NetOutlook®

NetOutlook® Network Management Software

SNMP Network Management for the *iConverter*® Multi-Service Platform

NetOutlook Network Management Software is a robust and secure network management application for the iConverter Multi-Service Platform. NetOutlook provides remote management of iConverter media converters, Network Interface Devices (NIDs), T1/E1 and CWDM Multiplexers.

NetOutlook has an intuitive Graphical User Interface (GUI) that provides the ability to remotely monitor network performance, configure hardware parameters, provision services, generate performance reports and perform advanced fault detection.

NetOutlook is used by Service Providers, Enterprises and Governments to leverage the full capabilities of the iConverter multi-service platform:

- Lowers operating costs with remote configuration and provisioning which reduces technician trips to equipment
- Improves network reliability with performance monitoring, fault detection and isolation tools
- Increases end user/subscriber satisfaction with comprehensive performance monitoring



iConverter Multi-Service Platform

Management of *iConverter* chassis and modules is achieved by adding an *iConverter* Network Management Module (NMM2) or a Network Interface Device (NID) with built-in management to the chassis. An *iConverter* NID can manage an *iConverter* chassis of modules, or manage itself as a standalone unit.

NetOutlook Standard Edition provides configuration, monitoring and reporting for all iConverter modules and chassis. The Standard Edition supports IEEE 802.3ah and IP-less management when used with iConverter NIDs.

NetOutlook Carrier Ethernet Edition supports all the functionality of the Standard Edition, and adds advanced Service Management functionality for the *iConverter* GM3 and GM4 NIDs.



NetOutlook Standard Edition

- Intuitive Graphical User Interface (GUI) provides configuration, monitoring and reporting of *iConverter* modules and chassis
- Real-time trap notification provides network status to identify specific network problems and their locations
- Supports SNMPv1, SNMPv2c and SNMPv3
- IP-less management with IEEE 802.3ah and Omnitron's Secure OAM management channels
- Comprehensive Port MIB statistics in graphical format and 802.3ah performance monitoring
- Reporting of optical performance statistics for SFP transceivers equipped on *iConverter* modules
- SNMP Device Discovery utility that automatically detects *iConverter* chassis and modules on the network
- Copy and Paste or Save and Load module configurations for rapid chassis configuration and reconfiguration
- A Print Utility for printing module status and configuration information
- Free lifetime upgrades and 24/7 Technical Support

NetOutlook Carrier Ethernet Edition

Includes all functionality of the Standard Edition and adds management, provisioning and reporting of iConverter GM3 NID, GM4 NID and HybridNID[®] for business services and mobile backhaul:

- Zero-Touch Provisioning
- RFC 2544 and ITU-T Y.1564 Service Testing
- IEEE 802.1ag Connectivity Fault Management
- ITU-T Y.1731 Performance Monitoring
- IEEE 1588v2 Transparent Clock and ITU-T G.8261 Synchronous Ethernet
- ITU-T G.8031 and G.8032 Protection Switching



STANDARD EDITION

NetOutlook is a powerful Graphical User Interface (GUI) that serves as a single integrated point of access to the entire suite of *iConverter* products. Chassis and module functionality is accessible through NetOutlook including configuration, troubleshooting, maintenance and performance monitoring.

IP-Less Management

Omnitron's secure IP-Less remote management channel allows management of a large number of modules and chassis through one IP address. It also provides an added level of security for the management channel that is not affected by end-user actions or traffic on the system. The IP address is isolated to a physically secure management station at the network core, and does not exist on the fiber link or on the Network Interface Device at the network edge.

Fault Notification

NetOutlook provides real-time visibility into the operational state of *iConverter* equipment:

- Hardware/Software Configuration Change
- Security Events
- Primary/Secondary Link Up/Down Notification
- Dying Gasp Notification

All monitored events are logged and accessible through *NetOutlook*.

Remote Configuration

NetOutlook allows remote configuration of all product functionality:

- VLAN membership assignments
- Quality of Service (QoS) prioritization, Port Access Control, Bandwidth Control
- Auto-Negotiation and Duplex Modes
- Link Fault Detection Modes
- DWDM Wavelength Tuning

NetOutlook allows network parameters to be remotely configured from a single location, providing a convenient and time-saving solution for large-scale deployments.

Network Monitoring

NetOutlook provides a graphical display of RMON statistics, including bandwidth utilization and network performance, link and data receive/transmit status. 802.3ah Performance Monitoring provides the detection and notification of link performance (quality) faults. NetOutlook can also report optical performance statistics from Small Form Pluggables (SFPs).

CARRIER ETHERNET EDITION

NetOutlook Carrier Ethernet Edition adds the ability to manage, provision and monitor Carrier Ethernet mobile backhaul and business services. NetOutlook Carrier Ethernet Edition supports all features in the Standard Edition, and adds Service Management functionality.

Provisioning of Service Parameters

The *NetOutlook* Carrier Ethernet Edition supports remote provisioning of Ethernet Virtual Connections (EVCs), including 802.1ad Provider Bridge VLAN stacking (Q-in-Q) for service multiplexing, Class of Service (CoS), granular rate-limiting, per-flow service mapping and traffic policing and shaping. Zero-Touch Provisioning (ZTP) allows providers to achieve efficiencies in service activation that accelerate turn up and reduce the need for on-site technicians. ZTP allows service provisioning to be centralized, standardized and remotely managed.

Service Testing and Validation

When used with the GM4 NID, the Carrier Ethernet Edition provisions ITU-T Y.1564 and RFC 2544 service testing to rapidly verify the configuration and performance of Ethernet services prior to customer hand off.

ITU-T Y.1731 Performance Monitoring

The Carrier Ethernet Edition can be used to monitor and generate reports for key SLA parameters, including Frame Delay, Frame Delay Variation, Frame Loss and Availability.

IEEE 802.1ag Connectivity Fault Management (CFM)

IEEE 802.1ag Connectivity Fault Management (CFM) proactively monitors service availability and provides tools for rapid fault isolation.

ITU-T G.8031 and G.8032 Protection Switching

The Carrier Ethernet Edition can be used to configure G.8031 Ethernet Linear Protection Switching and G.8032 Ethernet Ring Protection Switching for sub-50ms redundancy fail over.

ORDERING INFORMATION

Model Type	Description
8100-0	NetOutlook Standard Edition for Enterprises and Service Providers (single User License)
8100P-0	NetOutlook Carrier Ethernet Edition for delivering Carrier Ethernet Business Services (single User License)
8000N-0	SNMP and Telnet Management Module (NMM2)

System Requirements

Microsoft compatible PC with Microsoft Windows 2000/2003/ XP/Vista/Windows7 and an Ethernet Network Interface Card.

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