



**Multimedia and Control
Networking Technology**

**OptoLyzer Suite
Start-up Guide
V1.8.X**

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MOST[®]
Media Oriented Systems Transport

OptoLyzer Suite

Legend

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Further Information

For more information on SMSC automotive products, including integrated circuits, software, and MOST development tools and modules, visit our web site: <http://www.sm-sc-ais.com>. Direct contact information is available at: <http://www.sm-sc-ais.com/offices>.

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1 Preface

1.1 Intended Use

This SMSC product is intended to be used for developing, testing or analyzing MOST - and MediaLB based multimedia products and systems by persons with experience in developing multimedia devices.

Notice Use this SMSC product only with original SMSC devices.

1.2 Software on the CD

The OptoLyzer Suite installation CD includes:

- Installer of the OptoLyzer Suite including online help, drivers (e.g., for MediaLB) and OptoLyzer Suite Viewer
- Installer of the OptoLyzer Components
- Tool OfflineTimeSyncFileMerge
- User manuals

1.3 Information Sources

1. Start-up Guide (this document):
It describes in a brief manner how
 - to connect the hardware components of the OptoLyzer OL3XXX to the PC running the OptoLyzer Suite
 - to connect the hardware components of the MediaLB Analyzer V2.0.1 to the PC running the OptoLyzer Suite
 - to install the OptoLyzer Suite supporting analysis and verification of MOST network and MediaLB signal/data.
2. *Hardware Manual OptoLyzer OL3XXX [1]:*
It describes all features, functionality and technical specifications of the OptoLyzer OL3XXX hardware in detail.
3. *MediaLB Analyzer Hardware Manual [2]:*
It describes the MediaLB Monitor and the MediaLB Active-Pods 3-Pin and 6-Pin.
4. *Online help of the OptoLyzer Suite [3]:*
It describes the software usage in detail. Whenever help is needed in the OptoLyzer Suite, press F1. Then use e.g., the Search functionality in the help.
5. *Media Local Bus Specification [4]:*
It defines the MediaLB Physical-Layer and Link-Layer Protocol.

1.4 Term Definitions

Term	Definitions
Active-Pod MediaLB 3-Pin, Active-Pod MediaLB 6-Pin	Part of the MediaLB Analyzer. It is a small housing that is directly connected to the MediaLB Debug Header of the DUT. It buffers the MediaLB signals and transfers them to the MediaLB Monitor without compromising the signal integrity.
APIPA	Automatic Private IP Addressing
Client PC	The OptoLyzer Suite is installed on a PC. This PC is called client PC, additional or target PC.
DHCP	Dynamic Host Configuration Protocol, a common TCP/IP standard for dynamic assignment of IP addresses and IP configurations.
Direct Connection	OptoLyzer OL3XXX and the client PC are connected directly via the shipped cross-link cable.
DUT	Device Under Test
Host	The OptoLyzer OL3XXX is designated as host.
INIC	Intelligent Network Interface Controller
MBI	Message Based Interface
MediaLB	Media Local Bus
MediaLB Monitor	Part of the MediaLB Analyzer. It transfers the incoming serial data from the Active-Pod via USB to the Host PC.
MOCCA compact 50e	Multibus hardware-interface from K2L.
MOST PC Interface	Generic term that covers e.g.: MOST PCI Interface 25o NIC, MOST PCI Interface 25o, MOST PCI Interface 50e, MOST PCI Interface 150o
OptoLyzer Components	Tool covering developer interfaces and components used as base for several tools.
OptoLyzer OL3XXX	Hardware of the OptoLyzer G2 3XXX (e.g., OptoLyzer OL3025o, OptoLyzer OL3050e, or OptoLyzer OL3150o).
OptoLyzer Suite	This is the software of the OptoLyzer G2 3025o, OptoLyzer G2 3050e and/or OptoLyzer G2 3150o. It covers the OptoLyzer Suite main window and Viewer, Recorder, Graph and Watch. In addition, the Transceiver and the MOST Interface Control can be started in the OptoLyzer Suite.
OptoLyzer Suite Viewer	This is a stripped-down version of the full OptoLyzer Suite, but free of charge. It offers first limited possibilities with regard to offline analyzing (recorded files).
Trigger	A Trigger defines when to capture data from MediaLB.

Table 1-1: Term Definitions

2 Introduction

The OptoLyzer Suite software is a state-of-the-art analysis tool, that allows analyzing, monitoring, and debugging control, packet and streaming data traffic on the MOST network and on the MediaLB. The OptoLyzer Suite is an easy to handle user software based on an intuitive usage concept supported by a comfortable online help. It can operate in combination with an OptoLyzer OL3XXX (offering both on- and offline analysis of MOST data; chapter 3), stand-alone (offering offline analysis of MOST and MediaLB; chapter 4), or in combination with MediaLB Monitor and Active-Pod MediaLB 3-Pin and 6-Pin (supporting analyzing and visualizing of MediaLB data online; chapter 5). It also supports MOST PC Interfaces and MOCCA compact 50e.

Recorded files, hardware triggers and the network traffic on the MOST network can serve as data sources.

The OptoLyzer Suite must be installed on a client PC with Ethernet connectivity. The client PC can be located somewhere in the Ethernet network or can be connected directly (alternatively via USB).

Unlike the hardware component, the software operates independently from any environmental network characteristics such as physical layer properties. It can be seen as an upper layer, extendable by a wide range of software extensions supporting further analysis or allowing to run tests automatically. Nevertheless, hardware extensions for e.g., data logging are also applicable. All extensions whether hardware or software sided can be used without consideration of any network features.

2.1 Features

- Support of MOST150, MOST50 and MOST25 networks
- Support of MOST networks basing on optical or electrical Physical Layer
- Support of OptoLyzer OL3XXX, MediaLB Monitor, MOCCA compact 50e and MOST PC Interfaces
- Support of online and offline analysis and debugging
- Full bandwidth spy for control, packet, and streaming data analysis
- MOST network state tracking (e.g., light/lock, SBC, MPR, NPR)
- Powerful viewing and coloring of all network events
- Flexible filtering and triggering
- Fully customizable Viewers to view and analyze data traffic (Control, Packet and Streaming data)
- Recording of MOST messages (Control, Packet and Streaming data), Input Triggers, and Keyboard Events.
- Storing spy data in .img, .xml, .op2, .txt format
- Graphical interpretation of the data in a Graph
- Focusing and displaying of specific Events in a Watch
- Smart GUI customization according to user's preferences
- Data recovery in all modes (bypass, master, slave)
- Node control software (MOST Interface Control and Transceiver Software)
- Powerful helpers (e.g., syntax tree, support of PBN and XML files)
- Graphical user interfaces supporting sending and receiving of Control data and sending of MBI messages
- MediaLB support
- Beagle Feeder support
- RS232 Feeder support
- File Feeder support
- High level access to Plug-Ins (INIC Remote Viewer, MOST Radar, DTCP Viewer, MOST System Radar, MOST Rapid Control)

2.2 PC System Requirements

The following environment (minimum) is recommended for installation:

1. Pentium IV Class PC with hyper threading technology or dual core processor with 2.66 GHz
2. 2 GByte RAM
3. 1 GByte free disk space (additional storage for recording required)
4. Ethernet (alternatively: USB2.0 High Speed and adapter) for connecting an OptoLyzer OL3XXX
5. USB2.0 High Speed for connecting an MediaLB Monitor
6. Windows XP (SP3) or Windows 7 (32 and 64 bits) operating system

2.3 Licensing

If the OptoLyzer Suite is used in combination with an **OptoLyzer OL3XXX** it is licensed by a license number stored in the OptoLyzer OL3XXX.

If the OptoLyzer Suite is used **standalone** it is licensed by a WIBU-KEY plugged into the PC running OptoLyzer Suite.

If the OptoLyzer Suite is used in combination with a **MediaLB Monitor** it is licensed by a license number stored in the MediaLB Monitor.

If the OptoLyzer Suite is used in combination with a **MOCCA compact 50e** it is licensed by a license number stored in the MOCCA compact 50e.

3 Use with an OptoLyzer OL3XXX

In combination with the OptoLyzer OL3XXX the OptoLyzer Suite software allows **online** analyzing, monitoring, and debugging control, packet and streaming data traffic on the MOST network.

SMSC recommends to read the sections about connection concepts and to decide which of them you want to use. Afterwards proceed with section Basic Steps on page 16.

3.1 Connect to the OptoLyzer OL3XXX

There are several possibilities how to connect an OptoLyzer OL3XXX.

Connection concepts:

- Direct Connection via Cross-link Cable (see page 12)
This connection is recommended by SMSC.
- Direct Connection via USB-Ethernet Adapter (see page 14)
- Connection via Corporate Network (see page 15)

OptoLyzer Suite

3.1.1 Direct Connection via Cross-link Cable

PC has no access to corporate network. This is a typical connection setup in a lab or in the field / car.

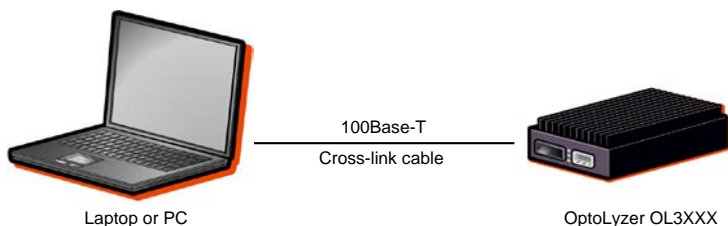


Figure 3-1: Direct Connection via Cross-link Cable

1. OptoLyzer OL3XXX has an APIPA address:
IP = 169.254.x.y
Subnet Mask = 255.255.0.0
2. PC must also have an APIPA address to enable communication. Check with IPCONFIG command on Windows command line.
 - a) Click Start > Run
 - b) Enter 'cmd' in order to open a command shell.
 - c) Enter 'ipconfig' and press 'Return'.
 - d) The current values of IP and the Subnet Mask are shown.
 - e) Check whether they are matching to the values in step 1.
3. PC must not use a static IP on its Ethernet interface.
 - a) Click Start > Settings > Control Panel.
 - b) Double-click 'Network Connections'.
 - c) Select the connection that is connected to the OptoLyzer OL3XXX.
 - d) Right-click to open the context menu.
 - e) Select 'Properties'.

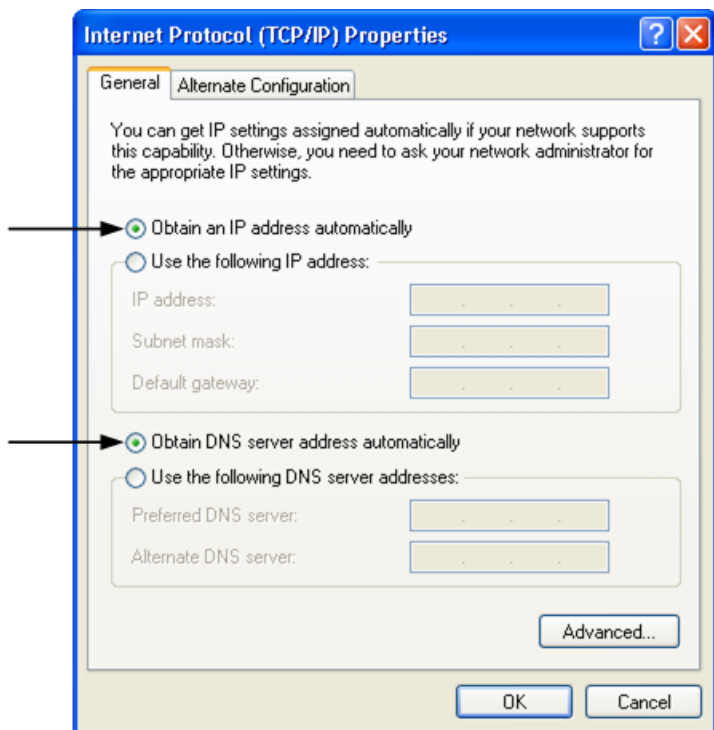


Figure 3-2: Internet Protocol Properties

- f) If not done, select the settings as shown above so that the IP address is obtained automatically.
- g) Press the 'OK' button. If necessary, follow the system instructions.
- h) After this is done wait up until a minute then press the 'Refresh' button of the property window of the OptoLyzer OL3XXX.

The OptoLyzer OL3XXX can transfer data to the PC at full bandwidth.

OptoLyzer Suite

3.1.2 Direct Connection via USB-Ethernet Adapter

OptoLyzer OL3XXX can be exclusively used by the laptop user.

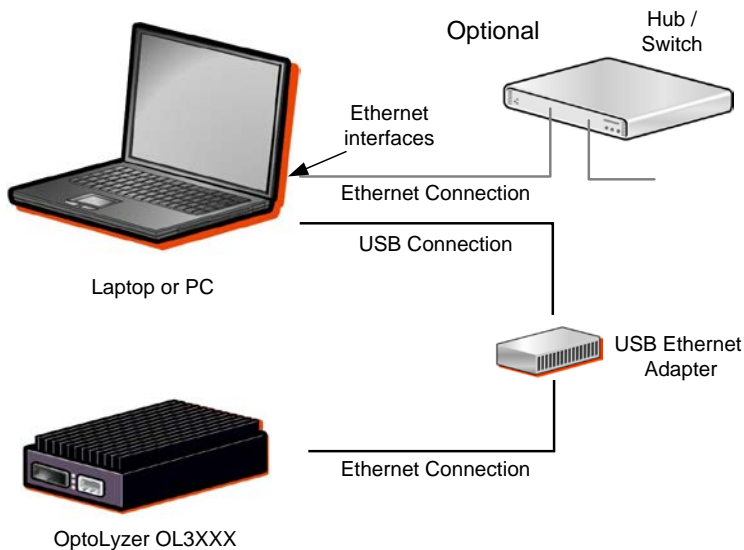


Figure 3-3: Direct Connection via USB Ethernet Adapter

1. Here apply the same restrictions and configuration for the IP addresses of OptoLyzer OL3XXX and PC as for the connection via cross-link cable, see above on page 12.
2. PC must not use a static IP on its USB-Ethernet interface.

The PC has full access to the corporate network.

3.1.3 Connection via Corporate Network

From your laptop/PC you have comfortable remote access to several OptoLyzer OL3XXX hooked up to your company network.

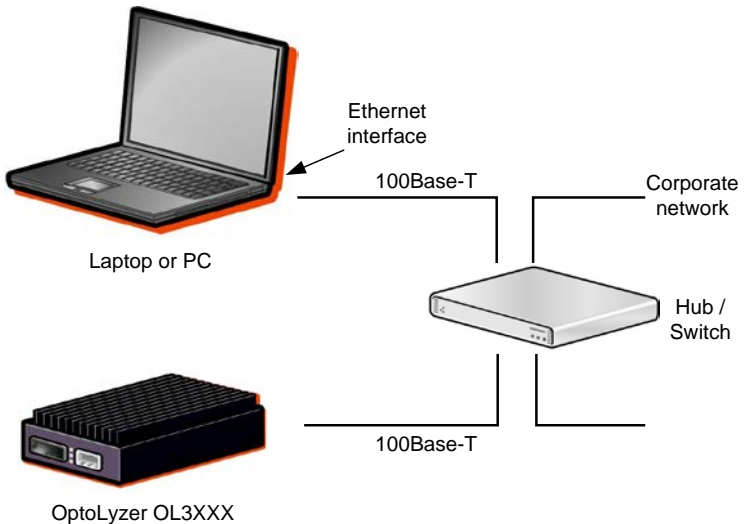


Figure 3-4: Connection via Corporate Network

1. OptoLyzer OL3XXX must be allowed to obtain a valid IP address from the corporate DHCP-server.
2. A minimum bandwidth of 6 MBytes/s on the Ethernet connection is required for each OptoLyzer OL3XXX to handle its data.
3. Check firewall settings of your corporate network in case of connection problems:
port numbers: 27994 up to 28004
for both protocols UDP and TCP must be accessible

3.2 Basic Steps

These basic steps have to be performed:

1. Read the *Hardware Manual OptoLyzer OL3XXX [1]* and integrate the OptoLyzer OL3XXX in the MOST network.
2. Connect the OptoLyzer OL3XXX to the PC the OptoLyzer Suite is running according to the connection concept you prefer as described in section 'Connect to the OptoLyzer OL3XXX' on page 11.
3. Install the OptoLyzer Suite on the connected PC or Laptop using the OptoLyzer Suite installation CD. Perform the following steps:
 - a) Login in as a user with administrator rights.
 - b) Insert the OptoLyzer Suite installation CD in a CD drive of the PC.
 - c) The auto run mechanism starts the CD.
Notice If no auto run mechanism is supported, execute the Launch.exe that can be found on the CD.
 - d) In the CD menu click "Install".
 - e) Click "Install OptoLyzer Components"
 - f) Install it on the PC. Follow the instructions.
Notice If the installer detects an older version of OptoLyzer Components remove it first. Then start the installation again.
 - g) After completing the installation of OptoLyzer Components click "Install OptoLyzer Suite" (current version).
 - h) Install it on the PC. Follow the instructions.
 - i) Remove the CD.

4. Use the online help of OptoLyzer Suite.
 - a) Start OptoLyzer Suite.
 - b) Press F1 to access the online help.
 - c) Click on Overview at the top of the Contents tab.
 - d) Click on 'Add First OptoLyzer OL3XXX' located in the Getting Started section of the help text.

Further details around the OptoLyzer Suite are explained by the context sensitive online help. Additionally, use the 'How Do I' section to get familiar with basic topics.
5. Check the Firewall Settings on page 28 for the ports used in OptoLyzer Suite.

3.3 OptoLyzer Suite Update Procedure

If the OptoLyzer Suite has to be updated, perform the following steps:

1. Login in as a user with administrator rights.
2. Click 'Start | All Programs | SMSC | OptoLyzer G2 | Check for OptoLyzer Suite Updates'.
Both OptoLyzer Suite and OptoLyzer Components updates are shown.
3. Follow the instructions.

4 Use Standalone (Offline Analysis)

If you use the OptoLyzer Suite standalone i.e., without connecting the PC to an OptoLyzer OL3XXX or to a MediaLB Monitor you are able to analyze MOST or MediaLB data **offline**. Perform the following steps.

1. Install the OptoLyzer Suite on the connected PC or Laptop using the OptoLyzer Suite installation CD. Perform the following steps:
 - a) Login in as a user with administrator rights.
 - b) Insert the OptoLyzer Suite installation CD in a CD drive of the PC.
 - c) The auto run mechanism starts the CD.
Notice If no auto run mechanism is supported, execute the Launch.exe that can be found on the CD.
 - d) In the CD menu click "Install".
 - e) Click "Install OptoLyzer Components"
 - f) Install it on the PC. Follow the instructions.
Notice If the installer detects an older version of OptoLyzer Components remove it first. Then start the installation again.
 - g) After completing the installation of OptoLyzer Components click "Install OptoLyzer Suite" (current version).
 - h) Install it on the PC. Follow the instructions.
2. Remove the CD. Plug the USB dongle (WIBU-KEY) on the PC. The WIBU-KEY is part of the shipment.

OptoLyzer Suite

3. Use Online Help of OptoLyzer Suite.
 - a) Start OptoLyzer Suite.
 - b) Press F1 to access the online help.
 - c) Click on Overview at the top of the Contents tab.
 - d) Click on 'Add First OptoLyzer OL3XXX' located in the Getting Started section of the help text.

Further details around the OptoLyzer Suite are explained by the context sensitive online help. Additionally, use the 'How Do I' section to get familiar with basic topics.

4.1 OptoLyzer Suite Update Procedure

If the OptoLyzer Suite has to be updated perform the following steps:

1. Login in as a user with administrator rights.
2. Remove the old version of OptoLyzer Suite. Use the standard mechanism of Windows.
3. Download the new version of OptoLyzer Suite from our homepage <http://www.smsc-ais.com/AIS/>. Then double-click the installer and follow the instructions.
4. If the OptoLyzer Suite installation procedure requires also to install a new version of OptoLyzer Components, first remove the old version of OptoLyzer Components. Use the standard mechanism of Windows.
5. Download the new version of OptoLyzer Components from our homepage <http://www.smsc-ais.com/AIS/>.
6. Afterwards double-click the installer and follow the instructions.

5 Use with a MediaLB Monitor

For analyzing and debugging MediaLB data **online** the MediaLB Monitor has to be connected to a client PC the OptoLyzer Suite software is running.

You have to perform the steps described in the following sections.

5.1 Installation of OptoLyzer Suite

To run the MediaLB Analyzer you need to have OptoLyzer Suite V1.4.3 (or newer) installed. If you run an OptoLyzer Suite version older than V1.4.3 you need to de-install the program. Use the standard mechanism of Windows (Start the Control Panel, click 'Add or Remove Programs' and remove current version of 'OptoLyzer Components'). In this case, start installation of MediaLB Analyzer with the steps described below in this section. If you already run OptoLyzer Suite V1.4.3 or a newer version start installation of the MediaLB Analyzer with the steps described in the following sections.

1. Check, if MediaLB Monitor (**(3)**, see Figure 5-1 on page 23) is not connected to the PC/laptop. If it is connected, disconnect the device and remove power supply and Active-Pod.
2. Install the OptoLyzer Suite on the connected PC or Laptop using the OptoLyzer Suite installation CD. Perform the following steps:
 - a) Login in as a user with administrator rights.
 - b) Insert the OptoLyzer Suite installation CD in a CD drive of the PC.
 - c) The auto run mechanism starts the CD.
Notice If no auto run mechanism is supported, execute the Launch.exe that can be found on the CD.
 - d) In the CD menu click "Install".
 - e) Click "Install OptoLyzer Components"
 - f) Install it on the PC. Follow the instructions.
Notice If the installer detects an older version of OptoLyzer Components remove it first. Then start the installation again.
 - g) After completing the installation of OptoLyzer Components click "Install OptoLyzer Suite" (current version).
 - h) Install it on the PC. Follow the instructions.
3. Proceed with the hardware installation described in section 5.2.

5.2 Connect the MediaLB Analyzer

Figure 5-1 gives an overview of the entire MediaLB Analyzer and depicts how the single components are arranged.

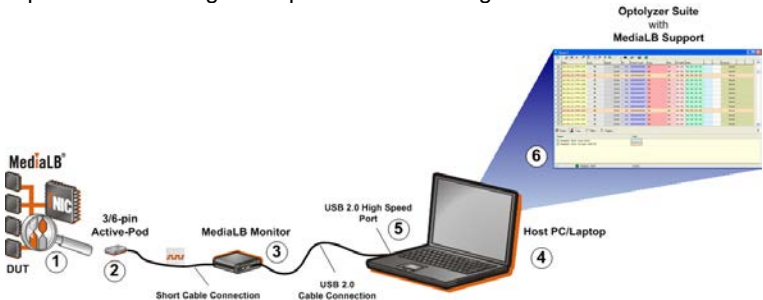


Figure 5-1: MediaLB Analyzer Overview

The steps are based on Figure 5-1 and explained from left to right.

1. Connect the Active-Pod (2) to the MediaLB port of the DUT (1) by directly plugging it onto a dedicated MediaLB Debug Connector. For the pin assignment, refer to the delivered *MediaLB Analyzer Hardware Manual* [2].
2. Connect the Active-Pod (2) and the MediaLB Monitor (3) via the delivered cable.
3. Connect power supply to the MediaLB Monitor (3).
4. Connect MediaLB Monitor (3) and Host PC/laptop (4) with the USB cable which is part of the delivery.
5. Proceed with the USB driver installation described in section 5.3.

Notice The USB connector on the PC has to be a **USB 2.0 High Speed connector (5)**. Check it in the Device Manager. If the Device Manager shows an **Enhanced** USB Host Controller, the connector has USB 2.0 High Speed capability.

5.3 USB Driver Installation

After connecting the MediaLB Monitor (3) to the USB 2.0 High Speed Port (5) of the PC/laptop (4) the hardware wizard opens with the recommended installation preselected.

1. Follow the steps. After clicking Finish, the hardware wizard opens again (recommended installation preselected) for continuing installation.
2. Follow the steps.
3. Click Finish. The hardware is installed.

5.4 Work with the MediaLB Feature of the OptoLyzer Suite

1. Start OptoLyzer Suite (6).
2. Press F1 for accessing the online help.
3. Add a MediaLB USB device like it is described in the online help. Hint: Use the 'Search' dialog and type: Add a new MediaLB USB device.

Notice For starting your work quickly and most efficient, refer to the following sections of the online help. Again, use the 'Search' dialog and type the following:

- *MediaLB Level1* > this section describes the creation of MediaLB Transmission Events.
- *Predefined MediaLB Workspace* > this section explains how to access predefined tabs for filtering on specific signals/data.

Further details around the MediaLB support of the OptoLyzer Suite are explained by the context sensitive online help. Additionally, use the 'Search' dialog to access specific topics.

5.5 Update Procedure

The update procedure covers two major blocks:

- the installation of the new software versions of OptoLyzer Suite and maybe OptoLyzer Components and
- the reconnection of the MediaLB Monitor.

The following steps have to be performed:

1. Login in as a user with administrator rights.
2. Click 'Start | All Programs | SMSC | OptoLyzer G2 | Check for OptoLyzer Suite Updates'.
Both OptoLyzer Suite and OptoLyzer Components updates are shown.
3. Follow the instructions.
4. After completion of the software installation disconnect all cables from the MediaLB Monitor (see Figure 5-1 on page 23).
5. Reconnect all cables as described in section 5.2 on page 23. This causes an automatic update of the MediaLB Monitor firmware.

The firmware update of the MediaLB Monitor completes the update procedure.

6 Use with MOCCA compact 50e

If the OptoLyzer Suite is used together with a MOCCA compact 50e, follow these steps:

1. Login in as a user with administrator rights.
2. Install the 'MOCCA Connector', a software layer on the PC that connects the MOCCA compact 50e with the OptoLyzer Suite. Therefore refer to its documentation and open the current version of the document 'How To Install MOCCA compact OptoLyzer Suite' and follow the instructions.
3. After completion of the installation steps start the MOST Tool Kit Configurator.
Click 'Start | All Programs | SMSC | MOST Tool Foundation | MOST Tool Kit Configurator'.
4. Select the desired MOCCA compact 50e and click 'Set as Default'.
5. Start the OptoLyzer Suite.
Click 'Start | All Programs | SMSC | OptoLyzer G2 | OptoLyzer Suite'.
6. Press F1 for accessing the online help.
7. Add a MOCCA compact 50e like it is described in the online help.
Hint: Use the 'Search' dialog and type: Add a new MOCCA compact 50e.

Further details around the MOCCA compact 50e support of the OptoLyzer Suite are explained by the context sensitive online help. Additionally, use the 'Search' dialog to access specific topics.

7 Use with MOST PC Interfaces

If the OptoLyzer Suite is used together with a MOST PC Interface, follow these steps:

1. Login in as a user with administrator rights.
2. Install the MOST Tool Kit. This step covers the installation of a MOST PC Interface, the installation of drivers and the installation of the MOST Tool Foundation. For details refer to the corresponding install guide that can be found on the MOST Tool Kit CD.
3. Install the OptoLyzer Components and the OptoLyzer Suite. Both installers can be found on the OptoLyzer Suite installation CD. A detailed description can also be found in section 3.2 on page 16.
4. After completion of the installation steps start the MOST Tool Kit Configurator.
Click 'Start | All Programs | SMSC | MOST Tool Foundation | MOST Tool Kit Configurator'.
5. Select the desired MOST PC Interface and click 'Set as Default'.
6. Start the OptoLyzer Suite.
Click 'Start | All Programs | SMSC | OptoLyzer G2 | OptoLyzer Suite'.
7. Press F1 for accessing the online help.
8. Add a MOST PC Interface like it is described in the online help.
Hint: Use the 'Search' dialog and type: Add a new MOST PC Interface.

Further details around the MOST PC Interface support of the OptoLyzer Suite are explained by the context sensitive online help. Additionally, use the 'Search' dialog to access specific topics.

8 Firewall Settings

If a firewall is installed on the laptop/PC the firewall settings must be adapted for the connected OptoLyzer OL3XXX. In order to build up a connection to the OptoLyzer OL3XXX ask the corporate IT administrator for help e.g., to define a trusted subnet (IP address: 169.254.00, Subnet mask: 255.255.0.0, port numbers: 27994 up to 28004 for both protocols UDP and TCP).

8.1 Set Port Number

In the following example the specification of an exception is described for port number 28004 and protocol TCP. The same procedure has to be performed for the entire port number range 27994 up to 28004 for both protocols UDP and TCP.

1. Login as a user with administrator rights.
2. Start Control Panel.
3. Start Windows Firewall.
If another application is used for maintaining the firewall, ask the corporate administrator for help.
4. Switch to tab Exceptions.
5. Click 'Add Port'.

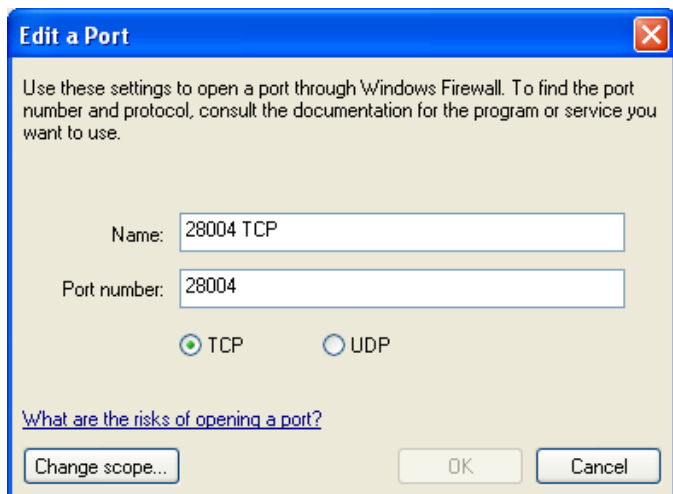


Figure 8-1: Add a Port

6. Enter the port number e.g., 28004 and a friendly name.
7. Select the TCP radio button and click OK.

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