

JDSU SAMComplete

Y.1564 based Service Activation Methodology

... and more



ITU-T Y.1564 Methodology Overview

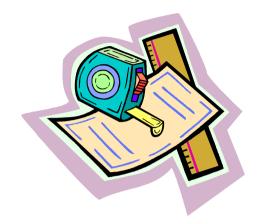
Y.1564 Overview



- Mainly an Ethernet Installation Tool
 - Verifies multi-service SLA compliance
 - Good Test for Access Side of Metro Network
- Ideal Use Cases
 - Multi-Service LTE/4G Cell Site traffic
 - Triple Play Testers



- Bandwidth profiles
 - CIR throughput committed to conform to KPIs
 - EIR throughput may conform to SLA but may also be dropped entirely
 - CBS, EBS data burst parameters
- Key Performance Indicators (KPIs) or Parameters in SLA
 - Frame Delay (FD) Latency
 - Frame Delay Variation (FDV) Jitter
 - Frame Loss Rate (FLR)



High-Level View of ITU-T Y.1564



Objectives

- To validate the typical SLA of Carrier Ethernet-based services
 - · Against a Bandwidth Profile
 - Against KPIs
- Offer a quick repeatable <u>Multi-Stream</u> test with pass/fail results

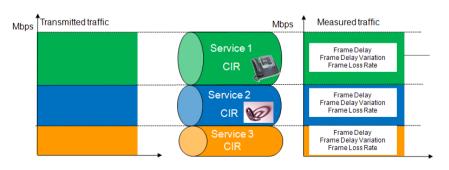
Two Phase Test Methodology

- Service Configuration Test
 - Each stream/service is validated individually
 - Results compared to
 - KPIs
 - Bandwidth Parameters



Service Performance Test

- All services tested concurrently at CIR
- Results compared to KPIs
 - Frame Delay (Latency)
 - Frame Delay Variation (Packet Jitter)
 - Frame Loss rate







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SAMComplete Key Benefits



Boost customer satisfaction and network quality
•reliable and repeatable

•independent of technicians skill level

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Reduce OPEX for service delivery

•faster and more complete test
execution

•Integrated with J-Complete

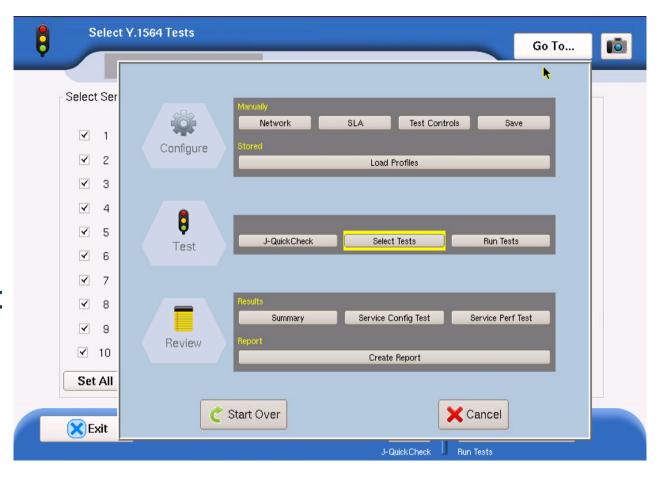


- 3 Increase your ROI (Return on Investment)
 - •SAMComplete comes for FREE units running multiple streams
 - •Works on new units <u>and installed base JDSU's MTS</u> testers (MSAM, 5800, Transport Module V3)

Three Easy Steps for Field Engineers ...



- 1. Load Profile
- 2. Run Test
- 3. Create Report



... Workflow Based Configuration for Easy Profile Creation & Troubleshooting

Time Saving Configuration and Execution



Work Flow Based Configuration for Easy Test Setup

Integrated J-QuickCheck

- Pre-test before starting
- Saves time on end-to-end setup

Time Saving Throughput Test

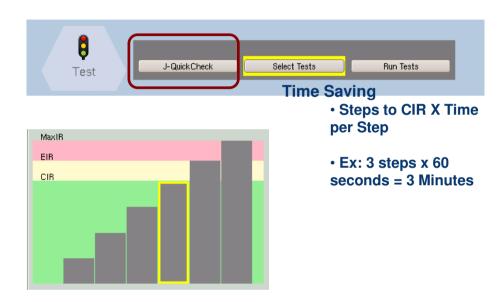
- Start at CIR
- If CIR fails start at -0- and step up

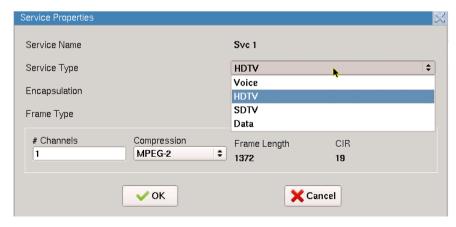
Time Saving Troubleshooting

• RFC 2544 Zeroing-In Algorithm

Triple Play Stream Configuration

- Configure by # of TV or VoIP Streams
- Same as Triple Play Test





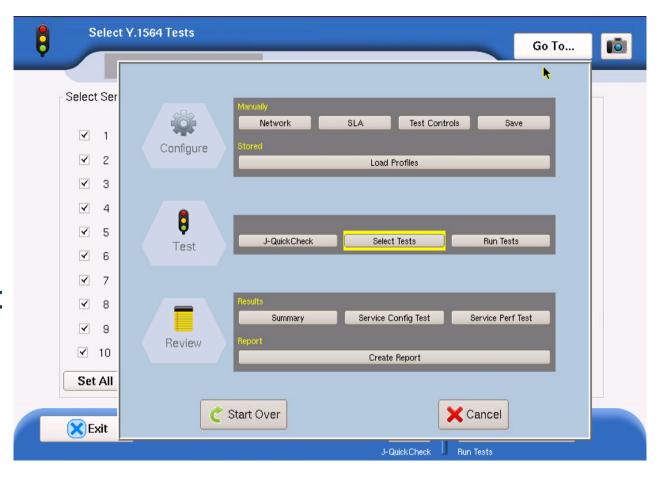


SAMComplete - taking a closer look

Three Easy Steps for Field Engineers ...



- 1. Load Profile
- 2. Run Test
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... Workflow Based Configuration for Easy Profile Creation & Troubleshooting

Step 1 – Intelligent Profile Loading



Load Network Profile Only

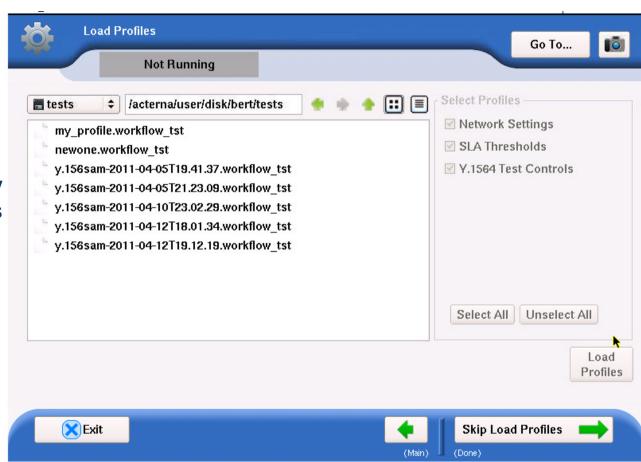
- Addressing
- Frame/Packet Length
- Priority Markings

Load Per Service SLAs Only

- Throughput ParametersCIR, EIR. MIR
- Delay
- Jitter
- Frame Loss

Load Controls Only

- Test Durations
- Number of Ramp Steps



Step 2 – Run Test



Continuous & Easy to Understand Test Status

- Per Service
- Per SLA Parameter

Stop on Failure

- Avoid lost time



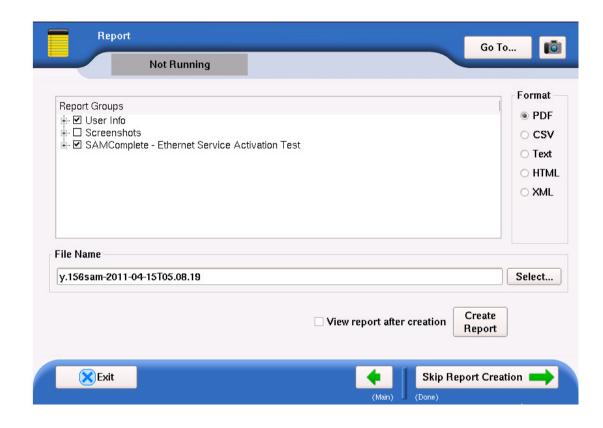
Step 3 – Create Report



Select Information to Save

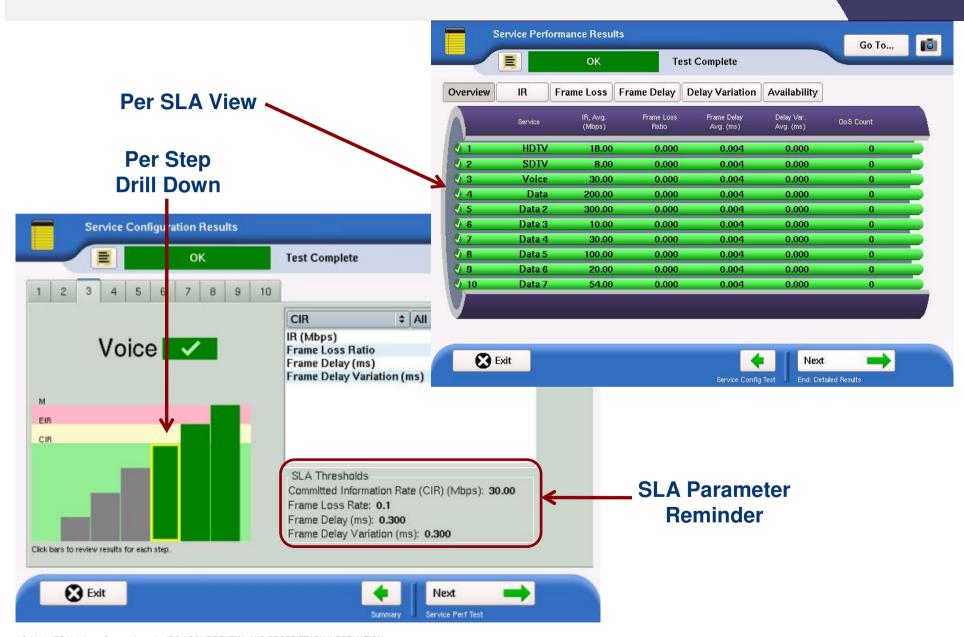
Multiple File Formats
- PDF, CSV, Text, HTML & XML

View Report After Creation



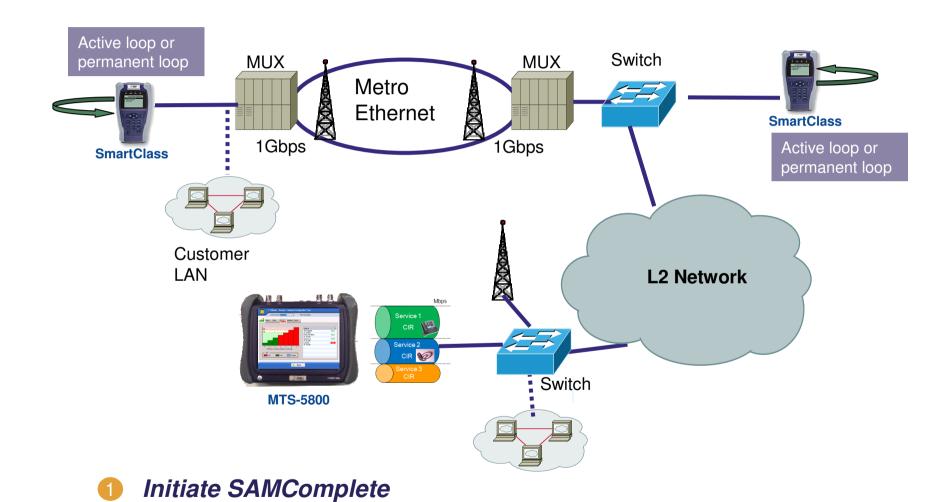
Easy to Troubleshooting





SAMComplete in the Network





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Test against an active or permanent loop



You know us because you depend on our technology every day.