

CORIANT IS NOW PART OF INFINERA

Coriant Transcend™ Chorus for Transport

Multi-Layer Management for Highly Complex Networks

The traffic explosion fueled by data center connectivity, cloud services, and residential video, combined with the need to support fixed and enterprise services over a converged infrastructure, places tremendous pressure on transport networks. To address increasing traffic demands, network operators need extremely flexible, high-capacity solutions with the lowest possible cost per bit to enable rapid deployment of services, simplify integration of new technologies, and maximize the utilization of existing assets. The Coriant® Transport Network Management System (Chorus) offers a next-generation platform to unleash the potential of transport networks with exceptional operational efficiency.

ADVANCED ARCHITECTURE FOR SIMPLIFIED NETWORK SUPERVISION

Based on a layered approach for logical and physical organization of components, the Chorus architecture is a true multi-platform, state-of-the-art solution supporting deployments in different types of operating systems. Chorus implementation is based on J2EE standards and employs WildFly Application Server software. Using an SOA-based architecture with highly independent Common Function/Technology Managers covering specific feature areas, Chorus provides supervision of all processes, automatic restart/resynchronization, and integration of hardware and software monitoring into fault management.

Chorus architecture benefits include:

- Enhanced scalability and flexibility
- Modular services for easy maintenance
- Reusability and portability
- Interoperability with the full Coriant product portfolio
- Strong resiliency and interoperability through integrated management
- Highly secure transactional system

CHORUS AND THE CORIANT TRANSCEND™ SOFTWARE SUITE

In addition to providing a single integrated network management platform, the Chorus offering is further enhanced by Coriant Transcend™ SDN and the Coriant Transcend™ Portal. The Coriant Transcend™ Software Suite provides multi-layer network efficiencies and next-generation service innovation for the following Coriant solutions: Coriant® Pluggable Optical Layer; Coriant Dynamic Optical Cloud™; Coriant CloudWave™ Optics.

BENEFITS OF CORIANT® CHORUS

- **Enable** seamless end-to-end network management of Coriant portfolio solutions
- **Improve** network efficiency with coordinated multi-layer, multi-product management
- **Reduce** OpEx with fast and flexible provisioning of multiple services, intuitive GUIs, and streamlined staff training
- **Reduce** CapEx with pay-as-you-grow flexibility and improved resource utilization
- **Accelerate** time-to-service with end-to-end, point-and-click provisioning and full service visibility and control
- **Improve** network reliability and scalability with a full suite of management capabilities field-proven in Tier 1 carrier networks
- **Simplify** integration in multi-vendor environments with open interfaces and advanced service interworking



MANAGING END-TO-END MULTI-LAYER NETWORKS

Chorus is an end-to-end management platform that enables operators to easily and cost effectively manage multi-layer (DWDM, OTN, SDH, MPLS-TP, and IP/Ethernet), multi-domain (access, metro, core), and multi-vendor networks. Chorus integrates into existing OSS environments and empowers a holistic approach to network and service management. With a full suite of end-to-end management capabilities, Chorus gives network operators the tools to simplify provisioning and efficiently control a broad range of TDM and packet-based end-user services driving lower OpEx and faster return on investment.

As a single management system for all equipment types and diverse technologies, Chorus offers supervision of each service (e.g., lambda, OTN, MPLS-TP, Ethernet) across all network elements and includes a dedicated GMPLS/ASON manager for enhanced multi-layer control and improved service resiliency. With a feature set field proven around the world, Chorus combines easy-to-understand network views and simple navigation with uniform fault, configuration, security, performance management, and service correlation functions. The scalable, pay-as-you-grow solution includes a standard and intuitive user interface to ensure straightforward operation and smooth integration into multi-vendor environments.

INCREASING PRODUCTIVITY WITH AUTOMATION TOOLS

Chorus supports automation capabilities to minimize OpEx and perform regular network tasks including:

- **Bulk NE Configuration** – CLI based script distributed and controlled by the NMS to the full network
- **Inventory Management** – regularly collects and records each NE inventory
- **NE Configuration Backup** – provides automatic or scheduled backup of NE configuration files (MIBs, VCDBs, Conf)
- **NE SW Upgrade** – simplifies network upgrade
- **NE User Management** – offers security compliance in the network with regular user password updates and easy user account management

INTEGRATING NBI

Chorus northbound interfaces follow existing standards and provide fault management, configuration management, and performance management functionalities. To support the integration into operator umbrella solutions, Chorus features the following diverse set of northbound interfaces:

- SNMP: Both SNMP v2 and SNMP v3
- TMF 814 Releases 2.1, 3.0, and 4.5
- REST API (PRESTO LSO)

PLANNING FOR RAPID SERVICE DEPLOYMENT

Fast and efficient operational procedures, from planning to maintenance, accelerate time-to-service deployment and increase revenue. Chorus planning capabilities enable network operators to quickly deploy high-bandwidth service capacity while simplifying the planning and management of end-to-end optical services. In addition, Chorus optimizes existing assets and prepares transport networks for the future as demand for dynamic optical capacity intensifies.

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