

TeraRouting Tester Software Module

OSPF

Product Overview

The OSPF routing protocol software module works together with all the basic TeraRouting Tester (TRT) features such as the Flap Scheduler, Traffic Generator, and integrated results. A topology editor provides a visual tool for simulating complex networks quickly. Comprehensive IPv6 support is also available with the OSPFv3 software.

LSA Support

- Router LSA Type 1
- Network LSA Type 2
- Summary LSA Type 3
- ASBR Summary LSA Type 4
- External Type 5
- NSSA Type 7
- Area-local opaque LSA-Type 10

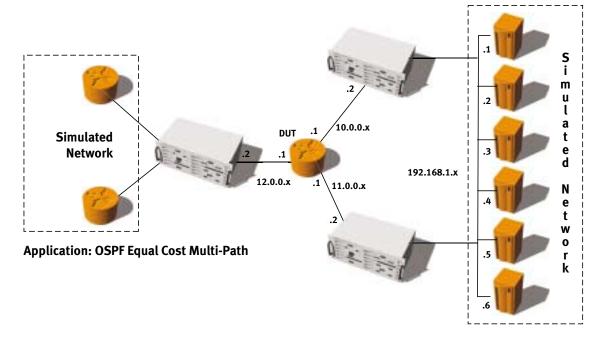
OSPF Adjacency Features

- 100 OSPF adjacencies per port
- VLAN IDs and priority per adjacency
- ATM VCCs per adjacency
- Emulated adjacencies can be DR, BDR, or None
- IP Address
- Area ID and Router ID
- Cost, MTU, and Hello Interval

- Router Priority and Options
- Router Dead Interval/Retransmit Interval
- LSA Refresh Time/Flood Delay

OSPF LSA Generator

- Quickly configure logical OSPF tree-like topologies on every adjacency
- Area Types: Regular, Stub, Stub No Summary, NSSA, NSSA No Summary
- Number of Router LSAs per Area
- Maximum number of Point-to-Point and Broadcast interfaces
- Maximum number of Transit Networks and routers per Transit Network
- Number of Stub Networks and distribution of addresses
- Number of Summary Networks and distribution of addresses and % of duplicate
- Number of External Networks and distribution addresses and % of duplicate
- Can select generated IP address range
- Can specify Age, Sequence Number, and Checksum (good/bad)
- All options for each LSA block will have useable defaults



TeraRouting Tester OSPF applications

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Router LSA (Type 1) Options

- Supports up to 1000 router LSAs per adjacency
- Supports up to 100 links per router LSA
- Can copy/paste and duplicate one or more LSAs/links
- Router ID and Router Options
- Router Type: Virtual Link, Area Border Router, AS Boundary Router
- Supports the following link types: Transit Network, Point-to-Point, Stub Network, Virtual Link

Network LSA (Type 2) Options

- Supports up to 1000 network LSAs per adjacency
- Supports up to 100 links per network LSA
- Can copy/paste and duplicate one or more LSAs/links
- Router ID; each router ID attached to the network
- DR IP address of the network
- Netmask of the network

Summary LSA (Type 3) Options

- Supports millions of Summary LSAs
- Can copy/paste and duplicate one or more LSAs
- Router ID and Prefix Length
- Number of LSAs, Start IP Address, and Increment value for LSA range
- Metric for LSA Range

ASBR-Summary LSA (Type 4) Options

- Can copy/paste and duplicate one or more LSAs
- Advertising Router ID and ASBR Router ID
- Metric

External/NSSA LSA (Type 5/7) Options

- Supports millions of external/NSSA LSAs
- Can copy/paste and duplicate one or more LSAs
- Router ID and Prefix Length
- Number of LSAs, Start IP Address, and Increment value for LSA range
- Metric and Metric Type for LSA range
- Forwarding Address and Route Tag

Area-local Opaque LSA (Type 10) Options

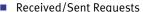
- Router ID and Router Options
- TLV Type: Router or Link
- Opaque ID

OSPF Flap Events

- Break/Restore Physical Link
- Stop/Resume Hellos (all or individual ports/routers)
- Age Summary LSAs (all or individual areas)
- Age ASBR-Summary LSAs (all or individual areas)
- Age External LSAs (all or individual areas)
- Age/Remove Router LSAs
- Age/Remove Network LSAs
- Re-advertise LSAs (all or individual areas)

OSPF Real Time and Final Results

- Port/Router
- Received/Sent Hellos
- Received/Sent Database Descriptors
- Received/Sent Router LSAs
- Received/Sent Network LSAs
- Received/Sent Summary LSAs
- Received/Sent ASBR-Summary LSAs
- Received/Sent External LSAs
- Received/Sent NSSA LSAs



Received/Sent Acks

Related RFCs

- RFC 1587 Describes the OSPF NSSA option
- RFC 2328 Describes OSPF Version 2
- RFC 2329 OSPF Standardization Report
- RFC 2740 OSPF Version 3 (for IPv6)

Requirements

- TeraRouting Tester software (SWF-1230A or SWF-1239A)
- 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.

Supported Modules

ATM-3451A ATM OC-3c (STM-1c), 2-port, multimode, 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 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 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),
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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



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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

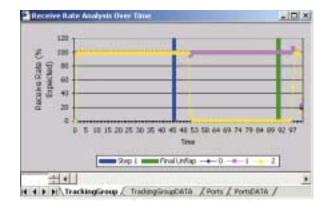
All available software modules for TRT

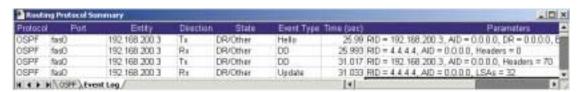
SWF-1255A

SmartBits Automation

SUS-SMB

12-month Software Update Support Service





TeraRouting Tester OSPF test result screens

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