

**Alpha Bridge
Mac ACL and IP
ACL Test Case**

1. MAC STANDARD ACL & IP STANDARD ACL

Testcase	MAC STANDARD ACL AND IP STANDARD ACL
Procedure	<ol style="list-style-type: none"> 1. Connect PC to switch 2. Create standard IP ACL and Apply ACL on Interface, access the PC from switch 3. Create MAC standard ACL and Apply ACL on Interface, access the PC from switch. <div style="text-align: center;">  <p>Switch: ip Address 192.168.0.1/24</p> <p>PC: ip Address 192.168.0.100/24</p> </div>
Configuration	<p>Switch Configuration:</p> <pre> ip access-list standard test // create IP ACL named test deny 192.168.0.100 255.255.255.0 //Denies traffic from a specific source IP exit interface gigaEthernet 0/3 ip access-group test //applies ACL on interface 0/3 exit write mac access-list test2 // create MAC standard ACL named test deny 000E.0988.0F79 FFFF.FFFF. FFFF //Denies traffic from a specific MAC address exit interface gigaEthernet 0/3 mac access-group test2 //applies ACL on interface 0/3 exit write //to save configuration </pre>

<p>Test result</p>	<p>Before apply IP ACL,ping 192.168.0.100 is successful</p> <pre> Switch>enab Switch#Jan 1 00:01:02 User admin enter privilege mode from console 0, level = 15 ping 192.168.0.100 Jan 1 00:01:29 %LINEPROTO-5-UPDOWN: Line on Interface GigEthernet0/3, changed state to up Jan 1 00:01:29 %LINEPROTO-5-UPDOWN: Line protocol on Interface GigEthernet0/3, changed state to up PING 192.168.0.100 (192.168.0.100): 56 data bytes Jan 1 00:01:33 %LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1, changed state to up !!!! --- 192.168.0.100 ping statistics --- 5 packets transmitted, 4 packets received, 20% packet loss round-trip min/avg/max = 0/0/0 ms Switch#con Switch_config#ip acc access-group access-list Switch_config#ip access-list standard test Switch_config std#deny 192.168.0.100 255.255.255.0 Switch_config std#exit Switch_config#ping 192.168.0.100 PING 192.168.0.100 (192.168.0.100): 56 data bytes !!!! --- 192.168.0.100 ping statistics --- 5 packets transmitted, 5 packets received, 0% packet loss </pre>
	<p>After applying IP ACL,ping 192.168.0.100 shows 100% packet loss</p> <pre> Switch_config#interface gigEthernet 0/3 Switch_config g0/3#ip access-group test Switch_config g0/3#exit Switch_config#write Switch_config# Saving current configuration... OK! Switch_config#Jan 1 00:10:48 /startup-config is wrote, TID:85aed20 ping 192.168.0.100 PING 192.168.0.100 (192.168.0.100): 56 data bytes --- 192.168.0.100 ping statistics --- 5 packets transmitted, 0 packets received, 100% packet loss Switch_config#mac mac mac-vlan macif Switch_config#mac-list test 2 mac-list test 2 </pre>
	<p>Before apply MAC ACL,ping 192.168.0.100 is successful</p> <pre> Username: admin Password: Welcome to ASTPL AS210T Ethernet Switch Switch>enab Switch#Jan 1 00:00:13 %LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1, changed state to up Jan 1 00:00:14 User admin enter privilege mode from console 0, level = 15 Switch#con Switch_config#mac acc access-list access-group Switch_config#mac access-list test2 Switch_config mac#deny 0006.0986.0f79 ffff.ffff.ffff Switch_config#mac#exit Switch_config#ping 192.168.0.100 PING 192.168.0.100 (192.168.0.100): 56 data bytes !!!! --- 192.168.0.100 ping statistics --- 5 packets transmitted, 5 packets received, 0% packet loss </pre>
	<p>After applying MAC ACL,ping 192.168.0.100 shows 100% packet loss</p> <pre> Switch_config#interface gigEthernet 0/3 Switch_config g0/3#mac access-group test2 Switch_config g0/3#exit Switch_config#ping 192.168.0.100 PING 192.168.0.100 (192.168.0.100): 56 data bytes --- 192.168.0.100 ping statistics --- 5 packets transmitted, 0 packets received, 100% packet loss Switch_config# </pre>
<p>Remarks</p>	<p>Working</p>