8000 Intelligent Network Manager
A Powerful Element, Network and Service Management System

The Coriant® 8000 Intelligent Network Manager (INM) is a powerful element, network and service management system supporting Mobile Backhaul, Packet Optical and Business Solutions including support for the following product families:

- Coriant® 5500 Digital Cross-Connect System
- Coriant® 6300 Series
- Coriant® 7100 Packet Optical Transport Platform
- Coriant® 7090 Packet Transport Platform
- Coriant® 8100 Managed Access System
- Coriant® 8600 Smart Routers
- Coriant® 8800 Smart Routers

PROVIDE FULL END-TO-END NETWORK MANAGEMENT ACROSS MULTIPLE TECHNOLOGIES
The 8000 INM provides a complete network management feature set, from deep node level troubleshooting to end-to-end service management. The 8000 INM offers outstanding capacity, scalability and availability features.

Service providers can offer managed TDM and Ethernet services over SDH/SONET, PDH, Ethernet and DWDM networks. They can also deploy IP/VPN, Ethernet, ATM, Frame Relay, TDM and HDLC connectivity services in MPLS networks with capacities from n x 64 kbps up to 100 Gbps. The 8000 INM provides end-to-end management for packet optical applications, 2G, 3G and 4G/LTE mobile transport applications, voice and data transport applications as well as carrier-class intranet and extranet services for corporate customers.

ACCELERATE TIME-TO-REVENUE WITH FAST SERVICE PROVISIONING
The 8000 INM offers fast time-to-revenue with efficient service provisioning and quick troubleshooting capabilities. True end-to-end service provisioning from the WDM layer up to IP/VPNs provides an easier and more efficient way to manage complex networks.

INCREASE EFFICIENCY AND REDUCE OPERATIONAL COSTS
The remote configuration and test tools, automated processes and templates reduce the need for site visits and the time to deliver services.

BENEFITS OF THE CORIANT® 8000 INTELLIGENT NETWORK MANAGER

- Provide full end-to-end network management across multiple technologies
- Accelerate time-to-revenue with fast service provisioning
- Increase efficiency and reduce operational costs
- View network status in real time
- Scale up to 30,000 nodes
- Used by over 200 service providers around the world

DATASHEET
Simplify Network Management and Increase Operational Efficiency with a Powerful, Scalable Network Management System

The Coriant® 8000 Intelligent Network Manager (INM) is a single network management system across optical, mobile and business Ethernet platforms. This powerful platform offers service providers full, end-to-end support for commissioning and monitoring services, making service changes and performing troubleshooting. This single overarching network manager simplifies network management and can improve profitability and competitiveness through operational efficiency. Its advanced graphical user interface (GUI), automated wizards and plug-and-play features guide users through tasks and shorten service provisioning time. The results are faster time to revenue and a reduction in expenses.

The 8000 INM is supported on cost-effective and scalable platforms and operating systems. It can run on a single computer solution for small deployments or scale up to 30,000 nodes, several hundred thousand connections and up to 150 concurrent users operating the network. The system also offers virtualization and various high availability options. The 8000 INM can be seamlessly integrated with other OSS systems and processes through various industry standard and North Bound Interfaces (NBIs).

A single, scalable management platform for multiple technologies, efficient management procedures and fast troubleshooting can produce significant cost savings. Regardless of the network technologies, the same management infrastructure and personnel can be used to manage the entire network.

FLEXIBLE AND SCALABLE DEPLOYMENTS

The 8000 INM is highly flexible and is available in configurations to fit the various needs of different network operators. From small networks to very large deployments, the 8000 INM is designed to match the scalability requirements of your network and can support up to 30,000 nodes. The 8000 INM can also be configured as an EMS-focused solution with deep troubleshooting capabilities and strong OSS integration functionality.

VIEW NETWORK STATUS IN REAL TIME

The management system is easy to learn and use with its advanced GUI, templates and well-defined installation instructions. The centralized database keeps the integrated system tools updated, enabling all users to see the network status in real-time.

KEY FEATURES

In addition to the full traditional EMS/NMS FCAPS functionality, the 8000 INM provides advanced features to help manage networks more efficiently.

- Dashboard enabling easy access to applications which can be customized to the user’s particular needs. It can also include widgets that provide a quick overview of the data that is most relevant to the particular user, (e.g., alarms or PM data).
Pre-Planning Capabilities enabling the network operator to pre-plan and pre-provision the network even before the equipment is installed or remotely accessible. This powerful capability enables the network operator to efficiently manage available resources.

Node Configuration Wizards and Templates to minimize the effort and time to deploy a large number of nodes. This key functionality may significantly reduce common costly errors when turning on new nodes. The Automated Deployment functionality provides further automation of the installation process, enabling service availability only minutes after the physical network element is installed and powered-on.

Packet Loop Test Tool allows node-to-node connectivity, throughput or QoS validation directly from the GUI. The Packet Loop Test tool greatly simplifies node turn-up validation and is extremely useful for troubleshooting network issues.

Service Provisioning Wizards for end-to-end provisioning of MPLS services including IP VPNs and pseudowires. These powerful wizards include configurable templates to help optimize and prevent costly configuration mistakes. The process of creating new IP VPN endpoints can be streamlined using the IP VPN Endpoint Wizard. Similarly, the Cell Site Wizard can be used to automate the provisioning of cell site nodes and the pseudowire connections between the Node B and Radio Network Controller (RNC). Pseudowire Wizards also have a function to automate re-parenting cell sites to a new RNC.

Graphical Pseudowire View to display the resources used by each pseudowire, including RSVP-TE tunnels, IP/MPLS links and network resource status information, which enables faster and simplified troubleshooting.
- **Optical Power Diagnostics Tool** to characterize optical networks, diagnose problems, and manage baseline and threshold power settings on a per-wavelength basis. This tool helps quickly identify span loss issues in the optical network.

![Optical Power Diagnostics Tool](image)

Figure 4: Optical Power Diagnostics Tool

- **IP VPN/Pseudowire Troubleshooting Tool** to guide you through issues with IP VPNs and pseudowires. The Coriant 8000 INM guides you through a series of tests to see what's wrong with connections. The tool checks a list of common issues and provides a visual report, including potential solutions. The tool eliminates significant manual work and reduces the technical experience required of the network technicians.

- **Micro-Topology Tool** to discover and present any provisioned circuit, graphically relating all equipment, protection paths and connections across all network layers and technologies. Integrated PM, alarms and diagnostic tools enable much faster and more efficient troubleshooting.

![Micro-Topology Tool](image)

Figure 5: Micro-Topology Tool

- **Service Fault Monitoring** enables real-time monitoring of end-to-end services such as pseudowires and IP/VPNs, as well as PDH and SDH circuits.

- **Web Reporter Tool** provides network level information on the network elements, capacity and services managed by the 8000 INM. With Web Reporter, network operators can provide authorized users with access to critical network information through web-based reports that can be delivered in HTML, ASCII or Excel format.
Performance Management Tools monitor and report the performance data for the managed network. The performance data can be viewed online or as historical reports. It also includes trend analysis capabilities for interfaces and link utilization.

Unit Software Management Tool provides reports on the installed software and hardware versions in the nodes and enables new software to be downloaded to a select set of nodes.

OSS Integration with a variety of integration methods for common OSS. It is easy to integrate additional or proprietary OSS with specifically designed northbound interfaces. Please contact Coriant Professional Services for additional information on OSS integration.

Third Party Hardware and Software

Operating System
- Windows
- Linux

Supported Database
- Sybase