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Coriant Transcend™ Chorus for Packet - Basic Package (8000 Intelligent Network Manager)

Versatile Set of Network Build and Configuration Tools

Coriant Transcend™ Chorus is a powerful element, network, and service management system for Coriant and third-party network elements. Currently supported devices include Coriant® 8600 and 8800 Smart Routers, Coriant® 7090 CE Packet Transport Platform, Coriant® 6300 Series, and Coriant® 8100 Managed Access System. The solution offers a programmable and easily extendable network management platform specializing in advanced end-to-end service management, monitoring, and troubleshooting as well as other network-level automation tools. The Transcend Chorus solution has a powerful normalized network model and southbound integration layer providing smooth and fast integration of new devices.

The Basic Package is a key component of Transcend Chorus and includes a well-defined set of tools for efficient element management, network building, and system maintenance. The Basic Package is required to run all other optional network management applications.

NETWORK EDITOR AND NODE EDITOR
The Network Editor and Node Editor are two closely linked network building tools. With these tools, a user can define the topology of a network and configure it. The operator can build, view and edit the network model by placing network elements into the network, equip network elements with line cards, equip line cards with interface modules and add links to the network. The user is also able to plan and design the network before any hardware is in place.

NODE MANAGER
The Node Manager provides applications to set parameters to the network elements, interfaces and to monitor existing parameters. Transcend Chorus can also set up routing protocols. With the templates provided by the Node Manager, it is possible to set parameters for large numbers of network elements efficiently. It also supports the network element auto-discovery and consistency check of network element configuration against information stored in the database. The Node Manager feature is available for the Coriant® 8100 Managed Access System and the 8600 and 8800 Smart Routers.

BENEFITS OF CORIANT TRANSCEND™ CHORUS FOR PACKET - BASIC PACKAGE

- **Define and configure network topology**

- **Simplify commissioning and configuration** of network infrastructure

- **Access fault report information** in real-time across all node families

- **Speed up root cause analysis**

- **Deliver enhanced reporting** with customizable reports

- **Prevent duplicate IP addresses** which can adversely impact network configuration

- **Verify and monitor Ethernet network connectivity**

CONFIGURATION WIZARDS

Transcend Chorus has several wizard tools which greatly simplify commissioning and configuring the network infrastructure, including:

- Node Configuration Wizard for 8605, 8607, 8609 and 8611 Smart Routers

- Multi-node Creation Tool which uses the Node Configuration Wizard functionality to automate the configuration process for a large number of 8600 router nodes

- Trunk Provisioning Tool

- Multi-Trunk Provisioning Tool

- Multi-Node Deployment Tool for pre-planning configuration and services for nodes that will be automatically deployed when the 8605, 8609 or 8611 Smart Router has been physically installed.

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FAULT MANAGEMENT FOR NETWORK ELEMENTS

The Fault Management System collects fault information from the network to the database and reports the faults in real-time using a specific GUI. All faults are divided into different classes according to their severity, indicated by configurable color-coding. If necessary, faults can be filtered to find the root cause more quickly. Fault collection is based on continuous network polling and/or autonomous events depending on the Network Element family. The Fault Management System also stores the fault history in the database for further analysis.

CUSTOMER ADMINISTRATION

The Customer Administration feature allows users to maintain information about the customers, their sites and the network elements and interfaces associated with each site in Transcend Chorus.

SECURITY MANAGEMENT

The Security Management feature provides tools to control the user access to the network management system. Access control is based on user names, passwords and privileges defining which applications a particular user is allowed to use. Also LDAP and RADIUS authentication is available.

Each user has a user name, password and a set of privileges defined by the administrator. The user name and password are checked during login. The security log provides information about login/logout operations. The audit log provides information about what changes each user makes to the network during his/her session, providing answers to the question "who did what and when". Flexible granularity of the security management feature helps the administrator fine-tune the system to meet the security needs of all kinds of organization structures.

SCHEDULING CENTER

The Scheduling Center Tool is used to schedule tasks in Transcend Chorus. For example, all database related maintenance tasks can be scheduled to be run at night. Also any type of script and command line tasks as well as queries and WebReporter tasks can be scheduled.

IP ADDRESS MANAGEMENT

The IP address management feature prevents duplicate IP addresses in the network, which could potentially interfere with the network configuration. New and changed IP addresses are checked for uniqueness. It is possible to query all IP addresses in the network.

ENHANCED REPORTING TOOL

The Enhanced Reporting Tool provides a central, flexible location to query the Transcend Chorus database for inventory and services. Reports can be customized and stored for later use or sharing, and they can be scheduled to be run at specific times.

OAM MANAGEMENT TOOL

The OAM Management Tool is used to manage Ethernet operations, administration and maintenance (OAM) functions, defined in IEEE 802.1ag and ITU-T Y.1731 standards. Ethernet OAM monitoring objects as well as mechanisms and protocols like Continuity Check (CC), Loopback (LB), Link Trace (LT), Frame Loss Measurement (LM) and Frame Delay Measurement (DM) are managed with this tool.

TROUBLE TICKET

The Trouble Ticket Tool records, manages and controls service problems associated with network connections, customers and elements to facilitate a service provider workflow. Network faults detected by the Fault Management feature can also be assigned to a trouble ticket.

SYNCHRONIZATION MONITORING TOOL

The Synchronization Monitoring Tool monitors the synchronization clock flow throughout the 8100 systems and 6300 Series. With the Synchronization Monitoring Tool, users can check that the synchronization network is configured as planned and locate possible faults in the synchronization network.

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