



# ADHIYAMAAN COLLEGE OF ENGINEERING (Autonomous)

Affiliated to Anna University – Chennai & Approved by AICTE – New Delhi.  
Accredited by NAAC & NBA - UGC, New Delhi

## Firewall

The institution has installed Sonicwall NSA4600 Model firewall to protect / manage the following.

- To protect gateway spam ware virus
- Routing Management
- VLan Management
- VPN Management
- Bandwidth Management
- Policy is used to control the website access
- Log file is used to monitor the users.





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## VLAN Management

The screenshot displays the D-Link web management interface for a DGS-3627 switch. The interface includes a navigation menu on the left with categories like Administration, L2 Features, L3 Features, and Security. The main content area shows the 'Current Static VLAN Entries' table, which lists 14 VLANs with their respective IDs, names, and port ranges. Each entry has 'Enabled' status and 'Modify' and 'Delete' options. An 'Add' button is located above the table. The interface also features a 'Refresh Interval' set to 30 seconds and a 'D-Link' logo with the tagline 'Building Networks for People'.

VID	VLAN Name	Ports	Advertisement	Modify	Delete
1	default	1-27	Enabled	Modify	X
101	internet	1	Enabled	Modify	X
102	dhcp	22	Enabled	Modify	X
103	ece	3	Enabled	Modify	X
104	eee	4	Enabled	Modify	X
105	accounts	5	Enabled	Modify	X
106	mba	6	Enabled	Modify	X
107	itnew	7	Enabled	Modify	X
108	cad	8	Enabled	Modify	X
109	csenew	9	Enabled	Modify	X
110	cseold	10	Enabled	Modify	X
111	mgr	11	Enabled	Modify	X
112	netroom	12	Enabled	Modify	X
113	common	13	Enabled	Modify	X
114	civil	14	Enabled	Modify	X



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## IP Mangement

The screenshot displays the D-Link web management interface for a DGS-3627 switch. The interface includes a navigation menu on the left, a top status bar, and a main content area. The main content area shows the IPv4 Interface Settings table, which lists 21 entries. The table has columns for Interface Name, IP Address, Subnet Mask, VLAN Name, Secondary, Proxy ARP, Proxy Local ARP, Active, Modify, and Delete. The entries are as follows:

Interface Name	IP Address	Subnet Mask	VLAN Name	Secondary	Proxy ARP	Proxy Local ARP	Active	Modify	Delete
cad	192.168.39.254	255.255.255.0	cad	False	Enabled	Disabled	Enabled	Modify	X
coe	192.168.51.254	255.255.255.0	coe	False	Enabled	Disabled	Enabled	Modify	X
ece	192.168.34.254	255.255.255.0	ece	False	Enabled	Disabled	Enabled	Modify	X
eee	192.168.35.254	255.255.255.0	eee	False	Enabled	Disabled	Enabled	Modify	X
mba	192.168.37.254	255.255.255.0	mba	False	Enabled	Disabled	Enabled	Modify	X
mca	192.168.44.254	255.255.255.0	mca	False	Enabled	Disabled	Enabled	Modify	X
mgr	192.168.48.254	255.255.255.0	mgr	False	Enabled	Disabled	Enabled	Modify	X
tbi	192.168.53.254	255.255.255.0	tbi	False	Enabled	Disabled	Enabled	Modify	X
dhcp	192.168.33.254	255.255.255.0	dhcp	False	Enabled	Disabled	Enabled	Modify	X
civil	192.168.52.254	255.255.255.0	civil	False	Enabled	Disabled	Enabled	Modify	X
itnew	192.168.38.254	255.255.255.0	itnew	False	Enabled	Disabled	Enabled	Modify	X
System	10.90.90.90	255.0.0.0	default	False	Enabled	Disabled	Enabled	Modify	X
common	192.168.47.254	255.255.255.0	common	False	Enabled	Disabled	Enabled	Modify	X
csenev	192.168.40.254	255.255.255.0	csenev	False	Enabled	Disabled	Enabled	Modify	X



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## Firewall Content Filter

The screenshot displays the 'Edit CFS Profile Object' web interface in Mozilla Firefox. The browser address bar shows the URL: `https://192.168.42.111/addCfsProfileObjDlg.html#`. The interface is divided into several sections:

- General Configuration:** The 'Name' field is set to 'CFS Default Profile'.
- URI List Configuration:**
  - Allowed URI List: None
  - Forbidden URI List: Forbidden/Keywords/File Extensio
  - URI List Searching Order: Allowed URI List First
  - Operation for Forbidden URI List: Block
- Category Configuration:** A table with 9 categories, each with a 'Block' operation selected.

#	Category	Operation
1.	Violence/Hate/Racism	Block
2.	Intimate Apparel/Swimsuit	Block
3.	Nudism	Block
4.	Pornography	Block
5.	Weapons	Block
6.	Adult/Mature Content	Block
7.	Cult/Occult	Block
8.	Drugs/Illegal Drugs	Block
9.	Illegal Skills/Questionable Skills	Block

At the bottom of the configuration area, there are buttons for 'Operation: Allow', 'Set to All', and 'Default'. The status bar at the bottom left shows 'Ready'. An 'Activate Windows' watermark is visible in the bottom right corner.



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## Firewall Report (Bandwidth Usage by IP address)

The screenshot displays the SonicWall Network Security Appliance administration interface. The main content area shows a report titled "Bandwidth Usage by IP Address". The report includes a table with the following data:

Rank	Address	Sent/Received Data
1	192.168.38.98	32 GBytes
2	192.168.41.143	8 GBytes
3	192.168.47.131	6 GBytes
4	192.168.38.122	6 GBytes
5	192.168.40.102	4 GBytes
6	192.168.35.11	3 GBytes
7	192.168.40.5	2 GBytes
8	192.168.38.84	1 GBytes
9	192.168.52.170	1 GBytes
10	192.168.34.123	1 GBytes
11	192.168.37.151	1 GBytes
12	192.168.39.211	1 GBytes
13	192.168.44.166	1 GBytes
14	192.168.38.46	1 GBytes

The interface also shows a sidebar with navigation options like Dashboard, System, Network, Switching, 3G/4G/Modem, SonicPoint, Firewall, Firewall Settings, DPI-SSL, DPI-SSH, Capture ATP, VoIP, Anti-Spam, VPN, SSL VPN, Virtual Assist, Users, High Availability, Security Services, WAN Acceleration, and AppFlow. The status bar at the bottom indicates "Status: There were no changes made."

## Firewall Report (Bandwidth Usage by Service)



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The screenshot displays the SonicWall Administration interface in a web browser. The page title is "SONICWALL Network Security Appliance". The left sidebar contains a navigation menu with categories like Dashboard, System, Network, Switching, 3G/4G/Modem, SonicPoint, Firewall, Firewall Settings, DPI-SSL, DPI-SSH, Capture ATP, VoIP, Anti-Spam, VPN, SSL\_VPN, Virtual Assist, Users, High Availability, Security Services, WAN Acceleration, and AppFlow. The main content area is titled "View Data" and shows a report for "Bandwidth Usage by Service". The report includes a table with columns for Rank, Service, and Sent/Received Data. The data is as follows:

Rank	Service	Sent/Received Data
1	NFS UDP (17,2049)	1 GBytes
2	UDP Port 443 (17,443)	763 MBytes
3	UDP Port 31746 (17,31746)	721 MBytes
4	TCP Port 10725 (6,10725)	636 MBytes
5	UDP Port 28085 (17,28085)	433 MBytes
6	UDP Port 62644 (17,62644)	376 MBytes
7	TCP Port 183 (6,183)	271 MBytes
8	UDP Port 29889 (17,29889)	247 MBytes
9	UDP Port 13538 (17,13538)	204 MBytes
10	UDP Port 2884 (17,2884)	198 MBytes
11	UDP Port 36323 (17,36323)	192 MBytes
12	UDP Port 46815 (17,46815)	192 MBytes
13	Tivo TCP Data (6,8080)	172 MBytes

At the bottom of the page, there is a status message: "Status: There were no changes made." and an "Activate Windows" watermark.