

Isocore Undertakes First-Ever Comprehensive Interoperability Testing of mVPN and testing of other Key Internet Technologies: MPLS-TP, Multicast LDP In-band Signaling, and IPV6 Transition

RESTON, Va-- Isocore announced the completion of its fall Leading Edge Code (LEC) testing which validated key technologies such as MPLS-TP, mLDP, mVPN and IPv6. These technologies are critical to the deployment of next-gen transport networks and large public and private networks that support both unicast and multicast traffic. The successful results reflect the maturity of vendor implementations as per the latest IETF specifications.

The test plan included multi-vendor verification of MPLS-TP forwarding, OAM, protection and integration with IP/MPLS. A comprehensive suite of OAM mechanisms were tested, including BFD continuity check, remote defect indication, LSP Ping on-demand verification and LSP route tracing. Resiliency test cases validated linear 1:1 protection with consistent sub 50 ms results, RFC-based Protection State Coordination (PSC) protocol for administrative switchovers and pseudo wire redundancy. In addition, integration with IP/MPLS was validated to create a single MPLS infrastructure where end-to-end services could be deployed seamlessly. Furthermore, Isocore embarked on testing of P2MP configuration over MPLS-TP.

For the first time, the testing focused on multicast LDP (mLDP) in-band signaling and mVPN (multicast Virtual Private Network). The mLDP tests used global in-band signaling on an IPv4 MPLS network to transport IPv4 and IPv6 multicast traffic. A total of five different profiles were tested for mVPN. They included PIM and BGP for C-Multicast routing and various core tree protocols: PIM, mLDP, RSVP-TE and ingress replication. These results constitute the most comprehensive achieved in the industry today.

Isocore also tested comprehensively the IPv6 migration solutions with Dual-Stack Lite and 6PE scenarios. Dual stack Lite is a promising approach in which a service provider can deploy IPv6 and still provide an IPv4 service. 6PE is a technique to interconnect IPv6 islands over an IPv4 MPLS.

The test setup for the event consisted of network elements from Brocade Communication Systems (NASDAQ GS: BRCD), Cisco Systems (NASDAQ: CSCO), Ericsson (NASDAQ: ERIC), Juniper Networks (NASDAQ: JNPR), NEC Corporation (NEC; TSE: 6701), and Spirent Communications (LSE: SPT). MPLS2012 public interop demonstration, taking place following the MPLS 2012 International Conference (www.mpls2012.com) at Isocore, will showcase the results of this recently concluded testing.

About Isocore

Isocore provides technology validation, certification and product evaluation services in emerging and next generation Internet and wireless technologies. Isocore is leading validation and interoperability of novel technologies including MPLS-TP, Carrier Ethernet, IPv6, Optical Transport Integration, wireless backhauling and Layer 2/3 VPNs. It currently focuses on MPLS-TP, SDN, and deployable cloud service architecture validation and design. Major router and switch vendors, Service Providers, and test equipment suppliers participate in Isocore activities.

Isocore has major offices in the USA (Washington DC area), Europe (Paris, France) and Asia (Tokyo, Japan).

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