

Metrobility R851

Gigabit Services Line Card

Intelligent Optical Ethernet Demarcation Point



The R851-1S and R851-SS Services Line Cards are supported in a Metrobility R5000, R1000, R400 or R200 (shown) platforms.

The Metrobility® R851 Services Line Card for Gigabit Ethernet by Telco Systems provides an intelligent optical Ethernet demarcation point for service providers who are deploying Ethernet in the First Mile. The Services Line Card extends baseline VLAN technologies to enable delivery of multiple, converged services across the first-mile, optical access network. These services include transport (link-specific) OAM, interconnectivity (network-specific) OAM, and services (applicationspecific) OAM.

The Gigabit Ethernet Services Line Card offers multiple management schemes designed to meet the needs of the services provider who may need to manage a remote device via SNMP using an IP address today but may want to migrate to a more robust, secure, scalable and flexible proxy-based management framework.

As a carrier-class device, the Services Line Card is specifically designed to maintain the maximum isolation between the public and private network while supporting the OAM requirements defined by both the IEEE and the Metro Ethernet Forum (MEF).

Direct Internet-Standard Management using SNMP and IEEE802.3ah

As an intelligent CPE demarcation point, the R851 Services Line Card offers the Operations, Administration and Maintenance (OAM) as-

pects of the IEEE 802.3ah standard. OAM management features provide loopbacks, MIB statistics, errored frame events, and "Dying Gasp" capabilities. These features allow keep-alives for transparent service monitoring.

Additional features include sophisticated management access control which protects the system and network connections from a denial of service attack from the user's network. Management access control automatically discards unauthorized traffic received over the user port making the device impervious under all traffic conditions and all traffic patterns.

Proxy-based Management via NetBeacon® ESP Element Manager

NetBeacon® ESP Element Manager is a carrier-class element management framework that consists of a GUI-based element management system and an element management proxy to achieve the highest level of managability. The Metrobility NetBeacon ESP provides intuitive, graphical management of hundreds of remote sites creating a robust and secure management scheme which improves performance through IP and managed object aggregation. Because an IP address is not required at every access point, this solution scales extremely well for a large metro access service deployment which otherwise would require the management of countless IP addresses. ■

Product Highlights

- ❖ Intelligent Optical Ethernet Demarcation
- ❖ Transparent Ethernet access
- ❖ Advanced VLAN Aware Bridging
- ❖ Minimal Touch Provisioning
- ❖ Optimal ITU-Grid CWDM SFP Optics
- ❖ Signal re-amplification, reshaping and retiming
- ❖ Console port allows local configuration of NID at customer site

