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Network Migration Reduces OpEx and Improves Network Performance

Professional Services Deliver Ambitious Network Upgrade

CHALLENGE

Normally, telecommunications equipment that has been manufacturer-discontinued will function for several more years. During those years, the equipment becomes much more difficult for the manufacturer to support and typically experiences more frequent problems. In large Central Offices (COs), equipment failure can lead to traffic outages and Service Level Agreement (SLA) violations, costing carriers considerable time and money to correct the problems and satisfy SLA penalties.

SOLUTION

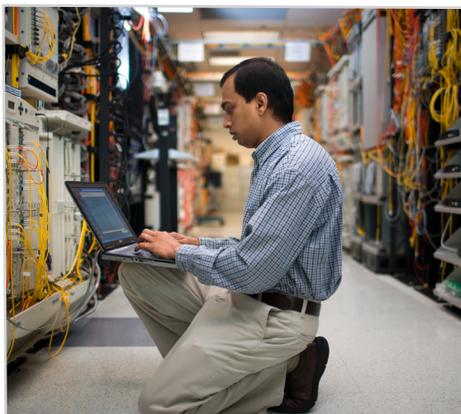
The service provider originally planned to gradually re-engineer circuits from their legacy systems to the 5500 DCS. Coriant partnered with the service provider to audit legacy systems and plan a smooth network migration.

In one office, concerns regarding equipment safety and traffic disruptions made replacing the legacy system a higher priority. Coriant met with the service provider's personnel to discuss the Coriant™ Modernization and Migration Services (MMS) and how the service provider could benefit from Coriant's experience of removing old equipment from telecommunications networks.

PROJECT 1

Engaging Coriant Professional Services to perform migration activities enabled the service provider to combine Coriant planning and project management expertise with their own in-house engineering team. Coriant engineers worked with the service provider's network planners to audit the legacy system and create, review and approve a detailed migration plan and Method of Procedure (MOP). Service provider technicians, working closely with a Coriant planning and design engineer and a Coriant project manager, used the Coriant plan to quickly transfer traffic from the legacy system to the 5500 DCS.

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.



Customer

A major telecommunications service provider

Location

North America

Challenge

- Replace legacy switching systems
- Minimize service disruption to customers during migration
- Leverage Coriant professional services

Solution

- Accelerated program delivery by using Coriant™ Professional Services including network audit, planning and design services
- De-risked migration with Coriant™ Modernization and Migration Services (MMS)
- Leveraged Coriant technical expertise with Project Management and Training support
- Installed 5500 DCS

Results

- Reduced network complexity by migrating to a flexible, ROADM-based single-vendor network
- Enabled a range of new, faster services to be offered
- Simplified network management and reduced training requirements
- Improved network resilience with a more consolidated network

A total of 75 DS-3 and 391 DS-1 circuits were transitioned. Approximately four weeks were required to audit the legacy system and create, review and approve the migration plan and MOP. It took approximately another six weeks to perform the physical migration activities.

PROJECT 2

Shortly after completing the first project, the service provider's largest CO began to experience serious framing problems with another legacy system, resulting in long traffic disruptions on a large number of DS-3 ports. While its technicians tried to work with the manufacturer to correct the problems, the service provider continued to move individual circuits off the legacy system in order to restore traffic and was required to pay penalties to customers with SLAs when traffic was disrupted. Several individuals involved in this outage situation were aware of the previous successful migration project and asked whether Coriant could provide assistance with the CO outages.

Because the failing equipment was causing significant outages and growing expenditures in technician time and SLA penalties, the service provider requested expedited service from Coriant. Just three days after the legacy system began to experience problems, Coriant met with the service provider's planners to discuss various options.

Coriant engineers were on site two days after that meeting. They performed a complete circuit audit and began developing the migration plan and MOP. A fortnight later, Coriant NMP engineers returned to the site with an approved plan and MOP and began training the service provider's technicians on the recommended migration methodology. The failing legacy system was completely removed from the service provider's network three weeks later, with all traffic successfully flowing through the 5500 DCS.

RESULTS

Coriant delivered the initial project successfully, in record time, and our track record encouraged the customer to leverage their expertise again for the second project and help stem the outages and resulting penalties.

In less than two calendar months, Coriant engineering and project management experts, along with the service provider's technicians, had completely removed a failing legacy system and successfully transferred 144 DS-3 circuits and 720 DS-1 circuits from the failing system to the 5500 DCS.

The service provider was able to meet customer SLAs, avoid payments for failure to conform to SLA commitments, and reduce operating expenses by eliminating the need to continually address problems on failing equipment.

At the conclusion of the project, the service provider's project manager stated, "I am happy to announce that the physical migration to the new 5500 DCS is complete, and in record time. The Coriant-developed plan proved to be an efficient and effective way to quickly migrate the circuits off manufacturer-discontinued equipment that posed a fire hazard."

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