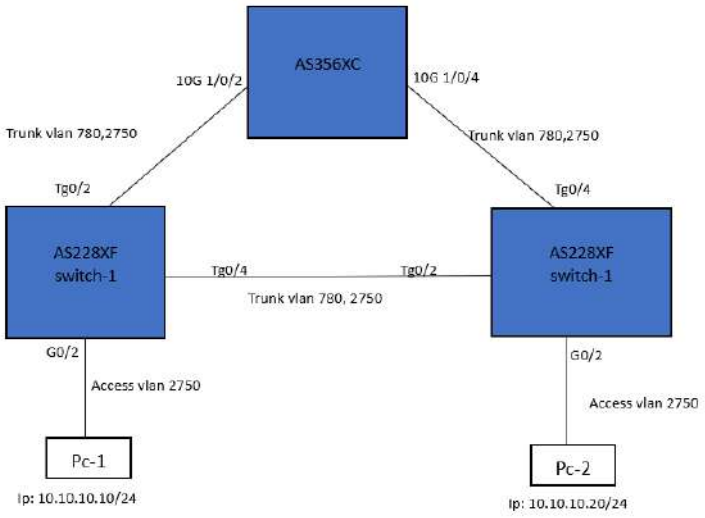
Alpha Bridge® Technologies

RSTP
Test Case

Alpha Bridge RSTP in AS300/56/XC

Test	RSTP with AS300/56/XC and AS200/28/XF
Test procedure	
configuration	**Configuration in AS356XC:** ! hostname AS356XC ! vlan 1,780,2750-2752 ! stp *// to enable stp* stp hello-time 1 *// to set stp timer hello-time =1* stp max-age 6 *// to set stp timer max-age =6* stp forward-delay 4 *// to set stp timer forward-delay =4* stp mode rstp *// to select mode RSTP* stp priority 0 *// to set stp priority* ! ! interface 10gigaethernet 1/0/2

port link-type trunk

port trunk allow-pass vlan 780,2750

stp path-cost 1000 *// to set path-cost on interface (optional config)*

!

interface 10gigaethernet 1/0/4

port link-type trunk

port trunk allow-pass vlan 780,2750

!

Configuration in AS228XF_switch_1:

!

hostname AS228XF_switch_1

!

spanning-tree mode rstp

spanning-tree rstp hello-time 1

spanning-tree rstp forward-time 4

spanning-tree rstp max-age 6

!

interface TGigaEthernet0/2

switchport mode trunk

switchport trunk vlan-allowed 780,2750

!

interface TGigaEthernet0/4

switchport mode trunk

switchport trunk vlan-allowed 780,2750

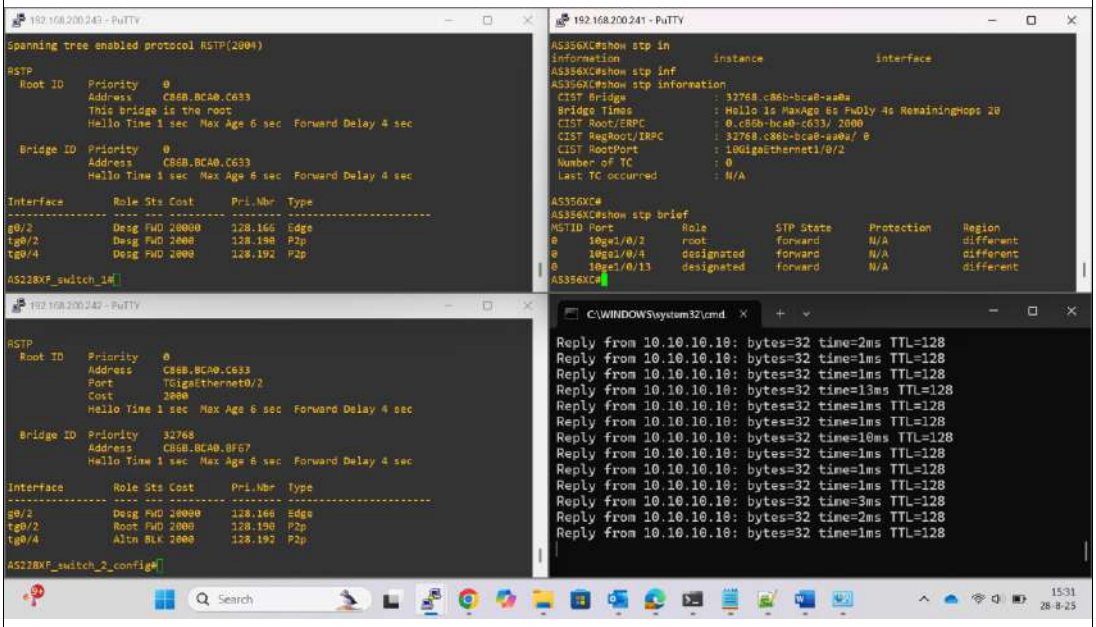
!

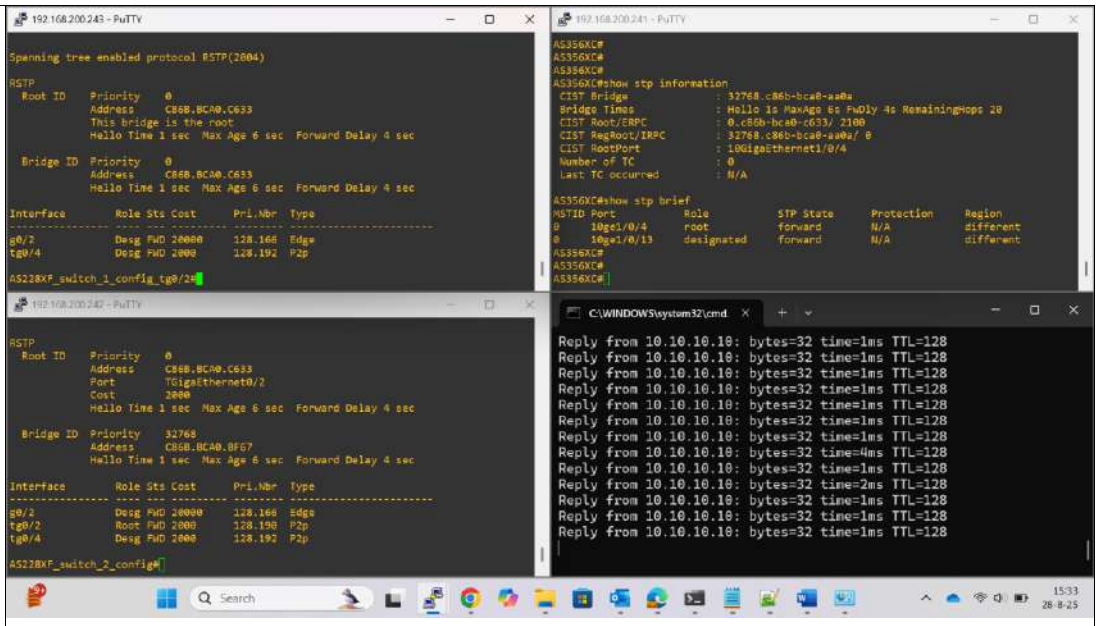
Configuration in AS228XF_switch_2:

!

hostname AS228XF_switch_2

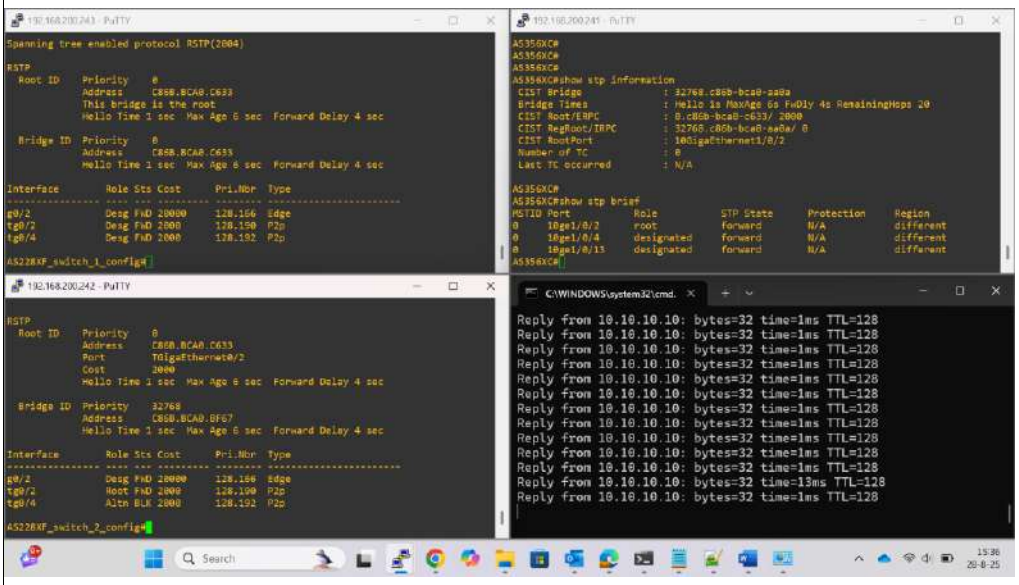
!

	spanning-tree mode rstp spanning-tree rstp hello-time 1 spanning-tree rstp forward-time 4 spanning-tree rstp max-age 6 ! interface TGigaEthernet0/2 switchport mode trunk switchport trunk vlan-allowed 780,2750 ! interface TGigaEthernet0/4 switchport mode trunk switchport trunk vlan-allowed 780,2750 !
test result	**Results for RSTP** STP status in all 3 switches  Switch-1 becomes the root bridge because its priority is 0 When the tg0/2 is down in the switch-1



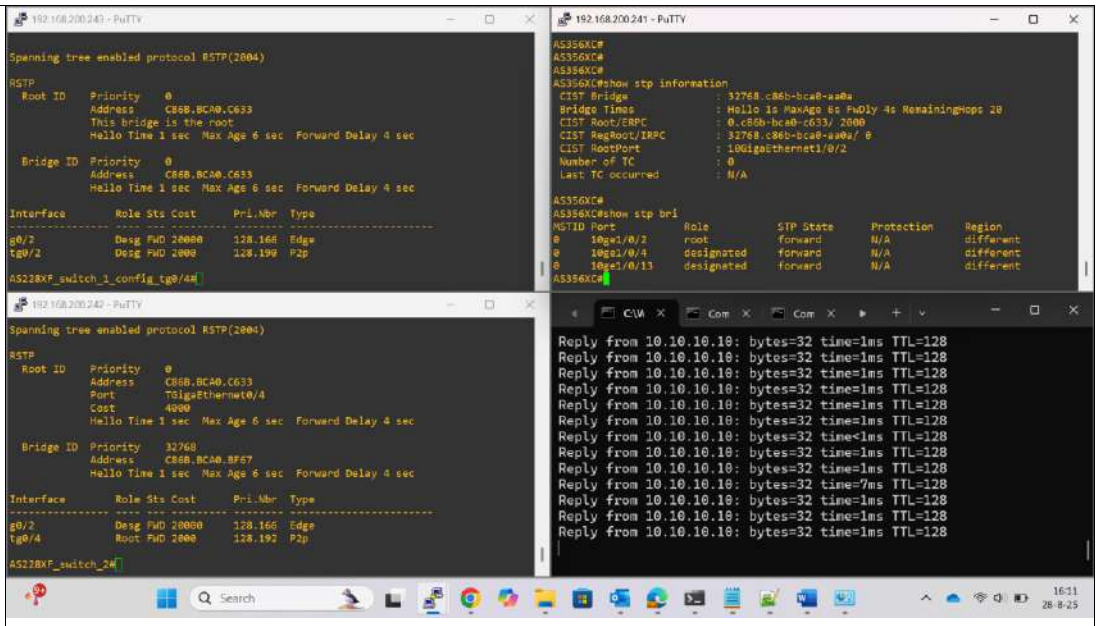
The port tg0/4 in switch-2is changed to designated when the link is down without any packet loss

When the tg0/2 is restored in the switch-1



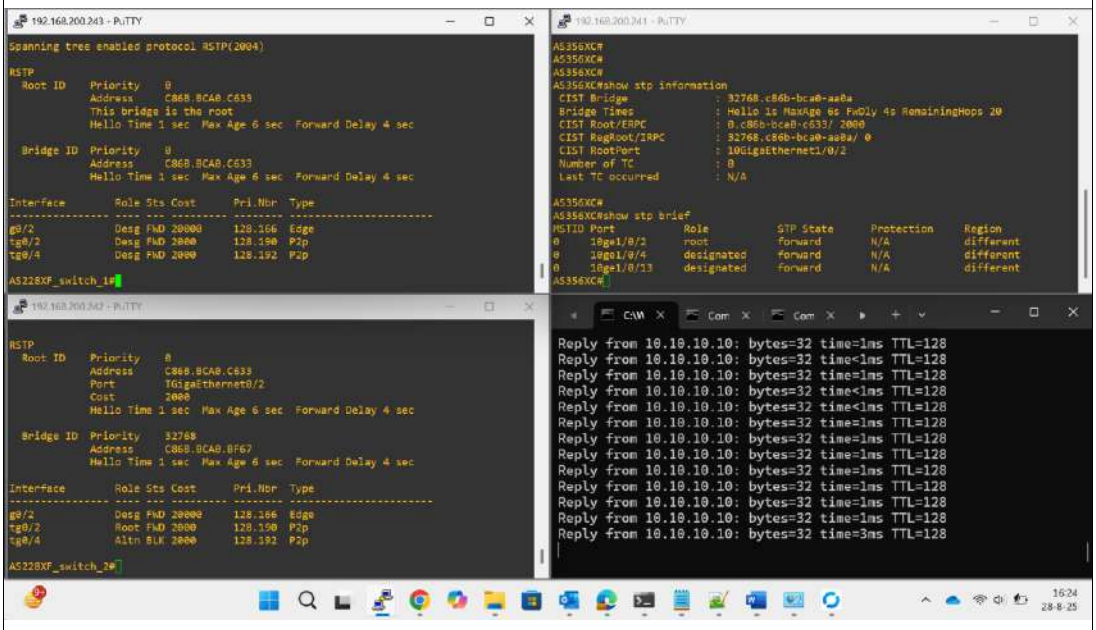
The port tg0/4 in switch-2 is changed to Alternate when the link is restored without any packet loss

When the tg0/4 is down in the switch-1

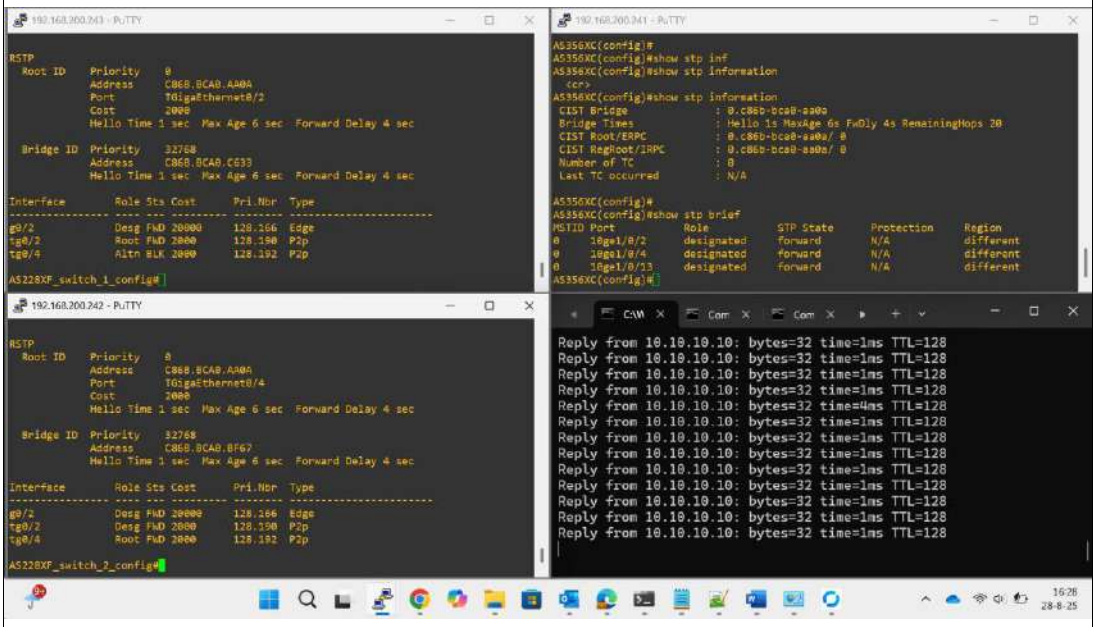


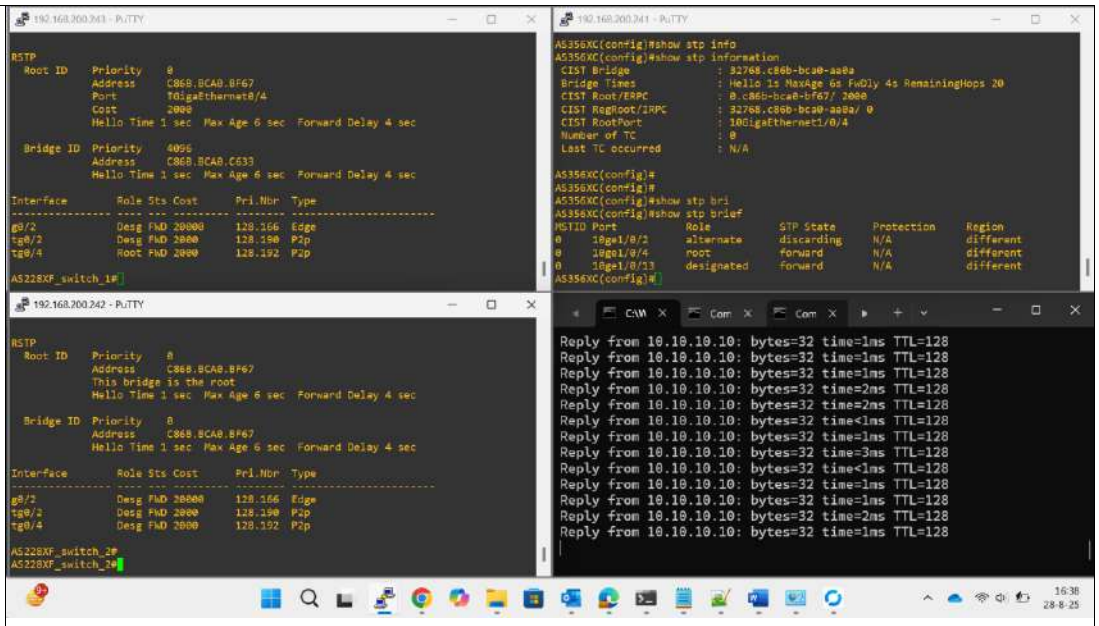
The port tg0/4 in switch-2is changed to designated when the link is down without any packet loss

When the tg0/4 is restore in the switch-1

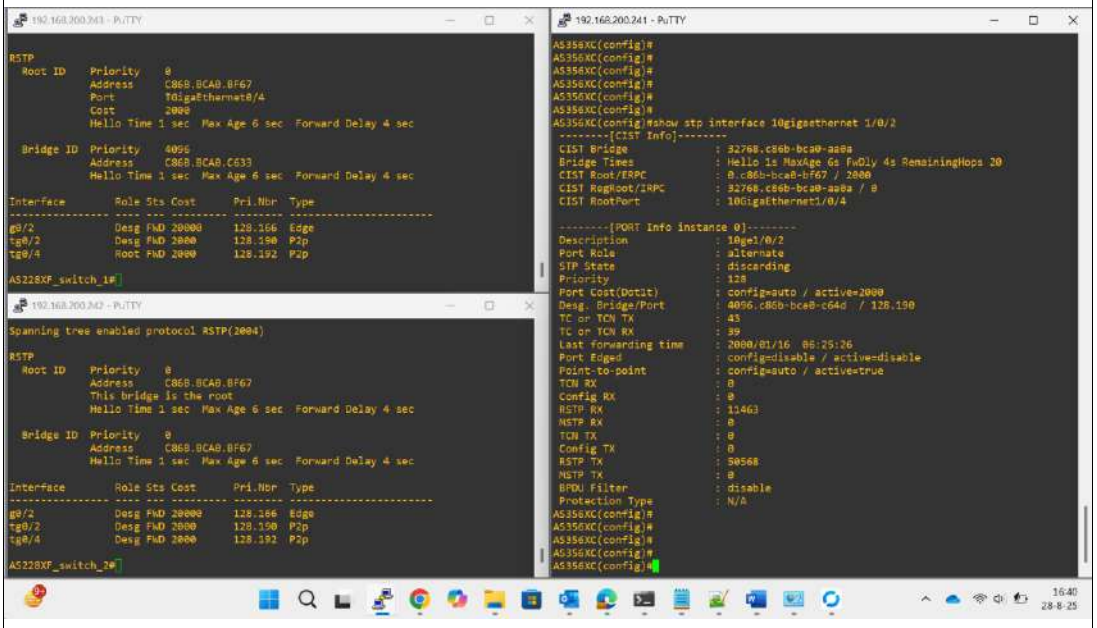


The port tg0/4 in switch-2 is changed to Alternate when the link is restored without any packet loss

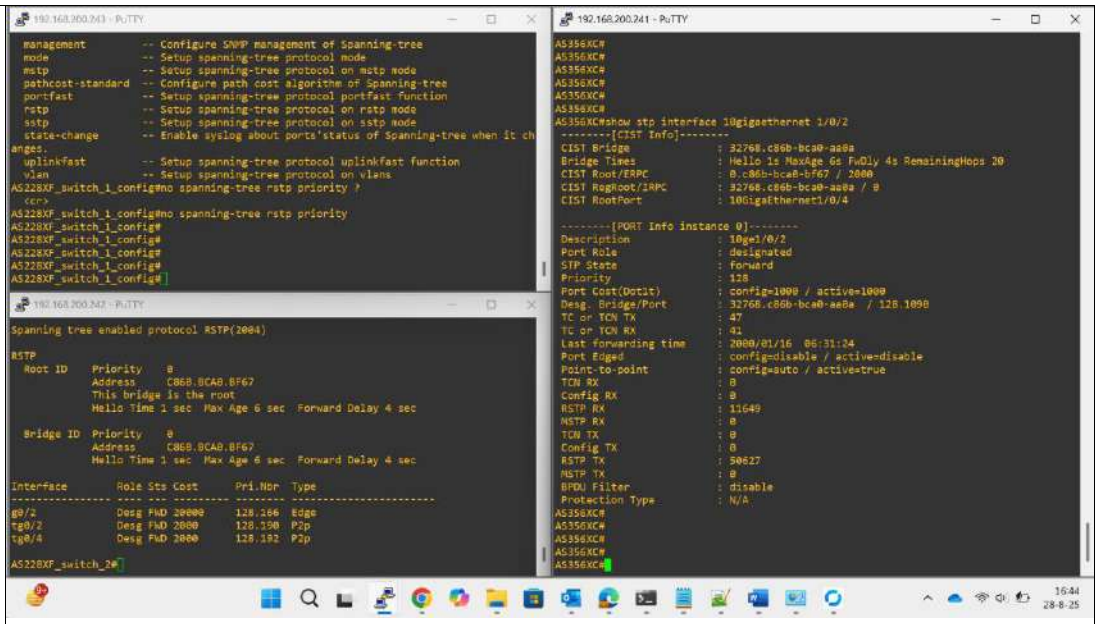
	STP status when the AS356XC priority is zero and remaining are default  AS356XC becomes the root bride since the priority is 0 Stp port status when: AS228XF-switch1 priority =4096 AS228XF-switch2 priority =0 AS356XC priority = 32768 (default)



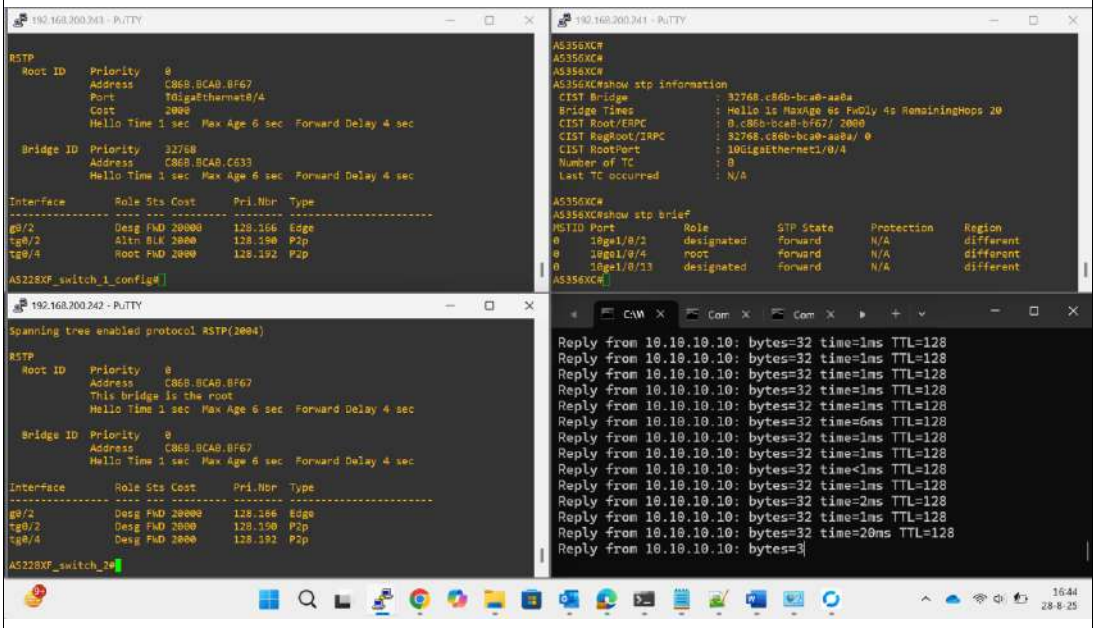
Port cost of interface 10g1/0/2 in AS356XC



When the port cost of 10g1/0/2 is changed to 1000



Stp status after changing the port cost



Remarks	Successfully demonstrated the RSTP fail-over, RSTP priority and path switching using STP path cost in AS300/56/XC

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