



TeraRouting Tester Software Module RIP

Product Overview

The RIP routing protocol software module works together with all of the basic TeraRouting Tester (TRT) features such as the Flap Scheduler, Traffic Generator, and integrated results. This module emulates hundreds of RIP, RIP 2, or RIPing (IPv6) routers. Millions of routes can be generated from these virtual devices, and bi-directional traffic can be sent to/from the emulated routers.

RIP Router Emulation Features

- Per port: 500 RIP routers with multicast, or 1,000 RIP routers with broadcast, or 200 RIPng routers
- Millions of routes
- Route Generator with Internet Prefix Length Distribution
- VLAN IDs and priority per router
- Support for RIPv1, RIPv2, and RIPng
- Destination Addresses: Broadcast, Multicast, and Unicast
- Update Interval
- Max Jitter Value
- Password
- Support for MD5 authentication

RIP Network Options

- Supports millions of routes
- Can copy/paste and duplicate one or more route blocks

- Prefix Length
- Number of Networks
- Start Route IP address
- Increment Value for IP Address Range
- Route Tag
- Next Hop
- Metric or Hop Count

RIP Flap Events

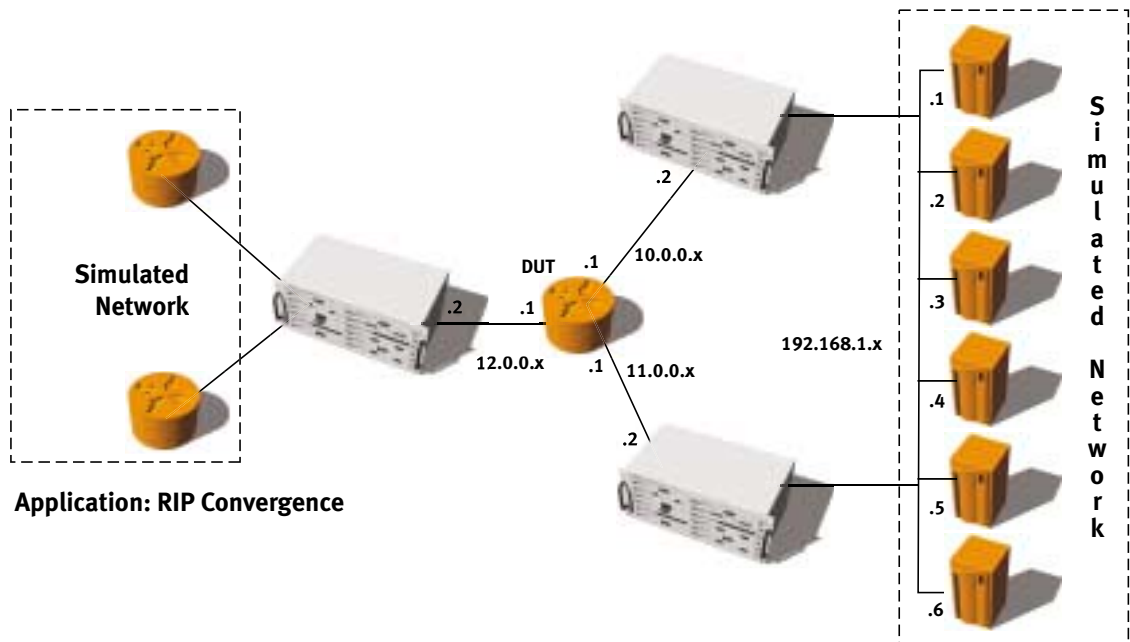
- Break Physical Link
- Restore Physical Link
- Stop Updates (all or a set of routers)
- Resume Updates (all or a set of routers)
- Withdraw Networks (all or a set of routers)
- Re-advertise Networks (all or a set of routers)

RIP Real-time and Final Results

- Router IP Address
- Router State
- Received Advertisements
- Sent Advertisements
- Received Withdrawals
- Sent Withdrawals

Related RFCs

- RFC 1058 – Describes RIP version 1
- RFC 2453 – Describes RIP version 2
- RFC 2080 – RIPng for IPv6



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TeraRouting Tester RIP applications



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Supported Modules

Module	Description
ATM-3451A	ATM OC-3c (STM-1c), 2-port, multi-mode, 1300nm, TeraMetrics
ATM-3451As	ATM OC-3c (STM-1c), 2-port, single mode, 1310nm, TeraMetrics
ATM-3453A	ATM OC-3c/OC-12c (STM-1c/STM-4c), 2-port, multi-mode, 1300nm, TeraMetrics
ATM-3453As	ATM OC-3c/OC-12c (STM-1c/STM-4c), 2-port, single mode, 1310nm, TeraMetrics
LAN-3301A	10/100/1000Base-T Ethernet, Copper, 2-port, TeraMetrics
LAN-3302A	10/100Base-T Ethernet, Copper, 2-port, TeraMetrics
LAN-3306A	10/100Base-T Ethernet, Copper, 4-port, TeraMetrics XD
LAN-3311A	1000Base Ethernet, GBIC, 2-port, TeraMetrics
LAN-3321A	10/100/1000 Mbps and Gigabit Ethernet Fiber, 2-port, TeraMetrics XD
LAN-3325A	10/100/1000 Mbps and Gigabit Ethernet Fiber, 4-port, TeraMetrics XD
LAN-3327A	10/100/1000 Mbps and Gigabit Ethernet Fiber, 1-port, TeraMetrics XD
POS-3505As	POS OC-48c (STM-16c), 1-port, single mode, 1310nm, TeraMetrics
POS-3505AR	POS OC-48c (STM-16c), 1-port, single mode, 1550nm, TeraMetrics
POS-3511A	POS OC-3c/OC-12c (STM-1c/STM-4c), 2-port, multi-mode, 1300nm, TeraMetrics
POS-3511As	POS OC-3c/OC-12c (STM-1c/STM-4c), 2-port, single mode, 1310nm, TeraMetrics
POS-3519As	POS OC-192c (STM-64c), 1-port, 2-slot, single mode, 1310nm, TeraMetrics
POS-3519AR	POS OC-192c (STM-64c), 1-port, 2-slot, single mode, 1550nm, TeraMetrics
XLW-3721A	10GBase Ethernet Optical, XENPAK, 1-port, 2-slot, TeraMetrics

Requirements

- TeraRouting Tester software (SWF-1230A; comes with RIP)
- A SmartBits 600, 6000B, or 6000C chassis, with the appropriate hardware modules.
- An IBM or compatible Pentium™ PC running Windows® 2000/NT/XP, with mouse and color monitor.

Ordering Information

- SWF-1230A**
TeraRouting Tester with RIP software module
- SWF-1231A**
OSPF software module for TRT
- SWF-1232A**
IS-IS software module for TRT
- SWF-1233A**
MPLS software module for TRT
- SWF-1234A**
BGP software module for TRT
- SWF-1235A**
IPv6 software module for TRT
- SWF-1239A**
All available software modules for TRT
- SWF-1255A**
SmartBits Automation
- SUS-SMB**
12-month Software Update Support Service

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Protocol	Port	Entry	Direction	State	Event Type	Time (sec)	Parameters
RP	fa0/0	160.2.0.0/0.0.3	Tx	Open	Update	81.182	Reach = 25, Unreach = 0
RP	fa0/0	160.2.0.0/0.0.3	Tx	Open	Update	81.182	Reach = 25, Unreach = 0
RP	fa0/0	160.2.0.0/0.0.3	Tx	Open	Update	81.183	Reach = 25, Unreach = 0
RP	fa0/0	160.2.0.0/0.0.3	Tx	Open	Update	81.184	Reach = 25, Unreach = 0

TeraRouting Tester RIP test result screens

