



## Telco Access: Intuitive, Easy-to-Use Network Element Control

As networks evolve, they become more complicated and difficult to manage. It's important to have an intuitive, easy-to-use network element control solution to simplify network management processes. A system that employs one common platform makes it easier to integrate new products and features. Turn-up of new applications is more accurate. The time needed for training is reduced. And time to revenue for new applications is quicker.

The Tellabs® Panorama™ Integrated Network Manager (INM) offers a complete management solution from one platform for the Tellabs® 1000 Multiservice Access Platform (MSAP), the Tellabs® 1100 Multiservice Access Platform and the Tellabs® 1000 Voice Gateway (VGW). The feature-rich Tellabs Panorama INM is available in both Solaris™ and Windows® operating environments and offers a full suite of management capabilities — user management, configuration management, performance management and security management. It also supports remote upgrades, service fulfillment, service assurance, remote back-up, remote capacity and inventory reporting, and a variety of additional functions.

### One system simplifies complex network management processes

The Tellabs Panorama INM enables users to manage complex network element activities with simple point-and-click operations. The Tellabs Panorama INM features a client-server architecture that supports automatic discovery of the deployed network, offering full Fault, Configuration, Accounting, Performance and Security (FCAPS) capabilities.

By providing common services across different platforms, the Tellabs Panorama INM reduces the need for separate element management systems (EMS) to manage different network element types. Common combined services include:

- Single instance of the Tellabs Panorama INM application and platform hardware manages both Tellabs 1000 MSAP and Tellabs 1100 MSAP network elements, along with a single instance of the Oracle® 10 Standard Edition
- Support for both Solaris and Windows
- Transparent provisioning for both Tellabs 1000 MSAP and Tellabs 1100 MSAP network elements
- Common login/user management for all network elements
- Single integrated topology view
- Integrated install and backup scripts
- Common TL1 provisioning and alarm reporting



The Tellabs Panorama INM also provides an easy-to-use graphical user interface (GUI) and online help utility, enabling users to accomplish complex network element activities through simple point-and-click operations.

The Tellabs Panorama INM hosts a suite of North Bound Interfaces (NBIs) that enables service providers to automate back-end office operations.

### Tellabs Panorama INM Features and Applications

The Tellabs Panorama INM is designed for ease of use to simplify complex network management processes. The Tellabs Panorama INM offers a full suite of management capabilities — user management, configuration management, performance management and security management (FCAPS) capabilities. It supports remote upgrades, service fulfillment, service assurance, remote back-up, remote capacity and inventory reporting, and a variety of additional functions.

#### Security Manager

Setting up the network is a simple process. Tellabs Panorama INM supports a role-based security model. System administrators define which operations are associated with each role and then assign users to specific roles. This enables service providers to customize and control what operations specific users can perform.

System administrators can also configure Tellabs® Panorama™ INM authentication to use its internal application or to work with Lightweight Directory Access Protocol (LDAP). LDAP is especially useful for service providers running multiple instances of Tellabs Panorama INM. In addition, a rich set of tools enables system administrators to manage and audit user activities, including adding users, enabling/disabling users, defining password rules, and viewing security and event audit logs.

### Topology Manager

The Tellabs Panorama INM Topology Manager offers a complete view of the entire network on one screen. For easy identification, up to four different names can be selected with each terminal type, such as CLEI code, planning information and GPS locations.

In addition to Tellabs products, Tellabs Panorama INM also supports views of multiple third-party elements and any product with an IP address, and the links between the systems are displayed for easy identification.

Icons are color coded to reflect the highest level of alarm within that system. To promote network organization, folders can be set up by regions or other useful designations, with the ability to add folders as needed for more granularity.

From the Topology Manager, a global or granular context search can be performed to find and go to various entities in the network. System administrators can also configure the Tellabs Panorama INM authentication to use its internal application or to work with Lightweight Directory Access Protocol (LDAP). In addition, a rich set of tools allows system administrators to manage and audit user activity, including adding users, enabling/disabling users, defining password rules and viewing security and event audit logs.

### Alarm List Manager

Two key features enable streamlined alarm monitoring and resolution:

- Alarm Consolidation — Presents one consolidated list of all the alarms within the Tellabs network. Tellabs Panorama INM, Tellabs® 1000 MSAP and Tellabs® 1100 MSAP alarms are all listed on one color-coded, easy-to-read spreadsheet and can be readily sorted or exported for graphing. Alarms can be viewed, acknowledged or cleared from one screen. Filtering can be set based on type, IP, severity or any other alarm attribute.
- Online Trouble Shooting — Hot-linked documentation for Tellabs products in the network offer quick online access to information pages for specific alarms to promote quick resolution. Alarm tracking notes help enable improved communication between employees, also speeding up resolution time. Alarm troubleshooting notes are customizable and provide a handy tool to document recurring issues.

Take the next step. Contact Tellabs today.



### Report Manager

Running reports is as easy as selecting a report to run and the system to run it on, then clicking “Generate.” Reports can be generated and easily exported using either standard templates or customized formats.

The Tellabs® Panorama™ INM server requires a high-performance hardware platform to provide the processing capabilities needed to manage the network. The server can operate on either a UNIX-based platform with Solaris 10 as the operating system or a PC-based platform with Windows 2003 as the operating system. The client application can operate on either a PC-based platform running Windows XP or Windows 2000 Professional, or a UNIX-based platform running Solaris 10.

### Backup and Restore

Setting up automatic backups is an easy process with the configurator tool. Simply pick the time and the frequency, and the system establishes backups based on those parameters. Backups can be scheduled daily or weekly, and day/time/systems are all definable.

### Summary

The Tellabs Panorama INM is a mature and full-featured management solution. It is field-proven, with deployment in hundreds of service provider network environments ranging from United States government installations to large Tier 1 Passive Optical Networks (PONs).

