



MPLScon 2006

24 May 2006



Interconnected MPLS

The Modern Service Delivery Environment

Leo McCloskey, EDS Sr Dir, Network Strategy & Opportunity Management leo.mccloskey@eds.com

Who am I? What am I talking about?

Biography:

Leo McCloskey has over 20 years of experience in carrier and enterprise communications services. He has worked in the USA and Europe for both Network and IT Service Providers. Leo is the senior director for networking strategy, opportunity management and partner development for Networking Services.

Description:

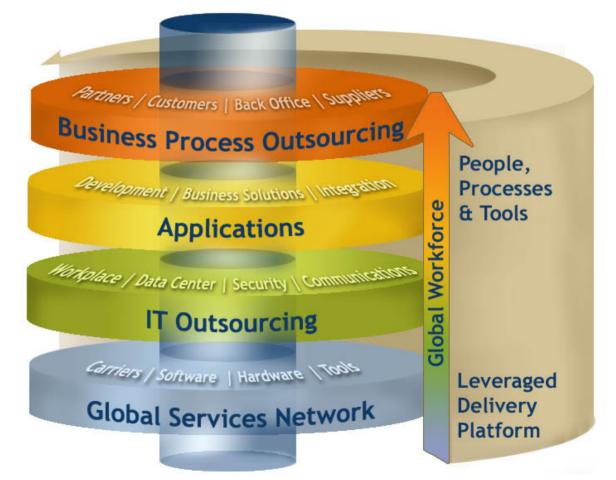
MPLS is the default network for Enterprises concerned about quality networking, and will be required for Enterprises that adopt Microsoft's new operating system, Vista. Enterprises are multi-sourcing their networks, creating interconnectivity need. Compounding this is the trend to multi-source across the Enterprise – IT Outsourcing, Business Process Outsourcing. All of these vendors solutions must be interconnected with the Enterprise in a secure and well-managed way.

Interconnectivity is the key for successful implementation of an MPLS network in a multisourced environment. This presentation will walk you through the implementation of interconnected MPLS networks, the business and operational processes that need to be considered, and lessons learned from implementation at EDS, as well as discuss the technology used. We will also cover key items for success, including the use of best-ofbreed vendors.



Network is the Foundation but Process is the Key

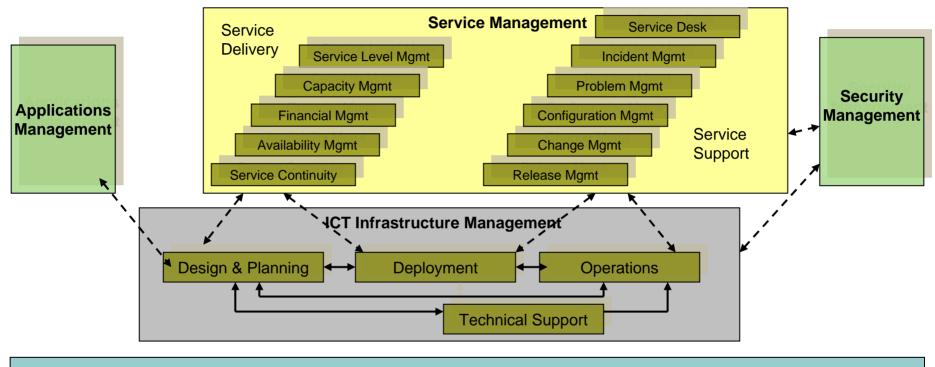
- Goal of the SI is to manage from Service down – must have endend visibility
- Growth opportunities are in Application and BPO
- ITO trending toward more suppliers and growing complexity
- ITO Management based on ITIL
- ICTIM creates client service delivery and lifecycle management framework
- eTOM and ITIL alignment essential





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Service Delivery based on Industry Standards



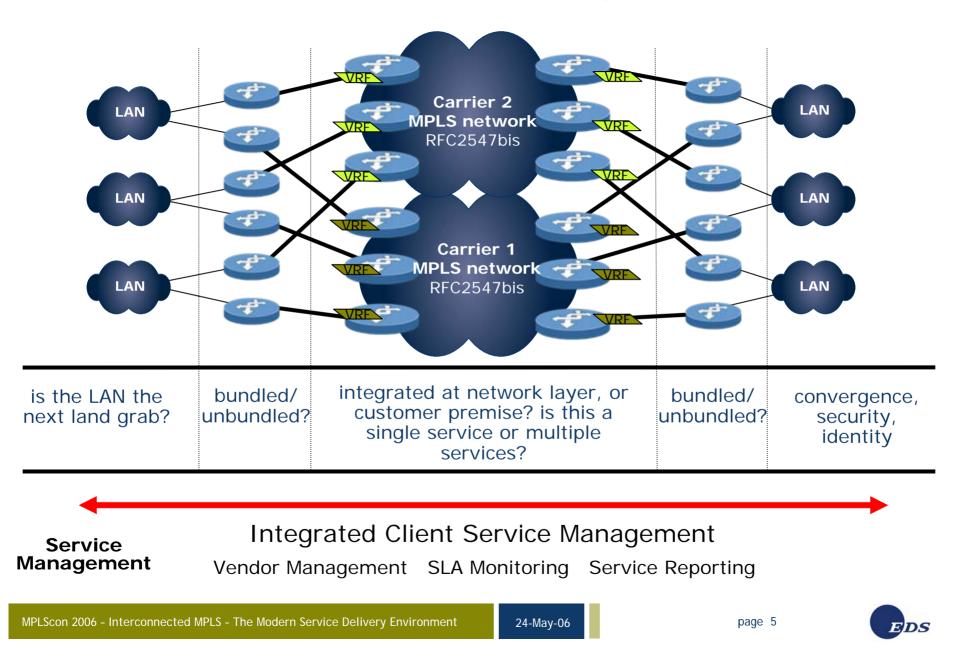
Program/Project Management

Business Management

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Evolution of Network Service Management Complexity...



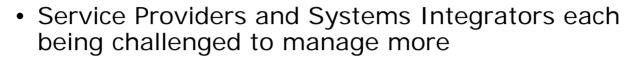
...Intensified by Convergence and Explosion at the Edge...











- In 5 years time, what is the distinction?
- Clients are requiring single networks for all services
 - Streamline management cost onto single network
 - But integrated across all business support environments
- Number of devices is exploding
 - Desktops will become much more demanding with Microsoft Vista
 - Mobility is everywhere
 - Inventory is aware (RFID)
 - Access must be ubiquitous

















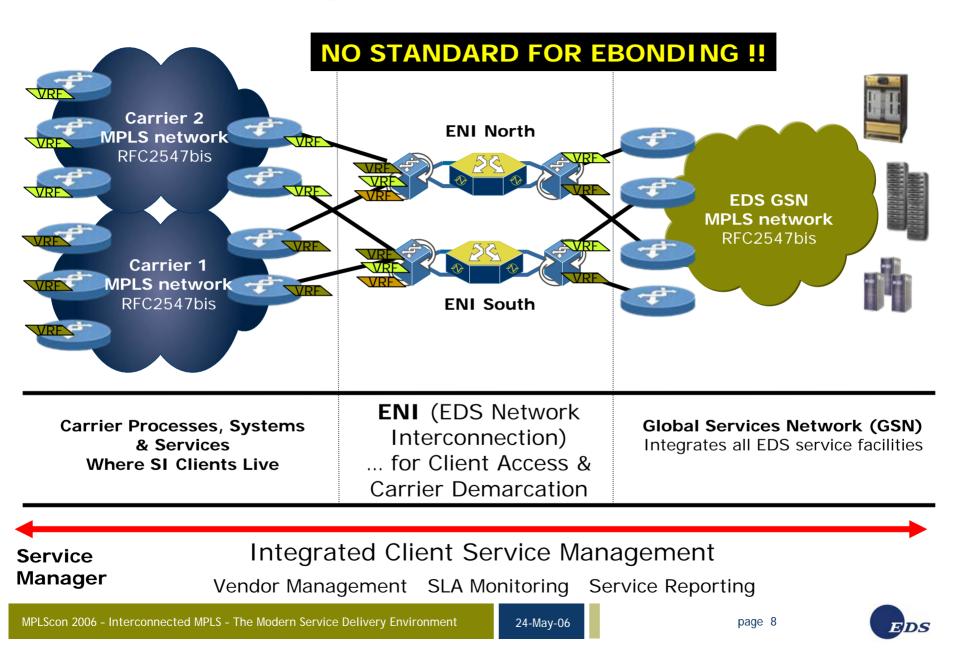


... Amplified by The Virtual Data Center Goal

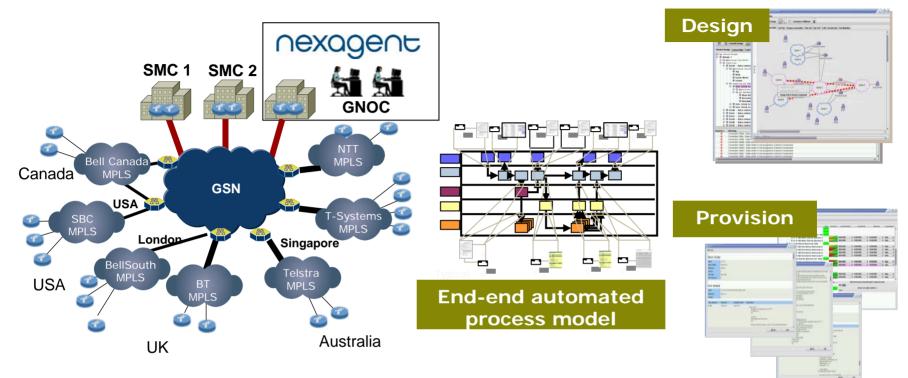
- Movement toward "dim lights" or "lights out" data center
 - Facility is no longer the primary driver
 - Confluence of many factors: available capacity, throughput metrics, security, device requesting
- Data center becomes the network
 - All resources available from anywhere
 - Create private 2547 infrastructure globally
 - Integrate data center network with carrier platforms
- Any resource, anywhere, anytime
 - End-end management
 - Assured, tracked, logged



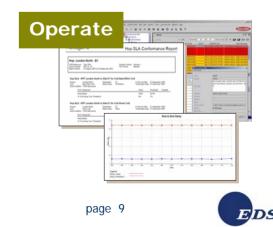
EDS Services Integrated to Carrier Transport



What is an ENI?

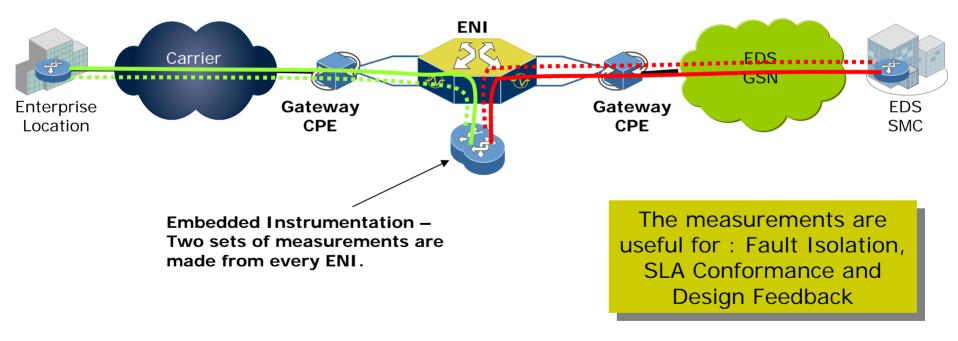


- ENI integrates EDS services on GSN into Client networking environments
- ENI is a process driven model that enables global process and more efficient sales and customer service



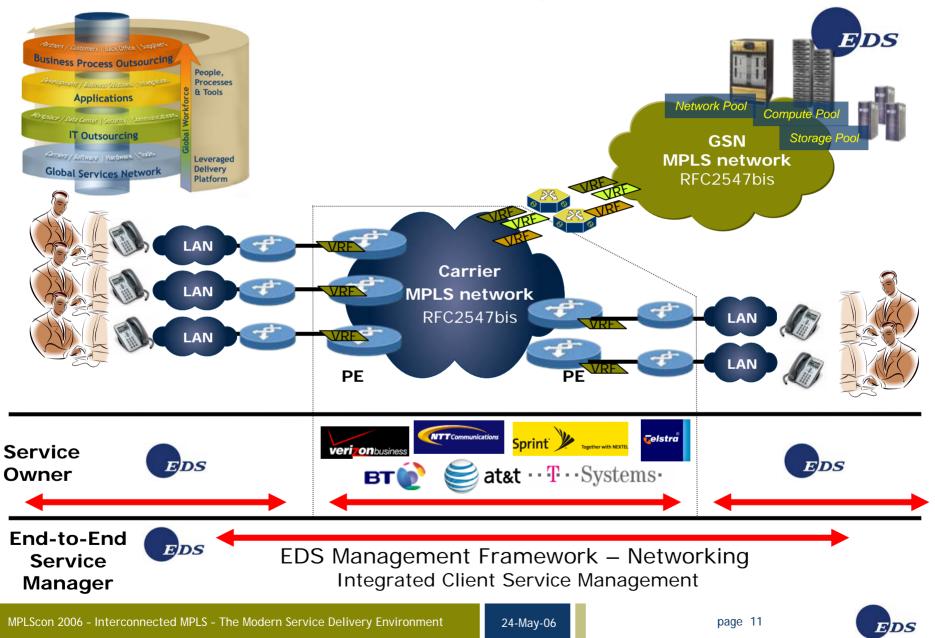
Service Delivery - Independent Service Assurance

- Embedded instrumentation within each ENI measures key 'hop' performance indicators to demonstrate carrier performance using active probes generated intra-VPN
- Individual 'per-hop' performance indicators are aggregated to provide end-to-end performance indicators



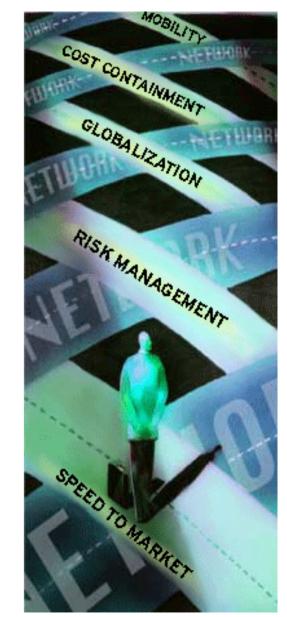


Service Delivery Internetworking



Summary

- Adoption of Standards an Imperative
 - Manage-ability and eBonding are more important than packet flows
 - Multi-Network MPLS Interconnection
- Process Frameworks are Essential
 - eTOM widespread in Telco
 - ITIL widespread in SI
 - ICTIM aligns leveraged infrastructure to client need
- Complexity and Multi-Sourcing will only Grow
 - Market driven select outsourcing
- The key a relentless focus on comprehensive client service management
 - Exceptional performance
 - Trend to End User Experience Management











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Thank You