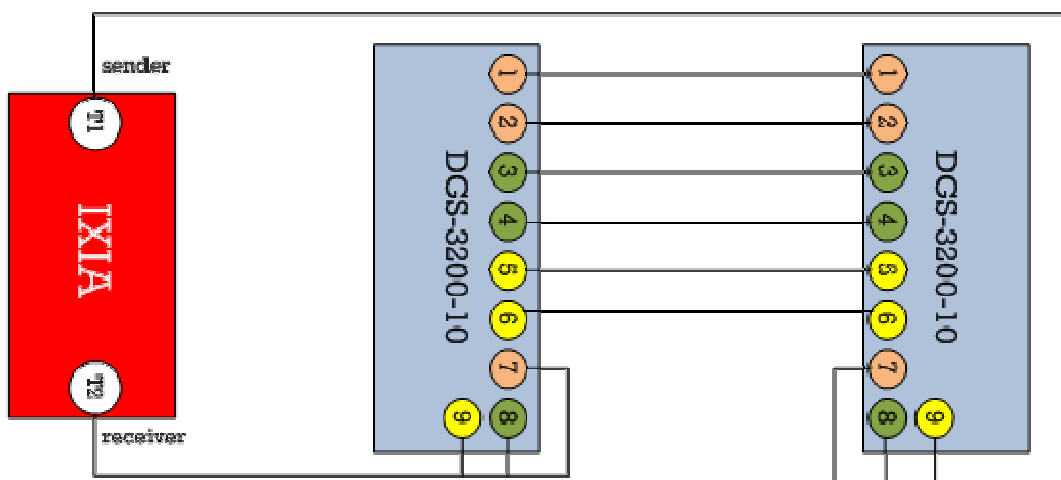


[Scenario]

In current issue, the left-hand side DGS-3200 and right-hand side DGS-3200 are running MSTP together, it's able to prevent the traffic from loop and also achieves the failover function.

### BPDU Pass Through Test

1. Runing MSTP on VLAN1 and VLAN2
2. Create two instances in MSTP below
  - a. For vlan2: Instance ID=1, mst\_config\_ID=v2, revision\_level=1
  - b. For vlan3: Instance ID=2, mst\_config\_ID=v3, revision\_level=2
3. IXIA generates the traffic from T1 to T2.
4. While one of the lines is broken in anyone of VLANs, the traffic shall be able to recovery within 3 seconds.

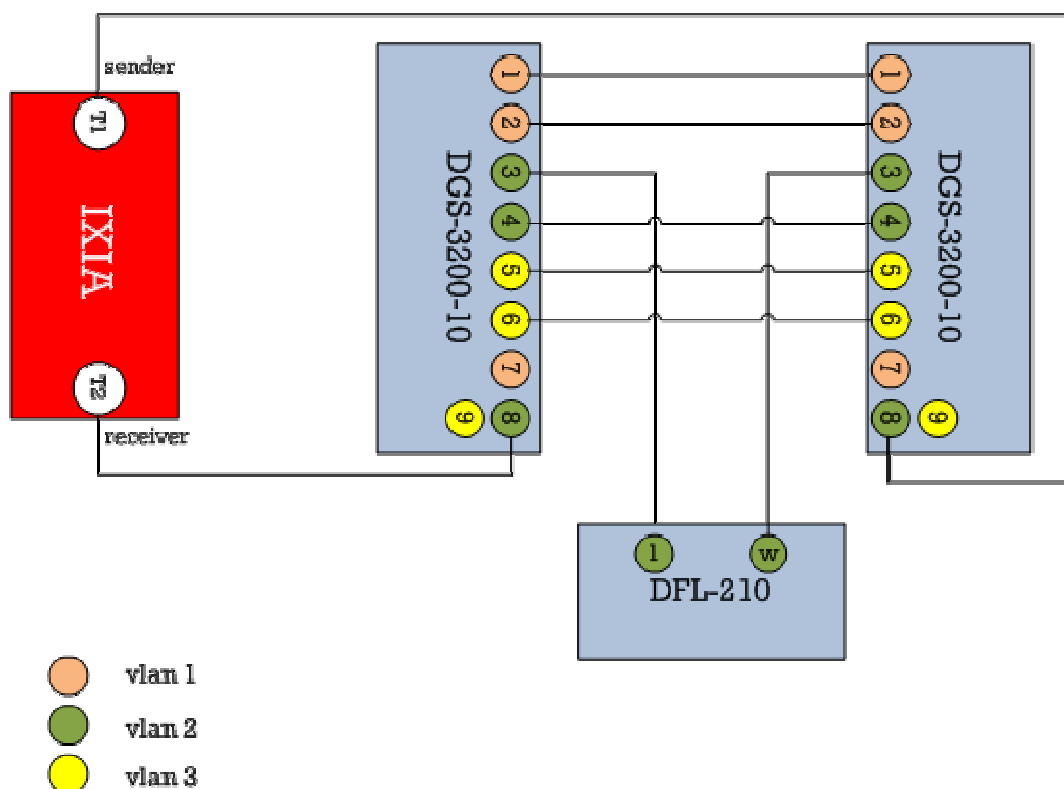


- vlan 1
- vlan 2
- vlan 3

Now for test the functionality of BPDU pass-through of DFL-210, we're inserted a DFL-210 (running in transparent mode) between port3 of these two switches, the network scheme is presented below:

## BPDU Pass Through Test

1. Runing MSTP on VLAN1 and VLAN2
2. Create two instances in MSTP below
  - a. For vlan2: Instance ID=1, mst\_config\_ID=v2,revision\_level=1
  - b. For vlan3: Instance ID=2, mst\_config\_ID=v3,revision\_level=2
3. IXIA generates the traffic from T1 to T2.
4. The port 4 shall be a forwarding port and port 3 is backup line in this topology.
5. Once the port 4 is broken, the port 3 on non-root switch will turn the state from alternate port to forwarding port.



[The configuration of DFL-210]

```
set Interface Ethernet wan DHCPEnabled=No
/**By default the function of "DHCP clien"t on WAN interface is enabled, we have to disable it to
avoid the unnecessary routing issue.
set Address IP4Address InterfaceAddresses/wan_ip Address=1.1.1.1
set Address IP4Address InterfaceAddresses/wannet Address=1.1.1.0/30
/**Assign an arbitrary IP address and netmask to WAN interface, it's used for management only.
add Interface InterfaceGroup lan-wan Members=wan,lan
cc RoutingTable main
add SwitchRoute Interface=lan-wan Network=all-nets
cc
/**Group interface WAN and LAN together, then create a "switch" route in the routing table in
order to work in transparent mode.
add IPRule Action=Allow SourceInterface=lan-wan SourceNetwork=all-nets
DestinationInterface=lan-wan DestinationNetwork=all-nets Service=all_services Index=1
Name=lan-wan-allow
/**Create an IP rule for routing the traffic between WAN and LAN.
```

```
set Settings RoutingSettings Transp_RelaySTP=Log
/**Enable the function of BPDU pass-through.
save
activate
```

[The configuration of DGS-3200]

```
# VLAN
```

```
config vlan default delete 1-10
config vlan default add untagged 1-2,7
create vlan VLAN2 tag 2
config vlan VLAN2 add untagged 3-4,8 advertisement disable
create vlan VLAN3 tag 3
config vlan VLAN3 add untagged 5-6,9 advertisement disable
```

```
# STP
```

```
enable stp
config stp version mstp
create stp instance_id 1
config stp instance_id 1 add_vlan 2
create stp instance_id 2
config stp instance_id 2 add_vlan 3
```

```
config stp mst_config_id name v2 revision_level 1
config stp mst_config_id name v3 revision_level 2
```

[Test result]

Once we remove the cable of port4 on anyone of DGS-3200 switches, the port3 will turn to forwarding port and take over all of the traffic for failover.