

Lab Exercise

Writing a Test Plan



1. Write a test plan

DUT: Juniper L2 Switch

Test type: Feature test

Feature under test: Port admin commands

L2 Switch Test Plan

Juniper FW v10.2R3.10

TC1 – Port Administration

Summary: Feature test of port admin commands. Test that when ports are enabled and disabled, the port summary information is updated correctly.

Pass/Fail Criteria

1. When a port is disabled, the port summary information will show the port as down
2. When a port is enabled, the port summary information will show the port as up

Prerequisites

1. Switch reports the expected firmware version under test

Commands	show chassis firmware		
P/F Criteria	Firmware shown is expected version under test		
Expected output	Part FPC 0 FWDD	Type O/S O/S	Version Version 10.2R3.10 by builder on 2010- Version 10.2R3.10 by builder on 2010-

2. Primary interface is up

Commands	show interfaces <interface name> brief
P/F Criteria	Admin status is 'Enabled' Phy status is 'Up'
Expected output	Physical interface: ge-0/0/0, Enabled, Physical link is Up Link-level type: Ethernet, MTU: 1514, Speed: 1000mbps, Loopback: Disabled, Source filtering: Disabled, Flow control: Enabled, Auto-negotiation: Enabled, Remote fault: Online Device flags : Present Running Interface flags: SNMP-Traps Internal: 0x4000 Link flags : None

Procedure

1. Ensure that the primary interface is shown as down after disabling the interface

- 1.1. Disable the interface

Commands	edit interfaces <interface name> set disable exit
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- 1.2. Check that interface is shown as down

Commands	show interfaces <interface name> brief
P/F Criteria	Admin status is 'Disabled' Phy status is 'Down'
Expected output	Physical interface: ge-0/0/0, Disabled, Physical link is Down Link-level type: Ethernet, MTU: 1514, Speed: 1000mbps, Loopback: Disabled, Source filtering: Disabled, Flow control: Enabled, Auto-negotiation: Enabled, Remote fault: Online