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Telstra Modernizes Network to Offer Next-Gen Services

Move from ATM to MPLS Reduces Operating Expenses

CHALLENGE

Telstra had multiple overlay networks, including an ATM Frame Relay network, an IP network as well as an Ethernet network. Maintaining multiple overlay networks incurred high Operating Expenses (OpEx) and made offering new next-gen services inefficient.

Telstra planned on investing in best-of-breed next-generation technologies to improve services to customers and reduce cost and complexity in its network by flattening architecture and reducing footprint. They needed to alleviate capacity constraints and cap investment in the legacy infrastructure.

Telstra decided to transform its core infrastructure into a single IP backbone using Multiprotocol Label Switching (MPLS) to carry virtually any type of voice, video, and data traffic.

SOLUTION

Coriant worked with Telstra to transform the network to provide new services over an integrated and simplified next-generation network.

Network modernization and migration of traffic is a complex process. Coriant delivers a unique combination of industry experience, automated tools, technical resources, and dedicated project management to ensure the process is executed efficiently with minimal downtime and service disruption.

The Coriant™ Modernization and Migration Services (MMS) enable network operators to replace aging and unreliable networks with next-generation equipment that offers increased capacity and lower operational expense.

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Customer



Location

Australia

Challenge

- Alleviate network capacity constraints
- Streamline network architecture
- Offer new next-gen services efficiently
- Reduce OpEx

Solution

- Coriant™ Modernization and Migration Services (MMS)
- Coriant™ 8800 Smart Routers

Results

- Network modernized within 18 months
- Network streamlined with 74% fewer network elements
- Improved network reliability and efficiency

Coriant provides fast and accurate migration of existing services through customized software tools that streamline the circuit reconciliation and mapping process, significantly reducing the planning and auditing cycle. The mechanized process virtually eliminates costly delays and errors that can occur with complex network migrations. With Coriant automation tools, circuits are switched properly the first time, eliminating the need to investigate and resolve costly errors that can arise with migrations that involve manual data entry and update.

Coriant has successfully migrated traffic in a variety of vendor and network architecture environments, demonstrating tried and true techniques that are designed to minimize service disruptions by transparently rolling current customer traffic to newer equipment.

In addition to providing rapid deployment of next-generation networks with reliable migration of live traffic, MMS delivers significant savings through an audit process that identifies stranded or inaccessible capacity – recovery of which can be used to generate new revenue streams. Additional savings are realized through reclaimed floor space, reduced power requirements, and fewer resources required to provision and maintain embedded or multi-vendor equipment, which translate into greater operational efficiency.

The new Telstra solution created regional and metropolitan Ethernet networks. All ATM/FR traffic was moved from legacy switches to a new IP/MPLS core network via a user-to-network interface. An MPLS solution was introduced into the core of Telstra’s existing ATM network. In less than 18 months, the operator unveiled the largest fully integrated wireline and wireless national Internet Protocol (IP) network in the world – the Next-IP Network. The network serves over 95% of Australian businesses.

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RESULTS

The Telstra Next-IP network provides world-class reliability, enhanced security and its IP/MPLS core is scalable up to 92 Tbps per node and offers 99.999% reliability. The new network offers customers unified communications, virtual meetings, and instant collaboration, instant messaging, multimedia web conferencing and more – all with a single, simple interface across all devices. The modernization program streamlined the network, replacing 856 nodes with 220 Coriant™ 8800 Smart Routers resulting in a 74.3% decrease in infrastructure.

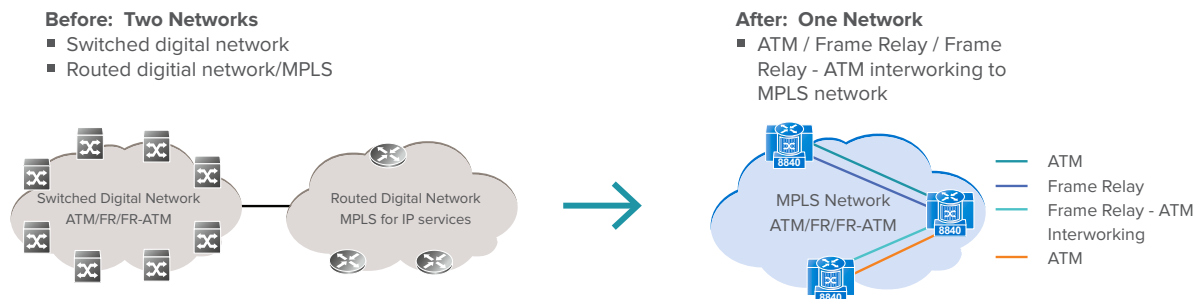


Figure 1: The network modernization program replaced 856 nodes with 220 Coriant™ 8800 Smart Routers, a 74.3% decrease in infrastructure.

ABOUT TELSTRA

Telstra is a leading Australia-based, Tier 1 telecommunications and media services company, offering a full range of communications services.

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