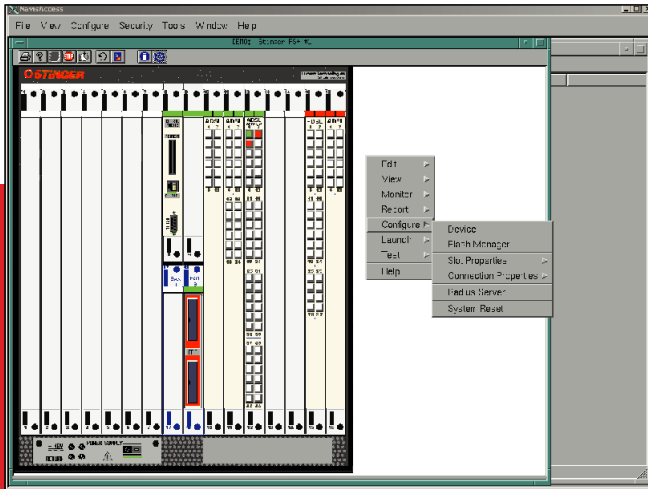


# NavisAccess™ DSL Element Management System



The advanced *NavisAccess™* DSL EMS graphical user interface (GUI) provides service level views of your Lucent Stinger® DSLAMs, enabling you to centrally monitor and manage the performance of each DSL line in the network.

*NavisAccess™* DSL Element Management System (EMS) software accelerates configuration and deployment for Digital Subscriber Line (DSL) access and services supporting your Lucent Stinger® family of DSLAM products. *NavisAccess™* DSL EMS software simplifies day-to-day operations for DSL access services over Stinger® DSLAM products in your network and provides the foundation for your Fault, Configuration, Accounting, Performance and Security (FCAPS) functionalities. Scalable to more than 500,000 Stinger® device ports, *NavisAccess™* DSL EMS software enables you to monitor the performance of every DSL line in your entire network.

*NavisAccess™* DSL EMS is a key component of Lucent's powerful *Navis®* iOperations EMS portfolio of products that simplify deployment, configuration and management of Lucent network equipment. *Navis®* EMS solutions help you make the most of your Lucent network investments, streamline daily operations and offer revenue-enhancing services.

## Features

- **Integrated and automated network start-up** – Includes auto-discovery of network devices, flexible network views and subscriber provisioning
- **Advanced real-time performance and fault monitoring** – Centralizes remote management of devices, services and device/service groups, including chassis, software and configuration file change control
- **Comprehensive visualization tools**
  - Enhances secure access to *NavisAccess™* DSL EMS features, functions and data through user groups you specify
  - Helps you better manage your network via reports based on historical usage performance trends and capacity needs
- **Scalability for network growth management**
  - Supports more than 500,000 ports on a single, logical system and scales to meet the needs of the largest access providers
  - Ensures that your future network growth is accommodated by an existing flexible management system

## Benefits

- **Speeds network start-up time** – Deploys rapidly so you can configure, provision and manage DSL devices and services immediately
- **Reduces time to resolve network problems** - Facilitates quick identification and resolution of fault conditions via advanced fault management capabilities
- **Enhances fault and device management** – Provides abilities to detect and recover lost traps while maintaining connections to the monitored Stinger® DSLAM
- **Increases end-user satisfaction**
  - Speeds and facilitates service provisioning process with a simple, easy to use GUI-based DSL port provisioning feature
  - Enables you to store frequently used port configurations in templates for quick, accurate provisioning

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# NavisAccess™ DSL EMS Software Operations and Specifications

## On-screen Displays

- Threshold monitoring – monitors individual lines for threshold crossing, including parameters affecting line quality
- Fault monitoring – provides screen-based view of every aspect of your Stinger® DSL network
- Inventory management and spares planning – easy-to-use screens and tools provide virtual views of each Stinger® DSLAM device on the network

## Reporting

- Versatile reporting – customized reporting available to monitor device status, device chassis, DSL resources and events
- Multi-level security for network-wide control – ability to segregate security program based on network elements and create multiple level security controls to restrict access based on different feature combinations

## Enhanced Device Management

- Monitors the state of network element (NE) connections
- In case of loss of management connection, notifies local operator and sends a trap to a higher order OSS
- After communication link is restored, recovers traps that were generated on the NE during the period of outage and forwards recovered traps to higher order OSS

## Event and Fault Management

- SNMP Trap forwarding to higher order OSS
- Optional integration with Navis® Network Fault Management (NFM) software
- Hierarchical network map - Indication of highest severity alarms on network map
- User acknowledged/cleared alarms
- Auto-clearing of alarms based on user-specified notifications
- Audit trail of alarm processing
- Advanced GUI for high fault visibility

## Advanced Thresholds

- Threshold monitoring parameters detect:
  - Loss of frame seconds
  - Loss of link seconds
  - Loss of power seconds
  - Loss of signal seconds
  - Errored seconds

## Configuration Management

- Device configuration and software management – automates routine, error-prone tasks involved in configuring network devices and loading new versions of software across a large network
- Physical view of the Stinger® DSLAM allows:
  - Discovery of trunk and Control Module (CM) sparing configuration
  - Recognize Line Protection Module (LPM) LPM-R (redundancy supporting), LPM-RP (port level or enhanced redundancy supporting) IRM (Interface Redundancy Module) or CLT (Copper Line Test Module)
  - Standby versus Active CM indication
  - Trunk module switchover indication
  - Line-under-test indication
  - Redundant line switchover indication
  - Associated event display filtered for device being viewed
  - Initiate loop tests and view the results in minutes

## Scalability

- Distributed system architecture allows for high scalability, supporting more than 500,000 DSL lines.

## Service and Support

Backed by Lucent Worldwide Services for industry-leading service and support

## Hardware

NavisAccess™ DSL hardware specifications vary based on number of DSLAMs to be managed, number of operators logged into NavisAccess™ servers, availability of WAN bandwidth, etc. These specifications are made available based on your specific requirements.

## Release 7.3 Specifications

- True Access® Operating System 9.4-185.2, 9.3-170.3
- 48port ADSL MRT 19"
- Support for Connection Admission Control (CAC) feature
- Support for Reliable Trap delivery - to Stinger® Access Concentrator and Navis® NFM

## Supported Stinger® Products

- Stinger® FS DSL Access Concentrator
- Stinger® FS+ DSL Access Concentrator
- Stinger®LS DSL Access Concentrator
- Stinger® RT DSL Access Concentrator
- Stinger® MRT DSL Access Concentrator

### External Interfaces

*NavisAccess*<sup>™</sup> DSL EMS can be configured to forward SNMP traps and events to upstream systems including network management systems and operations support systems (OSS).

### Demonstration Software Download

See how *NavisAccess*<sup>™</sup> DSL EMS can help you save time and money via a free 90-day demonstration software download is available at:  
[http://www.lucent.com/products/applications/navis\\_demo.html](http://www.lucent.com/products/applications/navis_demo.html)

## *Navis*<sup>®</sup> iOperations Element Management Software

### Make the most of your Lucent network investments

*Navis*<sup>®</sup> iOperations EMS solutions integrate seamlessly with existing OSS systems to support automated network provisioning, continuous synchronization of network resources and consistently high QoS. They feature a common, technology-independent framework – which eases management with a consistent look and feel across diverse domains and hardware systems.

*Navis*<sup>®</sup> iOperations is a comprehensive software portfolio of multi-vendor, multi-technology Operations Support Systems for wireline, wireless, optical, circuit and data networks. *Navis*<sup>®</sup> iOperations systems are developed on extensible, programmable platforms, open APIs and advanced system architecture to provide carrier class reliability and scalability, as well as rapid and affordable integration into a Service Provider's preferred operations infrastructure.

*Navis*<sup>®</sup> iOperations are supported by Lucent Worldwide Services (LWS), Systems Integrators, and Service Provider partners who provide a comprehensive suite of world-class planning, deployment, operations and maintenance services.

To learn more, contact your Lucent Technologies sales representative, authorized reseller or sales agent. You can also visit our web site at <http://www.lucent.com/oss> or call 1-888-426-2252.

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