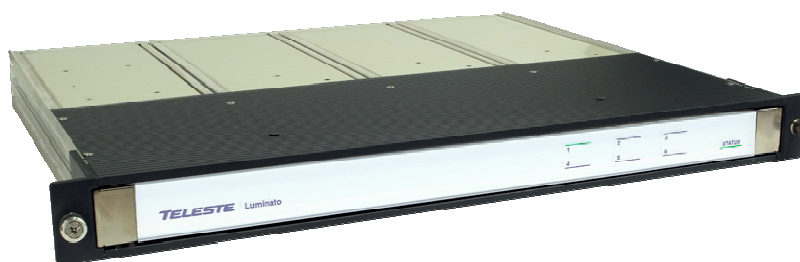


Quick Start Manual

Teleste Corporation



Luminato First Time Installation

SW version 1.1.2

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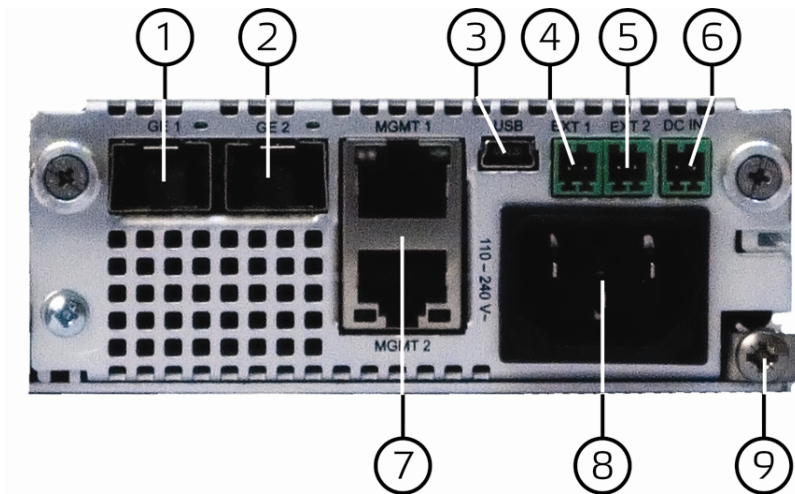
Introduction

Assumptions

This manual gives instructions to make first time setup. It is assumed that Luminato is already properly installed to rack and it has all sub modules installed into slots and also SFP installed into GE1 and/or GE2 slots.

Refer to separate Installation manuals for rack installation, sub module installation and SFP module installation.

Overview of the power/control unit



1. GE1 – gigabit Ethernet SFP module slot for payload streaming.
2. GE2 – gigabit Ethernet SFP module slot for payload streaming.
3. USB – USB interface for initial setup.
4. EXT1 – General purpose I/O (not in use yet)
5. EXT2 – General purpose I/O (not in use yet)
6. DC IN – 24VDC input for external redundant power supply
7. MGMT 1 and MGMT 2 – 100BaseT interfaces for management.
Main power - Connect with a main cable to a grounded 100 - 240 VAC 50/60 Hz power outlet.

Grounding

Ensure that the Luminato is properly connected to the earth in order to meet safety requirements. Proper grounding will also improve the protection from the effects of interference and increase the overall reliability of the system. Ground the Luminato chassis using the grounding screw (9) located near the main power connector.

First time set up

Preparations on You PC computer

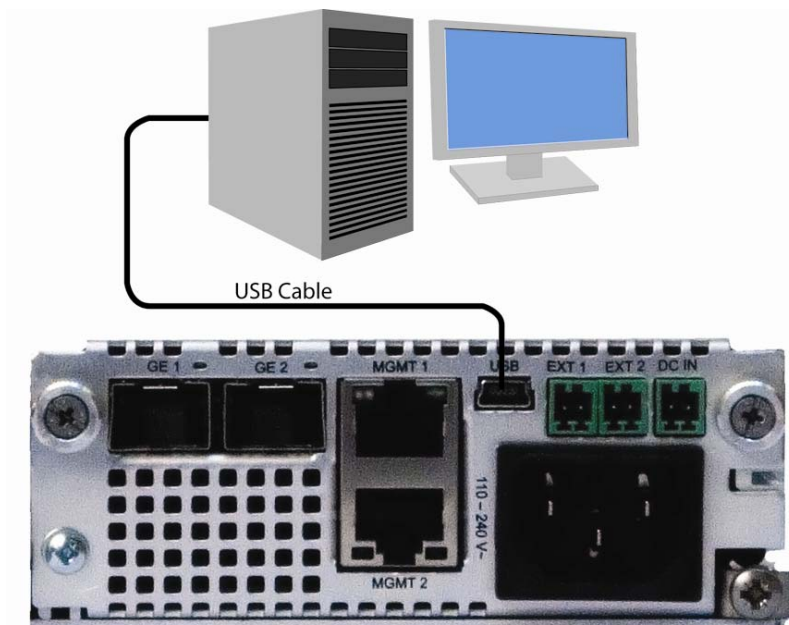
To initialize the Luminato using a USB cable, the computer USB port must be emulated to a serial COM port.

Windows XP

1. Copy the TelesteCDC.inf file to Your computer.
2. Switch on the Luminato by connecting the main cable to a grounded 100 - 240 VAC 50/60 Hz power outlet.

Note! Wait until the Luminato has start up, e.g. the module indicator lamps, on the Luminato front panel, show continuous green light.

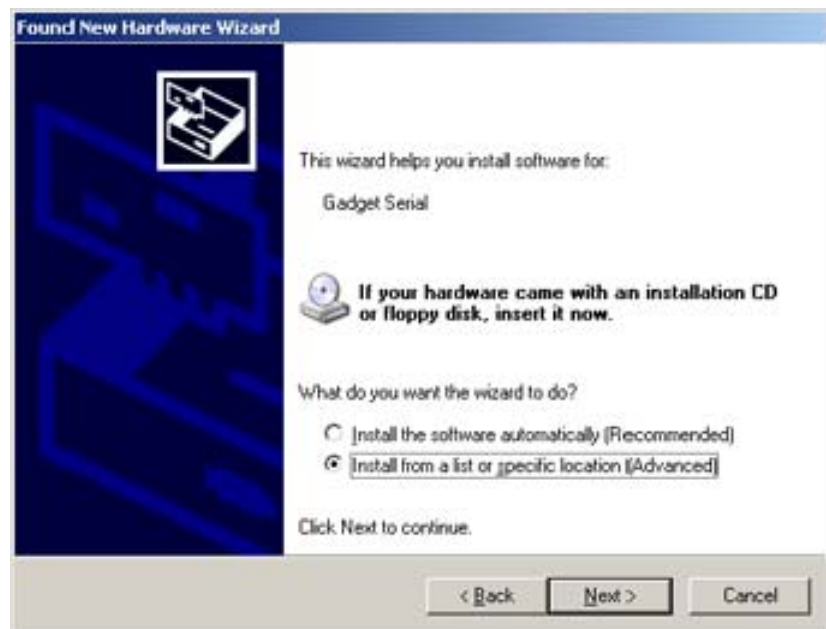
3. Connect the USB cable to the USB port on the Luminato and to the USB port on Your computer.



Note! Wait until the Windows XP have recognized the new hardware.



4. Select the “No, not this time.” Radio button, and click the “Next” button.



5. Select the “Install from a list or specific location (Advanced).” Radio button, and click the “Next” button.



6. Select the “Search for the best driver in these locations.” Radio button, mark the “Include this location in the search.” Check box and type in the path (or Browse to the folder) where You stored the “TelesteCDC.inf file on Your computer. Click the “Next” button.

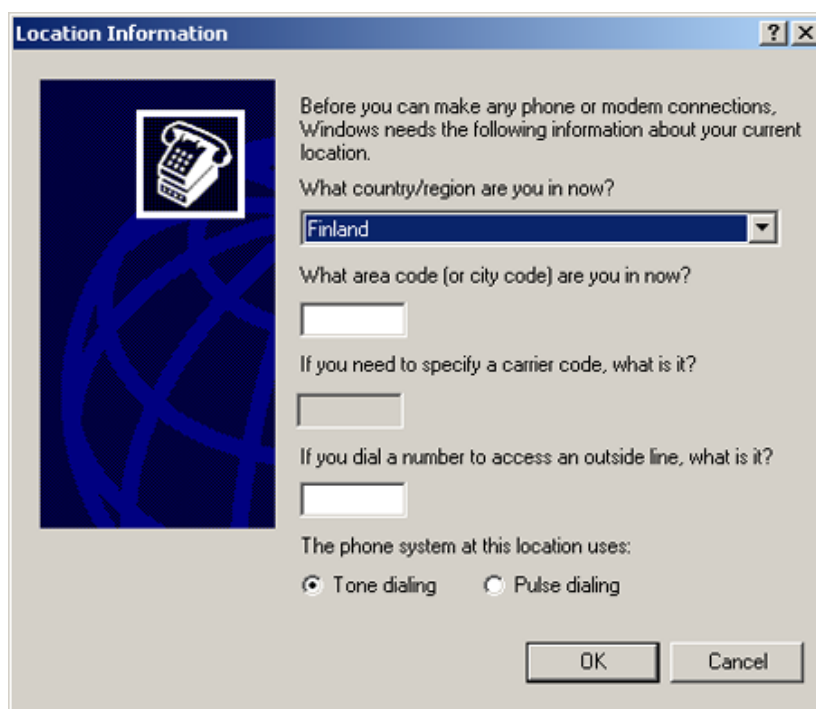


7. Click the “Finish” button and the computers USB port is emulated to a serial COM port.

First time log in

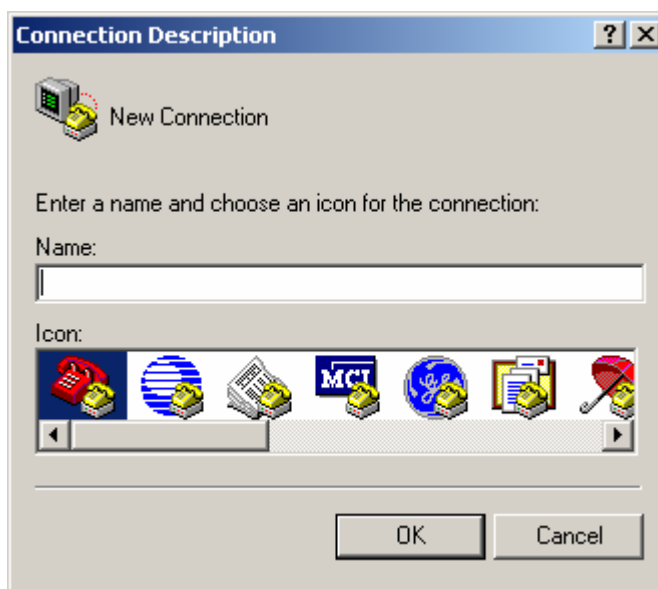
Start the Hyper Terminal

Start a Telnet terminal program, e.g. HyperTerminal.



Note! Ignore all phone and modem settings by clicking the Cancel button.

Name the Connection



Type in a Name and click the OK button.

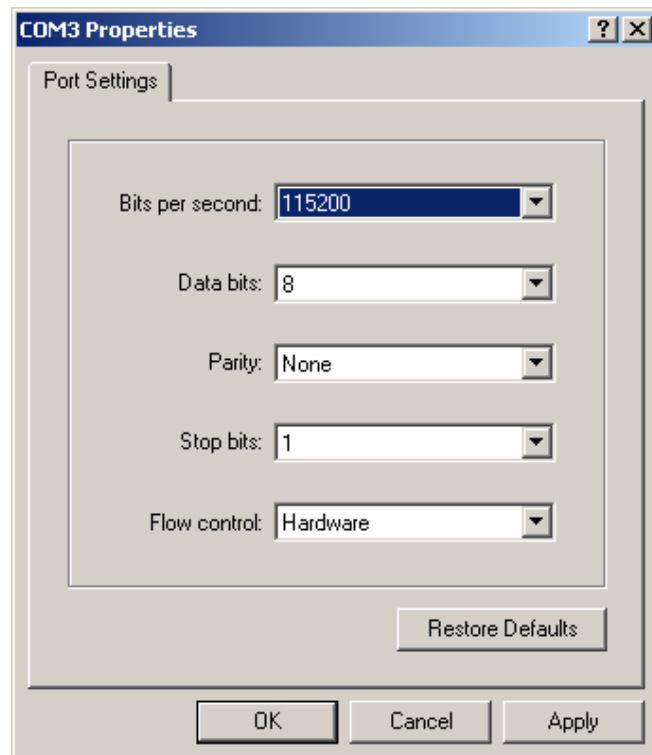
Select Connection



Set the “Connect using” to the COM port the Teleste CDC use and click the OK button.

Note! You can check which COM port the Teleste CDC use. Select Control Panel → System → Hardware → Device Manager → Ports.

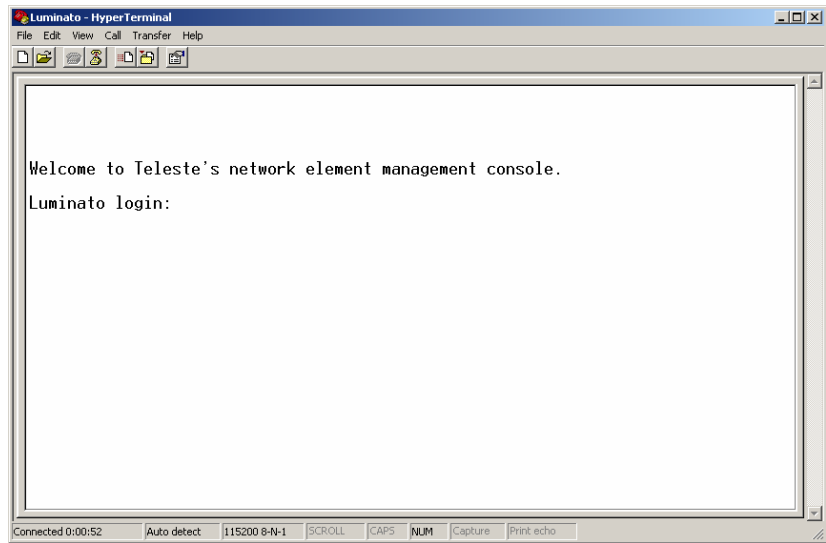
Set Port Settings



Set the Port Settings to the values show in the picture and click the OK button.

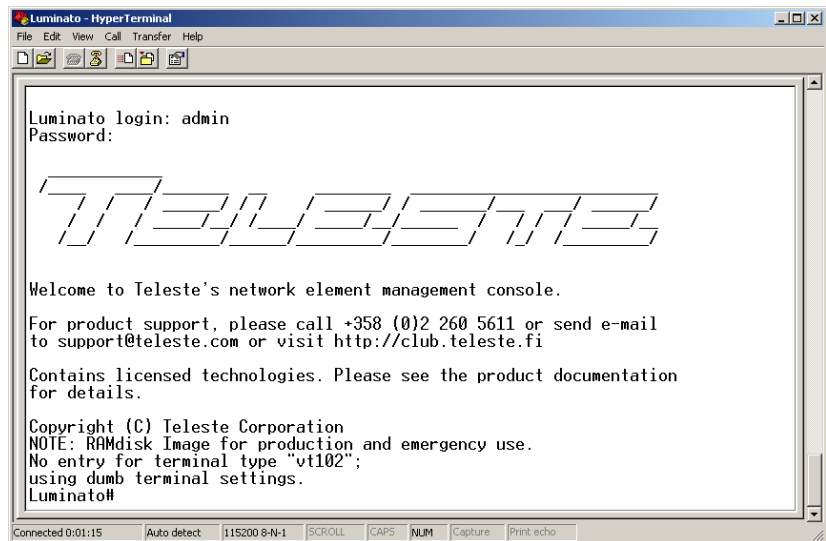
Connect to Luminato

The HyperTerminal start and a empty window is show.



Connect to Luminato by pressing the Enter key once.

Log in to Luminato

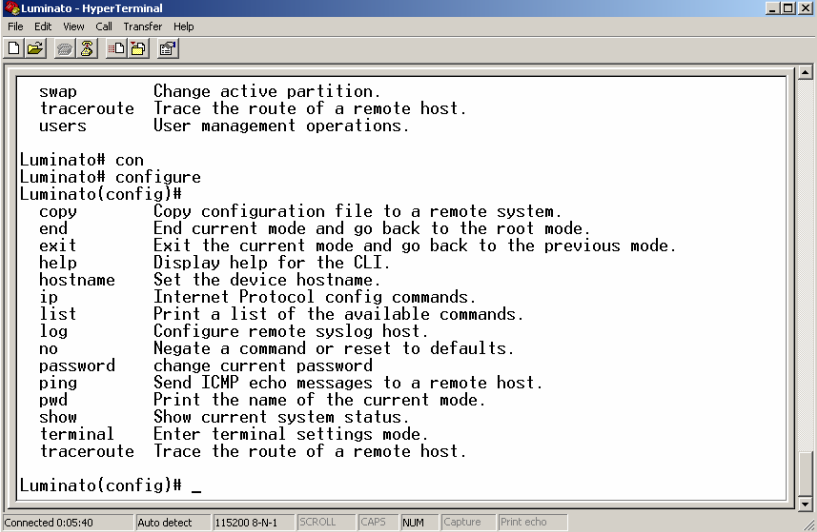


Log in to Luminato by using:

Luminato login: "admin"

Password: "admin".

Select Configuration mode



```
Luminato - HyperTerminal
File Edit View Call Transfer Help
swap Change active partition.
traceroute Trace the route of a remote host.
users User management operations.

Luminato# con
Luminato# configure
Luminato(config)#
copy Copy configuration file to a remote system.
end End current mode and go back to the root mode.
exit Exit the current mode and go back to the previous mode.
help Display help for the CLI.
hostname Set the device hostname.
ip Internet Protocol config commands.
list Print a list of the available commands.
log Configure remote syslog host.
no Negate a command or reset to defaults.
password change current password
ping Send ICMP echo messages to a remote host.
pwd Print the name of the current mode.
show Show current system status.
terminal Enter terminal settings mode.
traceroute Trace the route of a remote host.

Luminato(config)# _
```

Type in “Configure” on the command prompt and press the Enter key.

Hint! You do not need to type the whole command word. Type in the initial letter(s) and press the Tabulator key to complete the command word.

Hint! To view a list of available commands, type the “?” mark on the command prompt.

Set the MGMT 1 port IP Address

To make Luminato access able through the management interface you may adjust management port (MGMT1) port ip address. By default MGMT1 port ip address is 192.168.0.100 and mask 24 ie. 255.255.255.000.

Note! Luminato management port ip address has to be in same subnet than your computer ip address or headend management network.

Note! Do not reuse ip address to another device. If two devices have same ip address, management doesn't not work as ip traffic is confused.

```
Luminato# configure
Luminato(config)#
copy          Copy configuration file to a remote system.
end          End current mode and go back to the root mode.
exit         Exit the current mode and go back to the previous mode.
help        Display help for the CLI.
hostname     Set the device hostname.
ip          Internet Protocol config commands.
list        Print a list of the available commands.
log         Configure remote syslog host.
no          Negate a command or reset to defaults.
password    change current password
ping       Send ICMP echo messages to a remote host.
pwd        Print the name of the current mode.
show       Show current system status.
terminal   Enter terminal settings mode.
traceroute Trace the route of a remote host.

Luminato(config)# ip
address     IP address of an interface.
default    Device default gateway address.
route      IP routing table configuration.

Luminato(config)# ip address 192.168.0.100/24_
```

Example: Type in “ip address 192.168.0.100 <ip address>/24<mask>” on the command prompt and press the Enter key.

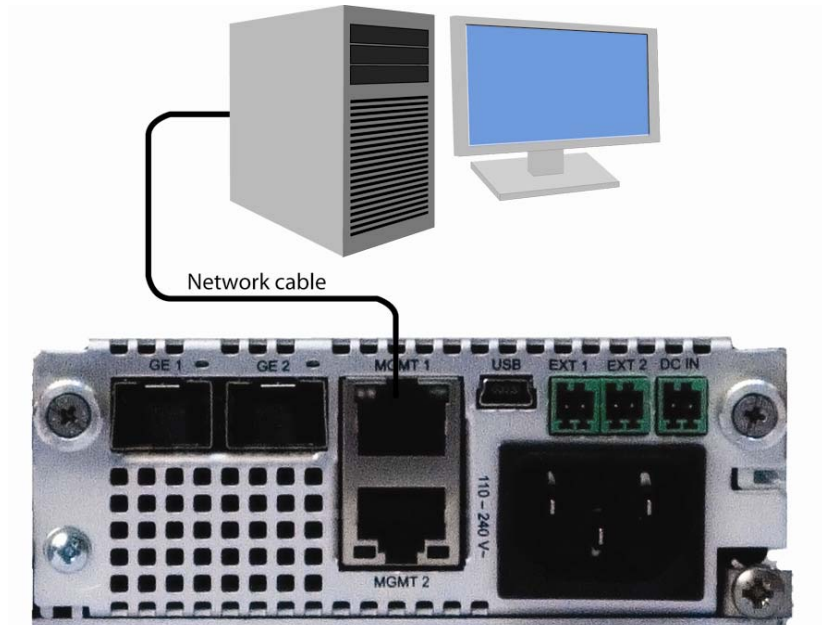
To do rest of initial setting you may change from CLI to WEBUI. This is explained in next chapters.

Exit the Configuration

The Luminatos IP address is now set. Exit the configuration mode with the Exit command.

Log in to the web user interface

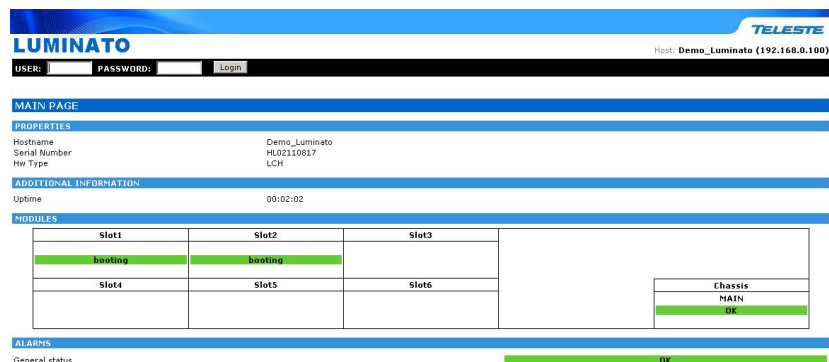
Connect the network cable



Connect a network cable (RJ-45) to the MGMT 1 connector (7) on the Luminato and to the LAN connector on the Management computer (or to the local network).

View the Luminato web user interface

Open the web browser and type in the IP address 192.168.0.100 in the browser's Address field and press the Enter key.



The screenshot shows the Luminato web user interface. At the top, there is a header with the 'LUMINATO' logo and the 'TELESTE' logo. Below the header, there is a login section with fields for 'USER:' and 'PASSWORD:', and a 'Login' button. The main content area is divided into several sections: 'MAIN PAGE', 'PROPERTIES', 'ADDITIONAL INFORMATION', 'MODULES', and 'ALARMS'. The 'MODULES' section contains a table with columns for Slot1, Slot2, Slot3, Slot4, Slot5, and Slot6. The 'ALARMS' section shows a 'General status' bar with a green indicator and the text 'OK'.

Slot1	Slot2	Slot3	Slot4	Slot5	Slot6
booting	booting				

Chassis
MAIN
OK

The Luminato Main page is viewed.

Log in to the web user interface

Log in by typing “admin” in the USER field and “admin” (default) in the PASSWORD field.

Note! You can change the Administrator and Operator password, see section “User Accounts”.

The screenshot shows the Luminato web interface. At the top, there is a navigation bar with links for Main, Configuration, Administration, About, and LOGOUT. The main content area is divided into several sections:

- PROPERTIES:** Hostname: Demo_Luminato, Serial Number: HL02110817, HW Type: LCH, HW Version: A12, SW Version: 1.1.2
- ADDITIONAL INFORMATION:** Uptime: 00:05:40
- MODULES:** A table showing the status of modules in slots 1 through 6. Slot 1 and 2 contain AS1 modules (OK), Slot 3 is empty, Slot 4 and 5 contain config modules (OK), Slot 6 is empty. A Chassis module (MAIN) is also shown as OK.
- ALARMS:** General status: OK

Properties

The properties section view information about the device (hostname, type, software and hardware version, serial number and boot loader version). Use these information, when contacting to Teleste support.

Additional information

The Additional Information section views information about device operations (uptime, total uptime, reset counter).

Modules

The Modules section views information about installed modules and their status:

Green: the module work properly

Yellow: module warning message

Red: module error message

Orange: a module not installed

Blinking green: the module is booting up

Alarms

The alarms section lists device alarms:

Green: the device work properly.

Yellow: device warning messages.

Red: device error messages.

To upgrade the Luminato software

If necessary, You can upgrade the Luminato software.

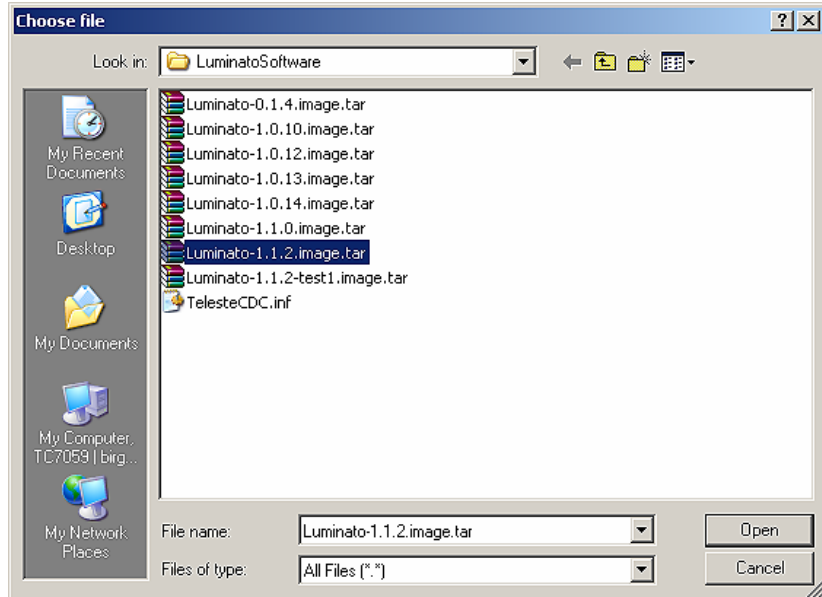
Note! Check the used Sw Version from the web user interface's Main page.

If a newer version is available, upgrade the software by selecting Administration -> Maintenance.



Select the software file

In the SOFTWARE section, click the Browse button.



Upload new software

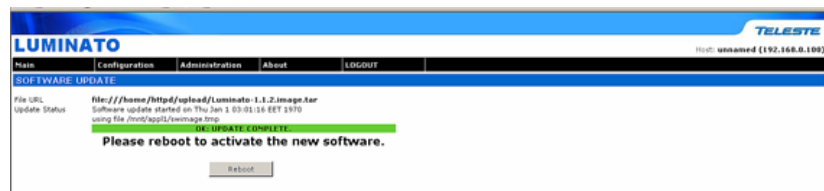
Select the folder where the new software are stored, select the file and click the Open button.



Start the File Upload by clicking the Send button.



Wait until the file upload are completed. This take approximately 3 minutes.



To activate the new software, please reboot the device.



Wait until the booting procedure is completed (the green module led's on the device front panel stop blinking).

Note! If the new software version do not work properly You can return to the previous used software version by clicking the OTHER version's Activate button.

Set Time and Date for Luminato

To set the device time and date, select Administration -> Service.

Host: Demo_Luminato (192.168.0.100)

Source of time: Real-time clock

Device time zone: Europe/Helsinki(+0200)

Device current system time: Fri, 11 Jul 2008 07:59:25 GMT

Set time from browser:

OK Cancel

You can see current device time and timezone and also clock source.

Click the “Edit Time Settings” link to edit time and edit of Luminato.

Tree different time sources can be selected:

1. Internal real time clock
2. External NTP server
3. DVB time extracted from incoming TDT/TOT tables

Note! Internal real time clock has backup powering only for short time power outage. It is recommended to connect Luminato to external NTP server to keep device clock all the time and date in synchronous.

Following appearance varies based on clock source selection.

Clock source: Internal real time clock

Host: Demo_Luminato (192.168.0.100)

Source of time: Real-time clock

Device time zone: Europe/Helsinki(+0200)

Device current system time: Fri, 11 Jul 2008 10:24:20 GMT

Set time from browser:

OK Cancel

If You select “Real time clock” as Time source, select correct Time zone and click the OK button.

Mark the Set time from browser checkbox to get current time of computer to be updated into Luminato.

To confirm settings click the OK button.

Clock source: External NTP server

This selection synchronizes the device clock to defined NTP server. Luminato continuously follows NTP server time and makes correction to device clock time.

The screenshot shows the Luminato web interface with the following configuration details:

- Source of time: External NTP server(s)
- Device time zone: Europe/Helsinki(+0200)
- Device current system time: Fri, 11 Jul 2008 10:24:20 GMT
- Configured NTP servers:
 - Server 1: 91.189.94.4
 - Server 2: 192.168.0.101
 - Server 3: 0.0.0.0

If you select “External NTP server(s)” as Time source, enter the server(s) IP address(es)
Choose time zone
To confirm settings click the OK button.

Clock source: DVB stream

This selection synchronizes the device clock to the time and date of incoming DVB stream. Luminato can read time information from TDT / TOT tables of selected incoming DVB stream.

The screenshot shows the Luminato web interface with the following configuration details:

- Source of time: DVB stream
- Device time zone: Europe/Helsinki(+0200)
- Device current system time: Fri, 11 Jul 2008 10:54:04 GMT
- DVB input: Slot 1:1 (selected)

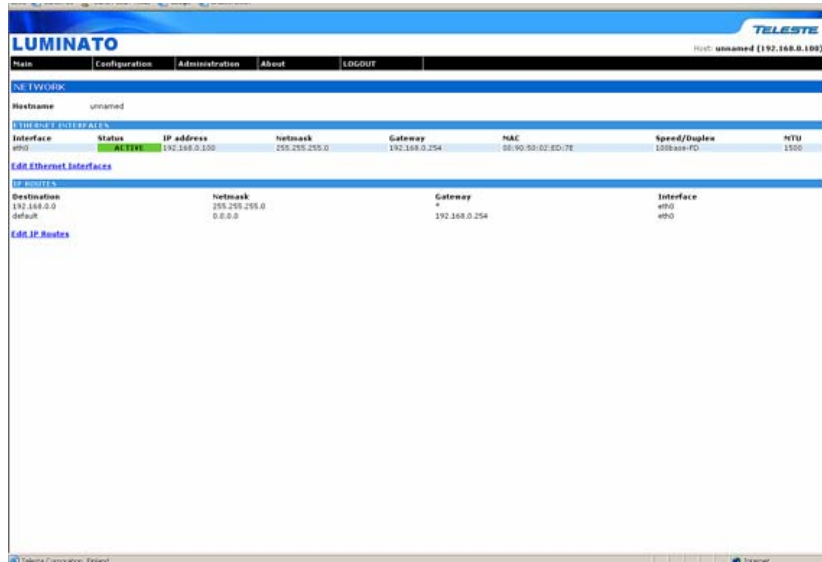
If You select “DVB stream” as Time source, select the DVB input (Slot), where you want take the time and date.
Choose time zone
To confirm settings click the OK button.

Note! Please wait until the time is set and the browser return to previous page.

Configure network settings

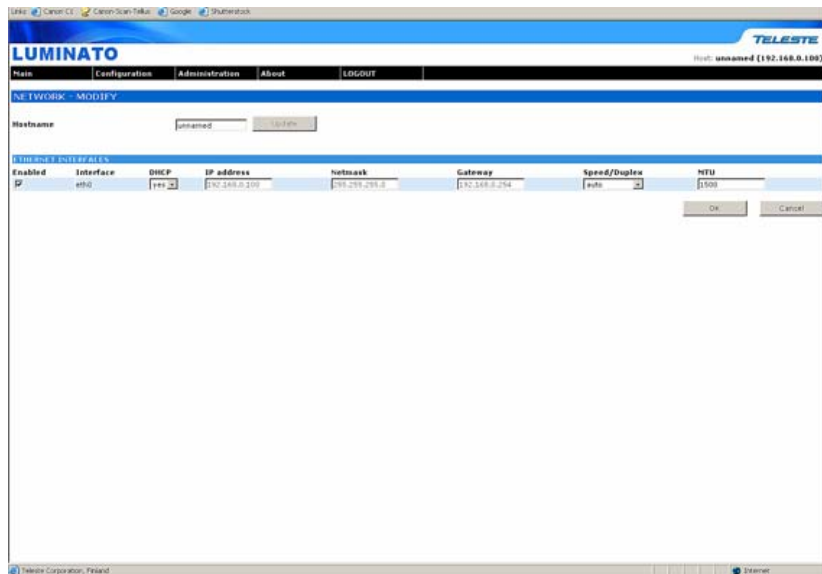
You can edit network settings. If You need to configure Network settings, select Administration – Network.

Note! If you change management ip address of Luminato, you may loose your connection to Luminato.



To configure the network settings, click the “Edit Ethernet Interface” link.

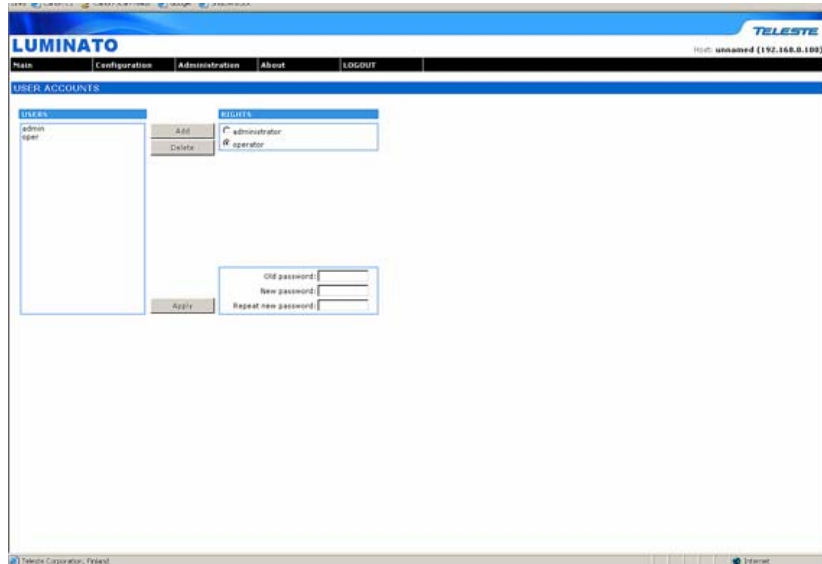
To edit the network settings



Note! Be careful when editing Ethernet interface settings. If you change management port ip address, you may loose connection to Luminato.

User Accounts

You can create new user account with administrator or operator rights, delete existing account or change accounts password. To edit user accounts, select Administration – User Accounts.



Version Information

This document is based on the following system component versions. If the component versions of your system differ from these, some of the features presented in this document may not function or the configuration display pages may look slightly different.

VERSION INFORMATION	
Hardware version	A12
Software version	1.1.2

Environmental

WEEE Notice

This product complies with the relevant clauses of the European Directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE). The unit must be recycled or discarded according to applicable local and national regulations.



European Conformity

This equipment conforms to all applicable regulations and directives of European Union which concern it and has gone through relevant conformity assessment procedures.



Legal Declarations

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