Odin TeleSystems Inc.

OTX T1/E1 Remote Control Utility Users Guide

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1   Welcome to the OTX T1E1 Analyzer Remote Control

Before introduction of the OTX T1E1 Analyzer Remote Control utility, the OTX T1E1 Analyzer software product and its modules are needed to be described.

The OTX T1E1 Analyzer is a software package for analysis of E1, T1, and J1 spans, and is designed to integrate with the industry award-winning Odin Telecom frameworX (OTX) family of hardware products. The OTX T1E1 Analyzer provides a feature-rich and complete set of tools for low level T1, E1, and J1 analysis. It supports add-on modules such as Record and Playback of individual timeslots, Bit Error Rate Testing (BERT), HDLC transmission, HDLC reception and ABCD bit signaling access.

The OTX T1E1 Analyzer Remote Control software package gives you the ability to remotely interact with the OTX T1E1 Analyzer software add-on modules such as Recording, Playback, Bit Error Rate Testing (BERT), HDLC transmission, HDLC reception and ABCD bit signaling access.

1.1   About this Manual

This manual describes how to use the OTX T1E1 Analyzer Remote Control software product by Odin TeleSystems.

1.2   Introduction

The benefit of the Remote Control utility is to remotely diagnose the frequent faults in the telecommunication networks like equipment failure, lines precipice of data transmission, data transmission errors on the various protocols, as well as carry out the regular monitoring of the network performance in an automatic way by flexibly customizing the configuration of OTX T1E1 Analyzer utility modules, running them in an automatic sequence and simultaneously start or stop them from a remote computer.

The OTX T1E1 Analyzer Remote Control Utility is a client application for the OTX T1E1 Analyzer Utility.

1.3   System requirements

- Intel Pentium/Celeron family, or AMD K6/Athlon/Duron family, or compatible processor recommended

- Minimum 256 megabytes (MB) of RAM or higher recommended

- 10 megabytes (MB) of available hard disk space

- PC with 300 megahertz or higher processor clock speed recommended (single or dual processor system)

- Windows 2000, Windows XP, and Windows 2003 Server

The OTX T1E1 Analyzer Remote Control Utility is running as a client application; therefore the OTX T1E1 Analyzer Utility is needed to be installed, up and running on the remote system as a server application.

2 Getting Started

This section describes the basic steps to get started with the OTX T1E1 Analyzer Remote Control.

2.1 Software Installation

Please copy files "T1E1AnalyzerClient.dll" and "T1E1AnalyzerRC.exe" in any folder on your hard disk. Then run the "T1E1AnalyzerRC.exe" to start OTX T1E1 Analyzer Remote Control utility.

2.2 Starting the OTX T1E1 Analyzer Remote Control Software

When you start the T1E1AnalyzerRC for the first time, the T1/E1 Analyzer Remote Control window is displayed (Figure 1).
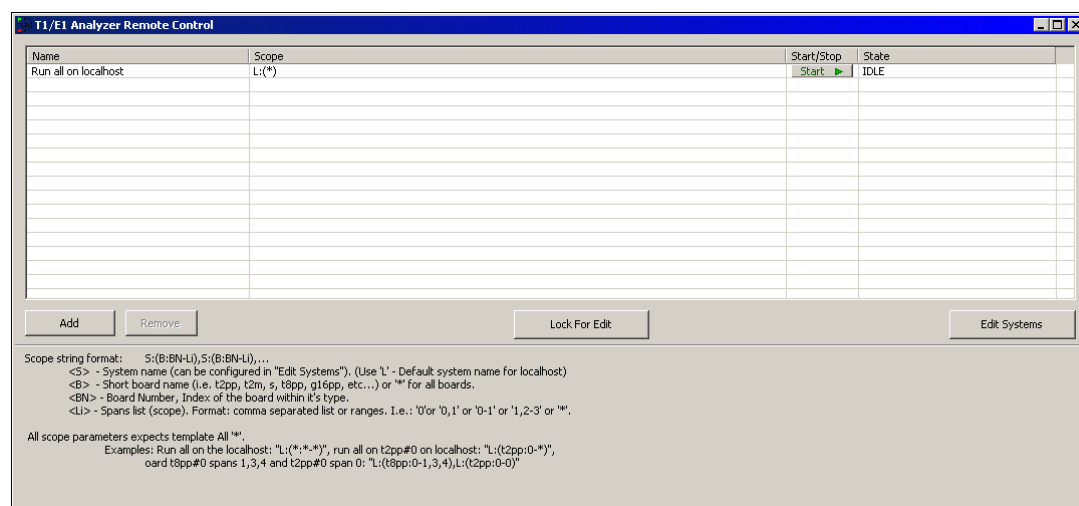
Figure 1

2.3 Configuration of the Analyzer Remote Control

This section describes the basic steps of the Analyzer Remote Control software configuration.

Before starting of the configuration access to the Analyzer modules, you must ensure that the computer which will be remotely accessed is running the OTX T1/E1 Analyzer utility and the modules are installed on that machine.

To create a new group of scope, click the "ADD" button from the main window. A new string with a default name "New group" will be created (Figure 2).
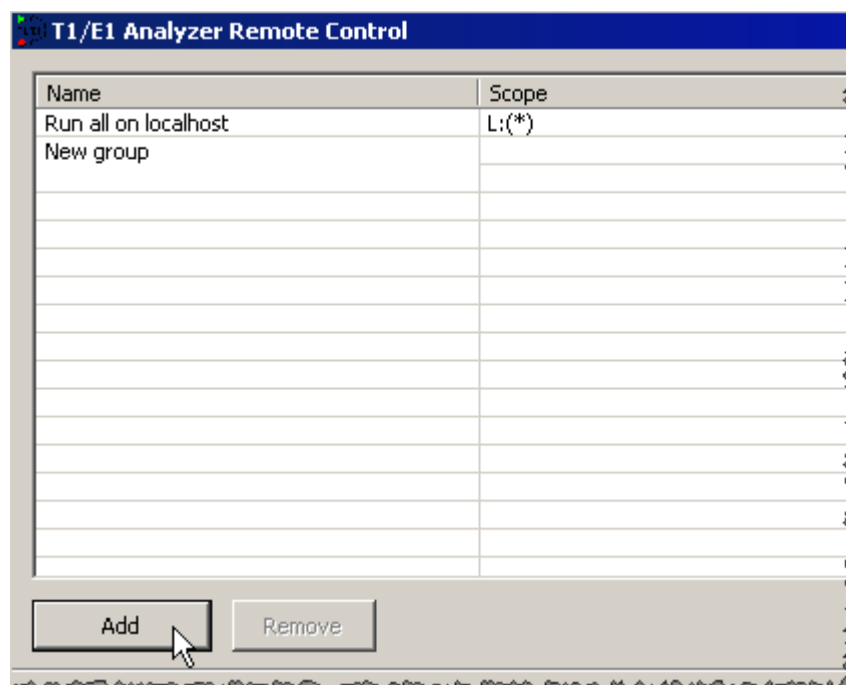
Figure 2

To change the name, click the left mouse button in the selected cell (Figure 3).
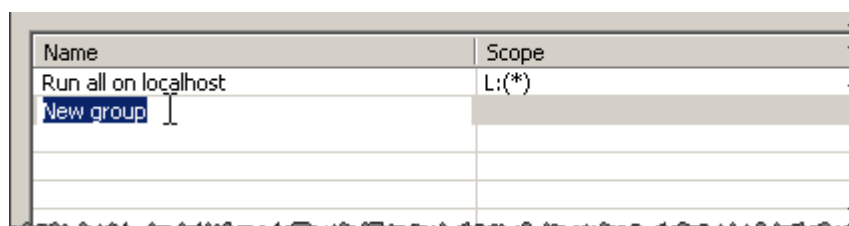
Figure 3

To delete rows, click the "Remove" button from the main window.

Before editing your scope for the created new group, you need to set up Edit system aliases first.

2.4   Edit System Aliases

To view the Edit Systems aliases list, click the "Edit Systems" button from the main window (Figure 4).
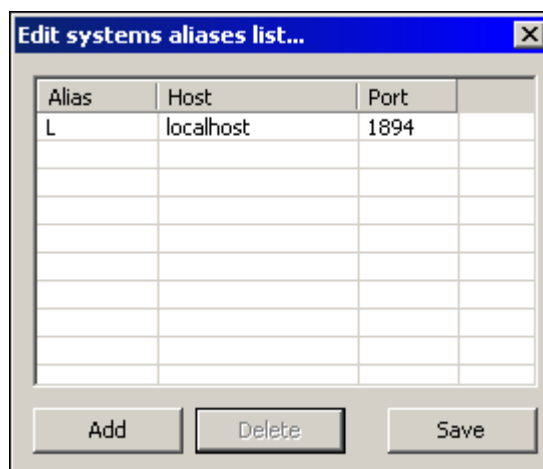
Figure 4

As soon as you click on the "Add" button from the "Edit Systems aliases list" window, a new Alias with a default name "New Alias" will be created (Figure 5).
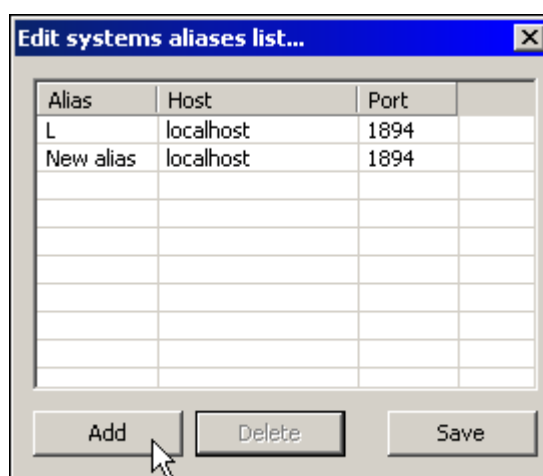
Figure 5

You can edit the settings of an Alias by clicking one of the proper selected cell on whose value you want to configure (Figure 6).

Figure 6

Alias is placed in the first column of the grid view. It specifies the name of your Alias and must have a unique name.

Host is placed in the second column of the grid view. It specifies the destination address of the machine where the OTX T1E1 Analyzer program supposed to be installed, up and running.

Port is placed in the third and the last column of the grid view. It specifies the port address of the destination machine which is set to communicate with the OTX T1E1 Analyzer program. As default, the port number 1894 is used for the communication.
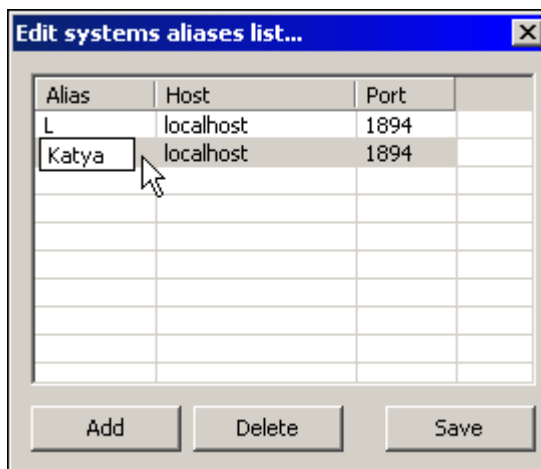
Example (Figure 7): Alias with a name "Katya" has been set for a destination address of 192.168.102.213 with a default port number to get connected with the OTX T1E1 Analyzer program that is running on the remote machine.

After setting up all the Aliases; click the "Save" button from the same window (Figure 7).
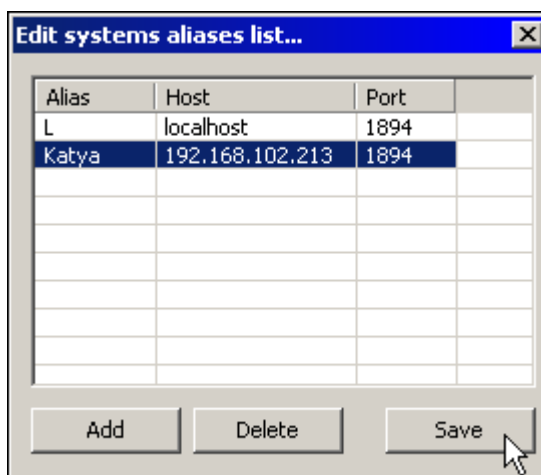
Figure 7

2.5 Line Management

There are two different ways to configure the scope.

First is to configure by selecting the proper configuration from a list tree-view window.

Second is to configure manually by typing the scope in an appropriate order of a hierarchy.

2.5.1 Scope configuration with a help of a list tree-view window

After setting the system aliases for the remote machines where the OTX T1E1 Analyzer utility and its modules are installed and running, you can now set a new scope for the alias group.

To view the "Select scope" list, right-click one of the selected scope cell on whose value you want to configure and then select "Scope Lookup" menu item (Figure 4).

To see the "Select scope" list window (Figure 8).

Figure 8

In the Select scope list tree view, all the remote OTX hardware information of the selected alias will be displayed.

As an example, three remote OTX hardware information of the aliases are shown (Figure 9). The one that is pointed with a red square is not showing any information about Odin Telesystems hardware specifications on that remote location.
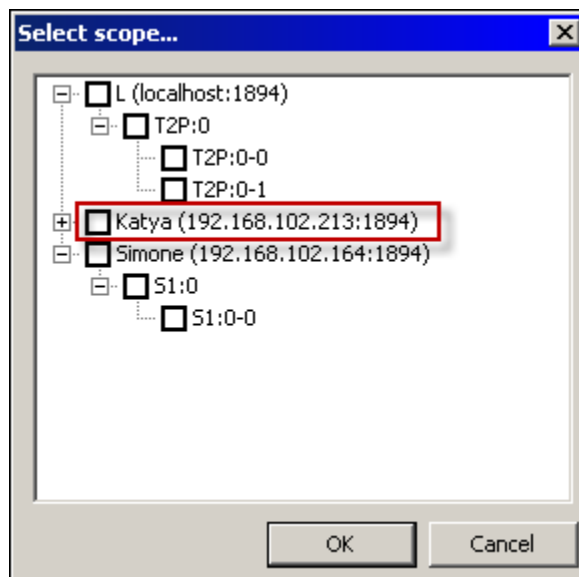
Figure 9

For viewing detailed information of the problem, you can extend the node by clicking on it (Figure 10).
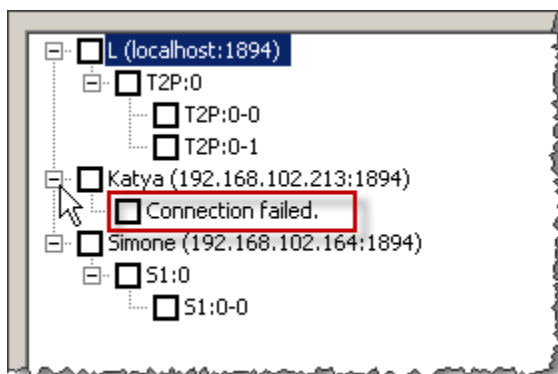
Figure 10

After extending the node you can see that the problem is occurred from a connection failure (Figure 10).

The Parent nodes of the list tree view are showing the Name, Destination and the Port number of the Alias that you are going to configure.

The Child nodes of the list tree view are showing the remote OTX hardware information about the Odin Telesystems equipment and the assigned board number which is installed at the remote system.

The Grandchild nodes of the list tree view are showing the remote OTX hardware spans (Li) that you want to remotely control.

You can easily configure a scope by selecting any listed box from the view. After the selection; your new scope with the selected information will be displayed in the scope cell of the main window.

2.5.2 Scope manual configuration by typing

The appropriate order of a hierarchy for the manual configuration of the scope is mentioned on the main menu window, under the "Scope string format" frame (Figure 11).
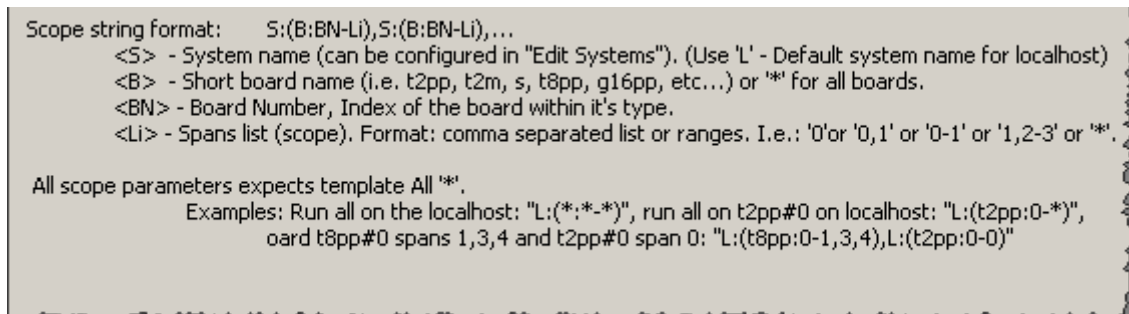

Figure 11

Scope string abbreviated format S: (B: BN-Li), where:

- <S> - The name of the remote computer, by default is "L" (for localhost).

- <B> - The short name of the Odin Telesystems equipment (t2pp, t2m, s, g16pp ...), where the default '*' can be used to select all types of boards.

- <BN> - The index number of the board within its type.

- <Li> - Span list in the specified range that you want to control remotely. You can set a range of '0 -2 ', selectively, '1, 2, 3', or '*' to select all Spans.

2.5.3 Starting / Stopping modules

The button "Start / Stop" allows you to start or stop the selected configuration.

The Start buttons are placed inside the grid-view cells, under the "Start/Stop" caption column of the grid-view.

After the scope configuration; you can start the scope by clicking on the "Start" button which is placed near to the configured scope cell (Figure 12).

Figure 12

As soon as scope is started the "Stop" button will be appear in the place of the Start button.

2.5.4   State

"State" column that is placed in the main window is showing the current state of the scope processes. The three figures placed below are the states of the Analyzer Remote Control Utility.

The "RUN" state is showing about there is a running process on the remote computer (Figure 13).

Name	Scope	Start/Stop	State
Run all on localhost	L:(*)	Start ▶	IDLE
Simone	Simone:(S1:0-0)	Stop ■	RUN 1/1

Figure 13

The "STOP" state is showing that the running process is ended on the remote computer (Figure 14).

Name	Scope	Start/Stop	State
Run all on localhost	L:(*)	Start ▶	IDLE
Simone	Simone:(S1:0-0)	Stop ■	STOPPED

Figure 14

The "ERROR" state is showing about an error occurrence of the running process on the remote computer (Figure 15).

Name	Scope	Start/Stop	State
Run all on localhost	L:(*)	Start ▶	IDLE
Simone	Simone:(S1:0-0)	Stop ■	ERROR

Figure 15

2.5.5   Lock For Edit

You can lock all the scopes for editing, by clicking on the "Lock For Edit" button from the main window (Figure 16).
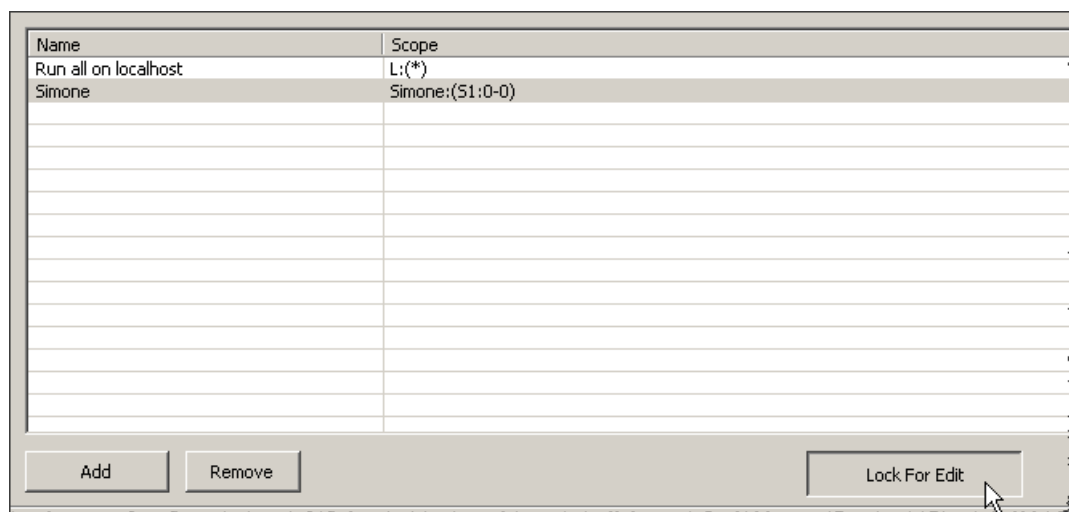
Figure 16

You can lock a specified scope for editing by right-clicking one of the selected scope cell on whose value you want to lock and then select "Lock For Edit" menu item (Figure 17).
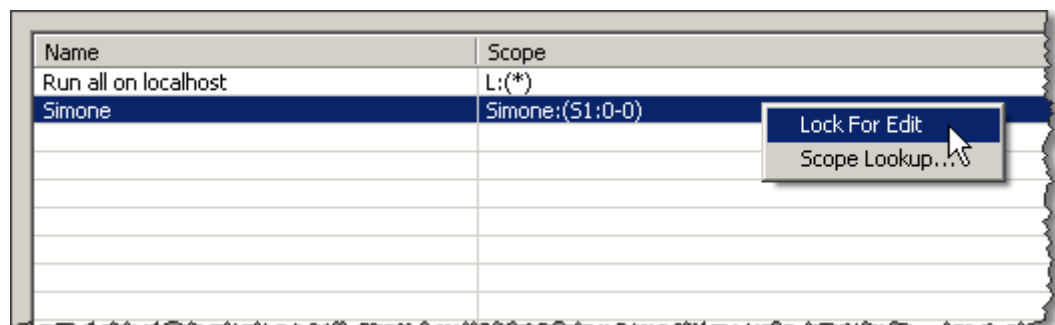

Figure 17

For unlocking the scope you need to re-click on the "Lock For Edit" menu item from the right context menu (Figure 18).
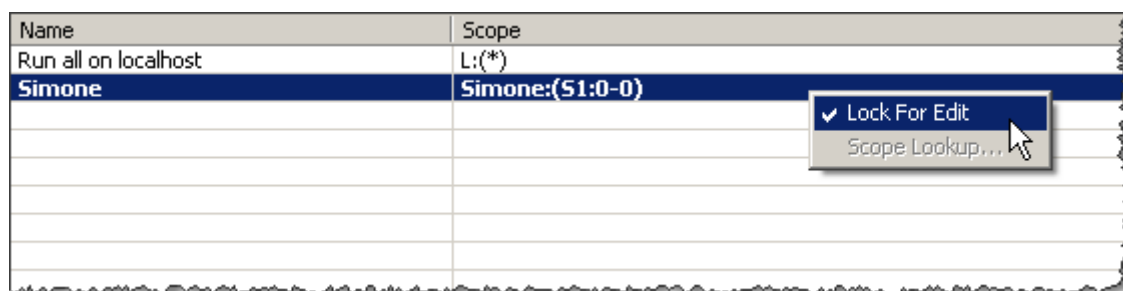

Figure 18

3   Contact Information

For more information or for technical support, please contact:

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4   Reference documents

The following documents provide further detailed information related to the OTX T1/E1 Analyzer software package:

- Users Guide for OTX T1/E1 Analyzer (Odin document number 1412-1-SAA-1011-1)

5   Glossary

OTX – Odin Telecom FrameworX

RC – Remote Control.