MINet Overview

The Codan 8800 series DMR supports network management via an SNMP agent in each terminal. MINet, a user-friendly PC-based element manager, allows management of 8800 series terminals and networks. MINet is able to operate as either a stand-alone element manager or as a network management system when integrated with HP OpenView.

The management system and agent communicate with one another using the SNMP protocol over TCP/IP. The SNMP agent contains both public and private SNMP Management Information Databases (MIBs). To acquire information, the management system communicates with the agent's database. Thus, the management system generally functions as a master and the agent as a slave.

An exception to this master-slave relationship is the handling of important alarm notifications. These agent-initiated messages or alarms, which are sent to the management system, are called Traps. These Traps are used to send important information from remotely managed sites to the central management computer. This information may be alarm states or predetermined external perimeters such as diesel generator status.

MINet Features

MINet provides a user-friendly interface to the comprehensive management features of the 8800 series:

- Ability to configure and set a terminals properties

- Ability to view all data port information

- Remote access to terminals and networks over the Internet

- Traffic monitoring

- Alarm, status, security, performance, test and configuration management

- Ability to download firmware upgrades to local, remote and network terminals.

Application Concepts

MINet enables interrogation of several Links, with a single Link able to be polled at any one time from a single PC, unless HP OpenView is used.

The parameters of the two terminals of a Link are visually represented on separate screen panels (refer Figure 9 below). MINet displays a variety of Link parameters for the purposes of monitoring, configuration and control. A visual representation of both IDUs of a Link is displayed to show the status of IDU tributary ports and the IDU's Front Panel LEDs.

The configuration and status windows as well as the Codan 8800 IDU image are colour coded to display their status at a glance: green for OK, yellow for warnings, orange for user control, red for fatal errors.
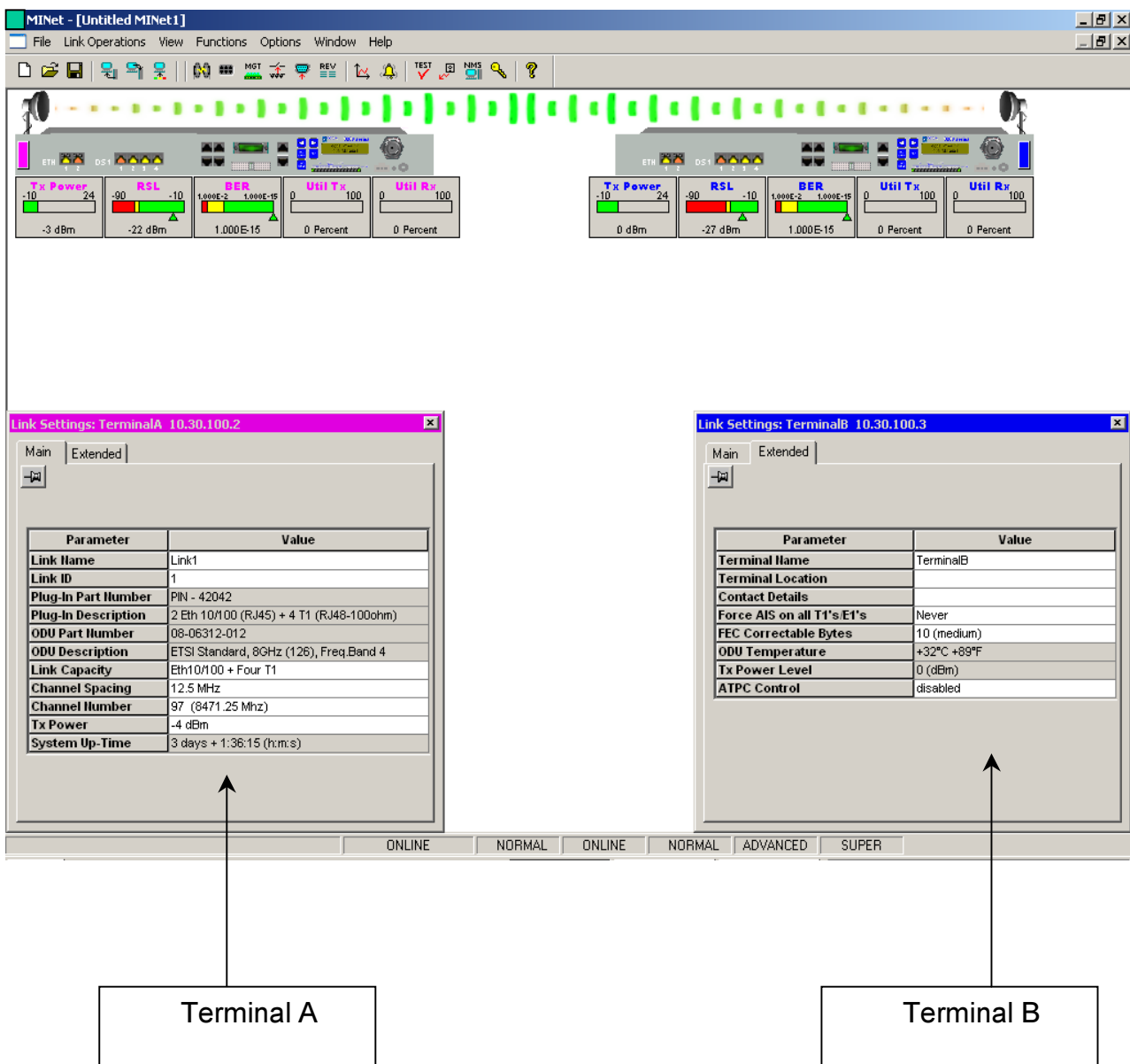
Figure 9: MINet Link Settings screen

Figure 10: MINet Terminal Zoom Screen