



EANTC

Welcome to the March Newsletter from EANTC – The European Advanced Networking Test Center.

Latest EANTC Interoperability test confirms MPLS is here to stay

In February, EANTC presented the results of this spring's interoperability test at the MPLS and Ethernet World Congress 2010 in Paris. For the eighth time in a row, EANTC validated the latest advances in MPLS and Carrier Ethernet based transport networks – testimony to the continued importance and innovation of this technology over the years.

Prior to the event, EANTC organized a two-week hot staging in our Berlin lab in January. 13 participating vendors used this opportunity to validate interoperability of their devices in a range of new test areas, focusing specifically **Mobile Backhaul Synchronization**, pre-draft standard **MPLS-TP** and **Ethernet Ring Protection**.

„The fact that MPLS and Carrier Ethernet are well established today means that the industry can rely on a rock-solid, widely supported technology platform with solutions for almost every market,“ summarized Carsten Rossenhövel, Managing Director of EANTC.

We invite you to witness the results of the test on EANTC's web site. The detailed findings of our test are available at:

<http://www.eantc.com/mplsewc2010>

We provide three video clips where vendors and EANTC summarize the results of the interoperability showcase:

http://www.eantc.com/mplsewc2010_videos

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Alcatel-Lucent 1850TSS VPN Service Protection Performance Validated

Alcatel-Lucent has commissioned EANTC to conduct a test of Alcatel-Lucent's 1850 Transport Service Switch (TSS) protection performance.

We emulated up to 4,000 Ethernet VPNs across 10Gigabit Ethernet interfaces services using Spirent's TestCenter HyperMetrics CV. The tests confirmed that the 1850 TSS can protect each VPN tunnel against link failure within the industry-standard benchmark for recovery performance – 50 ms.

In fact, the solution performed consistent failure recovery for all 4,000 services even faster: EANTC measuring 35–37 milliseconds for complete service restoration. Failure recovery (in revertive mode) showed consistent results as well at 4–7 ms. The tests show that Alcatel-Lucent's 1850 TSS is a capable solution for today's converged carrier networks looking for reliable protection.

For detailed information, look at EANTC's Website: <http://www.eantc.com/test-reports>

Global Interconnect Interoperability Validation Off To A Promising Start

Ancotel And EANTC Completed First Phase

The results of the pilot phase of EANTC's extensive Carrier Ethernet Global Interconnect test program for service providers are in. Set-up as the first step in a year-long effort, we welcomed six European carriers to our test in February: BSO Network Solutions, Level 3, Neterra, P&TLuxembourg, Tinet, and Ucomline.

It was the first public effort of its kind worldwide to validate and showcase end-to-end functionality and high availability of Carrier Ethernet services across production networks from multiple carriers.

The program was launched based on the External Network-Network Interface (ENNI) as recently ratified by the Metro Ethernet Forum (MEF). The first test phase saw EANTC and ancotel join up with service

providers looking to evaluate their Carrier Ethernet services interconnections in a public, independent, multi-party effort.

Test setup

The participating service providers were locally connected at ancotel's telehouse in Frankfurt, Germany. Each made at least one UNI (User-Network Interface) port and one ENNI port available for testing. Three of the carriers provided two physical ENNI ports to test link protection using a link aggregation group. Each of the providers provisioned their services in accordance with the test configuration plan.

Highlights Of The Test

- Carrier Ethernet service interconnection works already well today (tested in small scale) for all participating service providers, independent of the size or geographic coverage of the carrier.
- Interconnection was straightforward in only a few cases from the beginning. EANTC observed some configuration pitfalls related to ENNI options. They can be addressed by introducing standardized procedures to validate the first time interconnection and circuit provisioning.
- Proper selection of the Ethernet peering switches helps to ensure full support of all ENNI options expected.

All service providers involved were able to overcome the initial problems within the test interval of only two weeks. The participants demonstrated perfect functional interoperability in all supported basic Carrier Ethernet point-to-point service combinations. Lack of support for standby links in link aggregation groups in some equipment prevented us from using a protection mechanism fully compliant with the ENNI specification. Nevertheless, the conventional link aggregation proved to be a reliable workaround in our interoperability scenario.



[Our detailed, independent report on the test campaign and video interviews with service providers have been published by Light Reading.](#)

The full test report can be downloaded from EANTC's website at: <http://www.eantc.com/cegi2010>

The service provider interviews recorded in Paris can be watched from our web site as well:

http://www.eantc.de/cegi2010_videos

Watch out for the next phases of the Interconnect test campaign which will focus on differentiated services and service levels, multipoint services and hairpin switching as well as fault and performance monitoring across end-to-end services with European and worldwide service providers.

The results of the second phase will be showcased at Light Reading Ethernet Europe in London, April 12/13.

Upcoming Events

It would be a great pleasure to meet you at:



[Light Reading Ethernet Europe](#) in London, April 12/13, 2010 with EANTC Global Interconnect Showcase, live demonstrations



[MEF \(Metro Ethernet Forum\)](#) Meeting in Prag, April 19-22



[Carrier Ethernet World Congress](#) in Warsaw, Poland, September 20-23, 2010

Hot Staging Rack Setup – MPLS & Ethernet World Congress 2010 Interoperability Event:

