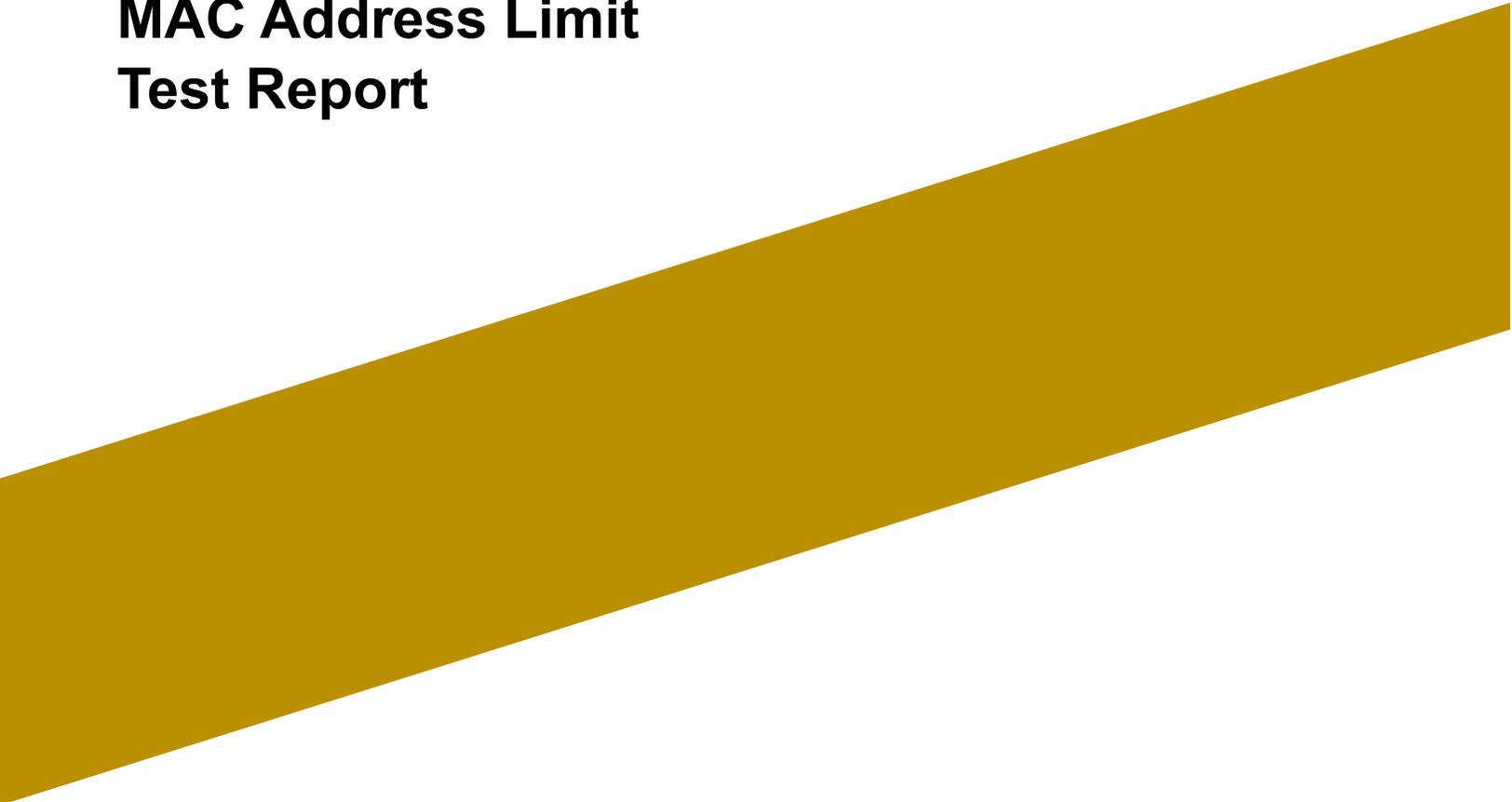
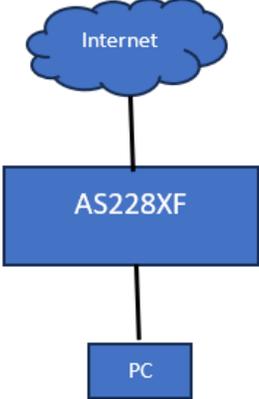


MAC Address Limit Test Report



Test	MAC address limit in AS200/28/XF v139318
Test procedure	 <pre> graph TD Internet((Internet)) --- AS228XF[AS228XF] AS228XF --- PC[PC] </pre>
configuration	<p>Configuration to limit the mac address on particular interfaces:</p> <pre> interface g0/1 switchport port-security dynamic maximum 10 // allowing only 10 mac address on the interfaces switchport port-security mac violation shutdown switchport port-security mode dynamic </pre> <p>configuration to stop learning mac on particular interfaces</p> <pre> interfaces g0/1 // to enter the interface mode switchport disable-learning // to disable the mac learning from the port </pre>
test result	Mac address on the interface before configuring the mac limit

```
Switch_config#
Switch_config#show mac Address-table interface gigaEthernet 0/3
Mac Address Table (Total 25)
-----
Vlan    Mac Address      Type      Ports
----    -
1       08d0.9f71.4040   DYNAMIC   g0/3
1       f48e.3881.9af7   DYNAMIC   g0/3
1       7818.ecd9.6c77   DYNAMIC   g0/3
1       000e.0987.d1cd   DYNAMIC   g0/3
1       2432.aea0.459a   DYNAMIC   g0/3
1       000e.0986.89d1   DYNAMIC   g0/3
1       98f1.1285.4905   DYNAMIC   g0/3
1       0000.0021.160c   DYNAMIC   g0/3
1       000b.82c9.dd47   DYNAMIC   g0/3
1       000b.82c9.dd4d   DYNAMIC   g0/3
1       000b.82c9.dd4c   DYNAMIC   g0/3
1       c06d.ed28.59e3   DYNAMIC   g0/3
1       0024.51be.fd02   DYNAMIC   g0/3
1       000b.82c9.dcef   DYNAMIC   g0/3
1       000b.82c9.dcf7   DYNAMIC   g0/3
1       000b.82c9.dcf2   DYNAMIC   g0/3
1       000b.82c9.dcf8   DYNAMIC   g0/3
1       000b.82e6.26ca   DYNAMIC   g0/3
1       a0c0.a80a.fe01   DYNAMIC   g0/3
1       3473.5ae7.9e01   DYNAMIC   g0/3
1       b43d.0876.d541   DYNAMIC   g0/3
1       000b.82cc.f195   DYNAMIC   g0/3
1       00be.433e.405f   DYNAMIC   g0/3
1       c86b.bca0.297e   DYNAMIC   g0/3
Switch_config#
```

Switch received 25 mac address

Mac address on the interface after configuring the mac limit

```
3
Mac Address Table (Total 10)
-----
Vlan    Mac Address      Type      Ports
----    -
1       98f1.1285.4887   STATIC    g0/3
1       98f1.1285.4885   STATIC    g0/3
1       c86b.bca0.1e8b   STATIC    g0/3
1       98f1.1285.48fb   STATIC    g0/3
1       7818.ecd9.6c77   STATIC    g0/3
1       98f1.1285.487f   STATIC    g0/3
1       0024.51be.fd02   STATIC    g0/3
1       b43d.0876.d541   STATIC    g0/3
1       c86b.bca0.297e   STATIC    g0/3
1       c86b.bca0.297d   STATIC    g0/3
Switch_config#
```

Only 10 mac address received

Logs because of violation the mac address

	<pre> Switch_config# Switch_config#Jan 1 01:46:00 %LINE-5-UPDOWN: Line on Interface GigaEthernet0/3, changed state to up Jan 1 01:46:00 %LINEPROTO-5-UPDOWN: Line protocol on Interface GigaEthernet0/3, changed state to up Switch_config#Jan 1 01:46:00 %INTERFACE-4-ERROR_DISABLE: Interface GigaEthernet0/3 disabled due to security dynamic max detected Jan 1 01:46:00 mac 000e.0987.d1cd vid 1 cause the g0/3 Security violation. Jan 1 01:46:01 %INTERFACE-4-ERROR_DISABLE_RECOVERY: Interface GigaEthernet0/3 recovered from disabled state Jan 1 01:46:02 %LINE-5-UPDOWN: Line on Interface GigaEthernet0/3, changed state to down Jan 1 01:46:02 %LINEPROTO-5-UPDOWN: Line protocol on Interface GigaEthernet0/3, changed state to down Switch_config# </pre>
Remarks	Mac address limit is demonstrated in AS200/28/XF