Action	Cable plugged in
Message Type	Port Status
Port StatusMessage Type	PORT_MOD
Port Config	all 0
Port Current	only 1000 full mode is 1 , medium support, auto negotiation and pause support are 1
Port Advertised	mode are all 1 except 1000 half, pause support is 1,all other flags are 0
Port Supported	mode are all 1 except 1000 half, pause support, autoneg, asymmetric pause are 1, medium are all 0
Port Peer	mode are all 1 except 1000 half, pause support is 1, all other flags are 0

Action	Cable pulled out
Message Type	Port Status
Port Status	PORT_MOD
Port Config	all 0
Port State	No physical link
Port Current	mode are all 0 , medium support, auto negotiation and pause support are 1
Port Advertised	the same as the message in (1)
Port Supported	the same as the message in (1)
Port Peer	all 0
notes	when the cable is pulled out, all changes to the port on switch do not trigger any message

Action	While cable is plugged in, change settings at the host end: set autoneg to off , speed changed from 1000 to 100, duplex changed from full to half	
Message#	Message 1	Message2
Message Type	Port Status	Port Status
Port Status	PORT_MOD	PORT_MOD
Port Config	all 0	all 0
Port State	No physical link	
Port Current	mode are all 0 , medium support, auto negotiation and pause support are 1	only mode 100 half is 1, medium support and autoneg are 1
Port Advertised	the same as the message in (1)	the same as the message in (1)
Port Supported	the same as the message in (1)	the same as the message in (1)
Port Peer	all 0	mode has 10 half and 100 half and 1000 full be 1,all other flags are 0

notes	The first message has exactly the same flags as when cable is pulled out, changing settings on host will cause link to go down and up again.	

Action	While cable is plugged in, change settings at the host end: set autoneg back to on , speed changed back to 1000, duplex changed back to full	
Message#	Message1	Message2
Message Type	Port Status	Port Status
Port Status	PORT_MOD	PORT_MOD
Port Config	all 0	all 0
Port State	No physical link	
Port Current	mode are all 0 , medium support, auto negotiation are 1,	only mode 1000 full is 1, medium support, autoneg and pause support are 1
Port Advertised	the same as the message in (1)	the same as the message in (1)
Port Supported	the same as the message in (1)	the same as the message in (1)
Port Peer	all 0	mode has 10 half and 100 half and 1000 full be 1,all other flags are 0,pause support is 1
notes	From these two actions, we can see that when a message coming and reports that a port is down, all flags are the same as it is up, only except that all current modes are set to 0.	

Action	While cable is plugged in, change settings on the switch, set autoneg to off
Message Type	Port Status
Port Status	PORT_MOD
Port Config	all 0
Port State	No physical link
Port Current	mode only has the current mode set, medium support, pause support are 1, autoneg is 0
Port Advertised	the same as the message in (1)
Port Supported	the same as the message in (1)
Port Peer	all 0
notes	Disable the autoneg will simply make the port down, then other changes do not trigger messages, until autoneg is reset. Changing speed causes the autoneg to become 0 as well and then becomes the same situation. When the autoneg is reset to 1, the following message is created

Action	set autoneg on swith port to 1
Message Type	Port Status
Port Status	PORT_MOD
Port Config	all 0
Port State	
Port Current	mode only has the current mode set, medium support, pause support and autoneg are 1
Port Advertised	the same as the message in (1)
Port Supported	the same as the message in (1)
Port Peer	mode has 10 half and 100 half and 1000 full be 1,all other flags are 0,pause support is 1

Action	set the port on the host to down(using ifconfig down)	
Message#	Message1	Message2
Message Type	Port Status	Port Status
Port Status	PORT_MOD	PORT_MOD
Port Config	all 0	all 0
Port State	No physical link	
Port Current	mode are all 0 , medium support, auto negotiation and pause support are 1	only mode 1000 full is 1, medium support, autoneg and pause support are 1
Port Advertised	the same as the message in (1)	the same as the message in (1)
Port Supported	the same as the message in (1)	the same as the message in (1)
Port Peer	all 0	mode has 10 half and 100 half and 1000 full be 1,all other flags are 0,pause support is 1

Action	disable the port on the switch
Message Type	Port Status
Port Status	PORT_MOD
Port Config	admin down is 1, all others are 0
Port State	
Port Current	mode only has the current mode set, medium support, pause support and autoneg are 1
Port Advertised	the same as the message in (1)
Port Supported	the same as the message in (1)
Port Peer	mode has 10 half and 100 half and 1000 full be 1,all other flags are 0,pause support is 1
notes	**When the port is enabled again, 1 message is generated, the only difference between messages about disabling and enabling the**

	port is administratively down flag.

Action	disable the port on the switch
Message Type	Port Status
Port Status	PORT_MOD
Port Config	all are 0
Port State	No physical link
Port Current	all modes are 0, medium support, pause support and autoneg are 1
Port Advertised	the same as the message in (1)
Port Supported	the same as the message in (1)
Port Peer	all are 0

Action	change mtu on switch port
No message is created at all	