# Configuring ACLs on AMG (510/570)

An Access Control Lists "ACL" is a function that watches incoming and outgoing traffic and compares it with a set of defined statements.

Here is a guide on how to configure ACLs on AMG 510/570 switches via Web GUI and Command Line interface (CLI).

Web GUI

Step 1: On the left-hand side of the Web GUI, select Configuration > Security > Network > ACL > Access Control List
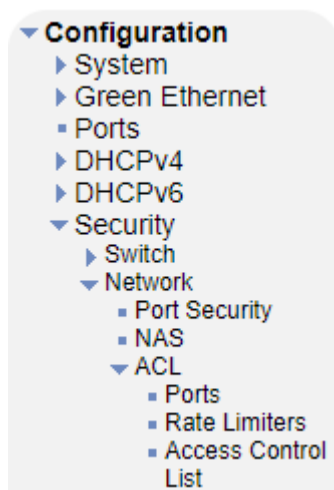
Step 2: Select the '+' symbol to add an access control list configuration.

Step 3: Select the port for which you want to apply an access list to and specify if you require a policy filter. You can also choose the frame type for filtering your access list. Select the 'Action' tab drop down to specify if you want your configuration to 'Permit', 'Deny' or 'Filter' the chosen 'Frame Type'. Choose if you would like the ACL for the specific port to be 'Rate Limited', 'Mirrored', 'Logged' or 'Shutdown' upon configuration.

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ACE Configuration

Ingress Port	All, Port 1, Port 2, Port 3, Port 4
Policy Filter	Any
Frame Type	Ethernet Type

Action	Permit
Rate Limiter	Disabled
Mirror	Disabled
Logging	Enabled
Shutdown	Disabled
Counter	0

Step 4: You can specify specific destination or source MAC address parameters for your access control list.

MAC Parameters

SMAC Filter	Specific
SMAC Value	00-00-00-00-00-01
DMAC Filter	Any

Step 5: Specify if you require any specific VLAN Parameters for your access control list.

VLAN Parameters

802.1Q Tagged	Any
VLAN ID Filter	Specific
VLAN ID	1
Tag Priority	Any

Step 6: Lastly, you can specify your 'Ethernet Type Parameters'. Once you have made your configurations. select 'Save'.
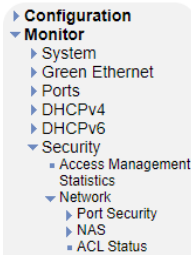
Ethernet Type Parameters

| EtherType Filter | Any |

Save   Reset   Cancel

Step 7: Your Access list configuration will show, you can choose to add another ACE configuration before or at the end of this configuration. Alternatively, you can edit or delete this configuration.

Access Control List Configuration

ACE	Ingress Port	Policy / Bitmask	Frame Type	Action	Rate Limiter	Port Redirect	Mirror	Counter	
1	1	Any	EType	Permit	Disabled	Disabled	Disabled	0	

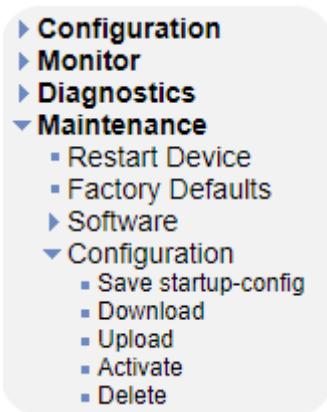**Step 8:** To verify your configuration, navigate on the left-hand side of the Web GUI to Monitor > Security > Network > ACL Status

▶ Configuration
▼ Monitor
  ▶ System
  ▶ Green Ethernet
  ▶ Ports
  ▶ DHCPv4
  ▶ DHCPv6
  ▼ Security
    ▪ Access Management
      Statistics
    ▼ Network
      ▶ Port Security
      ▶ NAS
      ▪ ACL Status

ACL Status

User	ACE	Frame Type	Action	Rate Limiter	Mirror	CPU	Counter	Conflict
IP	1	IPv4 DIP:224.0.0.1/32	Permit	Disabled	Disabled	Yes	0	No
static	1	EType	Permit	Disabled	Disabled	No	0	No

Step 9: To save your configuration to your startup configuration, on the left-hand side of the Web GUI, select Maintenance > Configuration > Save startup-config.

▶ **Configuration**
▶ **Monitor**
▶ **Diagnostics**
▼ **Maintenance**
  ▪ Restart Device
  ▪ Factory Defaults
  ▶ Software
  ▼ Configuration
    ▪ Save startup-config
    ▪ Download
    ▪ Upload
    ▪ Activate
    ▪ Delete

Command Line interface (CLI)

Step 1: Enter configuration mode on the command line interface by entering the command *"configure terminal"*.

Step 2: Enter the command *"access-list ace 1 ingress interface GigabitEthernet [PortNumber] frame-type [SpecificFrameType] smac [SourceMACAddress] logging"* and exit configuration mode by entering the command *"exit"*.

Step 3: To verify your configuration, enter the command *"show running-config".*

Step 4: To save your configuration to your startup configuration enter the command *"copy running-config startup-config"*.

Here is an example of an access list configuration in the command line interface:

```
access-list ace 1 ingress interface GigabitEthernet 1/1 frame-type etype smac 00
-00-00-00-00-01 logging
```