDOO		LINION
Į	%d	DEBUG	sqlite3QueryResGet failed.Query:%s	ERROR
	n - (- Marine (Thull - n all - n all - n able - n a 0/ -	DEDUO	writing Chap-secrets/Pap-Secrets	
ļ	pptpivigmt i biHandier: UserName: %s	DEBUG		ERROR
ļ	pptplvlgmt1blHandler: Password: %s	DEBUG		ERROR
	configured	DEBUG	xl2tpdStart failed	ERROR
İ	pptpMgmtTblHandler: Mylp: %s	DEBUG	sglite3QueryResGet failed.Query:%s	ERROR
İ			writing Chap-secrets/Pap-Secrets	
ļ	pptpMgmtTblHandler: ServerIp: %s	DEBUG	failed	ERROR
	pptpMamtThlHandlor: Staticla: %c		Error in executing DB update	
ļ	pptpMgmtTblHandler: NetMaak: %a		unhoundMamt: unable to open the "	
ļ	pptpMgmtTblHandler:	DEBUG		ERROR
	MppeEncryptSupport: %s	DEBUG	Can't kill pptpd	ERROR
ĺ	pptpMgmtTblHandler: SplitTunnel: %s	DEBUG	pptpd restart failed	ERROR
ĺ	pptpEnable: ppp dial string: %s	DEBUG	Can't kill pptpd	ERROR
ĺ	pptpEnable: spawning command %s	DEBUG	failed to get field value	ERROR
ĺ	PID File for dhcpc found	DEBUG	failed to get field value	ERROR
ĺ	pid: %d	DEBUG	unboundMgmt: unable to open the "	ERROR
İ	pptpMgmtDBUpdateHandler: query			
ļ	string: %s	DEBUG	writing options.pptpd failed	ERROR
	pptpMgmtDBUpdateHandler: returning	DEBLIC	poted Stop foiled	
ļ	dhcpcReleasel ease: dhcpc release	DEBUG		ERROR
	command: %s	DEBUG	writing pptpd.conf failed	ERROR
ĺ	dhcpcMgmtTblHandler: MtuFlag: %d	DEBUG	writing options.pptpd failed	ERROR
ĺ	dhcpcMgmtTblHandler: Mtu: %d	DEBUG	pptpdStop failed	ERROR
Í	DHCPv6 Server started successfully.	DEBUG	pptpdStart failed	ERROR
ĺ	· · · · ·		writing Chap-secrets/Pap-Secrets	
	DHCPv6 Server stopped successfully	DEBUG	failed	ERROR
ļ	DHCPv6 Client started successfully	DEBUG	handler	ERROR
1				
		pppStatsUpdate: unable to get		
--	-------	--	--------	
DHCPv6 Client stopped successfully.	DEBUG	default MTU	ERROR	
DHCPv6 Client Restart successful	DEBUG	pppoeMgmtInit: unable to open the		
DITCE VO Client Restart succession	DEBUG	pppoeDisable: unable to kill ppp	ENNON	
l2tpMgmtTblHandler: MtuFlag: %d	DEBUG	daemon	ERROR	
	DEDUO	pppoeMultipleEnableDisable: pppoe	50000	
12tpMgmt1biHandler: Mtu: %d	DEBUG	enable failed	ERROR	
l2tpMgmtTblHandler: lspName: %s	DEBUG	disable failed	ERROR	
		pppoeMgmtTblHandler: unable to		
I2tpMgmtTbIHandler: UserName: %s	DEBUG	get current Mtu Option	ERROR	
l2tpMgmtTblHandler: Password: %s	DEBUG	get the Mtu	ERROR	
		pppoeMgmtTblHandler: pppoe		
I2tpMgmtTblHandler: AccountName: %s	DEBUG	enable failed	ERROR	
12toMamtThlHandler: DomainNamo: % c	DEBUG	pppoeMgmtDBUpdateHandler: failed		
12tpMgmtTblHandler: Secret: not	DEBUG	pppoeMgmtDBUpdateHandler: error	ENNON	
specified	DEBUG	in executing "	ERROR	
		pptpMgmtInit: unable to open the		
I2tpMgmtTblHandler: Secret: %s	DEBUG	database file %s	ERROR	
configured	DEBUG	command: %s	ERROR	
		pptpEnable: unable to resolve		
l2tpMgmtTblHandler: MyIp: %s	DEBUG	address: %s	ERROR	
l2tpMgmtTblHandler: Serverlp: %s	DEBUG	pptpEnable: inet_aton failed	ERROR	
l2tpMgmtTblHandler: Staticlp: %s	DEBUG	pptpEnable: inet_aton failed	ERROR	
l2tpMgmtTblHandler: NetMask: %s	DEBUG	pptpEnable:spawning failed	ERROR	
Ote Maret Thillendler, SplitTuppel, 0/ e		pptpDisable: unable to kill ppp		
needToStartHealthMonitor: returning	DEBUG	pptpMgmtTblHandler: upable to get	ERROR	
with status: %s	DEBUG	current MTU Option	ERROR	
		pptpMgmtTblHandler: unable to get		
I2tpEnable: command string: %s	DEBUG	the Mtu	ERROR	
l2tpEnable: command: %s	DEBUG	dbRecordValueGet failed for %s "	ERROR	
		pptpMgmtTblHandler: pptp enable		
I2tpEnable: command string: %s	DEBUG	failed	ERROR	
PID File for dhene found	DEBUG	pptpMgmt1blHandler: pptp disable		
	DLDUG	pptpMgmtDBUpdateHandler:	LINION	
pid: %d	DEBUG	sqlite3QueryResGet "	ERROR	
I2tpMgmtDBUpdateHandler: query	DEDUO	pptpMgmtDBUpdateHandler: error in	50000	
String: %S	DEBUG		ERROR	
with status: %s	DEBUG	Illegal invocation of dhcpConfig (%s)	ERROR	
		dhcpLibInit: unable to open the		
RADVD started successfully	DEBUG	database file %s	ERROR	
RADVD stopped successfully	DEBUG	sqlite3QueryResGet failed.Query:%s	ERROR	
empty update_nRows=%d_nCols=%d	WARN	dispersion of the database file %s		
Wan is not up or in load balencing		dhcpcReleaseLease: unable to		
mode	WARN	release lease	ERROR	
threegMgmtHandler: no row found.		dhanaEnabla: unabla ta kill dhaliart		
nrows = % u noois = % u	WARN	dhopoEnable: unable to kill dhollent dhopoEnable: enabling dhopo failed	ERRUR	
update.	WARN	on: %s	ERROR	

dhcpcEnable: dhclient already running			
on: %s	WARN	dhcpcDisable: unable to kill dhclient	ERROR
		dhcpcDisable: delete failed for	
dhcpcDisable: deleted dhclient.leases	WARN	dhclient.leases	ERROR
database file %s	ERROR	dhcpcDisable: failed to reset the ip	ERROR
l2tpEnable: unable to resolve address: %s	ERROR	dhcpcMgmtTblHandler: unable to get current Mtu Option	ERROR
I2tpEnable: inet aton failed	ERROR	dhcpcMgmtTblHandler: unable to get the Mtu	ERROR
The Enable Command is %s	ERROR	dhcpcMgmtTblHandler: dhclient enable failed	ERROR
I2tpEnable:Executing the Command failed	ERROR	dhcpcMgmtTblHandler: dhcpc release failed	ERROR
I2tpDisable: command string: %s	ERROR	dhcpcMgmtTblHandler: dhcpc disable failed	ERROR
I2tpDisable: unable to stop I2tp session	ERROR	dhcpcMgmtDBUpdateHandler: failed	ERROR
I2tpMgmtTblHandler: unable to get current MTU option	ERROR	dhcpcMgmtDBUpdateHandler: error	ERROR
I2tpMgmtTblHandler: unable to get the Mtu	ERROR	DHCPv6 Client start failed.	ERROR
I2tpMgmtTblHandler: dbRecordValueGet failed for %s "	FRROR	DHCPv6 Client stop failed	FRROR
I2tpMgmtTblHandler: I2tpEnable failed	FRROR	failed to create/open DHCPv6 client	FRROR
I2tpMgmtTblHandler: disabling I2tp	FRROR	failed to write DHCPv6 client	FRROR
I2tpMgmtDBUpdateHandler: sglite3QueryResGet "	ERROR	failed to restart DHCPv6 Client	ERROR
I2tpMgmtDBUpdateHandler: error in executing	ERROR	failed to create/open DHCPv6 Server "	ERROR
Illegal invocation of tcpdumpConfig (%s)	ERROR	Restoring old configuration	ERROR
Failed to start tcpdump	ERROR	DHCPv6 Server configuration update failed	ERROR
Failed to stop tcpdump	ERROR	DHCPv6 Server Restart failed	ERROR
Invalid tcpdumpEnable value	ERROR	sqlite3QueryResGet failed.Query:%s	ERROR

Facility: System (VPN)

Log Message	Severity	Log Message	Severity
%d command not supported by eapAuth	DEBUG	PEAP key derive: ERROR	ERROR
pCtx NULL.	DEBUG	PEAP context is NULL: ERROR	ERROR
Current cert subject name= %s	DEBUG	Constructing P2 response: ERROR	ERROR
X509_STORE_CTX_get_ex_data failed.	DEBUG	innerEapRecv is NULL: ERROR	ERROR
Cannot get cipher, no session est.	DEBUG	Decrypting TLS data: ERROR	ERROR
%s: SSL_ERROR_WANT_X509_LOOKUP	DEBUG	Wrong identity size: ERROR	ERROR
err code = (%d) in %s	DEBUG	Wrong size for extensions packet: ERROR	ERROR
BIO_write: Error	DEBUG	innerEapRecv is NULL: ERROR.	ERROR
Decrypting: BIO reset failed	DEBUG	Inner EAP processing: ERROR	ERROR
Encrypting BIO reset: ERROR	DEBUG	TLS handshake: ERROR.	ERROR

BIO_read: Error	DEBUG	Sending P1 response: ERROR	ERROR
EAP state machine changed from %s to		Unexpected tlsGlueContinue return	
%s.	DEBUG	value.	ERROR
EAP state machine changed from %s to	DEBLIC	No more fragments in message.	
705.	DEBUG	No phase 2 data or phase 2 data	ERROR
Received EAP Packet with code %d	DEBUG	buffer NULL: ERROR	ERROR
		Allocating memory for PEAP Phase 2	
Response ID %d	DEBUG	payload: ERROR	ERROR
Response Method %d	DEBUG	TLS encrypting response: ERROR	ERROR
Created EAP/PEAP context: OK	DEBUG	Setting message in fragment buffer:	FRROR
	02000	Allocating TLS read buffer is NULL:	
Deleted EAP/PEAP context: OK	DEBUG	ERROR	ERROR
Upper EAP sent us: decision = %d	DEDUIO		50000
method state = %d	DEBUG	Setting last fragment: ERROR	ERROR
P2 decision=(%d); methodState=(%d)	DEBUG	Getting message: ERROR	ERROR
Writing message to BIO: ERROR.	DEBUG	Processing PEAP message: ERROR	ERROR
Encrypted (%d) bytes for P2	DEBUG	Setting fragment: ERROR	ERROR
P2: sending fragment.	DEBUG	Creating receive buffer: ERROR	ERROR
P2: message size = %d	DEBUG	Setting first fragment: ERROR	ERROR
P2: sending unfragmented message.	DEBUG	Sending P1 response: ERROR	ERROR
D4. Conding from ant		NULL request (or response) PDU or	
P1: Sending tragment.	DEBUG	NULL CONTEXT: ERROR	ERRUR
P1: Total TLS message size = (%d)	DEBUG	else: ERROR	ERROR
P1: sending unfragmented message.	DEBUG	Protocol version mismatch: ERROR	ERROR
peapFragFirstProcess: TLS record size	DEBUG	Processing PEAP message (from frag): ERROR	FRROR
Setting version %d	DEBUG	Processing PEAP message: ERROR	FRROR
PEAP pkt rcvd: data len=(%d)	02000		
flags=(%d) version=(%d)	DEBUG	Processing PEAP message: ERROR	ERROR
Got PEAP/Start packet.	DEBUG	Indicated length not valid: ERROR	ERROR
		Did not get Acknowledged result:	
Got first fragment	DEBUG	ERROR	ERROR
Got fragment (n)	DEBUG	ERROR	FRROR
Got last fragment			ERROR
oot last hagment		eapWscCtxCreate:	
Got unfragmented message	DEBUG	EAPAUTH_MALLOC failed.	ERROR
		eapWscProcess: umiloctl req to WSC	
Got frag ack.	DEBUG	failed, status = %d	ERROR
Ext AVP parsed: flags=(0x%x)	DEBUG	eapWscCheck: Invalid frame	ERROR
Mandatory bit not set: WARNING	DEBUG	eapWscBuildReq: Invalid state %d	ERROR
$\Gamma_{\rm M}(A)/D$ percedution (9/d)		eapWscProcessWscResp: Invalid	
Ext AVP parsed. type=(%d)	DEBUG	Data received for invalid context	ERRUR
Ext AVP parsed: value=(%d)	DEBUG	dropping it	ERROR
. , ,		eapWscProcessWscResp: Build	
Got PEAPv0 success!	DEBUG	Request failed	ERROR
Cot PEARy0 failural	DEBUC	eapWscProcessWscResp: Invalid	
	DEBUG	eapWscProcessWscResn Message	
pCtx NULL.	DEBUG	processing failed 0x%X	ERROR

	1	eanWscProcessWscData: Invalid	1
Authenticator response check: Error	DEBUG	notification recd %d	ERROR
Authenticator response check: Failed	DEBUG	unable to initialize MD5	ERROR
		MDString: adpDigestInit for md5	
MS-CHAP2 Response AVP size = %u	DEBUG	failed	ERROR
Created EAP/MS-CHAP2 context: OK.	DEBUG	EAPAUTH_MALLOC failed.	ERROR
pCtx NULL.	DEBUG	EAPAUTH_MALLOC failed.	ERROR
Deleted EAP/MS-CHAPv2 context: OK	DEBUG	NULL context created: Error	ERROR
Not authenticated yet.	DEBUG	NULL context received: Error	ERROR
Authenticator response invalid	DEBUG	Authenticator ident invalid.	ERROR
	DEDUIO	Success request message invalid:	50000
EAP-MS-CHAPv2 password changed.	DEBUG	Error	ERROR
rcvd. opCode %d.	DEBUG	Plugin context is NULL	ERROR
pCtx NULL.	DEBUG	Deriving implicit challenge: Error	ERROR
ILS message len changed in the	DEBLIC	Concreting NT reasonable: Error	
no data to send while fragment ack	DEBUG	Generating NT response. End	ERROR
received.	DEBUG	NULL in/out buffer: Error	ERROR
TLS handshake successful.	DEBUG	Incorrect vendor id.	ERROR
		Allocating memory for outBuff:	
Created EAP/TTLS context: OK	DEBUG	ERROR	ERROR
Deleted EAP/TTLS context: OK	DEBUG	AVP code not recognized	ERROR
No more fragments in message. ERROR	DEBUG	EAPAUTH_MALLOC failed.	ERROR
Upper EAP sent us: method state = %d;		Converting password to unicode:	
decision = %d	DEBUG	Error	ERROR
P2: sending fragment.	DEBUG	Generating password hash: Error.	ERROR
D2 acred water are acted as a constant		Generating password hash hash:	
P2 send uniragmented message.	DEBUG	Error.	ERRUR
P1: sending fragment.	DEBUG	Generating master key: Error.	ERROR
P1: sending unfragmented message	DEBUG	kev. Error n	FRROR
		Generating second 16 bytes of	
\tTLSMsgLen = 0x%x	DEBUG	session key: Error.n	ERROR
Send req ptr = 0x%x; Send resp ptr =		Converting password to unicode:	
0x%x	DEBUG	Error	ERROR
P2 decision-(%d): methodState-(%d)	DEBUG	ERROR	FRROR
Default EAP: method state = $\%$ d;	02000	Error checking authenticator	Littleit
decision = %d	DEBUG	response.	ERROR
TTLS pkt: data len=(%d) flags=(0x%x)	DEBUG	Error generating NT response.	ERROR
Got start	DEBUG	Username string more than 256 ASCII characters: ERROR	ERROR
Got first fragment (n).	DEBUG	Invalid Value-Size.	ERROR
		Invalid MS-Length. Got (%d),	
Got fragment (n).	DEBUG	expected (%d)	ERROR
Got last fragment	DEBUG	Error constructing response.	ERROR
Got unfragmented message.	DEBUG	Got type (%d), expecting (%d)	ERROR
		Cannot handle message; opCode =	
Got trag ack.	DEBUG	%d	ERROR
KCVa. AVP Coae-%u: flags-0x%x: len- %u: vendorld-%u: "	DEBUG	EAPAUTH_MALLOC failed.	ERROR
MOD EAP: method state from upper = $\frac{9}{2}$ d		the Chue Chy Create failed	

Got AVP len = %ul. Should be less than	DEBUG	client certificate must be set in the	
	DEBUG	prome.	
AVP length extract: Error	DEBUG	total frags len > initial total TLS	ERROR
pFB is NULL	DEBUG	length.	ERROR
Requesting message before assembly complete	DEBUG	total frags len > initial total TLS length.	ERROR
pFB is NULL	DEBUG	total data rcvd(%d) doesnt match the initial "	ERROR
pFB is NULL	DEBUG	couldnt write %d data to TLS buffer.	ERROR
Buffer cannot hold message: ERROR	DEBUG	invalid flags %s passed to eapTlsBuildResp.	ERROR
pFB is NULL: Error	DEBUG	EAPAUTH_MALLOC failed.	ERROR
pFB is NULL	DEBUG	tlsGlueCtxCreate failed.	ERROR
TLS_FB* is NULL.	DEBUG	Context NULL: ERROR	ERROR
pFB->msgBuff is NULL.	DEBUG	Setting profile to glue layer: ERROR.	ERROR
Error calculating binary.	DEBUG	_eapCtxCreate failed.	ERROR
		%d authentication not enabled in the	
Error calculating binary.	DEBUG	system.	ERROR
adpDigestInit for SHA1 failed	DEBUG	FROR	FRROR
adpDigestInit for SHA1 failed	DEBUG	TTI S key derive: EBROR	FRROR
	52500	TTLS context from EAP plugin is	Litter
E = %d	DEBUG	NULL: ERROR	ERROR
R = %d	DEBUG	Allocating memory for TTLS Phase 2 payload: FRROR	ERROR
Could not initialize des-ecb	DEBUG	TLS Encrypting response: ERROR	ERROR
adpDigestInit for MD4 failed.	DEBUG	Allocating TLS read buffer is NULL: ERROR	ERROR
· · ·		Inner authentication (id: %d)	
adpDigestInit for SHA1 failed.	DEBUG	unhandled	ERROR
adpDigestInit for SHA1 failed.	DEBUG	innerEapRecv is NULL: ERROR.	ERROR
Error converting received auth reponse	DEBUG	Decrypting TLS data: ERROR	
Gnerating challenge hash: Error	DEBUG	Processing Phase 2 method: Error	FRROR
Generating password bash: Error	DEBUG	Writing message to BIO: ERROR	
Generating challenge response: Error	DEBUG	TLS handshake: ERROR	FRROR
Contracing chanolige responde. Error	DEBOO	Unexpected tlsGlueContinue return	LINION
Conn cipher name=%s ver=%s: %s	DEBUG	value.	ERROR
Send req ptr = 0x%x; Send resp ptr = 0x%x	DEBUG	NULL request (or response) PDU or NULL context	ERROR
Request ptr = 0x%x;	DEBUG	Protocol version mismatch: ERROR	ERROR
Response ptr = 0x%x	DEBUG	Creating receive buffer: ERROR	ERROR
Rcvd. AVP Code - %ul	DEBUG	Setting first fragment: ERROR	ERROR
Rcvd. AVP flags - 0x%02x	DEBUG	Setting fragment: ERROR	ERROR
Rcvd. AVP len - %ul	DEBUG	Setting last fragment: ERROR	ERROR
Rcvd. AVP vendor id - %ul	DEBUG	Getting message: ERROR	ERROR
\tCode = %d	DEBUG	Processing TTLS message: ERROR	ERROR
\tldent = %d	DEBUG	Processing TTLS message: ERROR	ERROR
\tLen = %d	DEBUG	Processing TTLS message: ERROR	ERROR
\tType = %d	DEBUG	Decapsulating AVP: ERROR	ERROR
\tOpCode = %d	DEBUG	Processing EAP receive: Error	ERROR
\tMSID = %d	DEBUG	AVP code not EAP: Error	ERROR

\tmsLen = %d	DEBUG	Encapsulating AVP: ERROR	ERROR
\tvalSize = %d	DEBUG	profile %s doesnt exist.	ERROR
Frag Buffer bytes left = (%d)	DEBUG	profile %s is in use.	ERROR
Stripped username=(%s)	DEBUG	profile %s already exists.	ERROR
digest $en = \%d$	DEBUG	EAPAUTH MALLOC failed	FRROR
ClearText =	DEBUG	User not found	FRROR
	DEBOO	EAP-MD5 not enabled in system	
CipherText =	DEBUG	configuration.	ERROR
		EAP-MSCHAPV2 not enabled in	
digestLen = %d.	DEBUG	system configuration.	ERROR
digasti an1 – % d		EAP-ILS not enabled in system	
digestLenn = //d.	DEBUG	EAP-TTLS not enabled in system	LINON
digestLen2 = %d.	DEBUG	configuration.	ERROR
password change is not allowed for this		EAP-PEAP not enabled in system	
user	DEBUG	configuration.	ERROR
	DEDUO	EAP-WSC not enabled in system	
completed writing the policy	DEBUG	PAP not enabled in system	ERROR
completed writing the SA	DEBUG	configuration.	ERROR
		CHAP not enabled in system	
completed writing the proposal block	DEBUG	configuration.	ERROR
		MSCHAP not enabled in system	
cmdBut: %s	DEBUG	Configuration.	ERROR
the generated"	DEBLIG	configuration	FRROR
X590 ERROR : Failed to create File	DEBOO	PAP/Token not enabled in system	
'%s'	DEBUG	configuration.	ERROR
		EAP-MD5 not enabled in system	
x509TblHandler	DEBUG	configuration.	ERROR
nCartType: %s		EAP-MSCHAPV2 not enabled in	
peerrype. //s	DEBUG	FAP-TLS not enabled in system	
pRowQueryStr: %s	DEBUG	configuration.	ERROR
		EAP-TTLS and EAP-PEAP are not	
x509SelfCertTblHandler	DEBUG	valid as inner"	ERROR
pRowQueryStr: %s	DEBUG	invalid innerAuth %d.	ERROR
%s:DBUpdate event: Table: %s		profile % a depent eviat	
	DEBUG	Re-assembling fragments incorrect	ERROR
umiRegister failed	ERROR	size	ERROR
eapAuthHandler: Invalid data received	ERROR	Error creating cipher context.	ERROR
EAPAUTH MALLOC failed	FRROR	Error initializing cipher context	FRROR
malloc failed	FRROR	Error creating digest context	FRROR
BIO new mem buf failed	FRROR	Error initializing digest context	FRROR
malloc failed		Error initializing DES in Klite	ERROR
BIO new mem buf foiled		Error initializing MD4 in Klite	
SSI CTX new (TI Sv1 client method)	ERROR		ERROR
failed.	ERROR	Error initializing RC4 in Klite	ERROR
unable to set user configured CIPHER			1
list %s	ERROR	Error initializing SHA in Klite	ERROR
Certificate verification failed.	ERROR	Error cleaning cipher context.	ERROR
Server name match failed. Got (%s)		From deatroving eigher context	
expected		Enor destroying cipner context.	EKKUK

257

SSL_CTX_use_certificate_file (cert,		Error elegning digest context	
FEIN) Idiled.		Error destroying digest context.	
SSL_CTA_use_FilvaleRey_file failed.			
Private key does not match public key		Error stripping domain name.	
SSL_CTX_load_verify_locations failed	ERROR	Error cleaning digest context.	ERROR
SSL_new failed.	ERROR	Error cleaning digest context.	ERROR
SSI VERIEY NONE set: Error	FRROR	nacket	FRROR
FAPALITH MALLOC failed	FRROR	Wrong challenge length	FRROR
	LINION	Incorrect password change version	LINION
EAPAUTH_MALLOC failed.	ERROR	value.	ERROR
eapTimerCreate failed.	ERROR	Error generating password hash.	ERROR
eapCtxDelete:pCtx == NULL	ERROR	Error generating password hash.	ERROR
eapRole != EAP_ROLE_PEER or		Error encrypting password hash with	
EAP_ROLE_AUTHENTICATOR	ERROR	block	ERROR
pEapCtx == NULL or pPDU == NULL.	ERROR	Could not initialize des-ecb	ERROR
received EAP pdu bigger than		Error closning cipher context	
received FAP pdu bigger than	ERROR	Error cleaning cipiter context.	ERROR
EAP_MTU_SIZE.	ERROR	Error cleaning cipher context.	ERROR
state machine is in invalid state.	ERROR	Error cleaning digest context.	ERROR
unable to create method context.	ERROR	Error cleaning digest context.	ERROR
method ctxCreate failed.	ERROR	adpDigestInit for SHA1 failed.	ERROR
method profile set failed.	ERROR	X509_ERROR : .Query:%s	ERROR
		X509_ERROR : Invalid Certificate for	
state machine is in invalid state.	ERROR	the "	ERROR
Only StandAlone authenticator		invalid x500 cortificato	
supported currentity.		Couldn't got the vE00 port head	
State machine is in invalid state.		Mamanu alla action faile d	
BuildReq operation falled	ERROR	Memory allocation failed	ERROR
method	ERROR	FileName too lengthy	ERROR
Process operation failed	ERROR	Couldn't execute command	ERROR
state machine is in invalid state	FRROR	Memory allocation failed	FRROR
Packet length mismatch %d %d		Memory allocation failed	
eapAuthTypeToType: Invalid	LINION		LINION
eapAuthType %d	ERROR	invalid certificate data	ERROR
eapTypeToAuthType: Invalid eapType		0	
%d	ERROR	Query:%s	ERROR
unable to create method context.	ERROR	Query:%s	ERROR
method ctxCreate failed.	ERROR	Memory allocation failed	ERROR
Invalid condition, methodState = $\%$ d, respMethod = $\%$ d	FRROR	certficate "	FRROR
A EAP Cty map already exists		Memory allocation failed	
eapTimerCreate: Currently unsupported	LINION		LINION
for Peer role	ERROR	.Query:%s	ERROR
eapTimerStart: Currently unsupported			
for Peer role	ERROR	Invalid Sign Key Length : %d	ERROR
eap ImerDestroy: Currently		Invalid Hash Alg · % d	
eapTimerCancel: Currently unsupported	ENNUR	IIIvaliu Hash Aiy . 700	ENNUR
for Peer role	ERROR	Invalid Sign Alg : %d	ERROR
eapTimerHandler: Currently			
unsupported for Peer role	ERROR	No Memory Available	ERROR

pCtx is NULL: ERROR	ERROR	Certificate Request Failed	ERROR
tlsGlueCtxCreate failed	ERROR	File Open Failed	ERROR
eapVars is NULL	ERROR	File is Empty	ERROR
Context NULL: ERROR	ERROR	Memory Allocation Failed	ERROR
Initializing inner EAP auth: ERROR	ERROR	File Open Failed	ERROR
pCtx is NULL: ERROR	ERROR	File is Empty	ERROR
Memory Allocation Failed	ERROR	Error in executing DB update handler	ERROR

Facility: System (Admin)

Log Message	Severity	Log Message	Severity
Usage:%s <dbfile></dbfile>	DEBUG	unable to register to UMI	ERROR
Could not open database: %s	DEBUG	sqlite3QueryResGet failed	ERROR
CPU LOG File not found	DEBUG	radSendtoServer: socket: %s	ERROR
MEM LOG File not found	DEBUG	radSendtoServer: bind() Failed: %s: %s	ERROR
cpuMemUsageDBUpdateHandler: update query: %s	DEBUG	radRecvfromServer: recvfrom() Failed: %s	ERROR
Printing the whole list after inserting	DEBUG	radRecvfromServer: Packet too small from %s:%d: %s	ERROR
%s at %d(minute) %d(hour) %d(dayOfMonth) %d(month)"	DEBUG	radCheckMsgAuth: Invalid Message- Authenticator length in"	ERROR
adpCmdExec exited with return code=%d	DEBUG	radDictLoad: couldn't open dictionary %s: %s	ERROR
%s op=%d row=%d	DEBUG	radBuildAndSendReq: Invalid Request Code %d	ERROR
sqlite3_mprintf failed	DEBUG	radPairAssign: bad attribute value length	ERROR
sqlite3QueryResGet failed: query=%s	DEBUG	radPairAssign: unknown attribute type %d	ERROR
Printing the whole list after delete	DEBUG	radPairNew: unknown attribute %d	ERROR
%s at %d(minute) %d(hour) %d(dayOfMonth) %d(month)"	DEBUG	radPairGen: Attribute(%d) has invalid length	ERROR
Printing the whole list after inserting	DEBUG	radPairValue: unknown attribute type %d	ERROR
%s at %d(minute) %d(hour) %d(dayOfMonth) %d(month)"	DEBUG	radPairValueLen: unknown attribute type %d	ERROR
email logs: No logging events enabled	DEBUG	radPairLocate: Attribute(%d) has invalid length	ERROR
%s	DEBUG	radPairUnpackDefault: Unknown- Attribute[%d]:	ERROR
Mail sent and the Database is reset.	DEBUG	radConfigure: can't open %s: %s	ERROR
Disabled syslog server	DEBUG	radConfigure: %s: line %d: bogus format: %s	ERROR
Event logs are full, sending logs to email	DEBUG	radConfAssert: No AuthServer Specified	ERROR
Email logs sending failed	DEBUG	radConfAssert: No Default Timeout Specified	ERROR
Packing attribute: %s	DEBUG	radConfAssert: No Default Retry Count Specified	ERROR
Server found: %s, secret: %s	DEBUG	radExtractMppeKey: Invalid MS- MPPE-Key Length	ERROR

Packed Auth. Reqest: code:%d, id:%d, len:%d	DEBUG	radVendorMessage: Invalid Length in Vendor Message	ERROR
Sending Packet to %x:%d	DEBUG	radVendorMessage: Unknown Vendor ID received:%d	ERROR
Receiving Reply Packet	DEBUG	radVendorAttrGet: Invalid Length in Vendor Message	ERROR
Verified Reply Packet Integrity	DEBUG	radVendorAttrGet: Unknown Vendor	ERROR
Generated Reply Attribute-Value pairs	DEBUG	radVendorMessagePack: Unknown Vendor ID:%d	ERROR
Verified Message-Authenticator	DEBUG	radGetIPByName: couldn't resolve hostname: %s	ERROR
Unloaded RADIUS Dictionary	DEBUG	radGetHostIP: couldn't get hostname	ERROR
		radGetHostIP: couldn't get host IP	Î
Adding Dictionary Attribute %s	DEBUG	address	ERROR
Adding Dictionary Value %s	DEBUG	RADIUS dictionary loading failed	ERROR
Loaded Dictionary %s	DEBUG	Failed to set default timeout value	ERROR
Adding Dictionary Attribute '%s'	DEBUG	Failed to set default retries value ERROR: incomplete DB update	ERROR
Adding Dictionary Value %s	DEBUG	information.	ERROR
		old values result does not contain 2	
Receiving attribute: %s	DEBUG	rows	ERROR
Processing attribute: %s	DEBUG	sqlite3QueryResGet failed	ERROR
Processing attribute: %s	DEBUG	empty update. nRows=%d nCols=%d	ERROR
Processing attribute: %s	DEBUG	Error in executing DB update handler	ERROR
Processing attribute: %s	DEBUG	sqlite3QueryResGet failed	ERROR
radConfGet: "	DEBUG	Invalid SQLITE operation code - %d	ERROR
Added Server %s:%d with "	DEBUG	sqlite3QueryResGet failed	ERROR
Added Server %s:%d with "	DEBUG	empty result. nRows=%d nCols=%d	ERROR
Default Timeout Set to %d	DEBUG	sqlite3QueryResGet failed	ERROR
Default Retry Count Set to %d	DEBUG	empty result. nRows=%d nCols=%d	ERROR
%s - %s : %d	DEBUG	RADIUS Accounting Exchange Failed	ERROR
Deleting Server %s:%d with "	DEBUG	Unable to set debug for radAcct.	ERROR
Adding Rowld:%d to Server %s:%d with		Unable to set debug level for	
	DEBUG	radAcct.	ERROR
rowlds: %d - %d	DEBUG	ERROR: option value not specified	ERROR
Deleting Server %s:%d with "	DEBUG	ERROR: option value not specified	ERROR
RADIUS Deconfigured	DEBUG	Unable to initialize RADIUS	ERROR
Found Option %s on line %d of file %s	DEBUG	radEapMsgQueueAdd: Invalid EAP packet length(%d)	ERROR
Setting Option %s with value %s	DEBUG	radEapRecvTask: invalid EAP code:%d	ERROR
RADIUS Configured	DEBUG	radEapRecvTask: Packet length mismatch %d, %d	ERROR
%d : Server %s:%d with "	DEBUG	No attributes received in Access- Challenge message	ERROR
DBUpdate event: Table: %s opCode:%d		No State Attribute in Access-	
Host ID address: %c	DEBUG	radEanBecyTask: "	
Adding Docket for evicting condition		foiled to initialize LNU	
Adding Depket and cookie:%p			
Adding Packet and cookie:%p			
Releasing Packet and Cookle.%p	DEDUG	invalid arguments to loct handler	

Releasing Packet with cookie:%p	DEBUG	radEapSendRtn: Invalid Arguments	ERROR
		radEapSendRtn: failed to allocate	
Received EAP-Identity from Pnac: %s	DEBUG	buffer	ERROR
Filling User-Name: %s	DEBUG	umiloctl failed	ERROR
Filling State:	DEBUG	queue	ERROR
Filling EAP-Message:	DEBUG	Unable to set debug for radEap.	ERROR
Filling Service-Type: %d	DEBUG	Unable to set debug level for radEap.	ERROR
Filling Framed-MTU: %d	DEBUG	ERROR: option value not specified	ERROR
Received Access-Challenge from Server	DEBUG	ERROR: option value not specified	ERROR
Sending Reply EAP Packet to Pnac	DEBUG	could not initialize MGMT framework	ERROR
Error sending packet to Pnac	DEBUG	Unable to initialize RADIUS	ERROR
RADIUS Authentication Failed; "	DEBUG	Unable to set debug for radEap.	ERROR
RADIUS Authentication Successful; "	DEBUG	Unable to set debug level for radEap.	ERROR
Got Packet with cookie:%p	DEBUG	ERROR: option value not specified	ERROR
Next DNS Retry after 1 min	DEBUG	Unable to initialize RADIUS	ERROR
Next Synchronization after"	DEBUG	Invalid username or password	ERROR
Next Synchronization after"	DEBUG	Unable to set debug for radAuth.	ERROR
Next Synchronization after %d \	DEBUG	Unable to set debug level for radAuth.	ERROR
Primary is not available, "	DEBUG	ERROR: option value not specified	ERROR
Secondary is not available, "	DEBUG	Unable to initialize RADIUS	ERROR
Invalid value for use default servers."		Invalid username, challenge or	
No server is configured "	DEBUG	Lipshie to set debug for radAuth	ERROR
No server is conligured,	DEBUG	Unable to set debug lovel for	ENNON
Backing off for %d seconds	DEBUG	radAuth.	ERROR
Requesting time from %s	DEBUG	ERROR: option value not specified	ERROR
Synchronized time with %s	DEBUG	Unable to initialize RADIUS	ERROR
Received KOD packet from %s	DEBUG	Invalid username or password	ERROR
No suitable server found %s	DEBUG	usage : %s <db filename=""></db>	ERROR
Received Invalid Length packet from %s	DEBUG	ntpd : umi initialization failed	ERROR
Received Invalid Version packet from	DEBUG	ntpd : ntplnit failed	FRROR
Received Invalid Mode packet from %s	DEBUG	ntpd : ntpMgmtInit failed	FRROR
	DEDOG	There was an error while getting the	LINION
Request Timed out from %s	DEBUG	timeZoneChangeScript."	ERROR
Looking Up %s	DEBUG	unexpected reply from %d cmd=%d !	ERROR
Timezone difference :%d	DEBUG	cmd %d not supported. caller %d	ERROR
Could not open file: %s	DEBUG	default reached	ERROR
Could not read data from file	DEBUG	Unable to initialize ntpControl	ERROR
ntpTblHandler	DEBUG	%s	ERROR
status: 0/ d		ERROR : incomplete DB update	
	DEBUG		
LZ. 700	DEBUG	Error in executing DB undets hardles	
DayLignisaving: %0	DEBUG		ERRUR
>ServerNames[PRIMARY_SERVER]:			
%	DEBUG	requestNtpTime: Invalid addr	FRROR

DS: %d DEBUG failed to convert loctl args to buffer ERROR DS: %d DEBUG failed to take lock for compld: %d ERROR pSecServ %s DEBUG failed to take lock for compld: %d ERROR Making request from %d> %d DEBUG failed to take lock for compld: %d ERROR Making request form %d> %d DEBUG adpMalloc failed eRROR received request too small(%d bytes) DEBUG adpMalloc failed ERROR Received a UMI request from %d DEBUG adpMalloc failed ERROR sent a reply src(%d)> dst(%d) DEBUG adpMalloc failed ERROR reading UMI context Failed to create recvSem for UMI context with IO: %d already ERROR waiting for replyGiving Up DEBUG context ERROR ERROR registering component with Id %d DEBUG context ERROR ERROR request timeout after semTake DEBUG context ERROR ERROR request timeout after semTake DEBUG context ERROR registering component with Id %d DEBUG context ERROR No request in the its atter semTake DEBUG could nt find component with ID ERROR request winh no result cont(%ds) < src(%d) <th>pNtpControl- >ServerNames[SECONDARY_SERVE R1: %s</th> <th>DEBUG</th> <th>failed to take lock for compld: %d</th> <th>ERROR</th>	pNtpControl- >ServerNames[SECONDARY_SERVE R1: %s	DEBUG	failed to take lock for compld: %d	ERROR
pPriServ %s DEBUG request timeout dst(%d) < src(%d) ERROR pSecServ %s DEBUG failed to take lock for compld: %d ERROR Making request from %d> %d DEBUG failed to take lock for compld: %d ERROR sent request dst(%d) < src(%d) using	DS: %d	DEBUG	failed to convert ioctl args to buffer for"	ERROR
pSecServ %s DEBUG failed to take lock for compld: %d ERROR Making request from %d> %d DEBUG memory ERROR gett request dst(%d) <> src(%d) using option %d DEBUG memory ERROR received request too small(%d bytes) DEBUG adpMalloc failed ERROR Received a UMI request from %d DEBUG registered ERROR sent a reply src(%d)> dst(%d) DEBUG reating UMI context ERROR readide with in the ist after semTake DEBUG reating UMI context ERROR readide vition in the its after semTake DEBUG realed to create mutex locks for UMI context ERROR reply timeout timeout after semTake DEBUG romat dth de destination context ERROR rend=/d(%s) < destid=/d(%s)	pPriServ %s	DEBUG	request timeout dst(%d) < src(%d)	ERROR
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Waiting for replyGiving Up DEBUG Failed to create mutex recvQLock for UMI context ERROR Reply timeout DEBUG Invalid arguments to umiloctI ERROR reply timeout DEBUG could not find the destination context ERROR srcld=%d(%s) < destId=%d(%s)	srcia=%a(%s)> aestia=%a(%s) cmd=%d int en=%d outt en=%d	DEBUG	Falled to create mutex locks for UMI	
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USB: SQL error: %s pSetString = %s DEBUG Failed guery: %s FRROR	USB: failed to begin transaction: %s	DEBUG	Solite update failed	ERROR
	USB: SQL error: %s pSetString = %s	DEBUG	Failed query: %s	ERROR

		Failed to execute usb database	
USB: failed to commit transaction: %s	DEBUG	update handler	ERROR
	DEDUG	Usage:%s <dbfile> <optype></optype></dbfile>	
USB: updated table: %s	DEBUG	<tbl></tbl> tblName> <rowld></rowld>	ERROR
USB: returning with status: %s	DEBUG	Illegal invocation of snmpConfig (%s)	ERROR
opCode:%d rowld:%d	DEBUG	Invalid Community Access Type	ERROR
executing %s status =%d	DEBUG	Invalid User Access Type	ERROR
executing %s	DEBUG	Invalid Security Level	ERROR
%s returned status=%d	DEBUG	Invalid Authentication Algorithm	ERROR
%s returned status=%d	DEBUG	Invalid Privacy Algorithm	ERROR
snmpd.conf not found	DEBUG	Invalid Argument	ERROR
		Failed to allocate memory for	
[SNMP_DEBUG] : Fwrite Successful	DEBUG		ERROR
[SNMP_DEBUG] : Fwrite failed	DEBUG	address	ERROR
radPairGen: received unknown attribute			
%d of length %d	WARN		ERROR
radPairGen: %s has unknown type	WARN	sqlite3QueryResGet failed.Query:%s	ERROR
length %d	WARN	sglite3QuervResGet failed.Querv:%s	ERROR
radPairl ocate: %s has unknown type	WARN	Invalid Security Level	ERROR
Illegal invocation of couldent lsage (%s)	FRROR	Invalid Authentication Algorithm	FRROR
cpuMemUsageDBUpdateHandler: SQL			
error: %s			ERRUR
unable to open the DB file %s		Failed to Get Host Address	ERRUR
	ERROR		ERRUR
	ERROR	ship v3 Trap Configuration Failed	ERROR
Error Reading from the Database.	ERROR	sqlite3QueryResGet failed query:%s	ERROR
short DB update event request!	ERROR	sqlite3QueryResGet failed.Query:%s	ERROR
Error in executing DB update handler	ERROR	File	ERROR
adpListNodeRemove : Returned with			
an error	ERROR	Failed to write access control entries	ERROR
command too long. Try increasing "	ERROR	Failed to write snmpv3 users entries	ERROR
failed to allocate memory for		Foiled to write error tran entries	
CRON_NODE		Failed to write sustant antrias	
Sqlite3QueryResGet falled	ERROR	Failed to write system entries.	ERROR
schedules.	ERROR	Failed to restart snmp	ERROR
unable to register to UMI	ERROR	%s failed with status	ERROR
short DB update event request!	ERROR	Error in executing DB update handler	ERROR
malloc(DB_UPDATE_NODE) failed	ERROR	%s: Unable to open file: %s	ERROR
short ifDev event request!	ERROR	RADVD start failed	ERROR
sqlite3_mprintf failed	ERROR	RADVD stop failed	ERROR
	50000	failed to create/open RADVD	50000
no component id matching %s	ERROR	configuration file %s	ERROR
UMI_CMD_DB_UPDATE(%d)) failed.	ERROR	Restoring old configuration	ERROR
		failed to write/update RADVD	
sqlite3_mprintf failed	ERROR	configuration file	ERROR
sqlite3_mprintf failed	ERROR	upnpDisableFunc failed	ERROR
no component id matching %s	ERROR	upnpEnableFunc failed	ERROR

umiloctl (%s,			
UMI_CMD_IFDEV_EVENT(%d)) failed.	ERROR	sqlite3QueryResGet failed.Query:%s	ERROR
klogctl(9) failed	ERROR	Error in executing DB update handler	ERROR
malloc failed for %d bytes	ERROR	unable to open the DB file %s	ERROR
klogctl(4) failed	ERROR	umilnit failed	ERROR
emailLogs: Invalid Number of			
Arguments!! Exiting.	ERROR	unable to register to UMI	ERROR
sqlite3QueryResGet failed	ERROR	short DB update event request!	ERROR
Could not execute the smtpClient.	ERROR	short ifDev event request!	ERROR
Error while cleaning the			
database.Exiting. %s	ERROR	sqlite3_mprintf failed	ERROR
		%s failed. status=%d	ERROR

Facility: System (Firewall)

Log Message	Severity	Log Message	Severity
Enabling rule for protocol binding.	DEBUG	Disable all NAT rules.	DEBUG
Disabling rule for protocol binding.	DEBUG	Enable all NAT rules.	DEBUG
Enabling Remote SNMP on WAN.	DEBUG	Enabling NAT URL filter rules.	DEBUG
Disabling Remote SNMP on WAN	DEBUG	Restarting all NAT rules.	DEBUG
wan traffic counters are restared	DEBUG	Deleting schedule based firewall rules.	DEBUG
Traffic limit has been reached	DEBUG	Deleting schedule based firewall rules from DB.	DEBUG
Traffic meter monthly limit has been changed to %d.	DEBUG	Update schedule based firewall rules in DB.	DEBUG
Enabling traffic meter for only dowload.	DEBUG	Restart schedule based firewall rules.	DEBUG
Enabling traffic meter for both directions.	DEBUG	inter vlan routing enabled	DEBUG
Enabling traffic meter with no limit.	DEBUG	inter vlan routing disabled	DEBUG
Email alert in traffic meter disabled.	DEBUG	Disabling Content Filter for %d	DEBUG
Email alert in traffic meter enabled.	DEBUG	Enabling Content Filter for %d	DEBUG
Traffic Meter:Monthly limit %d MB has been "	DEBUG	./src/firewall/linux/user/firewalld.c:59:# undef ADP_DEBUG2	DEBUG
Traffic Metering: Adding rule to drop all traffic	DEBUG	./src/firewall/linux/user/firewalld.c:61:# define ADP_DEBUG2 printf	DEBUG
Traffic Metering: %sabling Email traffic	DEBUG	Enabling Source MAC Filtering	DEBUG
Disabling attack checks for IPv6 rules.	DEBUG	Disabling Source MAC Filtering	DEBUG
Enabling attack checks for IPv6 rules.	DEBUG	Adding MAC Filter Policy for Block & Permit Rest	DEBUG
Configuring one to one NAT settings with %s private start IP "	DEBUG	Adding MAC Filter Policy for Permit & Block Rest	DEBUG
Deleting forward one to one NAT having setting %s private start	DEBUG	Restarting Source MAC Address Policy	DEBUG
Disabling attack check for Block ping to WAN interface.	DEBUG	Disabling Firewall Rule for DHCP Relay Protocol	DEBUG
Disabling attack check for Stealth mode for tcp	DEBUG	Enabling Firewall Rule for DHCP Relay Protocol	DEBUG
Disabling attack check for Stealth mode for udp	DEBUG	prerouting Firewall Rule add for Relay failed	DEBUG
Disabling attack check for TCP Flood.	DEBUG	prerouting Firewall Rule add for Relay failed	DEBUG

l		Deleting MAC Filter Policy for Address	I
Disabling attack check for UDP Flood.	DEBUG	%s	DEBUG
5		Adding MAC Filter Policy for Address	
Disabling attack check for IPsec.	DEBUG	%s	DEBUG
Disabling attack check for PPTP.	DEBUG	Disabling Firewall Rules for DMZ host	DEBUG
Disabling attack check for L2TP.	DEBUG	Enabling Firewall Rules for DMZ host	DEBUG
		Disabling Firewall Rules for Spill Over	
Disabling attack check for UDP Flood.	DEBUG	Load Balancing	DEBUG
Diachting attack shack for IDaac		Disabling Firewall Rules for Load	DEDUIO
Disabling attack check for iPsec.	DEBUG	Balancing Enabling Firowall Pulos for Load	DEBUG
Disabling attack check for PPTP	DEBUG	Balancing	DEBUG
	52500	Enabling Firewall Rules for Spill Over	52500
Disabling attack check for L2TP.	DEBUG	Load Balancing	DEBUG
Enabling attack check for Block ping to		Enabling Firewall Rules for Auto	
WAN "	DEBUG	Failover	DEBUG
Enabling attack check for Stealth Mode		Enabling Firewall Rules for Load	DEDUIO
for top. Enabling attack shock for Stoalth Mode	DEBUG	Balancing . Enabling Firowall Pulos for Spill Over	DEBUG
for udp	DEBUG	Load Balancing	DEBUG
	DEDOO	Enabling Firewall Rules for Auto	DEBOO
Enabling attack check for TCP Flood.	DEBUG	Failover	DEBUG
Enabling attack check for UDP Flood.	DEBUG	Deleting BlockSites Keyword \	DEBUG
Enabling attack check for IPsec.	DEBUG	Enabling BlockSites Keyword \	DEBUG
Enabling attack check for PPTP	DEBUG	Disabling BlockSites Keyword \	
Enabling attack check for L2TP		Lindating BlockSites Keyword from \	DEBUG
Enabling attack check for LDD Flood			
Enabling attack check for UDP Flood.	DEDUG		DEDUG
Enabling attack check for IPsec.	DEBUG		DEBUG
Enabling attack check for PPTP.	DEBUG	Adding Trusted Domain \	DEBUG
Enabling attack shock for LOTD		Restarting Schedule Based Firewall	
Enabling DoS attack check with %d	DEBUG	Rules	DEBOG
SyncFlood detect rate, "	DEBUG	Enabling Remote SNMP	DEBUG
Disabling DoS attack check having %d			
SyncFlood detect rate,"	DEBUG	Disabling Remote SNMP	DEBUG
Enabling ICSA Notification Item for			
ICMP notification.	DEBUG	Enabling Remote SNMP	DEBUG
Enabling ICSA Notification item for		Disabling DOS Attacks	DEBUG
Enabling ICSA Notification Item for	DEDUG		DEBOG
Multi cast Packets.	DEBUG	Enabling DOS Attacks	DEBUG
Disabling ICSA Notification Item for			
ICMP notification.	DEBUG	Enabling DOS Attacks	DEBUG
Disabling ICSA Notification Item for			
Fragmented Packets.	DEBUG	Restarting Firewall [%d]:[%d] For %s	DEBUG
Disabiling ICSA Notification Item for Multi cast Packets		= %	
Adding IP/MAC binding rule for %s	DEDOO	- 703	DEDUC
MAC address "	DEBUG	Deleting Lan Group %s	DEBUG
Deleting IP/MAC binding rule for %s			
MAC "	DEBUG	Adding Lan Group %s	DEBUG
./src/firewall/linux/user/firewalld.c:60:#u	DEDUC		DEDUC
naer ADP_DEBUG	DEROG	Deleting ian nost %s from group %s	DEBUG
efine ADP DEBUG printf	DEBUG	Adding lan host %s from group %s	DEBUG
Restarting traffic meter with %d mins.	52500	Disabling Firewall Rule for IGMP	52500
%d hours, "	DEBUG	Protocol	DEBUG

Undating traffic mater with % d mins	I	Enabling Eirowall Pule for IGMP	1
% hours "	DEBUG	Protocol	DEBUG
	DEBOO	Deleting IP/MAC Bind Rule for MAC	DEDUU
Deleting traffic meter.	DEBUG	address %s and IP "	DEBUG
		Adding IP/MAC Bind Rule for MAC	
Disabling block traffic for traffic meter.	DEBUG	address %s and IP	DEBUG
		Deleting Protocol Bind Rule for	
Enabling traffic meter.	DEBUG	Service %s	DEBUG
		Deleting Protocol Bind Rule for	
Adding lan group %s.	DEBUG	Service %s	DEBUG
Deleting lang groups 0/ a	DEDUG	Deleting Protocol Bind Rule for	DEDUO
Deleting lan group %s.	DEBUG	Adding Protocol Bind Bule for Sorvice	DEBUG
Renaming lan group from %s to %s			
	DEDUC	No Cassian Cattings	DEDUC
Deleting nost %s from %s group.	DEBUG	%s Session Settings	DEBUG
Adding host %s to %s group.	DEBUG	Restarting IPv6 Firewall Rules	DEBUG
Enabling Keyword blocking for %s	DEDUO	Deleting Port Trigger Rule for	DEDUO
Keyword.	DEBUG	80:%0:%0:%0 Deleting Port Trigger Dule for	DEBUG
Disabiling Reyword Blocking for %s	DEBUG		
Deleting trusted domain with keyword	DEBOG	Fnahling Port Trigger Rule for	DEBOG
%s	DEBUG		DEBUG
	DEBGG	Disabling Port Trigger Rule for	DEBGG
Adding %s keyword to trusted domain.	DEBUG	%d:%d:%d:%d	DEBUG
Enabling Management Access from		Enabling Port Trigger Rule for	-
Internet on port %d	DEBUG	%d:%d:%d:%d	DEBUG
Enabling remote access management		Disabling Port Trigger Rule for	
for IP address range"	DEBUG	%d:%d:%d:%d	DEBUG
Enabling remote access management		Adding Port Trigger Rule for	DEDUG
to only this PC.	DEBUG	%d:%d:%d:%d	DEBUG
Disabling Management Access from		Enchling Contant Filter	
Disabling remote access management	DEBUG		DEBOG
for IP address range"	DEBUG	Disabling Content Filter	DEBUG
Disabling remote access management	52500		02000
only to this PC.	DEBUG	Enabling Content Filter	DEBUG
MAC Filtering %sabled for BLOCK and		Setting NAT mode for pLogicalIfName	
PERMIT REST.	DEBUG	= %S	DEBUG
MAC Filtering %sabled for PERMIT and			
BLOCK REST.	DEBUG	Enabling DROP for INPUT	DEBUG
Enabling Content Filtering.	DEBUG	Enabling DROP for FORWARD	DEBUG
Disabling Content Filtering.	DEBUG	Enabling NAT based Firewall Rules	DEBUG
Deleting rule, port triggering for protocol		Setting transparent mode for	
TCP.	DEBUG	pLogicalIfName \	DEBUG
Deleting rule, port triggering for protocol			
UDP.	DEBUG	Enabling Accept for INPUT	DEBUG
Deleting rule, port triggering for protocol	DEDUC	Eachling Accept for EODWADD	
Deleting rule, part triggering for protocol	DEBUG	Sotting Pouting mode for	DEBUG
	DEBUG	pl ogicallfName \	DEBUG
Enabling rule port triggering for	DEDUC		DEDUU
protocol TCP.	DEBUG	Enabling DROP for INPUT	DEBUG
Enabling rule, port triggering for		3	
protocol UDP.	DEBUG	Enabling DROP for FORWARD	DEBUG
Enabling rule, port triggering for			
protocol TCP.	DEBUG	Disabling NAT based Firewall Rules	DEBUG
Enabling rule, port triggering for		Enabling Firewall Rules for URL	
protocol UDP.	DEBUG	Filtering & "	DEBUG

Enabling DNS proxy.	DEBUG	Adding Firewall Rule for RIP Protocol	DEBUG
Destarting DNC around		Restarting Schedule Based Firewall	DEDUC
Restarting DNS proxy.	DEBUG	enabling IPS checks between %s and	DEBUG
checking DNS proxy for Secure zone.	DEBUG	%s zones.	DEBUG
		disabling IPS checks between %s and	
checking DNS proxy for Public zone.	DEBUG	%s zones.	DEBUG
Enabling Block traffic from %s zone.	DEBUG	Stopping IPS%s	DEBUG
Configuring firewall session settings for			DEDUC
Diaskline DMZ	DEBUG	IPS staned.	DEBUG
Disabiling DMZ	DEBUG	Route already exists	DEBUG
Disabling WAN-DMZ rules .	DEBUG	Unreachable	DEBUG
Enabling WAN DMZ rules	DEBUG	Route addition failed: Network is down	DEBUG
Restarting DMZ rule having %s address	02000		
with %s address.	DEBUG	Route addition failed	DEBUG
Enabling LAN DHCP relay.	DEBUG	Failed to add rule in iptables	DEBUG
OneToOneNat configured successfully	DEBUG	Failed to delete rule from iptables	DEBUG
		fwLBSpillOverConfigure: Something	
OneToOneNat configuration failed	DEBUG	going wrong here	ERROR
Deletine estado de Dr.C. miles	DEDUO	fwLBSpillOverConfigure: unable to get	
Deleting scheduled IPv6 rules.	DEBUG	InterfaceName	ERROR
ScheduleName = '%s'	DEBUG	PREROUTING rules	FRROR
Update FirewallRules6 where	02000	fwLBSpillOverConfigure: Could not set	
ScheduleName = '%s' to New "	DEBUG	POSTROUTING rules	ERROR
		fwLBSpillOverConfigure: Something	
Dns proxy Restart failed	DEBUG	going wrong Here	ERROR
deleting interface to ifgroup failed		TWL2 I PGenericRules.c: unable to	
	DEDUG	fwl 2TPGenericRules.c: inet_aton	
adding interface to ifgroup failed	DEBUG	failed	ERROR
deleting interface pVirtIface %s from		fwPPTPGenericRules.c: unable to	
ifgroup %d"	DEBUG	open the database file "	ERROR
adding interface pVirtIface %s to		fwPPTPGenericRules.c: inet_aton	
Ifgroup %d falled	DEBUG	DNS proxy firewall rule add failed for	ERROR
Deleting IP address %s.	DEBUG	%s	ERROR
		deleting interface %s from ifgroup %d	
Adding new IP address %s.	DEBUG	failed	ERROR
Updating old IP address %s to new IP	DEDUIO	adding interface %s to ifgroup %d	
address %s.	DEBUG	failed	ERROR
Lindate from %s:%s	DEBUG	interfaceName	FRROR
Disabling Firewall Rule for MSS packet	DEDOO		
marking	DEBUG	nimfBridgeTblHandler: \	ERROR
Enabling Firewall Rule for MSS packet			
marking	DEBUG	nimfBridgeTblHandler: unable to get \	ERROR
Enabling packet marking rule for %s		Palled to %s traffic from %s to %s to	
Deleted firewall rule %s for service %s	DEDUG	Failed to %s traffic from %s to %s to	
with action %s	DEBUG	IPS.	ERROR
%s firewall rule %s for service %s with			
action %s	DEBUG	failed to start IPS service.	ERROR
Added firewall rule %s for service %s		I Imeout in waiting for IPS service to	
		ວເລາ.	

Deleting inbound(WAN-LAN) firewall	DEBUG	Usage:%s <dbfile> <optype></optype></dbfile>	ERROR
Deleting inbound(WAN-DMZ) firewall	DEDUU	xlr8NatConfig: illegal invocation of	
rule.	DEBUG	(%s)	ERROR
RIPng disabled.	DEBUG	Illegal invocation of [%s]	ERROR
	DEDUIO	xlr8NatMgmtTblHandler: failed query:	50000
RIPhg enabled.	DEBUG	%S	ERROR
Disable IPv6 firewall rule.	DEBUG	Could not open file: %s	ERROR
Enable IPv6 firewall rule.	DEBUG	Rip Error Command Too Long	ERROR
Deleting IGMP proxy rule.	DEBUG	No authentication for Ripv1	ERROR
Enable IGMP proxy rule.	DEBUG	Invalid Rip Direction	ERROR
Restarting IGMP rule.	DEBUG	Invalid Rip Version	ERROR
Traffic meter enabled with no limit type.	DEBUG	Invalid Password for 1st Key	ERROR
Traffic meter enabled for only			
download.	DEBUG	Invalid Time for 1st Key	ERROR
Traffic meter enabled for both			
directions.	DEBUG	Invalid Password for 2nd Key	ERROR
Deleted firewall rule %s for service %s		Invelid Time for 2nd Key	
With action %S	DEBUG	Invalid Time for 2nd Key	ERROR
action %s	DEBUG	Invalid First Kevld	ERROR
Added firewall rule %s for service %s			
with action %s	DEBUG	Invalid Second Keyld	ERROR
Enabling Inter VLAN routing.	DEBUG	Invalid Authentication Type	ERROR
Updating inter VLAN routing status.	DEBUG	ripDisable failed	ERROR
Deleting inter VLAN routing.	DEBUG	ripEnable failed	ERROR

Facility: Local0 (Wireless)

Log Message	Severity	Log Message	Severity
(node=%s) setting %s to val = %d	DEBUG	sqlite3QueryResGet failed	ERROR
Custom wireless event: '%s'	DEBUG	sqlite3QueryResGet failed	ERROR
Wireless event: cmd=0x%x len=%d	DEBUG	VAP(%s) set beacon interval failed	ERROR
New Rogue AP			
(%02x:%02x:%02x:%02x:%02x:%02x) detected	DEBUG	VAP(%s) set DTIM interval failed	ERROR
WPS session in progress, ignoring enrolle assoc request	DEBUG	VAP(%s) set RTS Threshold failed	ERROR
ran query %s	DEBUG	VAP(%s) set Fragmentation Threshold failed	ERROR
DBUpdate event: Table: %s opCode:%d rowld:%d	DEBUG	VAP(%s) set Protection Mode failed	ERROR
%sing VAPs using profile %s	DEBUG	VAP(%s) set Tx Power failed	ERROR
%sing VAP %s	DEBUG	WDS Profile %s not found	ERROR
ran query %s	DEBUG	Failed to initalize WPS on %s	ERROR
%sing VAP instance %s	DEBUG	failed to get profile %s	ERROR
VAP(%s) set Short Preamble failed	DEBUG	could not initialize MGMT framework	ERROR
VAP(%s) set Short Retry failed	DEBUG	could not initialize MGMT framework	ERROR
VAP(%s) set Long Retry failed	DEBUG	dot11VapBssidUpdt SQL error: %s	ERROR
Decrypting context with key %s	DEBUG	sqlite3QueryResGet failed.Query:%s	ERROR
Unknown IAPP command %d received.	DEBUG	KDOT11_GET_PARAM(IEEE80211_ IOC_CHANNEL) failed	ERROR

		Failed to get the channel setting for	1
unexpected reply from %d cmd=%d !	DEBUG	%s	ERROR
unexpected reply from %d cmd=%d !	DEBUG	sqlite3QueryResGet failed.Query:%s	ERROR
Recvied DOT11_EAPOL_KEYMSG	DEBUG	sqlite3QueryResGet failed.Query:%s	ERROR
shutting down AP:%s	DEBUG	profile %s not found	ERROR
APCtx Found	DEBUG	sqlite3QueryResGet failed.Query:%s	ERROR
APCtx Not-Found	DEBUG	Interface name and policy must be specified	ERROR
node not found *:*:*:%x:%x:%x	DEBUG	Interface name and policy must be specified	ERROR
error installing unicast key for %s	DEBUG	invalid ACL type %d	ERROR
cmd =%d i_type =%d i_val=%d	DEBUG	interface name not specified	ERROR
join event for new node %s	DEBUG	interface name not specified	ERROR
wpa/rsn IE id %d/%d not supported	DEBUG	Invalid interface - %s specified	ERROR
wpa IE id %d not supported	DEBUG	buffer length not specified	ERROR
leave event for node %s	DEBUG	Invalid length(%d) specified	ERROR
NodeFree request for node : %s	DEBUG	failed created iappdLock	ERROR
installing key to index %d	DEBUG	failed to create cipher contexts.	ERROR
iReq.i_val : %d	DEBUG	unable to register to UMI	ERROR
plfName : %s	DEBUG	iappSockInit() failed	ERROR
iRegi val:%d	DEBUG	iappInit got error, unregistering it with	ERROR
		umiloctl(UMI_COMP_UDOT11,%d,%	_
setting mode: %d	DEBUG	d) failed	ERROR
Global counter wrapped, re-		umiloctl(UMI_COMP_KDOT11,%d,%	
Got	DEBUG		ERROR
PNAC_EVENT_PREAUTH_SUCCESS			
event for : %s	DEBUG	UDP failed, received Length is %d	ERROR
event for non-existent node %s	DEBUG	umiloctl(UMI_COMP_KDOT11,	ERROR
PNAC_EVENT_EAPOL_START event	DEDUO	umiloctl(UMI_COMP_UDOT11,%d,%	
	DEBUG		ERROR
event received	DEBUG	d) \	FRROR
PNAC_EVENT_REAUTH event	52500		Lintoit
received	DEBUG	No IAPP Node found for req id %d	ERROR
PNAC_EVENT_AUTH_SUCCESS	DEDUO	umiloctl(UMI_COMP_UDOT11,%d,%	
EVENT POPT STATUS CHAN	DEBUG	d) \ umilectl(UML_COMP_KDOT11 % d %	ERROR
GED event received	DEBUG	d) \	ERROR
		umiloctl(UMI_COMP_UDOT11,%d,%	
unsupported event %d from PNAC	DEBUG	d) failed	ERROR
event for non-existent node %s. Create	DEDUO		
	DEBUG	UDP socket is not created	ERROR
Add new node to DOT11 Node list	DEBUG	UDP send failed	ERROR
Update dot11STA database	DEBUG	failed.	ERROR
Add PMKSA to the list	DEBUG	IAPP: TCP connect failed to %s.	ERROR
eapolRecvAuthKeyMsg: received key			
message	DEBUG	cmd %d not supported.sender=%d	ERROR
node not found	DEBUG	umiloctl(UMI_COMP_KDOT11,%d,% d) failed	ERROR
eapolRecvKeyMsg: replay counter not	D	IAPP-CACHE-NOTIFY-REQUEST	
incremented	DEBUG	send to	ERROR

eapolRecvKeyMsg: replay counter is not		./src/dot11/iapp/iappLib.c:1314:	
same	DEBUG	ADP_ERROR (ERROR
processing pairwise key message 2	DEBUG	BSSID value passed is NULL	ERROR
RSN IE matching: OK	DEBUG	reserved requestId is passed	ERROR
processing pairwise key message 4	DEBUG	interface name is NULL	ERROR
processing group key message 2	DEBUG	IP address value passed is NULL	ERROR
processing key request message from		oponing receive LIDP secket foiled	
Client	DEBUG	enabling broadcast for UDP socket	ENNON
WPA version %2x %2x not supported	DEBUG	failed	ERROR
		opening receive TCP socket for new	
(%s) group cipher %2x doesn't match	DEBUG	AP failed	ERROR
(%s)Pairwise cipher %s not supported	DEBUG	ADP ERROR(ERROR
(%s) authentication method %d not		./src/dot11/iapp/iappLib.c:1794:	
supported	DEBUG	ADP_ERROR(ERROR
%s:Auth method=%s pairwise		./src/dot11/iapp/iappLib.c:1803:	
Cipher=%s IE size=%d	DEBUG		
WPA version %2x %2x not supported	DEBUG		ERROR
Drable to obtain IE of type %d	DEBUG	falled Initialize profile library.	ERROR
PIK state changed from %s to %s	DEBUG	failed to create cipher contexts.	ERROR
using PMKSA from cache	DEBUG	unable to register to UMI	ERROR
PTK GK state changed from %s to %s	DEBUG	could not create MIB tree	ERROR
GK state changed from %s to %s	DEBUG	unable to register to PNAC	ERROR
Sending PTK Msg1	DEBUG	to PNAC exceeded	ERROR
Sending PTK Msg3	DEBUG	Creation of EAP WPS Profile Failed	ERROR
Sending GTK Msg1	DEBUG	umiloctl(UMI_COMP_IAPP,%d) failed	ERROR
		DOT11_RX_EAPOL_KEYMSG:	
sending EAPOL pdu to PNAC	DEBUG	unknown ifname %s	ERROR
creating pnac authenticator with values		and $\frac{9}{d}$ not supported conder- $\frac{9}{d}$	
760 760 - 765		inteface name needed is NULL	
ADD initialized			
TAPP Initialized.		inteface name needed is NULL	
could not find access point context for	DEBUG	unable to allocate memory for	ERRUR
%s	DEBUG	DOT11_CTX	ERROR
join event for existing node %s	DEBUG	unable to install wme mapping on %s	ERROR
		unable to get %s mac address	
failed to send PNAC_AUTHORIZED "	DEBUG	Eailed to set %s SSID	
failed to send FNAC_AOTHORIZED	DEBUG		ENNON
PNAC_VAR_KEY_AVAILABLE (TRUE)			
	DEBUG	Failed to set SSID broadcast status	ERROR
failed to send PNAC_VAR_KEY_TX_EN (TRUE) "	DEBUG	Failed to set PreAuth mode	ERROR
failed to send PNAC_VAR_KEY_TX_EN (FALSE) "	DEBUG	unable to install key	ERROR
failed to send		KDOT11_SET_PARAM:IEEE80211_I	
PNAC_FORCE_AUTHORIZED "	DEBUG		ERROR
failed to send PNAC ALITHORIZED "		C. PRIVACY failed	
mic verification: OK	DEBUG	wpalnit failed	

		dot11InstallProfile: unable to get	
pnaclfConfig: Invalid supplicant"	DEBUG	interface index	ERROR
Failed to process user request	DEBUG	adpHmacInit(%s) failed	ERROR
Failed to process user request - %s(%d)	DEBUG	interface %s not found	ERROR
pnaclfConfigUmiloctl: umiloctl failed	DEBUG	AP not found on %s	ERROR
pnaclfConfigUmiloctl: usrPnac returned %d	DEBUG	keyLen > PNAC_KEY_MAX_SIZE	ERROR
pnaclfConfigUmiloctl: usrPnac returned %d	DEBUG	Invalid profile name passed	ERROR
pnaclfConfigUmiloctl: usrPnac returned %d	DEBUG	Creation of WPS EAP Profile failed	ERROR
pnacKernNotifier: invalid PAE configuration "	DEBUG	unsupported command %d	ERROR
From pnacEapDemoAuthRecv:	DEDUO		
Erom pracEapDemoAuthRecy: invalid	DEBUG	device %s not found	ERROR
codes received	DEBUG	unsupported command %d	ERROR
From pnacRadXlateDemoRecv:			
received unknown "	DEBUG	dot11NodeAlloc failed	ERROR
From pnacRadXlateDemoRecv: invalid	DEDUO		
codes received	DEBUG	Getting WPA IE failed for %s	ERROR
Error from phackad Alate Demokecv:		Getting WPS IF failed for %s	
From pnacRadXlateRadPktHandle:	DEDOO	Failed initialize authenticator for node	LINION
received a non-supported"	DEBUG	%s	ERROR
Only md5 authentication scheme		Failed to get the system up time while	
currently supported. "	DEBUG	adding node %s	ERROR
Message from authenticator:	DEBUG	error creating PNAC port for node %s	ERROR
from pnacPDUXmit: bufsize = %d,			
pk(1)ype = %0,	DEBUG		ERRUR
code = $\%$ d. "	DEBUG	Invalid arguments.	ERROR
pnacRecvRtn: no corresponding pnac			_
port pae found	DEBUG	umiloctl(UMI_COMP_IAPP,%d) failed	ERROR
sending unicast key	DEBUG	Invalid IE.	ERROR
		umiloctl(UMI_COMP_KDOT11_VAP,	
sending broadcast key	DEBUG	%d) failed	ERROR
from pnacAuthPAEDisconnected:	DEBUG	WINOCTI(UMI_COMP_KDOT11,%d	
from pnacAuthPAFForceUnauth: calling	DEDOO	KDOT11 SET PARAM:IEEE80211 L	LINION
pnacTxCannedFail	DEBUG	OC_WME_CWMIN failed	ERROR
		KDOT11_SET_PARAM:IEEE80211_I	
state changed from %s to %s	DEBUG	OC_WME_CWMAX failed	ERROR
PNAC user comp id not set. dropping	DEDUO	KDOT11_SET_PARAM:IEEE80211_I	
event %d	DEBUG		ERROR
sending event %d to %d	DEBUG	WMF_TXOPLIMIT failed	ERROR
		KDOT11_SET_PARAM:IEEE80211_I	
requesting keys informantion from %d	DEBUG	OC_WME_ACM failed	ERROR
pnacUmiPortPaeParamSet: error in		KDOT11_SET_PARAM:IEEE80211_I	
getting port pae	DEBUG	OC_WME failed	ERROR
phacomiportPaeParamSet: invalid		invalid group cipher %d	
pnacRecvASInfoMessage: Skey of	DEBUG	KDOT11 SFT PARAM IFFF80211	
length %d set	DEBUG	OC_MCASTCIPHER failed	ERROR
pnacRecvASInfoMessage: reAuthPeriod		KDOT11_SET_PARAM:IEEE80211_I	-
set to: %d	DEBUG	OC_MCASTKEYLEN failed	ERROR

pnacRecvASInfoMessage: suppTimeout set to: %d	DEBUG	KDOT11_SET_PARAM:IEEE80211_I	FRROR
	DEBUG	KDOT11_SET_PARAM:IEEE80211_I	EPROP
	DEB00	KDOT11_SET_PARAM:IEEE80211_I	LINION
creating physical port for %s	DEBUG	OC_WPA failed	ERROR
pnacAuthInit: using defualt	DEBUG	unknow cipher type = %d	FRROR
pnacSupplnit: using defualt	02000		
pnacSuppParams	DEBUG	umiloctl(UML COMP_IAPP.%d) failed	ERROR
Frior from			
pnacCombinedStMachTriggerFunc: "	DEBUG	invalid media value=%d	ERROR
Error from			
pnacCombinedStMachTriggerFunc: "	DEBUG	invalid mediaOpt value=%d	ERROR
Error from			
pnacCombinedStMachTriggerFunc: "	DEBUG	invalid mode value=%d	ERROR
Error from			
pnacCombinedStMachTriggerFunc: "	DEBUG	dot11PnaclfCreate failed	ERROR
Error from			
pnacCombinedStMachTriggerFunc: "	DEBUG	wpaPRF failed	ERROR
Error from			
pnacCombinedStMachTriggerFunc: "	DEBUG	Error generating global key counter	ERROR
Error from		wpaCalcMic: unsupported key	
pnacCombinedStMachTriggerFunc: "	DEBUG	descriptor version	ERROR
Error from		integrity failed. need to stop all	
_pnacCombinedStMachTriggerFunc: "	DEBUG	stations "	ERROR
Error from		couldn't find AP context for %s	
pnacCombinedStMachTriggerFunc: "	DEBUG	interface	ERROR
received a pdu on %s	DEBUG	dot11Malloc failed	ERROR
pnacRecvMapi: protoType: %04x			
pPhyPort->authToASSendRtn:%p	DEBUG	dot11Malloc failed	ERROR
		eapolRecvKeyMsg: unknown	
port not found	DEBUG	descType =%d	ERROR
from pnacRecvMapi: pkt body len = %d,		eapolRecvKeyMsg: invalid descriptor	
pktType = %d	DEBUG	version	ERROR
from pnacPDUProcess: received		eapolRecvKeyMsg: incorrect	
PNAC_EAP_PACKET	DEBUG	descriptor version	ERROR
	DEDUO	eapolRecvKeyMsg: Ack must not be	55565
from pnacPDUProcess: currentId = %d	DEBUG	set	ERROR
from pnacPDUProcess: code = %d,	DEDUO	eapolRecvKeyMsg: MIC bit must be	
from proceeding the process of the second setting the process of the second second setting the process of th	DEBUG	Set	ERROR
true	DEBUG	nacket received	
from phacPDI IProcess: code = %d	DEBOG	wpaAuthBacyPTKMeg2: mic check	LINKOK
identifier - %d "	DEBUG	failed	
identiner – 760,	DEBOG	wpaAuthPacyPTKMeg2: rsp ia	LINKOK
from phacPDI IProcess: received "	DEBUG	mismatch	FRROR
	DEBOO	wpaAuthRecyPTKMsq4: unexpected	LINION
from phacPDI IProcess: received "	DEBUG	nacket received	FRROR
from phaceDI IProcess: received	DEBOO	wpaAuthRecyPTKMsg4	LINION
PNAC FAPOL KEY PACKET	DEBUG	keyDatal ength not zero	ERROR
		wpaAuthRecvPTKMso4: mic check	
doing pnacTxCannedFail	DEBUG	failed	ERROR
		wpaAuthRecvGTKMsg2: unexpected	_
doing pnacTxCannedSuccess	DEBUG	packet received	ERROR
	DEBUG	secureBit not set in GTK Msg2	FRROR
		wpaAuthRecvGTKMsq2	
doing pnacTxReq	DEBUG	keyDataLength not zero	ERROR

	doing pnacTxStart	DEBUG	wpaAuthRecvGTKMsg2: mic check failed	ERROR
		DEDUO	wpaAuthRecvKeyReq: unexpected	
	doing phác i xLogon	DEBUG	wpaAuthRecvKevReg:	ERROR
	doing pnacTxRspId: 1st cond	DEBUG	keyDataLength not zero	ERROR
	doing pnacTxRspld: entering 2nd cond	DEBUG	wpaAuthRecvKeyReq: mic check failed	ERROR
	from pnacTxRspId: code = %d, identifier $= \%d$			
	doing pnacTxRspld: 2nd cond	DEBUG	(%s) invalid OLII %x %x %x	FRROR
	doing phacTxRspAuth: 1st cond	DEBUG	[%s:%d] Cipher in WPA IF · %x	FRROR
	doing phacTxRspAuth: 2nd cond	DEBUG	(%s) invalid OUI %x %x %x	ERROR
	message for unknown port PAF		short WPA IF (length - %d) received	
	from pnacACToSuppRecvRtn: calling	DEB00		LINION
	pnacEapPktRecord	DEBUG	PTK state machine in unknown state.	ERROR
	from pnacEapPktRecord: code = %d,			
	identifier = %d, "	DEBUG	dot11InstallKeys failed	ERROR
	success pkt	DEBUG		
	from pnacEapPktRecord: received	DEBOO		LINION
	failure pkt	DEBUG	dot11Malloc failed	ERROR
	from pnacEapPktRecord: received		dot11Malloc failed	FRROR
	unknown FAP-code %d	DEBUG	dot11Malloc failed	FRROR
	Authenticator[%d]:		aesWrap failed	FRROR
	Auth PAF state = %s	DEBUG	unknown key descriptor version %d	FRROR
	Auth Reauth state – %s	DEBUG	dot11Malloc failed	FRROR
	Back auth state $-\%$			
	Supplicant[%d]:	DEBUG	could not initialize AES-128-ECB	
	Sunn Pae state - %s		MD5 initialization failed	
	from pnacBackAuthFail: calling	DEB00		LINION
	pnacTxCannedFail	DEBUG	RC4 framework initialization failed	ERROR
	%s returned ERROR	DEBUG	PNAC framework initialization failed	ERROR
	pnacUmiloctlHandler: cmd: %s(%d)	DEBUG	ERROR: option value not specified	ERROR
	%s not configured for 802.1x	DEBUG	ERROR: -u can be used only with -s	ERROR
	could not process PDU received from	DEBLIC	EPPOP: upor name not aposition	
	pnacPDUForward: failed to foward the	DEBUG	ERROR. user-name not specified	ERROR
	received PDU	DEBUG	failed to enable debug	ERROR
	Creating PHY port with AUTH backend :			
	%s SendRtn: %p RecvRtn:%p	DEBUG	[%s]: failed to convert string to MAC "	ERROR
	for 802.1x	DEBUG	failed to initialize UMI	ERROR
I	pnacSuppRegisterUserInfo: not a valid	1	pnacPhyPortParamSet:invalid	
	AC	DEBUG	arguments	ERROR
ļ	pnaclfConfig: autoAuth Enabled		pnacPhyPortParamSet:Falled to	
			Error from	
ļ	pnacSendRtn: no pnac port pae found		pnacPhyPortParamSet:%s-device	
	for "	DEBUG	invalid	ERROR
ļ			Error from pnacPhyPortParamSet %s-Getting	
	sending portStatus: %s[%d] to dot11	DEBUG	MAC address "	ERROR
1				

pnacRecvASInfoMessage: Rkey of length %d set	DEBUG	pnacPhyPortParamSet:Failed to add 802.1X multicast "	ERROR
ASSandBtn: % a ASTaAuthBaay; % a		pnaclsInterfaceUp: failed to create a	
adpRand failed:unable to generate	DEBUG	pnaclsInterfaceUp: failed to get	ERROR
random unicast key	WARN	interface flags	ERROR
using group key as unicast key	WARN	failed to allocate buffer	ERROR
Integrity check failed more than once in last 60 secs.	WARN	UMI initialization failed	ERROR
MIC failed twice in last 60 secs, taking			
countermeasures	WARN	UMI initialization failed	ERROR
Failed to set dot11 port status	WARN	malloc failed	ERROR
		Error from pnacEapDemoAuthRecv:	1
PTK state machine in NO_STATE.	WARN	received null EAP pkt	ERROR
PTK state machine in NO_STATE!!	WARN	Error from phaceapDemoAuthRecv:	FRROR
		Error from pnacRadXlateASAdd:	LINION
PMKSA refcount not 1	WARN	cannot open socket	ERROR
IV verification failednknown subtype>	WARN	Error from pnacRadXlateDemoRecv: received null EAP pkt	ERROR
pnaclfConfig: overwriting previous		From pnacRadXlateDemoRecv: send	
interface "	WARN	"	ERROR
pnaclfConfig: overwriting previous "	WARN	RADIUS "	ERROR
pnaclfConfig: overwriting previous		Error from pnacRadXlateDemoRecv:	
username"	WARN	RADIUS "	ERROR
		Error from	
phachConing. overwhiling previous	WARN	to failed	FRROR
		Error from	LINION
		pnacRadXlateRadNonIdRespSend:	
%s: Failed to set port status	WARN	send to failed	ERROR
		Error from	
%s: Failed to notify event to dot11	WARN	recvfrom failed	ERROR
-		From	
pnacLibDeinit: Failed to destroy the		pnacRadXlateRadPktIntegrityChk: no	50000
pnyPort:%s	WARN	Error from	ERROR
pnacPortPaeDeconfig:kpnacPortPaeDe		pnacRadXlateRadPktIntegrityChk: no	
config failed	WARN	message "	ERROR
pnacPortPaeDeconfig:kpnacPortPaeDe		Error from	
config failed	WARN	pnacRadXlateRadPktIntegrityChk: "	ERROR
pnacBackAuthSuccess: failed to notify		pnacRadXlateRadChalPktHandle: no	
the destination "	WARN	encapsulated eap "	ERROR
		Error from	
and the stimitialize MONAT frame area at		pnacRadXlateRadChalPktHandle:	
	ERROR	Error from	ERROR
		pnacEapDemoSuppUserInfoRegister:	
umilnit failed	ERROR	invalid "	ERROR
		Error from pnacEapDemoSuppRecv:	
iappinit failed	ERROR	received null EAP pkt	ERROR
could not initialize IAPP MGMT	FRROR	send ptr to pnac supplicant"	FRROR
		From pnacEapDemoSuppRecv: user	
dot11Malloc failed	ERROR	info not entered yet	ERROR

	I	Error from pnacEapDemoSuppRecv	I
buffer length not specified	ERROR	couldn't "	ERROR
		MDString: adpDigestInit for md5	
Invalid length(%d) specified	ERROR	failed	ERROR
Falled to get information about authorized AP list	FRROR	pnacUmilnit: UMI initialization failed	FRROR
Recd IF data for non-existent AP %s	ERROR	could not start PNAC task	ERROR
Recd IE data for wrong AP %s	FRROR	invalid aruments	FRROR
Received Invalid IF data from WSC	FRROR	pnaclfNameToIndex failed	FRROR
	LINION	pnacPhyPortParamSet: device invalid	LINION
Recd IE data for non-existent AP %s	ERROR	%s%d	ERROR
Recd WSC Start command without	50000	pnacPhyPortParamSet: EIOCGADDR	
Interface name	ERROR	IOCII Ialled	ERROR
Recd WSC start for non-existent AP %s	ERROR	addr add ioctl failed	ERROR
		pnacPhyPortParamUnset: multicast	
Recd WSC start for wrong AP %s	ERROR	addr del ioctl failed	ERROR
Unable to send			
WSC_WLAN_CMD_PORT to WSC	ERROR	phacPDUXmit: Invalid arguments	ERROR
Failed to get the ap context for %s	ERROR	M BLK ID	ERROR
WPS can only be applied to		from pnaclsInterfaceUp: device	
WPA/WPA2 security profiles	ERROR	%s%d invalid	ERROR
whether the transing water and failed		pnacRecvRtn: dropping received	
Foiled to get the op context for 9/ o		packet as points	
WPS conf under non WPA/WPA2	ERRUR	phacSendRtn: Invalid arguments	ERRUR
security setting	ERROR	corresponding to"	ERROR
Failed to reset the Beacon Frame IE in		pnacSendRtn: dropping packet as	
the driver	ERROR	port"	ERROR
Falled to reset the Beacon Frame IE in the driver		pnacAutnBuildRC4KeyDesc: adpEncryptInit(RC4) failed	
	LINION	pnacAuthBuildRC4KevDesc:	LINION
WPS method cannot be NULL	ERROR	adpCipherContextCtrl"	ERROR
PIN value length should be a multiple of		pnacDot11UserSet: incorrect buffer	
4 !! Failed to initiate DIN based appreciation	ERROR	length	ERROR
PIN = %s	FRROR	PNAC user component id not set	FRROR
Failed to initiate PBC based enrolle	Linton	pnacKeyInfoGet:failed to allocate	Linton
association	ERROR	buffer	ERROR
Invalid association mode. (Allowed	50000	PNAC user comp id not set. dropping	
modes : PIN/PBC)	ERROR	EAPOL Key pkt	ERROR
wpsEnable: running wsccmd failed	ERROR	buffer received	ERROR
Failed to send QUIT command to WSC		Error from pnacRecvASInfoMessage:	
from DOT11	ERROR		ERROR
Failed to clear off the WPS process	ERROR	pnacRecvASInfoMessage: "	ERROR
missing profile name		pnacRecvASInfoMessage: Bad info	
A profile evicte with the same name		Error from pagel iblait: mollog failed	
A prome exists with the same name			
		could not create pages parts lock	
		port eviete for ifeee	
Profile name and interface name must	ERRUR		ERRUR
be specified	ERROR	pnacPhyPortCreate failed	ERROR
Profile %s does not exist	ERROR	kpnacPhyPortCreate failed	ERROR

Could not set profile %s on the interface	ERROR	invalid argument	FRROR
/03		pnacAuthConfig: maxAuth limit	LINION
missing profile name	ERROR	reached	ERROR
Profile %s does not exist	ERROR	pnacAuthConfig: malloc failed	ERROR
Profile %s does not exist	ERROR	Error from pnacAuthConfig: pAsArg cannot be NULL	ERROR
SSID should not be longer than %d	ERROR	Error from pnacAuthConfig: receive routine hook "	ERROR
Profile %s does not exist	ERROR	pnacAuthConfig: pnacAuthInit failed	ERROR
Profile %s does not exist	FRROR	kpnacPortPaeConfig failed	FRROR
Profile %s does not exist			
	LINION	Frror from pnacSuppConfig: malloc	LINION
Profile %s does not exist	ERROR	failed	ERROR
		Error from pnacSuppConfig: receive	
Profile %s does not exist	ERROR	routine hook "	ERROR
	50000	Error from pnacSuppConfig:	50000
Profile %s does not exist	ERROR	pnacSuppinit failed	ERROR
SSID Not Set. SSID is needed to		kpnacPortPaeConfig failed	
		pnacAuthDeconfig failed: pPortPae	
Password string too big	ERROR	NULL	ERROR
		Error from pnacPhyPortDestroy: port	
dot11Malloc failed	ERROR	not configured	ERROR
		pnacPhyPortDestroy: Failed to	
Profile %s does not exist	ERROR	deconfigure port	ERROR
Hex string should only have %d hex chars	ERROR	pnacPhyPortParamUnset FAILED	ERROR
		Error from pnacPhyPortCreate:	
dot11Malloc failed	ERROR	malloc failed	ERROR
Profile %s does not exist		Error from pnacPhyPortCreate:	
invalid key index %d key index should		error from pnacPhyPortCreate:	
be 0-3.	ERROR	malloc failed	ERROR
		Error from pnacAuthInit:	
wepKey length incorrect	ERROR	pnacPortTimersInit failed	ERROR
		Error from pnacAuthInit:	
Profile %s does not exist	ERROR	pnacAuthPAEInit failed	ERROR
Invalid Cipher type %d		Error from pnacAuthInit:	
Profile supports WEP stas Group cipher	ERROR	Error from pnacAuthInit	ERROR
must be WEP	ERROR	pnacReauthTimerInit failed	ERROR
		Error from pnacAuthInit:	
Profile %s does not exist	ERROR	pnacBackAuthInit failed	ERROR
		Error from pnacAuthInit:	
Profile %s does not exist	ERROR	pnacCtrlDirInit failed	ERROR
Drafile () a deap not eviat		Error from pnacAuthInit:	
Profile %s does not exist	ERROR		ERROR
invalid pairwise cipher type %d	ERROR	Error from pnacSupplnit: malloc failed	ERROR
Cipher %s is already in the list	FRROR	ppacPortTimersInit failed	FRROR
		Error from pnacSupplnit:	
Profile %s does not exist	ERROR	pnacKeyRecvInit failed	ERROR
		Error from pnacSuppInit:	
Invalid Cipher type %d	ERROR	pnacSuppKeyTxInit failed	ERROR
		Error from pnacSuppInit:	
Cipher %s not found in the list.	ERROR	pnacSuppPAEInit failed	ERROR

		Error from pnacRecvRtn: invalid	
Profile %s does not exist	ERROR	arguments	ERROR
Profile %s does not exist	FRROR	unsupported PDU received	FRROR
Auth method %s is already in the list			
Auti method %s is alleady in the list	ERROR	Error from pnacBasicPktCreate:	ERROR
Profile %s does not exist	ERROR	malloc failed	ERROR
Auth method %s not found in the list.	ERROR	Error from pnacEAPPktCreate: basic pkt create failed	ERROR
Profile %s does not exist	ERROR	Error from pnac I xCannedFail: eap pkt create failed	ERROR
Profile % a door not exist		Error from pnac I xCanned Success:	
		Error from phacTxRegId: eap pkt	LINION
Profile %s does not exist	ERROR	create failed	ERROR
invalid type value %d. supported values		Error from pnacTxReq: eap pkt create	
are 1,2,3,4	ERROR	failed	ERROR
Profile %s does not exist	ERROR	Error from pnacSendRespToServer: malloc failed	ERROR
invalid type value %d. supported values		Error from pnacSendRespToServer:	
are 1,2,3,4	ERROR	no AS configured	ERROR
Drafile 0/ a daga pat aviat		Error from pnac1xStart: basic pkt	
Profile %s does not exist	ERROR	Error from ppacTyStart: basic pkt	ERROR
are 1 2 3 4	FRROR	create failed	FRROR
		Error from pnacTxRspld: eap pkt	Litter
Profile %s does not exist	ERROR	create failed	ERROR
invalid type value %d. supported values		Error from pnacTxRspAuth: eap pkt	
are 1,2,3,4	ERROR	create failed	ERROR
Drafile 0/ a deservat aviat		Error from pnacEapPktRecord: EAP	
Profile %s does not exist	ERROR		ERRUR
are 1.2.3.4	ERROR	Error from pnacEapPktRecord: "	ERROR
		from pnacBackAuthTimeout: calling	
Profile %s does not exist	ERROR	pnacTxCannedFail	ERROR
ERROR: incomplete DB update		hmac_md5: adpHmacContextCreate	
information.	ERROR	failed	ERROR
old values result does not contain 2		hmaa mdGradal Imaalait failad	
Tows	ERROR	nmac_mus.aup=macinit failed	ERRUR
solite3QuervResGet failed	FRROR	%d	FRROR
		pnacEapRadAuthSend: Invalid	
Error in executing DB update handler	ERROR	arguments	ERROR
		pnacEapRadAuthSend: failed to	
sqlite3QueryResGet failed	ERROR	allocate inbuffer	ERROR
ERROR: incomplete DB update		nnonVmit u umile atl faile d[0/ d]	
Information.	EKKUK		ERRUR
rows	FRROR	pnacPDUForward: Invalid input	FRROR
		phacePDUForward: error in getting	Litter
sqlite3QueryResGet failed	ERROR	port pae information	ERROR
		pnacPDUForward: error allocating	
Error in executing DB update handler	ERROR	memory	ERROR
adite 20 year (Dee Cat failed Over with		pnacUmilfMacAddrChange: %s not	
sqiilesQueryResGet Talled.Query:%S	EKKUK	pnacl milfMacAddrChange: could not	EKKUK
salite3QuervResGet failed Querv.%s	ERROR	process PDU received"	ERROR
		pnacUmiPhyPortConfig: Invalid config	
sqlite3QueryResGet failed.Query:%s	ERROR	data	ERROR

	Ì	pnacUmiPhyPortConfig: Invalid	1
sqlite3QueryResGet failed.Query:%s	ERROR	backend name specified	ERROR
		pnacUmiPhyPortConfig: could not	
startStopVap failed to stop %s	ERROR	create PNAC physical"	ERROR
	50000	pnacUmiAuthConfig: Invalid config	50000
Invalid SQLITE operation code - %d	ERROR	data	ERROR
./src/dot11/mgmt/dot11Mgmt.c:11/7:		pnacumiAuthConfig: Invalid backend	
ADP_ERROR (ERROR	name specified	ERROR
det11PogueAP		unable to create new EAR context	
dottikoguezr.	ERROR	unable to apply %s profile on the EAP	LINON
solite3QueryResGet failed	FRROR	context	FRROR
Squee Squery Nesseer Tailed	LINION	ppacl ImiAuthConfig: could not	LINION
unhandled database operation %d	ERROR	configure PNAC PAE "	ERROR
		pnacUmiSuppConfig: Invalid config	
sglite3QueryResGet failed	ERROR	data	ERROR
		pnacUmiSuppConfig: Invalid backend	
failed to configure WPS on %s	ERROR	name specified	ERROR
		pnacUmiSuppConfig: %s not	
sqlite3QueryResGet failed	ERROR	configured for 802.1x	ERROR
		pnacUmiSuppConfig: could not	
sqlite3QueryResGet failed	ERROR	PNAC port Access"	ERROR
		pnacUmiSuppConfig: Failed to	
sqlite3QueryResGet failed	ERROR	register user information	ERROR
		pnacPortByMacDeconfig: port not	
sqlite3QueryResGet failed	ERROR	found	ERROR
arlita 20 year (Dag Cat failed		pnacPortByMacDeconfig: port not	
sqlite3QueryResGet failed	ERRUR		ERROR
no VAP rows returned. expected one	ERROR	pnacUmilfDown: Invalid config data	ERROR
multiple VAP rows returned. expected			
one	ERROR	pnacUmilfDown: Invalid config data	ERROR
adite20upr/DeaCet failed		Error from pnacPortDeconfig: port not	
squesqueryResGet Talled	ERROR	production could not do	ERROR
provis=%d		configure port	
1110WS= /60	ERROR	phael ImiPhyPortDestroy: Invalid	LINON
%s·\/AP(%s) create failed		config data	
		pnacUmiPhyPortDestroy: Invalid	
sglite3QuervResGet failed	ERROR	config data	ERROR
invalid query result. ncols=%d		pnacUmiPhyPortDestrov: Failed to	
nrows=%d	ERROR	destroy the port	ERROR
		Invalid config data	ERROR

Facility: Kernel

Log Message	Severity	Log Message	Severity
DNAT: multiple ranges no longer		9(a; 9(a)(a; 0)(d > 9(a; 0)(d))(a)	
	DEBUG	705. 705705.70U -> 705.70U 705,	DEBUG
DNAT: Target size %u wrong for %u			
ranges,	DEBUG	%s: %s%s:%d %s,	DEBUG
		%s: Failed to add WDS MAC: %s,	
DNAT: wrong table %s, tablename	DEBUG	dev->name,	DEBUG
DNAT: hook mask 0x%x bad,		%s: Device already has WDS mac	
hook_mask	DEBUG	address attached,	DEBUG
%s%d: resetting MPPC/MPPE		%s: Added WDS MAC: %s, dev-	
compressor,	DEBUG	>name,	DEBUG

		%s: WDS MAC address %s is not	
%s%d: wrong offset value: %d,	DEBUG	known by this interface,	DEBUG
%s%d: wrong length of match value: %d,	DEBUG	[madwifi] %s() : Not enough space., FUNCTION	DEBUG
%s%d: too big offset value: %d,	DEBUG	Returning to chan %d, ieeeChan	DEBUG
%s%d: cannot decode offset value,	DEBUG	WEP	DEBUG
%s%d: wrong length code: 0x%X,	DEBUG	AES	DEBUG
%s%d: short packet (len=%d), FUNCTION,	DEBUG	AES_CCM	DEBUG
%s%d: bad sequence number: %d, expected: %d,	DEBUG	СКІР	DEBUG
%s%d: bad sequence number: %d, expected: %d,	DEBUG	ТКІР	DEBUG
PPPIOCDETACH file->f_count=%d,	DEBUG	%s: cannot map channel to mode; freq %u flags 0x%x,	DEBUG
PPP: outbound frame not passed	DEBUG	%s: %s, vap->iv_dev->name, buf	DEBUG
PPP: VJ decompression error	DEBUG	%s: [%s] %s, vap->iv_dev->name,	DEBUG
PPP: inbound frame not passed	DEBUG	%s: [%s] %s, vap->iv_dev->name, ether_sprintf(mac), buf	DEBUG
PPP: reconstructed packet	DEBUG	[%s:%s] discard %s frame, %s, vap- >iv_dev->name,	DEBUG
DDD: no momony for	DEBLIC	[%s:%s] discard frame, %s, vap-	
	DEBUG	[%s:%s] discard %s information	DEBUG
missed pkts %u%u,	DEBUG	element, %s,	DEBUG
%s%d: resetting MPPC/MPPE compressor,	DEBUG	[%s:%s] discard information element, %s,	DEBUG
%s%d: wrong offset value: %d,	DEBUG	[%s:%s] discard %s frame, %s, vap- >iv_dev->name,	DEBUG
%s%d: wrong length of match value:		[%s:%s] discard frame, %s, vap-	
%u,		ifmodia add: pull ifm	
% s% d: conpet decede offset value		Adding optry for	
% of diverge length and of 0x% X		ifmedia, act: no match for 0x8(x/0x8/ x	
%s%d: short packet (len=%d).	DEBUG	Innedia_set. no match for 0x %x/0x %x,	DEDUG
FUNCTION,	DEBUG	ifmedia_set: target	DEBUG
%s%d: bad sequence number: %d, expected: %d,	DEBUG	ifmedia_set: setting to	DEBUG
%s%d: bad sequence number: %d, expected: %d,	DEBUG	ifmedia_ioctl: no media found for 0x%x,	DEBUG
PPPIOCDETACH file->f count-%d		Ifmedia_loctl: switching %s to , dev-	
PPP: outbound frame not passed		ifmedia match: multiple match for	
PPP: V.I decompression error	DEBUG	<ur> Inneula_match: multiple match for <unknown type=""></unknown> </ur>	
PPP: inbound frame not passed	DEBUG	desc-sifmt string	
PPP: reconstructed packet	DEBUG	mode %s desc->ifmt string	
PPP: no memory for	DEBUG	<ur><unknown subtype=""></unknown></ur>	DEBUG
missed pkts %u.%u.	DEBUG	%s. desc->ifmt_string	DEBUG
%s: INC USE COUNT now %d			
FUNCTION, mod_use_count \	DEBUG	%s%s, seen_option++ ? , : ,	DEBUG
S: DEC_USE_COUNT, now %d,		%s%s seen ontion++?	DEBUG
PPPOL2TP %s: _fmt,	DEBUG	%s, seen_option ? > :	DEBUG

PPPOL2TP:> %s,FUNCTION)	DEBUG	%s: %s, dev->name, buf	DEBUG
	DEDUIO	%s: no memory for sysctl table!,	
	DEBUG	tunc	DEBUG
%s: recy: tuppel->name		func	DEBUG
	DEBUG	%s: failed to register syscels! yan-	DEBOG
%s: xmit:. session->name	DEBUG	>iv dev->name	DEBUG
		%s: no memory for new proc entry	
%s: xmit:, session->name	DEBUG	(%s)!,func,	DEBUG
%s: module use count is %d.			
FUNCTION, mod_use_count	DEBUG	%s: 0x%p len %u, tag, p, len	DEBUG
PPPOL2TP %s: _fmt,	DEBUG	%03d:, i	DEBUG
PPPOL2TP:> %s. FUNCTION)	DEBUG	%02x. ((u_int8_t *)p)[i]	DEBUG
PPPOL2TP: < %s FUNCTION)	DEBUG	first difference at byte %u_i	DEBUG
% s: roov:tuppel > nome	DEBUG		DEBUG
	DEBUG	FAIL: ieee80211 crypto newkey	DEBOG
%s: xmit:, session->name	DEBUG	failed	DEBUG
%s: xmit: session->name		FAIL: jeee80211 crypto_setkey failed	
	DEBUG	EALL: upable to allocate skbuff	DEBUG
	DEDUG		DEBUG
PPPOL2TP:> %s,FUNCTION)	DEBUG	FAIL: wep decap falled	DEBUG
PPPOL2TP: < %s,FUNCTION)	DEBUG	FAIL: decap botch; length mismatch	DEBUG
% s: roov: tunnol > nomo		FAIL: decap botch; data does not	DEBUG
	DEBUG		DEBUG
%S: xmit:, session->name	DEBUG		DEBUG
%s: xmit:, session->name	DEBUG	FAIL: encap data length mismatch	DEBUG
IRQ 31 is triggered	DEBUG	FAIL: encrypt data does not compare	DEBUG
[%s:%d] ,func,LINE\	DEBUG	PASS	DEBUG
\t[R%s %#0x %#0x 0x%08x%08x],			
(status == ERROR ? # :), page, addr,			
$(uint32_t)(^pValue >> 32),$ $(uint32_t)(*p)(alue & 0xffffffff)$		%0 01 %0 802.111 WEP test vectors	DEBUG
\t[W%s %#0x %#0x 0x%08x%08x]	DEDUG		DEBOO
(status == ERROR ? # :), page, addr,			
(uint32_t)(value >> 32),			
(uint32_t)(value & 0xfffffff)	DEBUG	%s: 0x%p len %u, tag, p, len	DEBUG
%s: mac_add			
%02X:%02X:%02X:%02X:%02X:%02X			
addr[3] addr[4] addr[5]	DEBUG	%03d i	DEBUG
%s: mac_del	DEDOO	70000.,1	DEBGG
%02X:%02X:%02X:%02X:%02X:%02X			
, dev->name, addr[0], addr[1], addr[2],			
addr[3], addr[4], addr[5]	DEBUG	%02x, ((u_int8_t *)p)[i]	DEBUG
$\%02\Lambda.\%02\Lambda.\%02\Lambda.\%02\Lambda.\%02\Lambda.\%02\Lambda$			
addr[3], addr[4], addr[5]	DEBUG	first difference at byte %u, i	DEBUG
%s: mac_undefined			
%02X:%02X:%02X:%02X:%02X:%02X			
, dev->name, addr[0], addr[1], addr[2],			
addr[3], addr[4], addr[5]	DEBUG	%s:,t->name	DEBUG
%S: a00[_a00 %D2X.%D2X.%D2X.%D2X.%D2X.%D2X.%D2X.%D2X.			
. dev->name, addr[0], addr[1], addr[2]		FAIL: jeee80211 crypto newkey	
addr[3], addr[4], addr[5]	DEBUG	failed	DEBUG

%s: addr_del			
%02X:%02X:%02X:%02X:%02X			
, dev->name, addr[0], addr[1], addr[2],		EAU : icoc 80211 crypto sotkov foiled	
%s: mac_undefined	DEBUG		DEBUG
%02X:%02X:%02X:%02X:%02X:%02X			
, dev->name, addr[0], addr[1], addr[2],			
addr[3], addr[4], addr[5]	DEBUG	FAIL: unable to allocate skbuff	DEBUG
%s: set_float %d;%d,	DEBUG	FAIL: ccmp encap failed	DEBUG
IRQ 32 is triggered	DEBUG	FAIL: encap data length mismatch	DEBUG
ip_finish_output2: No header cache		EALL : operivat data doos not compare	DEBUG
a guy asks for address mask. Who is	DLD00		DEBOG
it?	DEBUG	FAIL: ccmp decap failed	DEBUG
icmp v4 hw csum failure)	DEBUG	FAIL: decap botch; length mismatch	DEBUG
· · ·		FAIL: decap botch; data does not	
expire>> %u %d %d %d, expire,	DEBUG	compare	DEBUG
expire++ %u %d %d %d, expire,	DEBUG	PASS	DEBUG
rt_cache @%02x: %u.%u.%u.%u,		%u of %u 802.11i AES-CCMP test	
hash,	DEBUG	vectors passed, pass, total	DEBUG
NET CALLER(inh)	DEBUG	%s:0x%plen%u tag plen	DEBUG
in rt advice: redirect to	DEBUG	%03d: i	DEBUG
ip_rt_ddvice. redirect to	DEDUG	70000.,1	DEDOC
%u.%u.%u.%u, %s,	DEBUG	%02x, ((u_int8_t *)p)[i]	DEBUG
udp cork app bug 2)	DEBUG	first difference at byte %u, i	DEBUG
udp cork app bug 3)	DEBUG	ieee80211_crypto_newkey failed	DEBUG
udp v4 hw csum failure.)	DEBUG	ieee80211_crypto_setkey failed	DEBUG
UDP: short packet: From			
%u.%u.%u.%u:%u %d/%d to		unable to allegate skhuff	DEBUG
UDP: bad checksum From	DEBUG		DEBOG
%d.%d.%d.%d:%d to			
%d.%d.%d.%d:%d ulen %d,	DEBUG	tkip enmic failed	DEBUG
%s: lookup policy [list] found=%s,	DEBUG	enmic botch; length mismatch	DEBUG
%s: called: [output START],		annia hatab	DEDUC
	DEBUG		DEBUG
S: flow dst=%s,FUNCTION,		tkin encan failed	DEBUG
	DEBUG		DEBOG
XERMSTRADDR(fl->fl4_src_family)	DEBUG	encrypt phase1 botch	DEBUG
% flow dst_% ELINCTION	DEBOO		DEDOC
XFRMSTRADDR(fl->fl6 dst, family)	DEBUG	encrypt data length mismatch	DEBUG
%s: flow src=%s FUNCTION			
XFRMSTRADDR(fl->fl6_src, family)	DEBUG	encrypt data does not compare	DEBUG
a guy asks for address mask. Who is			
it?	DEBUG	tkip decap failed	DEBUG
icmp v4 hw csum failure)	DEBUG	decrypt phase1 botch	DEBUG
expire>> %u %d %d %d, expire,	DEBUG	decrypt data does not compare	DEBUG
expire++ %u %d %d %d, expire,	DEBUG	decap botch; length mismatch	DEBUG
rt_cache @%02x: %u.%u.%u.%u, hash,	DEBUG	decap botch; data does not compare	DEBUG
rt_bind_peer(0) @%p,		duin domin foiled	
I NET_CALLEK(IPN)	DEROG	tkip demic tailed	DEROG

ip_rt_advice: redirect to	DEBUG	802.11i TKIP test vectors passed	DEBUG
ip_rt_bug: %u.%u.%u.%u ->	DEBLIG	%s buf	DEBUG
LIDP: short packet: From	DEBOO		DEBOO
%u.%u.%u.%u.%u %d/%d to		Atheros HAL assertion failure: %s:	
%u.%u.%u.%u.	DEBUG	line %u: %s.	DEBUG
UDP: bad checksum. From			
%d.%d.%d.%d:%d to		ath_hal: logging to %s %s,	
%d.%d.%d.%d:%d ulen %d,	DEBUG	ath_hal_logfile,	DEBUG
a guy asks for address mask. Who is it?	DEBUG	ath_hal: logging disabled	DEBUG
fib add ifaddr: bug: prim == NULL	DEBUG	%s%s, sep, ath hal buildopts[i]	DEBUG
		ath pci: No devices found, driver not	
fib_del_ifaddr: bug: prim == NULL	DEBUG	installed.	DEBUG
expire>> %u %d %d %d, expire.	DEBUG	fmt. VA ARGS	DEBUG
	01000	%s: Warning, using only %u entries in	02000
expire++ %u %d %d %d, expire.	DEBUG	%u kev cache.	DEBUG
rt_cache @%02x: %u.%u.%u.%u.		%s: TX99 support enabled, dev-	
hash,	DEBUG	>name	DEBUG
		%s:grppoll Buf allocation failed	
rt_bind_peer(0) @%p,	DEBUG	,func	DEBUG
ip rt advice: redirect to	DEBUG	%s: %s: unable to start recy logic.	DEBUG
ip rt bug: %u.%u.%u.%u ->		, , , , , , , , , , , , , , , , , , ,	
%u.%u.%u.%u, %s,	DEBUG	%s: %s: unable to start recv logic,	DEBUG
%s: lookup policy [list] found=%s	DEBUG	%s: no skbuff func	DEBUG
%s: called: [output START].		%s: hardware error: resetting, dev-	
FUNCTION	DEBUG	>name	DEBUG
%s: flow dst=%s FUNCTION		%s: rx FIFO overrup: resetting dev-	
XFRMSTRADDR(fl->fl4_dst, family)	DEBUG	>name	DEBUG
% s: flow src=% s ELINCTION		% s: upable to reset bardware: '% s'	
XFRMSTRADDR(fl->fl4_src_family)	DEBUG	(HAL status %u)	DEBUG
	01000		02000
%S: 110W dSt=%S,FUNCTION,		%S: unable to start recv logic, dev-	
	DEBOG		DEBOG
%s: flow src=%s,FUNCTION,		%s: %s: unable to reset hardware:	555110
XFRMSTRADDR(fl->fl6_src, family)	DEBUG	S' (HAL status %u),	DEBUG
a guy asks for address mask. Who is		9(a) 9(a) unable to start reavised	
	DEBUG		DEBUG
icmp v4 hw csum failure)	DEBUG	ath_mgtstart: discard, no xmit but	DEBUG
$av_{\text{pires}} = \frac{9}{4} + \frac{9}{4} $		%S: [%U2U] %-7S , tag, IX, cipners[nk-	
	DEBUG		DEBUG
expire++ %u %d %d %d, expire,	DEBUG	%02x, hk->kv_val[i]	DEBUG
rt_cache @%02x: %u.%u.%u.%u,		$max \theta(a, ather, aprintf(max))$	
rt bind poor(0) @%p	DEBUG	mac %s, ether_sphnu(mac)	DEBUG
NET CALLER(inh)	DEBUG	%s sc->sc splitmic 2 mic : rymic	
in at advice addition to	DEBUG		DEBUG
	DEBUG	%UZX, NK->KV_MIC[I]	DEBUG
1p_11_bug. %u.%u.%u.%u ->	DEBUG	tymic	
IIDP: short nacket: From	DLDUG		DEDUG
%u.%u.%u.%u:%u.	DEBUG	%02x, hk->ky txmic[i]	DEBUG
UDP: bad checksum. From		·····	
%d.%d.%d.%d:%d to		%s: unable to update h/w beacon	
%d.%d.%d.%d:%d ulen %d,	DEBUG	queue parameters,	DEBUG
REJECT: ECHOREPLY no longer		%s: stuck beacon; resetting (bmiss	
supported.	DEBUG	count %u),	DEBUG

ipt_rpc: only valid for PRE_ROUTING, FORWARD, POST_ROUTING, LOCAL_IN and/or LOCAL_OUT			
targets.	DEBUG	move data from NORMAL to XR	DEBUG
ip_nat_init: can't setup rules.	DEBUG	XR, index	DEBUG
ip_nat_init: can't register in hook.	DEBUG	move buffers from XR to NORMAL	DEBUG
-		moved %d buffers from XR to	
ip_nat_init: can't register out hook.	DEBUG	NORMAL, count	DEBUG
ip_nat_init: can't register adjust in hook.	DEBUG	%s:%d %s,FILE,LINE, func	DEBUG
ip_nat_init: can't register adjust out hook.	DEBUG	%s:%d %s,FILE,LINE, func	DEBUG
ip_nat_init: can't register local out		%s: no buffer (%s), dev->name,	
hook.	DEBUG	func	DEBUG
in nat init: can't register local in book	DEBUG	%s: no skbuff (%s), dev->name,	DEBUG
	52500	%s: HAL anum %u out of range, max	02000
ipt_hook: happy cracking.	DEBUG	%u!,	DEBUG
ip_conntrack: can't register pre-routing defrag hook.	DEBUG	grppoll_start: grppoll Buf allocation failed	DEBUG
ip_conntrack: can't register local_out		%s: HAL gnum %u out of range, max	
defrag hook.	DEBUG	%u!,	DEBUG
ip_conntrack: can't register pre-routing	DEBUG	%s: AC %u out of range max %ul	DEBUG
ip conntrack: can't register local out	02000		02000
hook.	DEBUG	%s: unable to update hardware queue	DEBUG
ip_conntrack: can't register local in		%s: bogus frame type 0x%x (%s),	
helper hook.	DEBUG	dev->name,	DEBUG
ip_conntrack: can't register postrouting helper hook.	DEBUG	ath_stoprecv: rx queue 0x%x, link %p,	DEBUG
ip_conntrack: can't register post-		%s: %s: unable to reset channel %u	
routing hook.	DEBUG	(%u MHz)	DEBUG
ip_conntrack: can't register local in	DEDUIO		DEDUO
поок.	DEBUG	%: %: unable to restart recv logic,	DEBUG
in constrack: can't register to syscel	DEBUG		DEBUG
ip_conntrack. can't register to system.	DEDOG	%s: unable to allocate channel table	DEBOO
IP NF RTSP VERSION loading	DEBUG	dev->name	DEBUG
ip_conntrack_rtsp: max_outstanding		%s: unable to collect channel list from	
must be a positive integer	DEBUG	HAL;	DEBUG
ip_conntrack_rtsp: setup_timeout must be a positive integer	DEBUG	R (%p %llx) %08x %08x %08x %08x %08x %08x %c,	DEBUG
in conntrack rtsp: ERROR registering		T (%p %llx) %08x %08x %08x %08x	
port %d. ports[i]	DEBUG	%08x %08x %08x %08x %c.	DEBUG
ip_nat_rtsp v IP_NF_RTSP_VERSION		%s: no memory for sysctl table!,	
loading	DEBUG	func	DEBUG
%s: Sorry! Cannot find this match		%s: no memory for device name	
option.,FILE	DEBUG	storage!,func	DEBUG
int time to add a	DEDUO	%s: failed to register sysctls!, sc-	DEDUO
ipt_time loading	DEROG	>SC_GeV->NAMe	DEBUG
int time unloaded		5. mac %u.%u pny %u.%u, dev-	
ip conntrack ire max dec channels		5 GHz radio %d %d 2 GHz radio	DEDOG
must be a positive integer	DEBUG	%d.%d,	DEBUG
port %d.	DEBUG	radio %d.%d, ah- >ah_analog5GhzRev >> 4	DEBUG

in not h222:	1	radio % d % d ab	1
ip_nat_nszs.	DEBUG	adio 3di 3di an-ah analog5GhzRev >> 4	DEBUG
ip_nat_h323:	02000		02000
ip_nat_mangle_udp_packet	DEBUG	%s: Use hw queue %u for %s traffic,	DEBUG
		%s: Use hw queue %u for CAB traffic,	
ip_nat_h323: out of expectations	DEBUG	dev->name,	DEBUG
		%s: Use hw queue %u for beacons,	
ip_nat_h323: out of RTP ports	DEBUG	dev->name,	DEBUG
in not h222, out of TCD north		Could not find Board Configuration	
Ip_nat_n323. Out of TCP ports	DEBUG	Could not find Padio Configuration	DEBUG
in nat a931 out of TCP ports	DEBUG	data	DEBUG
	102000	ath ahb: No devices found, driver not	02000
ip_nat_ras: out of TCP ports	DEBUG	installed.	DEBUG
ip nat g931; out of TCP ports	DEBUG	fmt. VA ARGS	DEBUG
in conntrack core. Frag of proto %u	DEBUG	fmt VA ARGS	DEBUG
	02000	xlr8NatlpFinishOutput: Err., skb2 ==	02000
Broadcast packet!	DEBUG	NULL !	DEBUG
Should bcast: %u,%u,%u,%u-		xlr8NatSoftCtxEngueue: Calling	
>%u.%u.%u.%u (sk=%p, ptype=%u),	DEBUG	xlr8NatlpFinishOutput () status	DEBUG
		xlr8NatSoftCtxEnqueue:	
ip_conntrack version %s (%u buckets,		xlr8NatIpFinishOutput () returned	
%d max)	DEBUG	[%d], status	DEBUG
ERROR registering port %d,	DEBUG	icmpExceptionHandler: Exception!	DEBUG
netfilter PSD loaded - (c) astaro AG	DEBUG	fragExceptionHandler: Exception!	DEBUG
netfilter PSD unloaded - (c) astaro AG	DEBUG	algExceptionHandler: Exception!	DEBUG
%s , SELF	DEBUG	dnsExceptionHandler: Exception!	DEBUG
%s , LAN	DEBUG	IPsecExceptionHandler: Exception!	DEBUG
· · · · ·		ESP Packet Src:%x Dest:%x	
		Sport:%d dport:%d secure:%d spi:%d	
%s , WAN	DEBUG	isr:%p,	DEBUG
		xIr8NatConntrackPreHook: We found	
TRUNCATED	DEBUG	the valid context,	DEBUG
SRC=%u.%u.%u	555110	xlr8NatConntrackPreHook: Not a	
DS1=%u.%u.%u.%u,	DEBUG	secured packet.	DEBUG
	DEBUG	xirðinatConntrackPreHook: ISr=[%p],	DEBUG
FRAG:%u ntohs(ih->frag.off) &	DEBUG	xlr8NatConntrackPreHook	DEBOG
IP OFFSET	DEBUG	secure=[%d]. secure	DEBUG
		Context found for ESP	
TRUNCATED	DEBUG	%p,pFlowEntry->post.plsr[0]	DEBUG
		xlr8NatConntrackPreHook: New	
PROTO=TCP	DEBUG	connection.	DEBUG
		xIr8NatConntrackPostHook:	
INCOMPLETE [%u bytes],	DEBUG	postSecure=[%d] postIsr=[%p %p],	DEBUG
		proto %d spi %d <> proto %d spi	
SPT=%u DPT=%u ,	DEBUG	%d,pPktInfo->proto,pPktInfo->spi,	DEBUG
SEQ=%u ACK=%u ,	DEBUG	IPSEC_INF Clock skew detected	DEBUG
		IPSEC_ERR [%s:%d]: Max (%d) No	
WINDOW=%u , ntohs(th->window)	DEBUG	of SA Limit reached,	DEBUG
RES=0x%02x ,			
(u8)(ntohl(tcp_flag_word(th) &	DEDUC	IPSEC_ERR [%s:%d]: Max (%d) No	DEDUG
ICP_RESERVED_BITS) >> 22)	DEBUG	of SA Limit reached,	DEBUG
I URGP=%u . ntohs(th->ura_ptr)	I DEBUG	I IPSEC ERR [%s:%d]: time(secs): %u	IDEBUG

	1	ERROR: Failed to add entry to IPsec	1
TRUNCATED	DEBUG	sa table	DEBUG
		ERROR: Failed to add entry to IPsec	
%02X, op[i]	DEBUG	sa table	DEBUG
	DEDUO	ERROR: Failed to add entry to IPsec	DEDUO
PROTO=UDP	DEBUG	Sa table	DEBUG
INCOMPLETE [%u bytes]	DEBUG	sa table	DEBUG
	02000	ERROR: Failed to add entry to IPsec	02000
SPT=%u DPT=%u LEN=%u ,	DEBUG	sa table	DEBUG
		ERROR: Failed to add entry to IPsec	
SPT=%u DPT=%u LEN=%u ,	DEBUG	sa table	DEBUG
PROTO=ICMP	DEBUG	unknown oid '%s', varName	DEBUG
		could not find oid pointer for '%s',	DEDUC
TYPE-%u CODE-%u ich-stype ich-	DEBUG	varivame	DEBUG
>code	DEBUG	unRegistering IPsecMib	DEBUG
		ERROR: Failed to add entry to IPsec	
INCOMPLETE [%u bytes],	DEBUG	sa table	DEBUG
		ERROR: Failed to add entry to IPsec	
ID=%u SEQ=%u ,	DEBUG	sa table	DEBUG
		ERROR: Failed to add entry to IPsec	
PARAMETER=%u,	DEBUG	ERROP: Eailed to add entry to IPsec	DEBUG
GATEWAY=%u,%u,%u,%u	DEBUG	sa table	DEBUG
		ERROR: Failed to add entry to IPsec	
MTU=%u , ntohs(ich->un.frag.mtu)	DEBUG	sa table	DEBUG
		ERROR: Failed to add entry to IPsec	
PROTO=AH	DEBUG	sa table	DEBUG
INCOMPLETE [%u bytes] ,	DEBUG	unknown oid '%s', varName	DEBUG
$SDI_0 (y_1) = (y_2) (y_1) = (y_1) (y_2) (y_1) (y_2) (y_1) (y_2) (y_1) (y_2) (y_1) (y_2) (y_1) (y_2) (y_1) (y_2) (y_1) (y_2) (y_1) (y_2) (y_1) (y_2) (y_1) (y_2) (y_1) (y_2) (y_1) (y_1) (y_2) (y_1) $		could not find oid pointer for '%s',	
	DEBUG		DEBUG
PROTO=ESP	DEBUG		DEBUG
INCOMPLETE [%u bytes].	DEBUG	>rt dst)	DEBUG
SPI=0x%x ntohl(eh->spi)	DEBUG	%02x *n	
	DEDOO	. %u.%u.%u.%u, NIPQUAD(trt-	DEBGG
PROTO=%u , ih->protocol	DEBUG	>rt_dst)	DEBUG
UID=%u, skb->sk->sk_socket->file-			
>f_uid	DEBUG	%02x, *p	DEBUG
<%d>%sIN=%s OUT=%s, loginfo-	DEDUC	. %u.%u.%u.%u, NIPQUAD(trt-	
	DEDUG		DEBUG
level_string	DEBUG	%02X, "p %11%11%11%11 NIPOLIAD(trt-	DEBUG
%sIN=%s OUT=%s	DEBUG	>rt dst)	DEBUG
%s, prefix == NULL ? loginfo->prefix :			
prefix	DEBUG	%02x, *p	DEBUG
		unable to register vIPsec kernel comp	
IN=	DEBUG	to UMI	DEBUG
OUT=	DEBUG	unregistering VIPSECK from UMI	DEBUG
PHYSIN=%s , physindev->name	DEBUG	in vIPsecKloctlHandler cmd - %d, cmd	DEBUG
	DEDUC	%s: Error. DST Refcount value less	DEDUC
PHYSOUT=%s, physoutdev->name	DEBUG	than 1 (%d),	DEBUG
MAC-		JUI %S DEVICE referent: %d ,pDSt-	
	52000	0/0.0 Cot Null m: $0/0.2$ m: $0/0.2$	
%02x%c *p	DEBUG	//////////////////////////////////////	DEBUG
,, p,		,ppBailing,	22200

		%s Got Deleted SA:%p	
NAT: no longer support implicit source		state:%d,func,pIPsecInfo,pIPsecI	
	DEBUG	nfo->state	DEBUG
NAT: packet src %u.%u.%u.%u -> dst	DEBUG	S: %S: fmt,FILE,	INFO
SNAT: multiple ranges no longer	DEBOO	%s: %s: fmt. FILE .	
supported	DEBUG		INFO
format,##args)	DEBUG	ipt_TIME: format, ## args)	INFO
		IPT_ACCOUNT_NAME : checkentry()	
	DEDUO	wrong parameters (not equals existing	
Version	DEBUG	table parameters).	INFO
correction pos=%u, x->offset before.		IPT_ACCOUNT_NAME : checkentry()	
x->offset_after, x->correction_pos	DEBUG	too big netmask.	INFO
		IPT_ACCOUNT_NAME : checkentry()	
		failed to allocate %zu for new table	
in at h323.		%S., SIZEOT(STRUCT	
ip_ct_1323.	DLD00		
Ip_ct_n323: Incomplete TPKT (fragmented?)	DEBUG	IPT_ACCOUNT_NAME : Checkentry()	INFO
	DEBOO	account: Wrong netmask given by	
		netmask parameter (%i). Valid is 32 to	
ip_ct_h245: decoding error: %s,	DEBUG	0., netmask	INFO
		IPT_ACCOUNT_NAME : checkentry()	
ip_ct_h245: packet dropped	DEBUG	failed to create procfs entry.	INFO
		IPT_ACCOUNT_NAME : checkentry()	
_ip_ct_q931: decoding error: %s,	DEBUG	failed to register match.	INFO
ip_ct_q931: packet dropped	DEBUG	failed to create procfs entry.	INFO
		MPPE/MPPC encryption/compression	
ip_ct_ras: decoding error: %s,	DEBUG	module registered	INFO
		MPPE/MPPC encryption/compression	
ip_ct_ras: packet dropped	DEBUG	module unregistered	INFO
FRROR registering port %d	DEBUG	PPP generic driver version	INFO
	DEBOO		
ERROR registering port %d	DEBUG	module registered	INFO
ipt_connlimit [%d]:	02000		
src=%u.%u.%u.%u:%d		MPPE/MPPC encryption/compression	
dst=%u.%u.%u.%u:%d %s,	DEBUG	module unregistered	INFO
ipt_connlimit [%d]:		DDD generie driver version	
src=%u.%u.%u.%u.%d dst=%u %u %u %u.%d new	DEBUG	PPP generic driver version	INFO
int connlimit: Oons: invalid ct state ?	DEBUG	PPPol 2TP kernel driver %s	INFO
int connlimit: Hmm kmalloc failed :-(DEBUG	PPPol 2TP kernel driver %s	
ipt_connlimit: src=%u.%u.%u.%u	DEBOO		
mask=%u.%u.%u.%u	DEBUG	PPPoL2TP kernel driver, %s,	INFO
_lvl PPPOL2TP: _fmt, ##args	DEBUG	failed to create procfs entry.	INFO
%02X, ptr[length]	DEBUG	proc dir not created	INFO
%02X, ((unsigned char *) m-			
>msg_iov[i].iov_base)[j]	DEBUG	Initialzing Product Data modules	INFO
%02X, skb->data[i]	DEBUG	De initializing by \	INFO
_lvl PPPOL2TP: _fmt, ##args	DEBUG	kernel UMI module loaded	INFO
%02X, ptr[length]	DEBUG	kernel UMI module unloaded	INFO
%02X, ((unsigned char *) m-			
>msg_iov[i].iov_base)[j]	DEBUG	Loading bridge module	INFO

%02X, skb->data[i]	DEBUG	Unloading bridge module	INFO
_lvl PPPOL2TP: _fmt, ##args	DEBUG	unsupported command %d, cmd	INFO
%02X, ptr[length]	DEBUG	Loading ifDev module	INFO
%02X, ((unsigned char *) m-			
>msg_iov[i].iov_base)[j]	DEBUG	Unloading ifDev module	INFO
%02X_skb->data[i]	DEBUG	result	INFO
KERN EMERG THE value read is	DLDOO		
%d,value*/	DEBUG	ERROR#%d in cdev_add, result	INFO
KERN_EMERG Factory Reset button	DED 110		
is pressed	DEBUG	using bcm switch %s, bcmswitch	INFO
KERN_EMERG Returing error in INTR		privlegedID %d wanporttNo: %d,	
KERN EMERG Initialzing Eactory	DEBUG	philegeold,wanportivo	INFO
defaults modules	DEBUG	Loading mii	INFO
Failed to allocate memory for			
pSipListNode	DEBUG	Unloading mii	INFO
SIPALG: Memeory allocation failed for		Var Varian 0.1	
		%s. version 0.1	
pkt-err %S, pktinio.error	DEBUG	%S: driver unloaded, dev_inio	INFO
pkt-err %s, pktInfo.error	DEBUG	>iab name	INFO
pkt-err %s, pktInfo.error	DEBUG	wlan: %s backend unregistered.	INFO
		wlan: %s acl policy registered, iac-	
%s Len=%d, msg, len	DEBUG	>iac_name	INFO
$0(00)$, $((1))$ at $0, \pm 1$ at 1		wlan: %s acl policy unregistered, iac-	
%02x , ((uint8_t *) ptr)[i]	DEBUG	>lac_name	
	DEBUG	%s, tmpbut	INFO
cmd=%x base=%x. cmd.	DEBUG	VLAN2	INFO
op->sizeofptr = %ld. op->sizeofptr	DEBUG	VLAN3	INFO
opcode cmd = %x. cmd	DEBUG	VLAN4 <%d %d>.	INFO
modexp opcode received	DEBUG	%s: %s. dev info, version	INFO
Memory Allocation failed	DEBUG	%s: driver unloaded, dev info	INFO
modexpcrt opcode received	DEBUG	%s, buf	INFO
kmalloc failed	DEBUG	%s: %s (dev info ath hal version	INFO
kmalloc failed		%s: driver unloaded dev info	INFO
	02000	%s: %s: mem=0x%lx, irg=%d	
kmalloc failed	DEBUG	hw_base=0x%p,	INFO
kmalloc failed	DEBUG	%s: %s, dev_info, version	INFO
kmalloc Failed	DEBUG	%s: driver unloaded, dev_info	INFO
kmalloc failed	DEBUG	%s: %s: mem=0x%lx, irq=%d,	INFO
unknown cyrpto ioctl cmd received %x,			
cmd	DEBUG	%s: %s: mem=0x%lx, irq=%d,	INFO
register_chrdev returned ZERO	DEBUG	%s: %s, dev_info, version	INFO
const char *descr, krb5_keyblock *k) {	DEBUG	%s: driver unloaded, dev_info	INFO
F password, &pdata	DEBUG	%s, buf	INFO
test key, key	DEBUG	%s: %s (, dev_info, ath_hal_version	INFO
pre-hashed key, key	DEBUG	%s: driver unloaded, dev_info	INFO
const char *descr, krb5_keyblock *k) {	DEBUG	%s: driver unloaded, dev_info	INFO
AES 128-bit key, &key	DEBUG	%s: Version 2.0.0	INFO
const char *descr, krb5_keyblock *k) {	DEBUG	%s: driver unloaded, dev_info	INFO
test key, key	DEBUG	%s: driver unloaded, dev_info	INFO
--	-------	---	------
and backed loss loss		wlan: %s backend registered, be-	
pre-nasned key, key	DEBUG	>lab_name	
	DEBUG	wan: %s backend unregistered, wlan: %s acl policy registered, jac-	
128-bit AES key,&dk	DEBUG	>iac_name	INFO
		wlan: %s acl policy unregistered, iac-	
256-bit AES key, &dk	DEBUG	>iac_name	INFO
WARNING: bwMonMultinathNytHonSelect::	DEBUG	%s: %s, dev_info, version	INFO
checking rates	DEBUG	%s: driver unloaded, dev_info	INFO
hop :%d dev:%s usableBwLimit = %d			Î
currBwShare = %d lastHopSelected =			
%d weightedHopPrefer = %d ,	DEBUG	%s: %s (, dev_info, ath_hal_version	INFO
1. selecting hop: %d lastHopSelected =	DEDUG		
%d , selHop, lastHopSelected	DEBUG	%s: driver unloaded, dev_info	INFO
4. nop :%d dev:%s usableBwLimit = %d currBwSbare = %d			
lastHopSelected = %d			
weightedHopPrefer = %d ,	DEBUG	%s: %s: mem=0x%lx, irq=%d,	INFO
2. selecting hop: %d lastHopSelected =			
%d , selHop, lastHopSelected	DEBUG	%s: %s, dev_info, version	INFO
3. selecting hop: %d lastHopSelected =			
%d , selHop, lastHopSelected	DEBUG	%s: driver unloaded, dev_info	INFO
bwMonitor multipath selection enabled	DEBUG	ath_pci: switching rfkill capability %s,	INFO
bwMonitor multipath selection disabled	DEBUG	Unknown autocreate mode: %s,	INFO
weightedHopPrefer set to %d			Ĩ
,weightedHopPrefer	DEBUG	%s: %s: mem=0x%lx, irq=%d,	INFO
bwMonitor sysctl registration failed	DEBUG	%s: %s, dev_info, version	INFO
bwMonitor sysctl registered	DEBUG	%s: driver unloaded, dev_info	INFO
bwMonitor sysctl not registered	DEBUG	%s: %s, dev_info, version	INFO
Unregistered bwMonitor sysctl	DEBUG	%s: unloaded, dev_info	INFO
CONFIG_SYSCTL enabled	DEBUG	%s: %s, dev_info, version	INFO
Initialized bandwidth monitor	DEBUG	%s: unloaded, dev_info	INFO
Removed bandwidth monitor	DEBUG	%s: %s, dev_info, version	INFO
Oops AES_GCM_encrypt failed			I
(keylen:%u),key->cvm_keylen	DEBUG	%s: unloaded, dev_info	INFO
(keylen:%u) key->cym_keylen	DEBUG	failed to create procfs entry	INFO
%s msg			
%0,7%s, data[i]			
7002x703, uata[i],	DEBUG	Wrong address mask %u.%u.%u.%u	
Failed to set AES encrypt key	DEBUG	from	INFO
		Redirect from %u.%u.%u.%u on %s	
Failed to set AES encrypt key	DEBUG	about	INFO
AES %s Encrypt Test Duration:		IP: routing cache hash table of %u	
%d:%d, hard ? Hard : Soft,	DEBUG	buckets, %ldKbytes,	INFO
Failed to set AFS encrypt key		source route option %u.%u.%u.%u ->	
Failed to set AES encrypt key			
AFS %s Decrypt Test Duration:	DEBUG	IGIVIE. 700.700.700.700.	
%d:%d, hard ? Hard : Soft,	DEBUG	ICMP: %u.%u.%u.%u: Source	INFO
		Wrong address mask %u.%u.%u.%u	
Failed to set AES encrypt key	DEBUG	from	INFO

Failed to set AFS encrypt key	DEBLIG	Redirect from %u.%u.%u.%u on %s	INFO
	DEBOG	IP: routing cache hash table of %u	
Failed to set AES encrypt key	DEBUG	buckets, %IdKbytes,	INFO
Failed to set AES encrypt key	DEBUG	%u.%u.%u.%u,	INFO
Failed to set DES encrypt key[%d], i	DEBUG	from	INFO
Failed to set DES decrypt kev[%d]. i	DEBUG	about	INFO
Failed to set DES encrypt key[%d], i	DEBUG	source route option	INFO
Failed to set DES decrypt key[%d], i	DEBUG	ICMP: %u.%u.%u.%u:	INFO
Failed to set DES encrypt key	DEBUG	ICMP: %u.%u.%u.%u: Source	INFO
Failed to set DES decrypt key	DEBUG	Wrong address mask %u.%u.%u.%u from	INFO
Failed to set DES encrypt key	DEBUG	Redirect from %u.%u.%u.%u on %s about	INFO
Failed to set DES decrypt key	DEBUG	IP: routing cache hash table of %u buckets, %ldKbytes,	INFO
AES Software Test:	DEBUG	source route option %u.%u.%u.%u -> %u.%u.%u.%u,	INFO
AES Software Test %s, aesSoftTest(0)		IPsec: device unregistering: %s, dev-	
? Failed : Passed	DEBUG	>name	INFO
AES Hardware Test:	DEBUG	IPsec: device down: %s, dev->name	
aesHardTest(0) ? Failed : Passed	DEBUG	mark: only supports 32bit mark	G
3DES Software Test	DEBUG	int time: invalid argument	WARNIN
3DES Software Test %s,	DEBOO		WARNIN
des3SoftTest(0) ? Failed : Passed	DEBUG	ipt_time: IPT_DAY didn't matched	G
3DES Hardware Test:	DEBUG	./Logs_kernel.txt:45:KERN_WARNIN G	WARNIN G
3DES Hardware Test %s,	DEDUO	./Logs_kernel.txt:59:KERN_WARNIN	WARNIN
des3HardTest(0) ? Falled : Passed	DEBUG	int LOG: not logging via system	G
DES Software Test:	DEBUG	console	G
DES Software Test %s, desSoftTest(0) 2 Failed : Passed	DEBUG	%s: wrong options length: %u, fname,	WARNIN
	DEDOC	%s: options rejected: o[0]=%02x,	WARNIN
DES Hardware Test:	DEBUG	o[1]=%02x,	G
DES Hardware Test %s, desHardTest(0) 2 Failed : Passed	DEBUG	%s: wrong ontions length: %u	WARNIN
	DEBOO	%: options rejected: o[0]=%02x,	WARNIN
SHA Software Test:	DEBUG	o[1]=%02x,	G
SHA Software Test %s, shaSoftTest(0)		%s: don't know what to do:	WARNIN
? Falled . Passed	DEBUG	%s: wrong options length: %u, fname.	WARNIN
SHA Hardware Test:	DEBUG	opt_len	G
SHA Hardware Test %s,		%s: options rejected: o[0]=%02x,	WARNIN
	DEROG	U[1]=%0U∠X,	G WARNIN
MD5 Software Test:	DEBUG	%s: wrong options length: %u,	G
MD5 Software Test %s,	DEDUIO	%s: options rejected: o[0]=%02x,	WARNIN
ma5SoftTest(0) ? Failed : Passed	DEBUG	0[1]=%02X, %s: don't know what to do:	G
MD5 Hardware Test:	DEBUG	o[5]=%02x,	G

MD5 Hardware Test %s, md5HardTest(0) 2 Failed · Passed	DEBUG	*** New port %d ***, ntohs(expinfo-	WARNIN
AES Software Test: %d iterations, iter	DEBUG	** skb len %d dlen %d (*nskb)->len	WARNIN
AES Software Test Duration: % d:% d	DEBUG	**************************************	WARNIN
AES Software Test Duration. %d. %d,	DEBUG		WARNIN
AES Hardware Test: %d iterations, iter	DEBUG	End of sdp %p, nexthdr	G WARNIN
AES Hardware Test Duration: %d:%d,	DEBUG	%s: unknown pairwise cipher %d,	G
3DES Software Test: %d iterations, iter	DEBUG	%s: unknown group cipher %d,	G
3DES Software Test Duration: %d:%d,	DEBUG	%s: unknown SIOCSIWAUTH flag %d,	G
3DES Hardware Test: %d iterations, iter	DEBUG	%s: unknown SIOCGIWAUTH flag %d.	WARNIN G
3DES Hardware Test Duration:	DEBUG	%s: unknown algorithm %d	WARNIN
	DEDUG		WARNIN
DES Software Test: %d iterations, iter	DEBUG	%s: key size %d is too large,	WARNIN
DES Software Test Duration: %d:%d,	DEBUG	try_module_get failed \	G WARNIN
DES Hardware Test: %d iterations, iter	DEBUG	%s: request_irq failed, dev->name	G
DES Hardware Test Duration: %d:%d,	DEBUG	try_module_get failed	G
SHA Software Test: %d iterations, iter	DEBUG	try_module_get failed \	WARNIN G
SHA Software Test Duration: %d:%d,	DEBUG	%s: unknown pairwise cipher %d,	WARNIN G
SHA Hardware Test: %d iterations, iter	DEBUG	%s: upknown group cipher %d	WARNIN
	DEDUC	%s: unknown SIOCSIWAUTH flag	WARNIN
SHA Hardware Test Duration: %d:%d,	DEBUG	%d, %s: unknown SIOCGIWAUTH flag	WARNIN
MD5 Software Test: %d iterations, iter	DEBUG	%d,	G WARNIN
MD5 Software Test Duration: %d:%d,	DEBUG	%s: unknown algorithm %d,	G
MD5 Hardware Test: %d iterations, iter	DEBUG	%s: key size %d is too large,	G
MD5 Hardware Test Duration: %d:%d,	DEBUG	unable to load %s, scan_modnames[mode]	G WARNIN
./pnac/src/pnac/linux/kernel/xcalibur.c:2		Failed to mkdir /prog/pat/madwifi	WARNIN
	DEBUG		WARNIN
bcmDeviceInit: registration failed	DEBUG	try_module_get failed	G WARNIN
bcmDeviceInit: pCdev Add failed	DEBUG	%s: request_irq failed, dev->name	G
REG Size == 8 Bit	DEBUG	%d), sc->sc_nvaps	G
value = %x ::: At Page = %x : Addr = %x	DEBUG	%s: request_irq failed, dev->name	G
REG Size == 16 Bit	DEBUG	rix %u (%u) bad ratekbps %u mode %u.	WARNIN G
Value = %x ::: At Page = %x : Addr =		cix %u (%u) bad ratekbps %u mode	WARNIN
			WARNIN
KEG SIZE == 32 Bit	DEBUG	%s: no rates for %s?,	G

Value = %x ::: At Page = %x : Addr =		no rates yet! mode %u, sc-	WARNIN
%x	DEBUG	>sc_curmode	G
			WARNIN
REG Size == 64 Bit	DEBUG	%u.%u.%u.%u sent an invalid ICMP	G
			WARNIN
REG Size is not in 8/16/32/64	DEBUG	dst cache overflow	G
Written Value = %x ::: At Page = %x :	DEDUO		WARNIN
Addr = %x	DEBUG	Neighbour table overflow.	G
			WARNIN
DCm_locti :Unknown locti Case :	DEBUG	nost %u.%u.%u.%u/li%d ignores	G
=======Register Dump for Port		martian destination %u.%u.%u.%u	WARNIN
Number # %d======,port	DEBUG	from	G
%s : Read Status=%s	DEDUO		WARNIN
data=%#x,regName[j],	DEBUG	martian source %u.%u.%u.%u from	G
%s : Read Status=%s		ll boodory	WARNIN
data=%#x,reginame[j],	DEBUG		
foiled	DEBUG	% u % u % u % u cont an involid ICMP	G
	DEBUG		
powerDeviceInit: adding device failed	DEBUG	det cache overflow	G
	DEBOG		- G
%s: Error: Big jump in pn number.	DEDUO		WARNIN
11D=%d, from %x %x to %x %x.	DEBUG	Neighbour table overflow.	G
%s: The MIC is corrupted. Drop this			WARNIN
	DEBUG	nost %u.%u.%u.%u/lf%d ignores	G
%s: The MIC is OK. Still use this frame		martian destination %u.%u.%u.%u	WARNIN
and update PN.,func	DEBUG	from	G
ADDBA send failed: recipient is not a			WARNIN
11n node	DEBUG	martian source %u.%u.%u.%u from	G
	DEDUG		WARNIN
Cannot Set Rate: %X, Value	DEBUG	li neader:	G
Getting Rate Series: %x,vap-		9(1) 9(1) 9(1) 9(1) cont on involid ICMD	WARNIN
Siv_lixed_fale.series	DEBUG		
Siv fixed rate retries	DEBUG	det cache overflow	G
	DEBOG		WARNIN
IC Name: %s ic->ic_dev->name	DEBUG	Neighbour table overflow	G
	DEDOC		
usage: rtparams rt_idx $<0/1>$ per		boot 0/ 0/ 0//if0/ dignores	WARNIN
<0100> probe_intvai <0100>	DEBUG	nost %u.%u.%u.%u/li%u ignores	G
usage: acparams ac <0 3> RTS <0 1>			WARNIN
aggr scaling <04> min mbps <0250>	DEBUG	martian source %u.%u.%u.%u from	G
usage: hbrparams ac <2> enable	DEDUG		WARNIN
	DEBUG	II header:	G
%s(): ADDBA mode is AUTO,		martian destination %u.%u.%u.%u	WARNIN
	DEBUG	ITOM	
%s(): Invalid TID value func	DEBUG	%u %u %u sent an invalid ICMP	G
%s(): ADDBA mode is ALITO	DEBOG		
func	DEBUG	dst cache overflow	G
	DEDOO		WARNIN
%s(): Invalid TID value, func	DEBUG	Neighbour table overflow.	G
			WARNIN
%s(): Invalid TID value,func	DEBUG	host %u.%u.%u.%u/if%d ignores	G
	1	martian destination %u.%u.%u.%u	WARNIN
Addba status IDLE	DEBUG	from	G
%s(): ADDBA mode is AUTO,			WARNIN
func	DEBUG	martian source %u.%u.%u.%u from	G

\$ks(): Invalid TID value,funcDEBUG II header: G Error in ADD- nonel capabilities on time and channel to mode: freq %s: cannot match, chan flags 0x%x, DEBUG Unable to create ip_set_hash ERROR %s: cannot map channel to mode: freq %s: qenc urrentCountry not initialized yet DEBUG Unable to register netfilter socket option ERROR Country is is%c%c%c, DEBUG Unable to register netfilter socket option ERROR %s: wrong state transition from %d to %d, %s: wrong state transition from %d to %d, DEBUG Unable to create ip_conntrack hash ERROR %s: wrong state transition from %d to %d, DEBUG Unable to create ip_set_iptreed slab ERROR %s: wrong state transition from %d to %d, DEBUG Cache %s: cannot allocate space for %s: wrong state transition from %d to %d, %s: cannot allocate space for MPPC ERROR %s, wap site transition from %d to %d, %s: cannot allocate space for MPPC ERROR ERROR %s, wap site transition from %d to %d, %s: cannot allocate space for MPPC ERROR ERROR %s, wap site transition from %d to %d, Ss: cannot allocate space for MPPC ERROR ERROR %s, wap site transition from %d to %d, Ss: cannot allocate sp				WARNIN
Error in ADD- no node available DEBUG Unable to create ip_set_list ERROR %s(): Channel capabilities do not match, chan flags 0x%x, DEBUG Unable to create ip_set_hash ERROR %s: cannot map channel to mode; freq yet DEBUG Unable to create ip_set_hash ERROR Country ie is %c%c%c, DEBUG Unable to create ip_set_hash ERROR Guntry ie is %c%c%c, DEBUG Unable to create ip_conntrack_hash ERROR %s: wrong state transition from %d to %d, DEBUG Unable to create ip_conntrack_hash ERROR %s. wrong state transition from %d to %d, DEBUG Unable to create ip_set_iptreed slab cache ERROR %s. wrong state transition from %d to %d, DEBUG Unable to create ip_set_iptreed slab ERROR %s. wrong state transition from %d to %d, DEBUG Ws: cannot allocate space for MPPC ERROR %s. wrong state transition from %d to %d, DEBUG %s: cannot lalocate space for MPPC ERROR %s. wrong state transition from %d to %d, Sis (%s) (%s, vap->iv_dev-name, ethers.printf(mac), buf DEBUG %s: cannot lalocate space for MPPC ERROR %s. %sif (%s) %s, vap->iv_dev-name, ethers.sprintf(mac), buf <td>%s(): Invalid TID value,func</td> <td>DEBUG</td> <td>II header:</td> <td>G</td>	%s(): Invalid TID value,func	DEBUG	II header:	G
%5:0: Channel capabilities do not match, chan flags 0x%x, %s: cannot map channel to mode; freq %u flags 0x%x, ic_get_currentCountry not initialized yet DEBUG Unable to create ip_set_hash ERROR %cs: cannot map channel to mode; freq %u flags 0x%x, ic_get_currentCountry not initialized yet DEBUG Unable to create ip_set_hash ERROR Country is i%c%c%c, %s: wrong state transition from %d to %d, %s: wrong state transition from %d to %d, %s: wrong state transition from %d to %s: scannot allocate space for %s: scannot allocate space for MPPC history, ERROR %s: (%s) %s, vap-viv_dev->name, %s: (%s) %s, vap-viv_dev->name, ether_sprintf(mac), buf DEBUG %s: cannot allocate space for MPPC history, ERROR %s: (%s) %s, vap-viv_dev->name, ether_sprintf(mac), buf DEBUG %s: cannot allocate space for SHA1 glasst, fname ERROR %s: (%s) %s, vap-viv_dev->name, ether_sprintf(mac), buf DEBUG %s: cannot allocate space for SHA1 glasst, fname ERROR %s: %s) discard fsa frame, %s, vap- viv_dev->name, %s: %s) discard fsa frame, %s, vap- viv_dev->name, DEBUG %s:%d: trying to write	Error in ADD- no node available	DEBUG	Unable to create ip set list	ERROR
Inatics, chan flag5 0x%x, DEBUG Unable to create ip, set, hash ERROR %s: cannot map channel to mode; freq wu flags 0x%x, DEBUG (hook=%u), (hook=%u), ERROR ibcountrack_in: Frag of proto %u (hook=%u), (hook=%u), ERROR ERROR ic_get_currentCountry not initialized yet DEBUG Unable to create ip_conntrack_hash ERROR Country ie is %c%c%, DEBUG Unable to create ip_conntrack lab ERROR %s: wrong state transition from %d to %d, DEBUG Unable to create ip_set_preeb slab ERROR %s: wrong state transition from %d to %d, DEBUG Unable to create ip_set_preeb slab ERROR %s: wrong state transition from %d to %d, DEBUG Sc. cannot allocate space for ERROR %s: wrong state transition from %d to %d, DEBUG %s: cannot allocate space for MPPC RROR %s: wrong state transition from %d to %s: wrong state transition from %d to Mss: cannot allocate space for MPPC RROR %s: wrong state transition from %d to DEBUG %s: cannot allocate space for MPPC RROR %s: wrong state transition from %d to DEBUG %s: cannot allocate space for MPPC RROR	%s(): Channel capabilities do not			
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>node_trace[i].funcp DEBUG failed to register PPP device (%d), err ERROR [%d]\tMacAddr\t%s, j, DEBUG PPP: no memory (VJ comp pkt) ERROR [%d]\tDescp\t\t%s, j, ni- >node trace[i].descp DEBUG PPP: no memory (comp pkt) ERROR	[%d]\tFunction\t%s_i_ni-	52500		
[%d]\tMacAddr\t%s, j, DEBUG PPP: no memory (VJ comp pkt) ERROR [%d]\tDescp\t\t%s, j, ni- >node trace[i].descp DEBUG PPP: no memory (comp pkt) ERROR	>node trace[i].funcp	DEBUG	failed to register PPP device (%d), err	ERROR
[%d]\tDescp\t\t%s, j, ni- >node trace[i].descp DEBUG PPP: no memory (comp pkt) ERROR	[%d]\tMacAddr\t%s_i		PPP: no memory (V/L comp pkt)	FRROR
>node trace[i].descp DEBUG PPP: no memory (comp pkt) ERROR	[%d]\tDescp\t\t%s i ni-			
	>node_trace[i].descp	DEBUG	PPP: no memory (comp pkt)	ERROR

[%d]\tValue\t\t%llu(0x%llx), j, ni-	ĺ		
>node_trace[i].value,	DEBUG	ppp: compressor dropped pkt	ERROR
ifmedia_add: null ifm	DEBUG	PPP: no memory (fragment)	ERROR
Adding entry for	DEBUG	PPP: VJ uncompressed error	ERROR
ifmedia_set: no match for 0x%x/0x%x,	DEBUG	ppp_decompress_frame: no memory	ERROR
		ppp_mp_reconstruct bad seq %u <	
ifmedia_set: target	DEBUG	%U, DDD: aculdatit register device %a	ERROR
ifmedia set: setting to	DEBUG	(%d).	ERROR
ifmedia_ioctl: switching %s to , dev-		ppp: destroying ppp struct %p but	
>name	DEBUG	dead=%d	ERROR
ifmedia_match: multiple match for	DEBUG	ppp: destroying undead channel %p !,	ERROR
		PPP: removing module but units	
 <unknown type=""></unknown> deae , iftrat, string; 	DEBUG	PDD: feiled to ware sister DDD dowing	
desc->Itmt_string	DEBUG	PPP: falled to unregister PPP device	ERROR
mode %s desc->ifmt string		%s: cannot allocate space for	EPROP
mode ///s, desc->imit_sting	DEBUG	%s: cannot allocate space for MPPC	LINON
<unknown subtype=""></unknown>	DEBUG	history,	ERROR
		%s: cannot allocate space for MPPC	
%s, desc->ifmt_string	DEBUG	history,	ERROR
%s%s, seen_option++ ? , : ,	DEBUG	%s: cannot load ARC4 module, fname	ERROR
%s%s, seen_option++ ? , : ,	DEBUG	%s: cannot load SHA1 module, fname	ERROR
%s seen option 2 > :	DEBLIG	small fname	FRROR
	DEDOG	%s: cannot allocate space for SHA1	LINION
%s: %s, dev->name, buf	DEBUG	digest, fname	ERROR
%s: no memory for sysctl table!,	DEDUIO		
	DEBUG	%s%d: trying to write outside history	ERROR
>iv dev->name	DEBUG	%s%d: trying to write outside history	ERROR
Atheros HAL assertion failure: %s: line	02000	yee year trying to write outside motory	Littort
%u: %s,	DEBUG	%s%d: trying to write outside history	ERROR
ath_hal: logging to %s %s,	DEDUO	%s%d: too big uncompressed packet:	
atn_nai_iogilie,	DEBUG	%0, %s%d: encryption perotiated but not	ERROR
ath hal: logging disabled	DEBUG	an	ERROR
		%s%d: error - not an MPPC or MPPE	
%s%s, sep, ath_hal_buildopts[i]	DEBUG	frame	ERROR
ath_pci: No devices found, driver not		Kernel doesn't provide ARC4 and/or	EPROP
	DEBUG		LINON
tot:%u amp:%d %02x:%02x:%02x.	DEBUG	PPP: not interface or channel??	ERROR
SC Pushbutton Notify on %s::%s devi	DEDOO		Entron
>name,vap->iv_dev->name	DEBUG	PPP: no memory (VJ compressor)	ERROR
Could not find Board Configuration			
Data	DEBUG	failed to register PPP device (%d), err	ERROR
Could not find Radio Configuration	DEBLIC	RRD: no momony (comp pl/t)	
		ppp: compressor dropped pkt	
ath abb: No devices found driver not	DEBUG	ррр. сотпртеззот агорреа ркт	
installed.	DEBUG	PPP: no memory (VJ comp pkt)	ERROR
PKTLOG_TAG %s:proc_dointvec			
failed,FUNCTION	DEBUG	PPP: no memory (comp pkt)	ERROR
FRILUG_IAG %s:proc_dointvec		PPP: no memory (fragment)	
	12500		

%s: failed to register sysctls!,			
proc_name	DEBUG	PPP: VJ uncompressed error	ERROR
PKTLOG_TAG %s: proc_mkdir failed, FUNCTION	DEBUG	ppp decompress frame: no memory	ERROR
PKTLOG_TAG %s: pktlog_attach		ppp_mp_reconstruct bad seq %u <	
failed for %s,	DEBUG	%U,	ERROR
pl_info,FUNCTION	DEBUG	(%d),	ERROR
PKTLOG_TAG %s:allocation failed for pl_info,FUNCTION	DEBUG	ppp: destroying ppp struct %p but dead=%d	ERROR
PKTLOG_TAG %s: create_proc_entry failed for %s,	DEBUG	ppp: destroying undead channel %p !,	ERROR
PKTLOG_TAG %s: sysctl register failed for %s.	DEBUG	PPP: removing module but units remain!	ERROR
PKTLOG_TAG %s: page fault out of range. FUNCTION	DEBUG	PPP: failed to unregister PPP device	ERROR
PKTLOG_TAG %s: page fault out of			
PKTLOG_TAG %s: Log buffer	DEBUG	JBD: bad block at offset %u,	ERROR
unavailable,FUNCTION	DEBUG	JBD: corrupted journal superblock	ERROR
PKTLOG_TAG	DEBUG	JBD: bad block at offset %u,	ERROR
Logging should be disabled before changing bufer size	DEBUG	JBD: Failed to read block at offset %u,	ERROR
%s:allocation failed for pl_info,			
	DEBUG	JBD: error %d scanning journal, err	
%s: Unable to allocate buller,lunc	DEBUG	JBD: IO error %d recovering block	ERRUR
func	DEBUG	./Logs_kernel.txt:303:KERN_ERR	ERROR
%s: Unable to allocate buffer,func	DEBUG	./Logs_kernel.txt:304:KERN_ERR	ERROR
Atheros HAL assertion failure: %s: line		IBD: recovery pass %d ended at	
ath hal: logging to %s %s.	DLD0G	SDD. Tecovery pass 760 ended at	LINION
_ath_hal_logfile,	DEBUG	%s: %s:%d: BAD SESSION MAGIC \	ERROR
ath_hal: logging disabled	DEBUG	%s: %s:%d: BAD TUNNEL MAGIC \	ERROR
%s%s, sep, ath hal buildopts[i]	DEBUG	msg->msg_namelen wrong, %d, msg-	ERROR
failed to allocate rx descriptors: %d,		addr family wrong: %d, usin-	
error	DEBUG	>sin_family	ERROR
ath stoprecy: rx queue %p, link %p,	DEBUG	udp addr=%x/%hu, usin- >sin_addr.s_addr.usin->sin_port	FRROR
no mpdu (%s) func	DEBUG	%s: %s:%d: BAD TUNNEL MAGIC	FRROR
Reset rx chain mask. Do internal reset.			
(%s),func	DEBUG	%s: %s:%d: BAD TUNNEL MAGIC	ERROR
OS_CANCEL_TIMER failed!!	DEBUG	socki_lookup: socket file changed!	ERROR
%s: unable to allocate channel table, func	DEBUG	%s: %s:%d: BAD TUNNEL MAGIC	ERROR
%s: unable to collect channel list from hal;	DEBUG	%s: %s:%d: BAD SESSION MAGIC \	ERROR
%s: cannot map channel to mode; freq %u flags 0x%x,	DEBUG	%s: %s:%d: BAD TUNNEL MAGIC \	ERROR
%s: unable to reset channel %u (%uMhz)	DEBUG	msg->msg_namelen wrong, %d, msg- >msg_namelen	ERROR
%s: unable to restart recv logic.	DEBUG	addr family wrong: %d, usin-	ERROR
%s: start DFS WAIT period on channel %d,func,sc->sc_curchan.channel	DEBUG	udp addr=%x/%hu, usin- >sin_addr.s_addr, usin->sin_port	ERROR

ĺ	%s: cancel DFS WAIT period on			
l	channel %d,func, sc-			
ŀ	Non DES channel concelling provious	DEBUG	%S. %S. %U. BAD TUNNEL MAGIC	ERROR
l	DES wait timer channel %d sc-			
l	>sc. curchan channel	DEBUG	%s' %s'%d' BAD TUNNEL MAGIC	FRROR
ŀ	%s: unable to reset hardware: hal	DEDGG		LINION
l	status %u	DEBUG	socki lookup: socket file changed!	ERROR
ľ	%s: unable to start recy logic. func	DEBUG	%s: %s:%d: BAD TUNNEL MAGIC	ERROR
ľ	%s: unable to start recy logic func	DEBLIG	%s: %s:%d: BAD SESSION MAGIC \	FRROR
ŀ	%s: unable to reset hardware: hal	DEBOG		Enton
l	status %u,	DEBUG	%s: %s:%d: BAD TUNNEL MAGIC \	ERROR
ĺ	· · · ·		msg->msg namelen wrong %d msg-	
l	hardware error: reseting	DEBUG	<pre>>msg_namelen</pre>	ERROR
ľ			addr family wrong: %d, usin-	
l	rx FIFO overrun; reseting	DEBUG	>sin_family	ERROR
I	%s: During Wow Sleep and got		udp addr=%x/%hu, usin-	
l	BMISS,func	DEBUG	>sin_addr.s_addr, usin->sin_port	ERROR
ľ	AC\tRTS \tAggr Scaling\tMin			
l	Rate(Kbps)\tHBR \tPER LOW			
ļ	THRESHOLD	DEBUG	%s: %s:%d: BAD TUNNEL MAGIC	ERROR
Į	BE\t%s\t\t%d\t%6d\t\t%s\t%d,	DEBUG	%s: %s:%d: BAD TUNNEL MAGIC	ERROR
	BK\t%s\t\t%d\t%6d\t\t%s\t%d,	DEBUG	socki_lookup: socket file changed!	ERROR
I	VI\t%s\t\t%d\t%6d\t\t%s\t%d,	DEBUG	%s: %s:%d: BAD TUNNEL MAGIC	ERROR
ĺ	VO\t%s\t\t%d\t%6d\t\t%s\t%d.	DEBUG	rebootHook: null function pointer	ERROR
ľ	%d,%p,%lu:0x%x 0x%x 0x%p 0x%x			
l	0x%x 0x%x 0x%x,	DEBUG	Bad ioctl command	ERROR
ľ	bb state: 0x%08x 0x%08x, bbstate(sc,		fResetMod: Failed to configure gpio	
ļ	4ul), bbstate(sc, 5ul)	DEBUG	pin	ERROR
l	%08x %08x %08x %08x %08x %08x		fResetMod: Failed to register interrupt	
ļ	%08x %08x%08x %08x %08x %08x,	DEBUG	handler	ERROR
l	noise floor: (%d, %d) (%d, %d) (%d,			
ŀ	%d),	DEBUG	registering char device failed	ERROR
l	%p: %08x %08x %08x %08x %08x			
l	%00X %00X %00X %00X %00X %00X	DEBLIG	unregistering char device failed	FRROR
ŀ	%d.%p.%lu:0x%x 0x%x 0x%p 0x%x	DEDOG		Enton
l	0x%x 0x%x 0x%x,	DEBUG	proc entry delete failed	ERROR
ľ	%08x %08x %08x %08x %08x %08x			
l	%08x %08x%08x %08x %08x %08x,	DEBUG	proc entry initialization failed	ERROR
Ì	%s: unable to allocate device object		testCompHandler: received %s from	
l	func	DEBUG	%d. (char *)pInBuf.	ERROR
ľ	%s: unable to attach hardware; HAL		, vod, (onder)prinz an,	
l	status %u,	DEBUG	UMI proto registration failed %d,ret	ERROR
ſ	%s: HAL ABI msmatch;	DEBUG	AF_UMI registration failed %d,ret	ERROR
ľ	%s: Warning, using only %u entries in			
l	%u key cache,	DEBUG	umi initialization failed %d,ret	ERROR
l	unable to setup a beacon xmit queue!	DEBUG	kernel UMI registration failed!	ERROR
ſ	unable to setup CAB xmit queue!	DEBUG	./Loas kernel.txt:447:KERN ERR	ERROR
t	unable to setup xmit queue for BE		ERROR msm not found properly %d,	
Į	traffic!	DEBUG	len %d, msm,	ERROR
I	%s DFS attach failed,func	DEBUG	ModExp returned Error	ERROR
Í	%s: Invalid interface id = %u,			
1	func if id	DEBUG	ModExp returned Error	ERROR

%s:gropoll Buf allocation failed		%s: 0x%p len %u, tag, p. (unsigned	I
,func	DEBUG	int)len	ERROR
%s: unable to start recv logic,	DEBUG	%03d:, i	ERROR
%s: Invalid interface id = %u,			
func, if_id	DEBUG	%02x, ((unsigned char *)p)[i]	ERROR
%s: unable to allocate channel table, func	DEBUG	mic check failed	ERROR
%s: Tx Antenna Switch. Do internal		%s: 0x%p len %u, tag, p, (unsigned	
reset.,func	DEBUG	int)len	ERROR
Radar found on channel %d (%d MHz),	DEBUG	%03d:, i	ERROR
End of DFS wait period	DEBUG	%02x, ((unsigned char *)p)[i]	ERROR
%s error allocating beacon,func	DEBUG	mic check failed	ERROR
failed to allocate UAPSD QoS NULL tx			
descriptors: %d, error	DEBUG	[%s] Wrong parameters,func	ERROR
failed to allocate UAPSD QoS NULL		[%s] Wrong Key length func	EPROP
%s: unable to allocate channel table	DEBUG		
func	DEBUG	[%s] Wrong parameters,func	ERROR
%s: unable to update h/w beacon			
queue parameters,	DEBUG	[%s] Wrong Key length,func	ERROR
ALREADY ACTIVATED	DEBUG	[%s] Wrong parameters,func	ERROR
%s: missed %u consecutive beacons,	DEBUG	[%s] Wrong Key length,func	ERROR
%s: busy times: rx_clear=%d,			
rx_frame=%d, tx_frame=%d,func,	DEDUO		FRROR
rx_clear, rx_trame, tx_trame	DEBUG	[[%s] Wrong parameters,func	ERROR
func	DEBUG	[%s] Wrong Key length func	FRROR
<u>%s: beacon is officially stuck</u>	DEBUG	[%s]: Wrong parameters func	ERROR
	DEDOG	[%s] Wrong Key Length %d.	ERROR
Busy environment detected	DEBUG	func, des_key_len	ERROR
		[%s] Wrong parameters %d,	
Inteference detected	DEBUG	func, des_key_len	ERROR
rx_clear=%d, rx_frame=%d,		[%s] Wrong Key Length %d,	
%: resume beacon xmit after %	DEBUG		ERROR
misses,	DEBUG	[%s] Wrong parameters, func	ERROR
%s: stuck beacon; resetting (bmiss			
count %u),	DEBUG	[%s] Wrong Key Length,func	ERROR
EMPTY QUEUE	DEBUG	[%s] Wrong parameters,func	ERROR
SWRInfo: seqno %d isswRetry %d			
retryCnt %d,wh? (*(u_int16_t *)&wh-			
>bf_swretries	DEBUG	[%s] Wrong Key Length func	FRROR
Buffer #%08X> Next#%08X	DEDOO		Entron
Prev#%08X Last#%08X,bf,			
TAILQ_NEXT(bf,bf_list),	DEBUG	[%s] Wrong parameters,func	ERROR
Stas#%08X flag#%08X			
NODE#%U8X, DI->DI_STATUS, DI-		[%s] Wrong parameters func	EPPOP
Descr #%08X> Next#%08X	DEDUG		
Data#%08X Ctl0#%08X Ctl1#%08X,			
bf->bf_daddr, ds->ds_link, ds-			
>ds_data, ds->ds_ctl0, ds->ds_ctl1	DEBUG	[%s] Wrong parameters,func	ERROR
Ctl2#%08X Ctl3#%08X			
3.au#%001 3.au#%081,05-205_NW[0], ds-5ds hw[1] lastde-5ds hw[2]			
lastds->ds_hw[3]	DEBUG	[%s] Wrong parameters,func	ERROR

	I	device name-%s not found nReg-	I
Error entering wow mode	DEBUG	>ifName	ERROR
Wakingup due to wow signal	DEBUG	unable to register KIEDEV to UMI	ERROR
%s. wowStatus = $0x\%x$. func .	02000	ERROR: %s: Timeout at page %#0x	Littleit
wowStatus	DEBUG	addr %#0x	ERROR
		ERROR: %s: Timeout at page %#0x	
Pattern added already	DEBUG	addr %#0x	ERROR
Error : All the %d pattern are in use.			
Cannot add a new pattern ,			
MAX_NUM_PATTERN	DEBUG	Invalid IOCTL %#08x, cmd	ERROR
Pattorn added to entry % d i	DEBUG	%S: unable to register device, dev-	
Demove welke we nettern	DEBUG	ath nei 22 hit DMA net eveilable	
Remove wake up pattern	DEBUG	ath_pci: 32-bit DiviA not available	ERROR
mask = /op pat = /op mask Bytes nattern Bytes	DEBUG	region	FRROR
mask = %x pat = %x	DEBOG		LINION
(u int32 t)maskBytes,		ath pci: cannot remap PCI memory	
(u_int32_t)patternBytes	DEBUG	region);	ERROR
Pattern Removed from entry %d .i	DEBUG	ath pci: no memory for device state	ERROR
		%s: unable to register device, dev-	
Error : Pattern not found	DEBUG	>name	ERROR
PPM STATE ILLEGAL %x %x.		ath dev probe: no memory for device	
forcePpmStateCur, afp->forceState	DEBUG	state	ERROR
FORCE_PPM %4d %6.6x %8.8x		%s: no memory for device state,	
%8.8x %8.8x %3.3x %4.4x,	DEBUG	func	ERROR
failed to allocate tx descriptors: %d,			
error	DEBUG	kernel MIBCTL registration failed!	ERROR
ralled to allocate beacon descripotrs:		Pad jast command	
failed to allocate LIAPSD descripting:	DEBOG	Bad loca command	LINON
%d. error	DEBUG	WpsMod: Failed to configure gpio pin	ERROR
		WpsMod: Failed to register interrupt	
hal qnum %u out of range, max %u!,	DEBUG	handler	ERROR
HAL AC %u out of range, max %zu!,	DEBUG	registering char device failed	ERROR
HAL AC %u out of range, max %zu!.	DEBUG	unregistering char device failed	ERROR
%s: upable to update bardware queue		%s:%d - EPROP: pop-NULL pode	
	DEBUG	pointer in %p. %p<%s>!	ERROR
		% a:% d EBBOB: pap NUUL pada	
Multicast O	DEBUG	pointer in %p_%p<%s>l	FRROR
%p_buf			
buf flags - 0x%08x buf-	DLDOG	%s: unable to register device dev-	LINION
>bf flags	DEBUG	>name	ERROR
		failed to automatically load module:	
buf status - 0x%08x, buf->bf_status	DEBUG	%s; \	ERROR
# frames in aggr - %d, length of			
aggregate - %d, length of frame - %d,		Unable to load needed module: %s;	
sequence number - %d, tidno - %d,	DEBUG	no support for \	ERROR
Isdata: %d Isaggr: %d Isampdu: %d ht:			
shnreamhle: %d ishar: %d isnenoll: %d			
agarburst: %d calcairtime: %d			
qosnulleosp: %d,	DEBUG	Module \%s\ is not known, buf	ERROR
%p: 0x%08x 0x%08x 0x%08x 0x%08x	1		
0x%08x 0x%08x 0x%08x 0x%08x			
0x%08x 0x%08x,	DEBUG	Error loading module \%s buf	ERROR

DXX00X 0X/00S0 (X) DEBUG Module V%s/ failed to initialize, buf ERROR 0X%00X 0X/00S0 (X) DEBUG ath_pci: 2pht DMA not available ERROR sc_txq[%d]:,i DEBUG ath_pci: cannot reserve PCI memory ERROR xd: %p j, itd-xt_buff] DEBUG ath_pci: cannot reserve PCI memory ERROR %d: %p j, itd-xt_buff] DEBUG ath_pci: cannot reserve PCI memory ERROR %d: %p j, itd-xt_buff] DEBUG ath_pci: cannot reserve PCI memory ERROR %sc, table to reset hardware; hal DEBUG %sc, table to hardware; %s ERROR %sc, unable to reset hardware; hal DEBUG %sc, table to setup a beacon xmit ERROR Yabufdx=%d, i DEBUG %sc, unable to setup Ath and use (FROR %sc, unable to setup Ath and use (FROR Yabufdx=%d, i DEBUG %sc, unable to reset hardware; hal State ERROR %sc, unable to reset hardware; hal DEBUG %sc, unable to reset hardware; hal ERROR %sc, unable to reset hardware; hal DEBUG %sc, unable to reset hardware; hal ERROR %sc, unable to reset hardware; hal DEBUG %	0x%08x 0x%08x 0x%08x 0x%08x			
DXX00X 0X%080 XX%08X 0X%08X, DEBUG ath. pci: 32-bit DMA not available ERROR sc_txq[%d]:,i DEBUG ath.pci: 22-bit DMA not available ERROR sc_txq[%d]:,i DEBUG ath.pci: cannot reserve PCI memory ERROR %d: %op,j,tid-xt_buf[] DEBUG ath.pci: cannot remap PCI memory ERROR %d: %op,j,tid-xt_buf[] DEBUG ath.pci: cannot remap PCI memory ERROR %d: %op,j,tid-xt_buf[] DEBUG ath.pci: cannot remap PCI memory ERROR %s: unable to attach hardware: %s1 ERROR %s: unable to attach hardware: %s1 ERROR %s: unable to reset hardware: hal DEBUG %s1: unable to attach hardware: %d1 ERROR %s: unable to reset hardware: hal DEBUG %s: unable to setup Ab eacon xmit ERROR %s: unable to reset hardware; hal DEBUG %s1: unable to setup Ab eacon xmit ERROR %s: unable to reset hardware; hal Status %u, Ws111RogueAPEnable: can not add Mcdn11RogueAPEnable: called with %s1: unable to reset hardware; hal status %u, DEBUG %s1 Mable to atlace with ERROR %s2: unable to reset hardware; hal	0x%08x 0x%08x 0x%08x 0x%08x 0x%08x 0x%08x	DEBUG	Module \%s\ failed to initialize, buf	FRROR
sc_txq[%d]:,i DEBUG ath_pci: cannot reserve PCI memory region ERROR sd: %p , buf DEBUG ath_pci: cannot remap PCI memory region); ERROR %d: %p , buf DEBUG ath_pci: cannot remap PCI memory region); ERROR %d: %p , buf DEBUG %s: unable to attach hardware: %s' (HAL status %u), ERROR %xs. unable to reset hardware; hal status %u, _tnc, status DEBUG %s: tailed to allocate descriptors: %d, equeuel, ERROR ****ASSERTION HIT*** DEBUG %s: unable to setup 2AB xmit queuel, %s: unable to setup AB acon xmit queuel, ERROR TxBufldx=%d, idno DEBUG %s: unable to setup CAB xmit queuel, ferror ERROR %s: unable to register device, dev- >name DEBUG %s: unable to register device, dev- suable to register device, dev- suable to reset hardware; hal status %u, ERROR %s: unable to reset hardware; hal status %u, DEBUG %s: unable called with NULL argument. ERROR %s: unable to reset hardware; hal status %u, DEBUG %s: unable called with NULL argument. ERROR %s: unable to reset hardware; hal status %u, DEBUG %s: state ERROR %s: unable to reset hardware; hal status %u, DEBUG Mcdot11RogueAPEnable: can not add ERROR	0x%08x 0x%08x 0x%08x 0x%08x.	DEBUG	ath pci: 32-bit DMA not available	ERROR
sc_txq[%d]:,i DEBUG region ERROR ath_poic cannot remap PCI memory ERROR %d: %p, j, tid-stx_buf[j] DEBUG ath_poic cannot remap PCI memory %d: %p, j, tid-stx_buf[j] DEBUG ath_poic cannot remap PCI memory %d: %p, j, tid-stx_buf[j] DEBUG %s: unable to attach hardware: %s' %p, buf DEBUG %s: unable to attach hardware: %s' status %u, func_, status DEBUG %s: unable to setup a beacon xmit #***ASSERTION HIT**** DEBUG %s: unable to setup CAB xmit queuel, ERROR %ss: unable to setup Abeacon xmit ERROR %s: unable to setup CAB xmit queuel, ERROR %ss: unable to setup Abeacon xmit ERROR %s: unable to setup Abeacon xmit Trd=%d, tidno DEBUG %s: unable to setup Abeacon xmit ERROR %ss: unable to reset hardware; hal bEBUG %s: unable to setup Abeacon xmit ERROR %ss: unable to reset hardware; hal bEBUG %s: unable to attach with ERROR %ss: unable to reset hardware; hal bEBUG %s: unable to reset hardware; hal ERROR %ss: unable to reset hardware; hal bEBUG NULL argument. ERROR %ss: unable to			ath_pci: cannot reserve PCI memory	
tid %p pause %d : , tid, tid->paused DEBUG region) : ERROR %d: %p , j, tid->tx, buf[j] DEBUG ath, poi: no memory for device state ERROR %s: unable to reset hardware; hal DEBUG %s: thalk all mismatch; ERROR %s: unable to reset hardware; hal DEBUG %s: unable to setup a beacon xmit ERROR ****ASSERTION HIT**** DEBUG %s: unable to setup CAB xmit queuel, ERROR MacAddr=%s, DEBUG %s: unable to setup CAB xmit queuel, ERROR %s: unable to reset hardware; hal DEBUG %s: unable to setup CAB xmit queuel, ERROR %s: unable to reset hardware; hal DEBUG %s: unable to setup Xmit queue for ERROR %s: unable to reset hardware; hal DEBUG %s: unable to register device, dev- >name ERROR %s: unable to reset hardware; hal DEBUG State State ERROR %s: unable to reset hardware; hal DEBUG NULL argument. ERROR %s: unable to reset hardware; hal DEBUG NULL argument. ERROR %s: unable to statr recv logic, DEBUG NULL argument. ERROR fift_numyUlesse%u; rf-srf_minpri=%u; <	_sc_txq[%d] : , i	DEBUG	region	ERROR
%d: %p, j, id->tx_buf[j] DEBUG ath_pci: no memory for device state ERROR %p, buf DEBUG ath_pci: no memory for device state ERROR %s: unable to reset hardware; hal DEBUG %s: HAL ABI mismatch; ERROR %s: unable to reset hardware; hal gueuel, error ERROR ***ASSERTION HIT*** DEBUG %s: unable to setup Amit queuel, ERROR MacAddr=%s, DEBUG %s: unable to setup Amit queuel, ERROR MacAddr=%s, DEBUG %s: unable to setup Amit queuel, ERROR Tid=%d, tidno DEBUG %s: unable to setup Amit queue for %s: unable to register device, dev- Tid=%d, tidno DEBUG %s: unable to register device, dev- error %s: unable to reset hardware; hal DEBUG %s: unable to reset hardware; hal th. dev_probe: no memory for device status %u, DEBUG NULL argument. ERROR Kdot11RogueAPEnable: can not add %s: unable to start recv logic, DEBUG NULL argument. ERROR status %u, DEBUG NULL argument. ERROR status %u, fileriD = %u, ri-rif_minpri=%u; rif_numpfites=%u; ri-rif_minpri=%u; rif	tid %p pause %d : . tid. tid->paused	DEBUG	region) :	ERROR
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Channel is a weather radar channel DEBUG defaults!!! CRITICAL %s disable detects,func DEBUG %s, msg CRITICAL %s enable detects,func DEBUG %02x, *(data + i) CRITICAL %s disable FFT val=0x%x ,func, val DEBUG Inside crypt_open in driver ###### CRITICAL %s enable FFT val=0x%x ,func, val DEBUG Inside crypt_release in driver ###### CRITICAL %s debug level now = 0x%x ,func, dfs_debug_level DEBUG Inside crypt_init module in driver CRITICAL RateTable:%d, maxvalidrate:%d, ratemax:%d, pRc- DEBUG Inside crypt_cleanup module in driver CRITICAL %s: txRate value of 0x%x is bad.,FUNCTION_, txRate DEBUG SKB is null : %p ,skb CRITICAL Valid Rate Table:- DEBUG DST is null : %p ,dst CRITICAL	WARNING!!! 10 minute CAC period as		The system is going to factory	
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%s enable FFT val=0x%x ,func, val DEBUG Inside crypt_release in driver ###### CRITICAL %s debug level now = 0x%x ,func, dfs_debug_level DEBUG Inside crypt_init module in driver CRITICAL RateTable:%d, maxvalidrate:%d, ratemax:%d, pRc- DEBUG @@@@@@@@@@@@@@@ CRITICAL %s: txRate value of 0x%x is bad.,FUNCTION_, txRate DEBUG SKB is null : %p ,skb CRITICAL Valid Rate Table:- DEBUG DEBUG CRITICAL CRITICAL	val	DEBUG	Inside crypt_open in driver ######	CRITICAL
vai DEBUG Inside crypt_release in driver ###### CRITICAL %s debug level now = 0x%x , func, dfs_debug_level Inside crypt_init module in driver CRITICAL RateTable:%d, maxvalidrate:%d, ratemax:%d, pRc- >rateTableSize,k,pRc->rateMaxPhy DEBUG @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@	%s enable FFT val=0x%x ,func,	DEDUIO		ODITION
//ss debdg level now = 0x/sx , Inside crypt_init module in driver func, dfs_debug_level DEBUG @ @ @ @ @ @ @ @ @ CRITICAL RateTable:%d, maxvalidrate:%d, ratemax:%d, pRc- Inside crypt_cleanup module in driver CRITICAL >rateTableSize,k,pRc->rateMaxPhy DEBUG @ @ @ @ @ @ @ @ @ CRITICAL %s: txRate value of 0x%x is bad.,	Val Va dobug loval pow – 0x% x	DEBUG	Inside crypt_release in driver ######	CRITICAL
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ratemax:%d, pRc- Inside crypt_cleanup module in driver >rateTableSize,k,pRc->rateMaxPhy DEBUG @@@@@@@@@ CRITICAL %s: txRate value of 0x%x is bad.,	RateTable:%d, maxvalidrate:%d,			
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	>rate LableSize,K,pRc->rateMaxPhy	DEROG		CRITICAL
Valid Rate Table:- DEBUG DST is null : %p ,dst CRITICAL	FUNCTION, txRate	DEBUG	SKB is null : %p ,skb	CRITICAL
	Valid Rate Table:-	DEBUG	DST is null : %p ,dst	CRITICAL

rate:%4, flag:%x, i, (inv)aitRateindex[1], DEBUG DEV is null %p %p, dev,dst CRITICAL Rate Table:%d, maxvalidrate:%d, ratemax:%d, pRc- >rateTableSize,k,pRc->rateMaxPhy DEBUG Packet is Fragmented %d,pBufMgr- >len Size,k,pRc->rateMaxPhy DEBUG Size,k,pRc->rateMaxPhy DEBUG Size,k,pRc->rateMaxPhy DEBUG Size,k,pRc->rateMaxPhy DEBUG Size,k,pRc->rateMaxPhy DEBUG Size,k,pRc->rateMaxPhy DEBUG Size,k,pRc->rateMaxPhy DEBUG Size,k,pRc->rateMaxPhy DEBUG Size,k,pRc->rateMaxPhy DEBUG Size,k,pRc->rateMaxPhy DEBUG Size,k,pRc->rateMaxPhy DEBUG Size,k,pRc->rateMaxPhy DEBUG Size,k,pRc->rateMaxPhy DEBUG FAST PATH Breaks on BUF CHECK CRITICAL %ac; %022, %75, tag, ix, ciphers[hk- Pkv_type] DEBUG FAST PATH Breaks on BUF CHECK CRITICAL %02x, hk->kv val[i] DEBUG FAST PATH Breaks on MIU %d %d %d,bufMgrLen(pBufMgr),mu,dst_mtu DEBUG (DSIs-path) DEBUG FAST PATH Breaks on MAX PACKET %d dwfMgrLen(pBufMgr),IP_MAX_PA CRITICAL %02x, hk->kv_mic[i] DEBUG Size CRITICAL %02x, hk->kv_mic[i] DEBUG Size CRITICAL %02x, hk->kv_mic[i] DEBUG Size CRITICAL %02x, hk->kv_mic[i] DEBUG Size CRITICAL %d dpFtthfo->proto, %d spi %d dpFtthfo->proto, %d spi %d dpFtthfo->proto, %u scip:%u.%u.%u, %u, %u sport :%u dstp: %u.%u.%u.%u, %u, %u, %u sport :%u dstp: %u.%u.%u, %u, %u, %u, %u sport :%u dstp: %u.%u.%u, %u, %u, %u, %u sport :%u dstp: %u.%u.%u, %u, %u, %u, %u, %u sport :%u dstp: %u.%u.%u, %u, %u, %u, %u sport :%u dstp: %u.%u.%u, %u, %u, %u, %u, %u sport :%u dstp: %u.%u, %u, %u, %u, %u, %u, %u sport :%u dstp: %u, %u, %u, %u, %u, %u, %u, %u sport :%u dstp: %u, %u, %u, %u, %u, %u, %u sport :%u dstp: %u, %u, %u, %u, %u, %u, %u sport :%u dstp: %u, %u, %u, %u, %u, %u, %u sport :%u dstp: %u, %u, %u, %u, %u, %u, %u, %u sport :%u dstp: %u, %u, %u, %u, %u, %u, %u, %u sport :%u dstp: %u, %u, %u, %u, %u, %u, %u, %u sport :%u dstp: %u, %u, %u, %u, %u, %u, %u, %u sport :%u dstp: %u, %u, %u, %u, %u, %u, %u, %u sport :%u dstp: %u, %u, %u, %u, %u, %u, %u, %u, %u sport :%u dstp: %u, %u, %u, %u, %u, %u, %u, %u sport :%u dstp: %u, %u, %u, %u, %u, %u, %u cRITICAL FARCR: tabaet encle tab	Index:%d, value:%d, code:%x,			
(Int)validAteIndex[I], DEBUG DEV is null %p %p, dev.dst CRITICAL RateTable:X, d, maxvalidrate:%d, ratemax.%d, pRc- >rateTableSize,k,pRc-srateMaxPhy DEBUG Packet is Fragmented %d,pBufMgr- packet proto %d sip.%x dipr.%x sport.%d dopt.%d CRITICAL Can't allocate memory for ath_vap. DEBUG DEBUG SAV CHECK FAILED IN DECRYPTION CRITICAL Vable to add an interface for ath_dev. DEBUG PAST PATH Breaks on BUF CHECK CRITICAL %6: [%02u] %-7s, tag, ix, ciphers]hk- %v_type] DEBUG FAST PATH Breaks on DST CHECK CRITICAL %02x, hk-sky_val[i] DEBUG FAST PATH Breaks on MTU %d %d %d,bufMgrLen(pBufMgr),iIL,mu,dsL_mtu (pDst-path) CRITICAL %02x, hk-sky_val[i] DEBUG FAST PATH Breaks on MAX PACKET %d CRITICAL %02x, hk-sky_val[i] DEBUG ENCRYPTION CRITICAL %d0_pstInt_en(pBufMgr),iIP_MAX_PA CRITICAL FAST PATH Breaks on MAX PACKET %d CRITICAL %d0_xhk_en(pt_en(pBufMgr),iIP_MAX_PA CRITICAL FAST PATH Breaks on MAX PACKET %d CRITICAL %d0_xhk_en(pt_en(pbufMgr),iIP_MAX_PA CRITICAL FAST PATH Breaks on MAX PACKET %d CRITICAL %d0_xhk_en(pt_en(pbufMgr),iIP_MAX_PA CRITICAL CRITICAL CRITICAL CRITICA	rate:%d, flag:%x, i,	D D D U O		
Nate Jable:%d, maxWaltorate:%d, pro- >rate TableSize,k,pRc->rateMaxPhy Packet is Fragmented %d,pBufMgr- >len CRITICAL Can't allocate memory for ath_vap. DEBUG Packet is Fragmented %d,pBufMgr- >len CRITICAL Unable to add an interface for ath_dev. DEBUG SAV CHECK FAILED IN CRITICAL %s: [%02u] %-7s, tag, ix, ciphers[hk- >kv_type] DEBUG FAST PATH Breaks on BUF CHECK CRITICAL %s: [%02u, hk-xkv_val[i] DEBUG FAST PATH Breaks on MU %d %d %d,bufMgrLen(pBufMgr),mu,dst_mtu od,bufMgrLen(pBufMgr),mu,dst_mtu cRITICAL CRITICAL %d02x, hk-xkv_val[i] DEBUG FAST PATH Breaks on MAX PACKET %d CRITICAL %d02x, hk-xkv_val[i] DEBUG FAST PATH Breaks on MAX PACKET %d CRITICAL %d02x, hk-xkv_mic[i] DEBUG SAV CHECK FAILED IN CRITICAL CRITICAL %d02x, hk-xkv_mic[i] DEBUG SAV CHECK FAILED IN SAV CHECK FAILED IN CRITICAL CRITICAL %d02x, hk-skv_mic[i] DEBUG SAV CHECK FAILED IN SAV CHECK FAIL	(int)validRateIndex[i],	DEBUG	DEV is null %p %p ,dev,dst	CRITICAL
Tate/TableSize, k, pRc->rateMaxPhy DEBUG Flackate is hightermed AdupDutings CRITICAL VariateTableSize, k, pRc->rateMaxPhy DEBUG Selen CRITICAL Marked the packet proto.%d sip.%x dip:%x dip:%x spir%d port%d CRITICAL Can't allocate memory for ath_dev. DEBUG Spir%d, lisr%d port%d CRITICAL %s: (%02u] %-7s, tag, ix, ciphers[hk- >kV_type] DEBUG FAST PATH Breaks on DST CHECK CRITICAL %02x, hk-skv_val[] DEBUG FAST PATH Breaks on DST CHECK CRITICAL %02x, hk-skv_val[] DEBUG FAST PATH Breaks on MAX PACKET %d, bufMgrLen(pBufMgr),mtu.dst_mtu CRITICAL %02x, hk-skv_val[] DEBUG FAST PATH Breaks on MAX PACKET %d, bufMgrLen(pBufMgr),IP_MAX_PA CRITICAL %02x, hk-skv_mic[i] DEBUG ENCRYPTION CRITICAL FAST PATH Breaks on MAX PACKET %d, pRththo-sproto,pFlowEntry- bmic DEBUG ENCRYPTION CRITICAL FAST PATH Breaks on MAX PACKET %d, pRththo-sproto,pFlowEntry- CRITICAL %d2x, hk-skv_tomic[i] DEBUG ENCRYPTION CRITICAL PRE: proto: %u srcip:%u.%u.%u.%u.%u.%u.%u Spir.%d, gprt.%u.%u.%u.%u.%u.%u.%u.%u.%u.%u.%u.%u.%u.	Rate l'able:%d, maxvalldrate:%d,		Packet is Fragmented %d pBufMar-	
Can't allocate memory for ath_vap. DEBUG Marked the packet proto:%d sip:%x dip:%x sport:%d dport.%d OTTTO CRITICAL Unable to add an interface for ath_dev. DEBUG SAV CHECK FAILED IN DEBUG CRITICAL %s: %02u] %-7s, tag, ix, ciphers[hk- >kv_type] DEBUG FAST PATH Breaks on BUF CHECK CRITICAL %02x, hk->kv_val[i] DEBUG FAST PATH Breaks on DST CHECK CRITICAL %02x, %02x-%02x-%02x-%02x-%02x-%02x-%02x-%02x-	>rateTableSize k pRc->rateMaxPhy	DEBUG		CRITICAL
Can't allocate memory for ath_vap. DEBUG spi:%di,sr:%p:%p %p CRITICAL Unable to add an interface for ath_dev. DEBUG DEBUG DECRYPTION CRITICAL %si: (%doug) %-7s, tag, ix, ciphers[hk- DEBUG FAST PATH Breaks on DUF CHECK CRITICAL %si: (%doug) %-7s, tag, ix, ciphers[hk- DEBUG FAST PATH Breaks on MTU %d %d (%d) %si: (%doug) %-7s, tag, ix, ciphers[hk- DEBUG FAST PATH Breaks on MTU %d %d (CRITICAL %dout/MgrLen(pBufMgr),mac(3L, mac(3L, mac		DEBOO	Marked the packet proto:%d sip:%x	ORTHO/ LE
Can't allocate memory for ath_vap. DEBUG spir%d/isr%p2%p %p CRITICAL Unable to add an interface for ath_dev. DEBUG SAV CHECK FAILED IN CRITICAL %ss: (%02u) %-7s, tag, ix, ciphers[hk- skv_type] DEBUG FAST PATH Breaks on DST CHECK CRITICAL %02x, hk-skv_val[] DEBUG FAST PATH Breaks on DST CHECK CRITICAL %02x, hk-skv_val[] DEBUG FAST PATH Breaks on DST CHECK CRITICAL %02x, hk-skv_val[] DEBUG FAST PATH Breaks on MAX PACKET %d,bufMgrLen(pBufMgr),IP_MAX_PA mac 00-00-00-00-00-00 DEBUG CKET SAV CHECK FAILED IN CRITICAL %doutfMgrLen(pBufMgr),IP_MAX_PA CRITICAL SAV CHECK FAILED IN </td <td></td> <td></td> <td>dip:%x sport:%d dport:%d</td> <td></td>			dip:%x sport:%d dport:%d	
Unable to add an interface for att_dev. DEBUG SAV CHECK FAILED IN DECRYPTION CRITICAL %s: [%02u] %-7s , tag, ix, ciphers[hk- >kv_type] DEBUG FAST PATH Breaks on BUF CHECK CRITICAL %02x, hk-skv_val[i] DEBUG FAST PATH Breaks on DST CHECK CRITICAL mac %02x-%02x-%02x-%02x-%02x-%02x- %02x, mac[0], mac[1], mac[2], mac[3], mac %00-00-00-00 DEBUG FAST PATH Breaks on MAX PACKET %d CRITICAL mac 00-00-00-00-00 DEBUG FAST PATH Breaks on MAX PACKET %d CRITICAL %02x, hk-skv_mic[i] DEBUG SAV CHECK FAILED IN CRITICAL CRITICAL %02x, hk-skv_mic[i] DEBUG SAV CHECK FAILED IN ENCRYPTION CRITICAL %02x, hk-skv_txmic[i] DEBUG SAV CHECK FAILED IN ENCRYPTION CRITICAL %02x, hk-skv_txmic[i] DEBUG PRE: proto: %u srcip:%u.%u.%u.%u CRITICAL %02x, hk-skv_txmic[i] DEBUG PRE: proto: %u srcip:%u.%u.wu.%u.%u CRITICAL %02x, hk-skv_txmic[i] DEBUG PRE: proto: %u srcip:%u.%u.wu.%u.%u CRITICAL %02x, hk-skv_txmic[i] DEBUG PRE: proto: %u srcip:%u.wu.wu.%u.wu CRITICAL %02x, hk-skv_txmic[i] D	Can't allocate memory for ath_vap.	DEBUG	spi:%d,isr:%p:%p %p	CRITICAL
Unable to add an interface for ath_dev. DEBUG DECRYPTION CRITICAL %es: [%620] %-7s, tag, ix, ciphers[hk- >kv_type] DEBUG FAST PATH Breaks on BUF CHECK CRITICAL %02x, hk-skv_val[i] DEBUG FAST PATH Breaks on MTU %d %d CRITICAL %02x, mac[0], mac[1], mac[2], mac[3], mac (02-w602-w602-w602-w602-w602-w602-w602-w6			SAV CHECK FAILED IN	
%s: %v02uj %v02uj %v02uj %v02x, hk->kv_vral[i] DEBUG FAST PATH Breaks on DST CHECK CRITICAL %02x, hk->kv_val[i] DEBUG FAST PATH Breaks on MTU %d %d %d,bufMgrLen(pBufMgr),mtu,dst_mtu CRITICAL %02x, mac[5] FAST PATH Breaks on MAX PACKET %d,bufMgrLen(pBufMgr),IP_MAX_PA CRITICAL mac 00-00-00-00-00 DEBUG FAST PATH Breaks on MAX PACKET %d,bufMgrLen(pBufMgr),IP_MAX_PA %02x, hk->kv_mic[i] DEBUG SAV CHECK FAILED IN CRITICAL %02x, hk->kv_mic[i] DEBUG SAV CHECK FAILED IN CRITICAL %02x, hk->kv_txmic[i] DEBUG SAV CHECK FAILED IN CRITICAL %02x, hk->kv_txmic[i] DEBUG SAV CHECK FAILED IN CRITICAL %02x, hk->kv_txmic[i] DEBUG POST: proto: %u srcip:%u.%u.%u.%u CRITICAL %02x, hk->kv_txmic[i] DEBUG POST: proto: %u srcip:%u.%u.%u.%u CRITICAL %02x, hk->kv_txmic[i] DEBUG POST: proto: %u srcip:%u.%u.%u.%u.%u CRITICAL %02x, hk->kv_txmic[i] DEBUG POST: proto: %u srcip:%u.%u.%u.%u.%u.%u CRITICAL %02x, hk->kv_txmic[i] DEBUG DEBUG POST: proto: %u srcip:%u.%u.%u.%	Unable to add an interface for ath_dev.	DEBUG	DECRYPTION	CRITICAL
3kb_type] DEBUG FAST PATH Breaks on DST CHECK CRTTCAL mac %02x.%02x.%02x.%02x.%02x. FAST PATH Breaks on DST CHECK CRTTCAL %02x, mac[0], mac[1], mac[2], mac[3], DEBUG FAST PATH Breaks on DXT VH2 d/d/d/d/d/d/d/d/d/d/d/d/d/d/d/d/d/d/d/	%s: [%02u] %-7s , tag, ix, ciphers[hk-	DEDUO		
%02x, hk-sk_yal[] DEBUG FAST PATH Breaks on DTU %d %d CRITICAL mac %02x-%02x-%02x-%02x-%02x-%02x-%02x-%02x-	>kv_typej	DEBUG	FAST PATH Breaks on BUF CHECK	CRITICAL
mac %02x% %02x% %02x% %02x% FAST PATH Breaks on MIO %03 %0 %02x, mac[1], mac[2], mac[3], DEBUG PAST PATH Breaks on MAX PACKET %d,bufMgrLen(pBufMgr), IP_MAX_PA CRITICAL mac 00-00-00-00-00 DEBUG SAV CHECK FAILED IN %d,bufMgrLen(pBufMgr), IP_MAX_PA CRITICAL %d,bufMgrLen(pBufMgrLen(pBufMgr), IP_MAX_PA CRITICAL %d,bufMgrLen(pBufMgrLen(pBufMgrLen(pBufMgrLen(pBufMgrLen(pBufMgrLen(pBufMgrLen(pBufMgrLen(pBufMgrLen(pBufMgrLen(pBufMgrLen(pBufMgrLen(pBufMgrLen(pBufMgrLen(pBufMgrLen(pBufMgrLen(pBufMgrLen(pBufMgrLen(%02x, hk->kv_val[i]	DEBUG	FAST PATH Breaks on DST CHECK	CRITICAL
%02, mac(4), mac(1), mac(2), mac(3), mac(4), mac(5) DEBUG (D5t-spath) CRITICAL fASURUMQUER(DBURMOR), IP_MAX_PA FAST PATH Breaks on MAX PACKET %d, bufMgrLen(pBufMgr), IP_MAX_PA CRITICAL mac 00-00-00-00-00 DEBUG FAST PATH Breaks on MAX PACKET %d, bufMgrLen(pBufMgr), IP_MAX_PA CRITICAL %02x, hk->kv_mic[i] DEBUG SAV CHECK FAILED IN ENCRYPTION CRITICAL %02x, hk->kv_txmic[i] DEBUG PRE: proto: %u srcip:%u.%u.%u.%u.%u.%u sport :%u dstip: %u.%u.%u.%u.%u.%u CRITICAL %02x, hk->kv_txmic[i] DEBUG %u, PRE: proto: %u srcip:%u.%u.%u.%u.%u CRITICAL %02x, hk->kv_txmic[i] DEBUG %u, Sport :%u dstip: %u.%u.%u.%u.%u.%u CRITICAL Cannot support setting tx and rx keys individually DEBUG Clearing the ISR %p,p CRITICAL PROTO: %d w.w.w.wu.wu.wu.wu.wu.wu.wu.wu.wu.wu.wu.w	mac %02x-%02x-%02x-%02x-%02x-%02x-		FAST PATH Breaks on MTU %d %d	
Inter(P), Inter(S) DEBUG (pD31*PATH Breaks on MAX PACKET %d SITPATH Breaks on MAX PACKET %d mac 00-00-00-00-00 DEBUG FAST PATH Breaks on MAX PACKET %d CRITICAL %02x, hk->kv_mic[i] DEBUG SAV CHECK FAILED IN ENCRYPTION CRITICAL %02x, hk->kv_mic[i] DEBUG ENCRYPTION CRITICAL %02x, hk->kv_txmic[i] DEBUG PRE: proto: %u srcip:%u.%u.%u.%u.%u sport :%u dstip: %u.%u.%u.%u.%u.%u CRITICAL %02x, hk->kv_txmic[i] DEBUG VGEUG %u, sport :%u dstip: %u.%u.%u.%u.%u.%u CRITICAL %02x, hk->kv_txmic[i] DEBUG DEBUG Vere: proto: %u srcip:%u.%u.%u.%u.%u CRITICAL %02x, hk->kv_txmic[i] DEBUG DEBUG Wu, sport :%u dstip: %u.%u.%u.%u.%u.%u CRITICAL Ymax DEBUG DEBUG Clearing the ISR %p.p CRITICAL Ymax DEBUG Clearing the ISR %p.p CRITICAL Ymax DEBUG DEBUG SP-DONE: %p %p,sav,m CRITICAL %s: error - acw NULL. Possible attach failure, func_ DEBUG ESP-DONE: %p %p,sav,m CRITICAL %s: on omemory for ff attach, func_ DEBUG Bug in ip_route_input_slow(). CRITICAL	%02X, mac[0], mac[1], mac[2], mac[3], mac[4], mac[5]	DEBUG	(nDst->nath)	CRITICAL
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wide: prote: widestip: <		DEBOG	PRE: proto: %u srcip:%u %u %u %u	CRITICAL
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registration DEBUG :%p,sav CRITICAL registration DEBUG :%p,sav CRITICAL KERN_EMERG Initialzing Wps module DEBUG >ip_dst.s_addr CRITICAL KERN_EMERG Initialzing Wps module DEBUG >ip_dst.s_addr CRITICAL %s:%d %s,FILE,LINE, func DEBUG >header %d trailer %d,func,bufMgrLen(pBufMgr),mt w.st:%d %s,FILE,LINE, func DEBUG >header len.pDst->trailer len CRITICAL	KERN EMERG Returing error in INTR	DEBOG	AH: Assigning the secure flags for say	CINITICAL
KERN_EMERG Initialzing Wps module DEBUG ESP: Assigning the secure flags for sav :%p skb:%p src:%x dst:%x,sav,skb,ip->ip_src.s_addr,ip- KERN_EMERG Initialzing Wps module DEBUG >ip_dst.s_addr CRITICAL %s Buffer %d mtu %d path mtu %d header %d trailer %s Buffer %d mtu %d path mtu %d header %d trailer CRITICAL %s:%d %s,FILE_,LINE_, func DEBUG >header len.pDst->trailer len CRITICAL	registration	DEBUG	:%p.sav	CRITICAL
KERN_EMERG Initialzing Wps module DEBUG sav :%p skb:%p src:%x dst:%x,sav,skb,ip->ip_src.s_addr,ip- >ip_dst.s_addr CRITICAL KERN_EMERG Initialzing Wps module DEBUG >ip_dst.s_addr CRITICAL %s Buffer %d mtu %d path mtu %d header %d trailer %s Buffer %d mtu %d path mtu %d header %d trailer %d,func,bufMgrLen(pBufMgr),mt u,dst_mtu(pDst->path),pDst- CRITICAL %s:%d %s,FILE,LINE, func DEBUG >header len.pDst->trailer len CRITICAL			ESP: Assigning the secure flags for	
KERN_EMERG Initialzing Wps module DEBUG dst:%x,sav,skb,ip->ip_src.s_addr,ip- >ip_dst.s_addr CRITICAL KERN_EMERG Initialzing Wps module DEBUG %s Buffer %d mtu %d path mtu %d header %d trailer %s Buffer %d mtu %d path mtu %d header %d trailer %s Suffer %d mtu %d path mtu %d header %d trailer %s:%d %s,FILE,LINE, func DEBUG >header [en.pDst->path],pDst- header [en.pDst->trailer len CRITICAL			sav :%p skb:%p src:%x	
KERN_EMERG Initialzing Wps module DEBUG >ip_dst.s_addr CRITICAL %s Buffer %d mtu %d path mtu %d header %d trailer %s Buffer %d mtu %d path mtu %d header %d trailer %s:%d %s,FILE,LINE, u,dst_mtu(pDst->path),pDst- CRITICAL func DEBUG >header len.pDst->trailer len CRITICAL			dst:%x,sav,skb,ip->ip_src.s_addr,ip-	
%s:%d %s,FILE,LINE, funcDEBUGSBuffer %d mtu %d path mtu %d header %d trailer %d,func,bufMgrLen(pBufMgr),mt u,dst_mtu(pDst->path),pDst- DEBUGDebufCRITICAL	KERN_EMERG Initialzing Wps module	DEBUG	>ip_dst.s_addr	CRITICAL
%s:%d %s,FILE,LINE, Image: %d trailer %s:%d %s,FILE,LINE, u,dst_mtu(pDst->path),pDst- func DEBUG >header len.pDst->trailer			%s Buffer %d mtu %d path mtu %d	
%s:%d %s,FILE,LINE, func			neader %d traller	
func DEBUG >header len.pDst->trailer len CRITICAL	%s:%d %s Ell E LINE		udst_mtu(nDst-\nath) nDst-	
	func	DEBUG	>header len.pDst->trailer len	CRITICAL

Appendix E. RJ-45 Pin-outs

Signal	RJ-45 Cable	Adapter	Signal
	RJ-45 PIN	DB-9 PIN	
CTS	NC	NC	NC
DTR	NC	NC	NC
TxD	6	3	RxD
GND	5	5	GND
GND	4	5	GND
RxD	3	2	TxD
DSR	NC	NC	NC
RTS	NC	NC	NC

Appendix F. New Wi Fi Frequency table (New appendix section)

			Channel		
			supported in20	Channel sup	ported in 40
	Country		Mhz	Mhz	
				Upper side band	Lower side band
1)	Australia	2.4Ghz	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13	5, 6, 7, 8, 9, 10, 11, 12, 13	1, 2, 3, 4, 5, 6, 7, 8, 9
		5 Ghz	36, 40, 44, 48, 149, 153, 157, 161, 165	40, 48, 153, 161	36, 44, 149, 157
2)	Russia	2.4Ghz	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13	5, 6, 7, 8, 9, 10, 11, 12, 13	1, 2, 3, 4, 5, 6, 7, 8, 9
		5 Ghz	36, 40, 44, 48, 149, 153, 157, 161, 165	40, 48, 153, 161	36, 44, 149, 157
3)	Iceland	2.4Ghz	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13	5, 6, 7, 8, 9, 10, 11, 12, 13	1, 2, 3, 4, 5, 6, 7, 8, 9
		5 Ghz	36, 40, 44, 48	40, 48	36,44
4)	Singapore	2.4Ghz	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13	5, 6, 7, 8, 9, 10, 11, 12, 13	1, 2, 3, 4, 5, 6, 7, 8, 9
		5 Ghz	36, 40, 44, 48	40, 48	36,44
5)	Sweden	2.4Ghz	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13	5, 6, 7, 8, 9, 10, 11, 12, 13	1, 2, 3, 4, 5, 6, 7, 8, 9
		5 Ghz	36, 40, 44, 48	40, 48	36,44
6)	Taiwan	2.4Ghz	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11	5, 6, 7, 8, 9, 10, 11	1, 2, 3, 4, 5, 6, 7
		5 Ghz	56, 60, 64, 149, 153, 157, 161, 165	64, 153, 161	60, 149, 157
7)	Finland	2.4Ghz	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13	5, 6, 7, 8, 9, 10, 11, 12, 13	1, 2, 3, 4, 5, 6, 7, 8, 9
		5 Ghz	36, 40, 44, 48	40, 48	36,44
8)	Slovenia	2.4Ghz	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13	5, 6, 7, 8, 9, 10, 11, 12, 13	1, 2, 3, 4, 5, 6, 7, 8, 9
		5 Ghz	36, 40, 44, 48	40, 48	36,44
9)	Ireland	2.4Ghz	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13	5, 6, 7, 8, 9, 10, 11, 12, 13	1, 2, 3, 4, 5, 6, 7, 8, 9
		5 Ghz	36, 40, 44, 48	40, 48	36,44
10)	United states	2.4Ghz	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11	5, 6, 7, 8, 9, 10, 11	1, 2, 3, 4, 5, 6, 7
		5 Ghz	36, 40, 44, 48, 149, 153, 157, 161, 165	40, 48, 153, 161	36, 44, 149, 157
11)	Latin America	2.4Ghz	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13	5, 6, 7, 8, 9, 10, 11, 12, 13	1, 2, 3, 4, 5, 6, 7, 8, 9

		5 Ghz	36, 40, 44, 48, 149, 153, 157, 161, 165	40, 48, 153, 161	36, 44, 149, 157
12)	Denmark	2.4Ghz	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13	5, 6, 7, 8, 9, 10, 11, 12, 13	1, 2, 3, 4, 5, 6, 7, 8, 9
		5 Ghz	36, 40, 44, 48	40, 48	36,44
13)	Germany	2.4Ghz	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13	5, 6, 7, 8, 9, 10, 11, 12, 13	1, 2, 3, 4, 5, 6, 7, 8, 9
		5 Ghz	36, 40, 44, 48	40, 48	36,44
14)	Netherlands	2.4Ghz	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13	5, 6, 7, 8, 9, 10, 11, 12, 13	1, 2, 3, 4, 5, 6, 7, 8, 9
		5 Ghz	36, 40, 44, 48	40, 48	36,44
15)	Norway	2.4Ghz	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13	5, 6, 7, 8, 9, 10, 11, 12, 13	1, 2, 3, 4, 5, 6, 7, 8, 9
		5 Ghz	36, 40, 44, 48	40, 48	36, 44
16)	Poland	2.4Ghz	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13	5, 6, 7, 8, 9, 10, 11, 12, 13	1, 2, 3, 4, 5, 6, 7, 8, 9
		5 Ghz	36, 40, 44, 48	40, 48	36,44
17)	Luxembour g	2.4Ghz	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13	5, 6, 7, 8, 9, 10, 11, 12, 13	1, 2, 3, 4, 5, 6, 7, 8, 9
		5 Ghz	36, 40, 44, 48	40, 48	36,44
18)	South Africa	2.4Ghz	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13	5, 6, 7, 8, 9, 10, 11, 12, 13	1, 2, 3, 4, 5, 6, 7, 8, 9
		5 Ghz	36, 40, 44, 48	40, 48	36,44
19)	United Kingdom	2.4Ghz	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13	5, 6, 7, 8, 9, 10, 11, 12, 13	1, 2, 3, 4, 5, 6, 7, 8, 9
		5 Ghz	36, 40, 44, 48	40, 48	36,44
20)	Ireland	2.4Ghz	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13	5, 6, 7, 8, 9, 10, 11, 12, 13	1, 2, 3, 4, 5, 6, 7, 8, 9
		5 Ghz	36, 40, 44, 48	40, 48	36,44
21)	France	2.4Ghz	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13	5, 6, 7, 8, 9, 10, 11, 12, 13	1, 2, 3, 4, 5, 6, 7, 8, 9
		5 Ghz	36, 40, 44, 48	40, 48	36,44
22)	Israel	2.4Ghz	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13	5, 6, 7, 8, 9, 10, 11, 12, 13	1, 2, 3, 4, 5, 6, 7, 8, 9
		5 Ghz	36, 40, 44, 48	40, 48	36,44
23)	Korea	2.4Ghz	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13	5, 6, 7, 8, 9, 10, 11, 12, 13	1, 2, 3, 4, 5, 6, 7, 8, 9
		5 Ghz	36, 40, 44, 48, 149, 153, 157, 161	40, 48, 153, 161	36, 44, 149, 157
24)	Japan	2.4Ghz	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13	5, 6, 7, 8, 9, 10, 11, 12, 13	1, 2, 3, 4, 5, 6, 7, 8, 9
		5 Ghz	36, 40, 44, 48	40, 48	36,44
25)	Egypt	2.4Ghz	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13	5, 6, 7, 8, 9, 10, 11, 12, 13	1, 2, 3, 4, 5, 6, 7, 8, 9

			36, 40, 44, 48, 52, 56,		
		5 Ghz	60, 64	40, 48, 56, 64	36, 44, 52, 60
26)	Brazil	2.4Ghz	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11,12,13	5, 6, 7, 8, 9, 10, 11,12,13	1, 2, 3, 4, 5, 6, 7,8,9
		5 Ghz	36, 40, 44, 48, 149, 153, 157, 161, 165	40, 48, 153, 161	36, 44, 149, 157
27)	Canada	2.4Ghz	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11	5, 6, 7, 8, 9, 10, 11	1, 2, 3, 4, 5, 6, 7
		5 Ghz	36, 40, 44, 48, 149, 153, 157, 161, 165	40, 48, 153, 161	36, 44, 149, 157
28)	China	2.4Ghz	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13	5, 6, 7, 8, 9, 10, 11, 12, 13	1, 2, 3, 4, 5, 6, 7, 8, 9
		5 Ghz	36, 40, 44, 48, 149, 153, 157, 161, 165	40, 48, 153, 161	36, 44, 149, 157

Appendix G. Product Statement

<u>1. DSR-1000N</u>

Federal Communications Commission (FCC) Compliance Notice: Radio Frequency Notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1) This device may not cause harmful interference, and
- 2) This device must accept any interference received, including interference that may cause undesired operation.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The antennas used for this transmitter must be installed to provide a spectrum distance of at least 20cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

This transmitter is restricted to indoor use in the 5150MHz to 5250MHz frequency range.

Non-modification Statement

Use only the integral antenna supplied by the manufacturer when operating this device. Unauthorized antennas, modifications, or attachments could damage the TI Navigator access point and violate FCC regulations. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Canadian Department of Communications Industry Canada (IC) Notice

This Class B digital apparatus complies with Canadian ICES-003 and RSS-210. Cet appareil numérique de la classe B est conforme à la norme NMB-003 et CNR-210 du Canada.

ndustry Canada Statement

This device complies with RSS-210 of the Industry Canada Rules. Operation is subject to the following two conditions:

- 1) This device may not cause harmful interference, and
- 2) This device must accept any interference received, including interference that may cause undesired operation.

IMPORTANT NOTE: Radiation Exposure Statement

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. End users

must follow the specific operating instructions for satisfying RF exposure compliance. To maintain compliance with IC RF exposure compliance requirements, please follow operation instruction as documented in this manual.

This transmitter is restricted to indoor use in the 5150MHz to 5250MHz frequency range.

Europe – EU Declaration of Conformity

This device complies with the essential requirements of the R&TTE Directive 1999/5/EC. The following test methods have been applied in order to prove presumption of conformity with the essential requirements of the R&TTE Directive 1999/5/EC:

- EN 60950-1: 2006+A11:2009 Safety of information technology equipment

- EN 300 328 V1.7.1 (2006-10)

Electromagnetic compatibility and Radio spectrum Matters (ERM); Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques; Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive

- EN 301 893-1 V1.5.1 (2008-12) Broadband Radio Access Networks (BRAN); 5 GHz high performance RLAN; Harmonized EN covering essential requirements of article 3.2 of the R&TTE Directive

- EN 301 489-17 V1.3.2 (2008-04) and EN 301 489-1 V1.8.1 (2008-04) Electromagnetic compatibility and Radio spectrum Matters (ERM); Electro Magnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for 2,4 GHz wideband transmission systems and 5 GHz high performance RLAN equipment

This device is a 2.4 GHz wideband transmission system (transceiver), intended for use in all EU member states and EFTA countries under the following conditions and/or with the following restrictions:

- In Italy the end-user should apply for a license at the national spectrum authorities in order to obtain authorization to use the device for setting up outdoor radio links and/or for supplying public access to telecommunications and/or network services.

- This device may not be used for setting up outdoor radio links in France and in some areas the RF output power may be limited to 10 mW EIRP in the frequency range of 2454 – 2483.5 MHz. For detailed information the enduser should contact the national spectrum authority in France.

This device is a 5 GHz wideband transmission system (transceiver), intended for use in all EU member states and EFTA countries under the following conditions and/or with the following restrictions:

- This device may only be used indoors in the frequency bands 5150 – 5250 MHz.

- In France and Luxembourg a limited implementation of the frequency bands 5150 – 5250 MHz and 5250 – 5350 MHz. In Luxermbourg it is not allowed to make use of the frequency band 5470 – 5725 MHz. End-users are encouraged to contact the national spectrum authorities in France and Luxembourg in order to obtain the latest information about any restrictions in the 5 GHz frequency band(s).



دة Česky [Czech]	[D-Link Corporation] tímto prohlašuje, že tento [DSR-1000N] je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnice 1999/5/ES.
da Dansk [Danish]	Undertegnede [D-Link Corporation] erklærer herved, at følgende udstyr [DSR-1000N] overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF.
de Deutsch [German]	Hiermit erklärt [D-Link Corporation], dass sich das Gerät [DSR-1000N] in Übereinstimmung mit den grundlegenden Anforderungen und den übrigen einschlägigen Bestimmungen der Richtlinie 1999/5/EG befindet.
et Eesti [Estonian]	Käesolevaga kinnitab [D-Link Corporation] seadme [DSR-1000N] vastavust direktiivi 1999/5/EÜ põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.
en English	Hereby, [D-Link Corporation], declares that this [DSR-1000N] is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.
es Español [Spanish]	Por medio de la presente [D-Link Corporation] declara que el [DSR-1000N] cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE.
ા Ελληνική [Greek]	ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ [D-Link Corporation] ΔΗΛΩΝΕΙ ΟΤΙ [DSR-1000N] ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1999/5/ΕΚ.
fr Français [French]	Par la présente [D-Link Corporation] déclare que l'appareil [DSR-1000N] est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE.
it Italiano [Italian]	Con la presente [D-Link Corporation] dichiara che questo [DSR-1000N] è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.
Latviski [Latvian]	Ar šo [D-Link Corporation] deklarē, ka [DSR-1000N] atbilst Direktīvas 1999/5/EK būtiskajām prasībām un citiem ar to saistītajiem noteikumiem.
It Lietuvių [Lithuanian]	Šiuo [D-Link Corporation] deklaruoja, kad šis [DSR-1000N] atitinka esminius reikalavimus ir kitas 1999/5/EB Direktyvos nuostatas.
nl Nederlands [Dutch]	Hierbij verklaart [D-Link Corporation] dat het toestel [DSR-1000N] in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG.
mt Malti [Maltese]	Hawnhekk, [D-Link Corporation], jiddikjara li dan [DSR-1000N] jikkonforma mal-ħtiġijiet essenzjali u ma provvedimenti oħrajn relevanti li hemm fid-Dirrettiva 1999/5/EC.
hu Magyar [Hungarian]	Alulírott, [D-Link Corporation] nyilatkozom, hogy a [DSR-1000N] megfelel a vonatkozó alapvető követelményeknek és az 1999/5/EC irányelv egyéb előírásainak.
Polski [Polish]	Niniejszym [D-Link Corporation] oświadcza, że [DSR-1000N] jest zgodny z zasadniczymi wymogami oraz pozostałymi stosownymi postanowieniami Dyrektywy 1999/5/EC.

pt Português [Portuguese]	[D-Link Corporation] declara que este [DSR-1000N]está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE.
डा Slovensko [Slovenian]	[D-Link Corporation] izjavlja, da je ta [DSR-1000N] v skladu z bistvenimi zahtevami in ostalimi relevantnimi določili direktive 1999/5/ES.
<u>sk</u> Slovensky [Slovak]	[D-Link Corporation] týmto vyhlasuje, že [DSR-1000N] spĺňa základné požiadavky a všetky príslušné ustanovenia Smernice 1999/5/ES.
fi Suomi [Finnish]	[D-Link Corporation] vakuuttaa täten että [DSR-1000N] tyyppinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.
Svenska [Swedish]	Härmed intygar [D-Link Corporation] att denna [DSR-1000N] står I överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG.

2.DSR-500N

Federal Communications Commission (FCC) Compliance Notice: Radio Frequency Notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1) This device may not cause harmful interference, and
- 2) This device must accept any interference received, including interference that may cause undesired operation.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The antennas used for this transmitter must be installed to provide a spectrum distance of at least 20cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

This transmitter is restricted to indoor use in the 5150MHz to 5250MHz frequency range.

Non-modification Statement

Use only the integral antenna supplied by the manufacturer when operating this device. Unauthorized antennas, modifications, or attachments could damage the TI Navigator access point and violate FCC regulations. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Canadian Department of Communications Industry Canada (IC) Notice

This Class B digital apparatus complies with Canadian ICES-003 and RSS-210. Cet appareil numérique de la classe B est conforme à la norme NMB-003 et CNR-210 du Canada.

Industry Canada Statement

This device complies with RSS-210 of the Industry Canada Rules. Operation is subject to the following two conditions:

- 1) This device may not cause harmful interference, and
- 2) This device must accept any interference received, including interference that may cause undesired operation.

IMPORTANT NOTE: Radiation Exposure Statement

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. To maintain compliance with IC RF exposure compliance requirements, please follow operation instruction as documented in this manual.

Europe – EU Declaration of Conformity

This device complies with the essential requirements of the R&TTE Directive 1999/5/EC. The following test methods have been applied in order to prove presumption of conformity with the essential requirements of the R&TTE Directive 1999/5/EC:

- EN 60950-1: 2006+A11:2009 Safety of information technology equipment
- EN 300 328 V1.7.1 (2006-10)

Electromagnetic compatibility and Radio spectrum Matters (ERM); Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques; Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive

- EN 301 489-17 V1.3.2 (2008-04) and EN 301 489-1 V1.8.1 (2008-04) Electromagnetic compatibility and Radio spectrum Matters (ERM); Electro Magnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for 2,4 GHz wideband transmission systems and 5 GHz high performance RLAN equipment

This device is a 2.4 GHz wideband transmission system (transceiver), intended for use in all EU member states and EFTA countries under the following conditions and/or with the following restrictions:

- In Italy the end-user should apply for a license at the national spectrum authorities in order to obtain authorization to use the device for setting up outdoor radio links and/or for supplying public access to telecommunications and/or network services.
- This device may not be used for setting up outdoor radio links in France and in some areas the RF output power may be limited to 10 mW EIRP in the frequency range of 2454 2483.5 MHz. For detailed information the enduser should contact the national spectrum authority in France.



دةČesky [Czech]	[D-Link Corporation] tímto prohlašuje, že tento [DSR-500N] je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnice 1999/5/ES.
वि Dansk [Danish]	Undertegnede [D-Link Corporation] erklærer herved, at følgende udstyr [DSR-500N] overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF.
de Deutsch [German]	Hiermit erklärt [D-Link Corporation], dass sich das Gerät [DSR-500N] in Übereinstimmung mit den grundlegenden Anforderungen und den übrigen einschlägigen Bestimmungen der Richtlinie 1999/5/EG befindet.
et Eesti [Estonian]	Käesolevaga kinnitab [D-Link Corporation] seadme [DSR-500N] vastavust direktiivi 1999/5/EÜ põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.
en English	Hereby, [D-Link Corporation], declares that this [DSR-500N] is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.
es Español [Spanish]	Por medio de la presente [D-Link Corporation] declara que el [DSR-500N] cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE.
<u>el</u> Ελληνική [Greek]	ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ [D-Link Corporation] ΔΗΛΩΝΕΙ ΟΤΙ [DSR-500N] ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1999/5/ΕΚ.
fr Français [French]	Par la présente [D-Link Corporation] déclare que l'appareil [DSR-500N] est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE.
it Italiano [Italian]	Con la presente [D-Link Corporation] dichiara che questo [DSR-500N] è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.
Latviski [Latvian]	Ar šo [D-Link Corporation] deklarē, ka [DSR-500N] atbilst Direktīvas 1999/5/EK būtiskajām prasībām un citiem ar to saistītajiem noteikumiem.
It Lietuvių [Lithuanian]	Šiuo [D-Link Corporation] deklaruoja, kad šis [DSR-500N] atitinka esminius reikalavimus ir kitas 1999/5/EB Direktyvos nuostatas.
^[nl] Nederlands [Dutch]	Hierbij verklaart [D-Link Corporation] dat het toestel [DSR-500N] in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG.
Malti [Maltese]	Hawnhekk, [D-Link Corporation], jiddikjara li dan [DSR-500N] jikkonforma mal-ħtiġijiet essenzjali u ma provvedimenti oħrajn relevanti li hemm fid-Dirrettiva 1999/5/EC.
hu Magyar [Hungarian]	Alulírott, [D-Link Corporation] nyilatkozom, hogy a [DSR-500N] megfelel a vonatkozó alapvető követelményeknek és az 1999/5/EC irányelv egyéb előírásainak.
민 Polski [Polish]	Niniejszym [D-Link Corporation] oświadcza, że [DSR-500N] jest zgodny z zasadniczymi wymogami oraz pozostałymi stosownymi postanowieniami Dyrektywy 1999/5/EC.

pt Português [Portuguese]	[D-Link Corporation] declara que este [DSR-500N]está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE.
्रा Slovensko [Slovenian]	[D-Link Corporation] izjavlja, da je ta [DSR-500N] v skladu z bistvenimi zahtevami in ostalimi relevantnimi določili direktive 1999/5/ES.
<u>sk</u> Slovensky [Slovak]	[D-Link Corporation] týmto vyhlasuje, že [DSR-500N] spĺňa základné požiadavky a všetky príslušné ustanovenia Smernice 1999/5/ES.
fi Suomi [Finnish]	[D-Link Corporation] vakuuttaa täten että [DSR-500N] tyyppinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.
Svenska [Swedish]	Härmed intygar [D-Link Corporation] att denna [DSR-500N] står I överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG.

3.DSR-250N

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution:

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

RSS-GEN 7.1.4:

User Manual for Transmitters with Detachable Antennas

The user manual of transmitter devices equipped with detachable antennas shall contain the following information in a conspicuous location:

This device has been designed to operate with the antennas listed below, and having a maximum gain of [1.8] dB. Antennas not included in this list or having a gain greater than [1.8] dB are strictly prohibited for use with this device. The required antenna impedance is [50] ohms.

RSS-GEN 7.1.5

To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that permitted for successful communication.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en comSpromettre le fonctionnement.

CE0984①

Is herewith confirmed to comply with the requirements set out in the Council Directive on the Approximation of the Laws of the Member States relating to Electromagnetic Compatibility (2004/108/EC), Low-voltage Directive (2006/95/EC), the procedures given in European Council Directive 99/5/EC and 2004/104/EC.

The equipment was passed. The test was performed according to the following European standards: EN 300 328 V.1.7.1 EN 301 489-1 V.1. 8.1 / EN 301 489-17 V.2.1.1 EN 62311 EN 60950-1

Regulatory statement (R&TTE)

European standards dictate maximum radiated transmit power of 100mW EIRP and frequency range 2.400-2.4835GHz; In France, the equipment must be restricted to the 2.4465-2.4835GHz frequency range and must be restricted to indoor use.

Operation of this device is subjected to the following National regulations and may be prohibited to use if certain restriction should be applied.

D=0.020m is the minimum safety distance between the EUT and human body when the E-Field strength is 61V/m.

NCC Warning Statement

Article 12

Without permission, any company, firm or user shall not alter the frequency, increase the power, or change the characteristics and functions of the original design of the certified lower power frequency electric machinery.

Article 14

The application of low power frequency electric machineries shall not affect the navigation safety nor interfere a legal communication, if an interference is found, the service will be suspended until improvement is made and the interference no longer exists.

4. DSR-150N

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution:

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and

(2) this device must accept any interference received, including interference that may cause undesired operation.

IMPORTANT NOTE:

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. The availability of some specific channels and/or operational frequency bands are country dependent and are firmware programmed at the factory to match the intended destination. The firmware setting is not accessible by the end user.

<u>Note</u>: The country code selection is for non-US model only and is not available to all US model. Per FCC regulation, all WiFi product marketed in US must fixed to US operation channels only..

Europe – EU Declaration of Conformity

This device complies with the essential requirements of the R&TTE Directive 1999/5/EC. The following test methods have been applied in order to prove presumption of conformity with the essential requirements of the R&TTE Directive 1999/5/EC:

EN 60950-1:

Safety of Information Technology Equipment

EN50385 : (2002-08)

Product standard to demonstrate the compliance of radio base stations and fixed terminal stations for wireless telecommunication systems with the basic restrictions or the reference levels related to human exposure to radio frequency electromagnetic fields (110MHz - 40 GHz) - General public

EN 300 328 V1.7.1: (2006-10)

Electromagnetic compatibility and Radio spectrum Matters (ERM); Wideband Transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using spread spectrum modulation techniques; Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive

EN 301 489-1 V1.8.1: (2008-04)

Electromagnetic compatibility and Radio Spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-17 V2.1.1 (2009-05)

Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment; Part 17: Specific conditions for Broadband Data Transmission Systems

This device is a 2.4 GHz wideband transmission system (transceiver), intended for use in all EU member states and EFTA countries, except in France and Italy where restrictive use applies.

In Italy the end-user should apply for a license at the national spectrum authorities in order to obtain authorization to use the device for setting up outdoor radio links and/or for supplying public access to telecommunications and/or network services.

This device may not be used for setting up outdoor radio links in France and in some areas the RF output power may be limited to 10 mW EIRP in the frequency range of 2454 – 2483.5 MHz. For detailed information the end-user should contact the national spectrum authority in France.

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岱Česky [Czech]	[Jméno výrobce] tímto prohlašuje, že tento [typ zařízení] je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnice 1999/5/ES.
ੀa Dansk [Danish]	Undertegnede [fabrikantens navn] erklærer herved, at følgende udstyr [udstyrets typebetegnelse] overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF.
de Deutsch [German]	Hiermit erklärt [Name des Herstellers], dass sich das Gerät [Gerätetyp] in Übereinstimmung mit den grundlegenden Anforderungen und den übrigen einschlägigen Bestimmungen der Richtlinie 1999/5/EG befindet.
et Eesti [Estonian]	Käesolevaga kinnitab [tootja nimi = name of manufacturer] seadme [seadme tüüp = type of equipment] vastavust direktiivi 1999/5/EÜ põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.
en English	Hereby, [name of manufacturer], declares that this [type of equipment] is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.
≝ Español [Spanish]	Por medio de la presente [nombre del fabricante] declara que el [clase de equipo] cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE.
ા Ελληνική [Greek]	ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ [name of manufacturer] ΔΗΛΩΝΕΙ ΟΤΙ [type of equipment] ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1999/5/ΕΚ.
fr Français [French]	Par la présente [nom du fabricant] déclare que l'appareil [type d'appareil] est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE.
it Italiano [Italian]	Con la presente [nome del costruttore] dichiara che questo [tipo di apparecchio] è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.
Latviski [Latvian]	Ar šo [name of manufacturer / izgatavotāja nosaukums] deklarē, ka [type of equipment / iekārtas tips] atbilst Direktīvas 1999/5/EK būtiskajām prasībām un citiem ar to saistītajiem noteikumiem.
Lietuvių [Lithuanian]	Šiuo [manufacturer name] deklaruoja, kad šis [equipment type] atitinka esminius reikalavimus ir kitas 1999/5/EB Direktyvos nuostatas.
nl Nederlands [Dutch]	Hierbij verklaart [naam van de fabrikant] dat het toestel [type van toestel] in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG.
Malti [Maltese]	Hawnhekk, [isem tal-manifattur], jiddikjara li dan [il-mudel tal-prodott] jikkonforma mal- ħtiģijiet essenzjali u ma provvedimenti oħrajn relevanti li hemm fid-Dirrettiva 1999/5/EC.

hu Magyar [Hungarian]	Alulírott, [gyártó neve] nyilatkozom, hogy a [típus] megfelel a vonatkozó alapvető követelményeknek és az 1999/5/EC irányelv egyéb előírásainak.
면 Polski [Polish]	Niniejszym [nazwa producenta] oświadcza, że [nazwa wyrobu] jest zgodny z zasadniczymi wymogami oraz pozostałymi stosownymi postanowieniami Dyrektywy 1999/5/EC.
Português [Portuguese]	[Nome do fabricante] declara que este [tipo de equipamento] está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE.
া Slovensko [Slovenian]	[Ime proizvajalca] izjavlja, da je ta [tip opreme] v skladu z bistvenimi zahtevami in ostalimi relevantnimi določili direktive 1999/5/ES.
Slovensky [Slovak]	[Meno výrobcu] týmto vyhlasuje, že [typ zariadenia] spĺňa základné požiadavky a všetky príslušné ustanovenia Smernice 1999/5/ES.
fi]Suomi [Finnish]	[Valmistaja = manufacturer] vakuuttaa täten että [type of equipment = laitteen tyyppimerkintä] tyyppinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.
Svenska [Swedish]	Härmed intygar [företag] att denna [utrustningstyp] står I överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG.

Industry Canada statement:

This device complies with RSS-210 of the Industry Canada Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and

(2) This device must accept any interference received, including interference that may cause undesired operation.

Ce dispositif est conforme à la norme CNR-210 d'Industrie Canada applicable aux appareils radio exempts de licence. Son fonctionnement est sujet aux deux conditions suivantes: (1) le dispositif ne doit pas produire de brouillage préjudiciable, et (2) ce dispositif doit accepter tout brouillage reçu, y compris un brouillage susceptible de provoquer un fonctionnement indésirable.

Radiation Exposure Statement:

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Déclaration d'exposition aux radiations:

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.

Wall-Mount Option

The Router has four wall-mount slots on its bottom panel.

Before you begin, make sure you have two screws that are size #4 - this indicates a diameter measurement of 0.112inches (2.845mm).

- 1. Determine where you want to mount the Router.
- 2. Drill two holes into the wall. Make sure adjacent holes are 2.36 inches (60mm) apart.
- 3. Insert a screw into each hole, and leave 0.2inches (5mm) of its head exposed.
- 4. Maneuver the Router so the wall-mount slots line up with the two screws.

5. Place the wall-mount slots over the screws and slide the Router down until the screws fit snugly into the wall-mount slots.