

66th IETF - Montreal, Quebec, Canada

Implementation Status of draft-ietf-ippm-twamp-01.txt

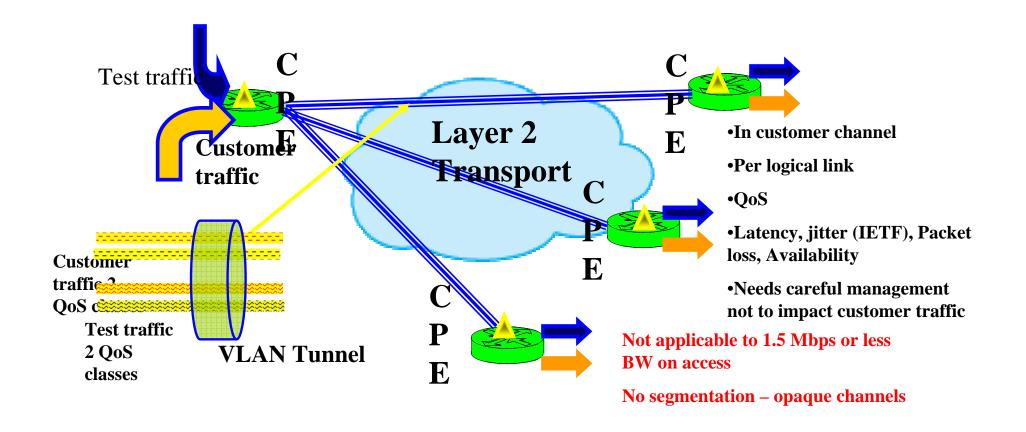
TWAMP

for In channel per customer PM (ICPM)

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In channel per customer PM (ICPM)



Performance Measuring Deployment ICPM Today – ICMP+

- Network Performance Testing conducted from the Ethernet Demarcation Device
 - Canoga Perkins 9145 NID running Network Performance Assurance (NPA) Software Option
 - Uses ICMP Ping with Originator and Responder NID Ingress and Egress Time Stamps Placed in the User Data Field
 - 4 Time Stamps allow local processing time to be extracted
 - Latency, Jitter & Frame Loss Test Metrics
 - Configurable Test Parameters
 - Test Frequency, Test Duration, Test Rate, Frame Size
 - Compatible with Generic IP Devices as Responders
 - Round Trip Measurements Only
 - Operates across Multiple Networks (NNIs)

Performance Measuring Deployment: Results Management

9145 NID Test Results Capture

- Test Identity Information
- Number of Lost Frames
- Latency Range 10 Buckets, User Configurable for Time Values
- Jitter Range 9 Buckets, User Configurable for Time Values

Performance Collection System (PCS)

- CanogaView SEM Application Plug-in
- Collects Results from 9145 NIDs
- Compiles Reports Information for Distribution
- Manages Test Profiles allowing a common policy, scheduling, synchronization and provisioning tool for all Network NIDs

Performance Measuring Deployment ICPM TWAMP

- TWAMP accomplishes Performance Monitoring similar to Canoga Perkins' NPA
 - Principle Differences is TWAMP provides for negotiation of UDP Port usage and Encryption of Frame Contents
- Canoga Perkins plans to Schedule TWAMP implementation upon ratification
 - NPA will continue to be supported
 - Separate Originator NPA and TWAMP Options (exclusive)
 - Combined and Concurrent NPA and TWAMP Reflector
 - Performance Collection System will collected both NPA and TWAMP Test Results from the NIDs for consolidation and distribution to Higher Order Systems.
 - Canoga is coordinating TWAMP implantation with Brix Networks for interoperability
- TWAMP provides the interoperability with other TWAMP implementations as well as standard measure of performance