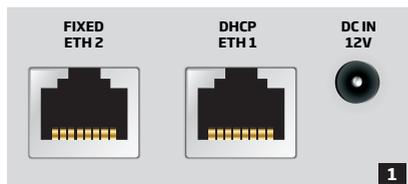# eldes

ESR100

Contents

1. QUICKSTART GUIDE

NOTE: It is recommended to use the DHCP connection.

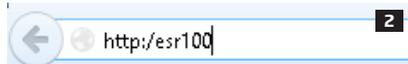Locate the two ports at the back of the device

ETH1 port - DHCP
ETH2 port - Fixed
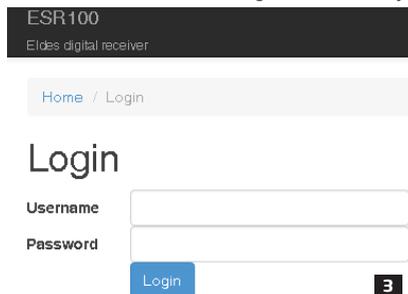

Plug in the cable into ETH1 port.
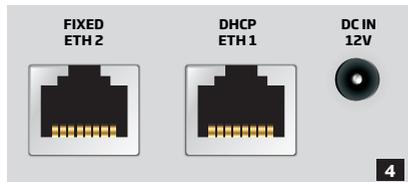The device should automatically set up the connection
After connecting the cable, open your browser and type http:/esr100 in the address bar and press Enter.

You should be redirected to the Login window, where you can enter your username and password and start using the device.


If you have failed to log in, plug in the cable into ETH2 port.

The port has a fixed IP address.
In order for the device to start working, you will need to enter the following I.P. address - **192.168.3.48** - in Internet protocol properties.
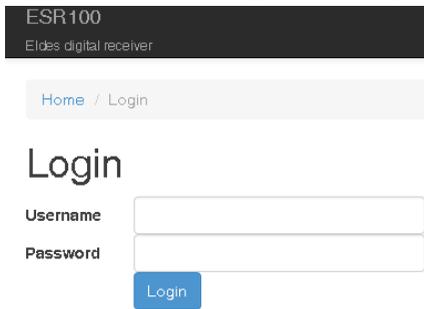You can access these properties the following way:
Network places → Network connections → Local area connection properties → Internet protocol properties.
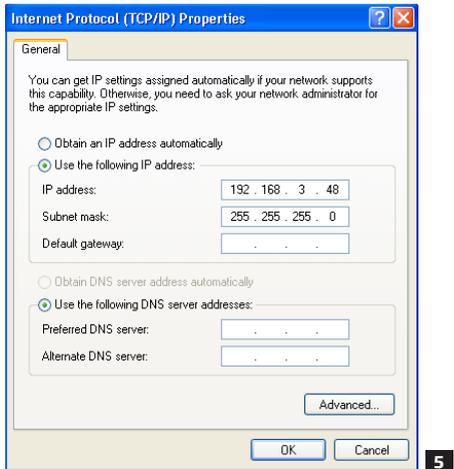
After entering the following I.P. and pressing OK, enter the I.P. address in the address bar of your browser and pres enter:

You should be redirected to the Login window, where you can enter your username and password and start using the device.

2. TOOLBAR
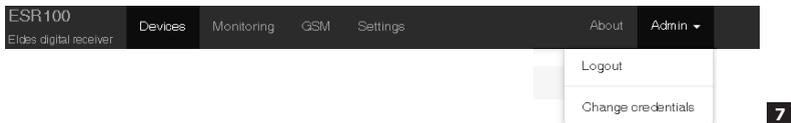
Devices - opens the Devices section, where you can review information about wireless devices and adjust their settings.
Monitoring - opens the Monitoring station window, where you can manage monitoring station settings.
GSM - opens the GSM settings window, where you can view the modem status and change CSD settings.
Settings - this section provides receiver control options and LAN configuration settings.
About - opens the help file.

NOTE: The upper toolbar is fixed at the top of the window and will appear in all sections

3. ADMIN

Admin - opens up the drop-down list, which allows you to logout or change admin credentials, like the username and password.

Change login credentials

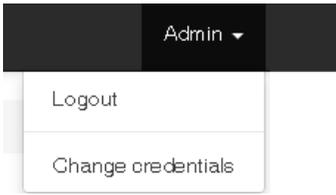**Current Username**

Current Password

Username

Password

Password Repeat

Change

To change current login credentials you have to enter your current username and password in specified fields. Then you need to enter your new username and password, and click Change button afterwards.

4. LOWER TOOLBAR

The lower toolbar provides you with information about the modem and receiver status, as well as information about system memory.

Modem - Shows the modem status.
Values:
• Online
• Offline

Receiver - Shows the receiver status.
Values:
• Running
• Not running

System load - Specifies how much system resources are currently used.
Memory usage % - Specifies current memory usage of the system.

> **NOTE:** The lower toolbar is fixed at the bottom of the window and appears in all sections.
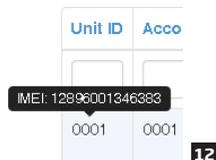
5. DEVICES

Devices section displays information about wireless devices, which are currently being monitored.

Unit ID	Account	Last Channel	Last Channel Value	FW Version	GSM Level	Last Event	Timeout 1	Timeout 2	Timeout 3	Monitoring Station
		▼								▼
0066	0066	UDP	192.168.3.12	75.23.39	▂▃▄▅	2014-05-06 16:37:40	15	60	240	Serial ▼
0001	0001	UDP	192.168.3.12	02.07.08	▂▃▄▅	2014-05-06 16:37:09	53	60	242	USB 4 ▼
0065	0065	UDP	192.168.3.12	74.51.57	▂▃▄▅	2014-05-05 13:54:55	64	66	74	Serial ▼

Unit ID - Identification number of a certain wireless device.

NOTE: When you put your mouse over a certain unit ID, a box will pop up, indicating the IMEI number of the device.

Account - Identification number of the account, assigned to a wireless device, which is sent to the monitoring station during data transmission.

Last Channel - Data transmission channel used to receive the last event.

Avaliable channels:
- TCP
- UDP
- SMS
- CSD

Last Channel Value - Value, depending on the channel used to receive the last event.

If the Last Channel used for data transmission was TCP/UDP, the value will be will be specified as an IP address.
If the Last Channel used for data transmission was SMS/CSD, the value will be will be specified as a telephone number.

NOTE: If the CLIP DB parameter is turned ON and SMS/CSD channel is used for data transmission, the Last Channel Value field will display a username assigned to the telephone number in CLIP DB database. For more information see chapter **6. CLIP DB.**

FW Version – Current firmware version of connected devices.

GSM Level (dB.) - GSM signal strength level.

Last Event Time - time of the last event received from a certain wireless device by the monitoring station.

NOTE: When you put your mouse over a certain event time, a box will pop up, indicating the date and time last update of the information.

Timeout 1... 3 - If there were no messages from the device during the set time value in the Timeout 1,2 and 3 a notification is sent to the monitoring station after each timeout.

Monitoring station - Shows which monitoring station received a certain event and what data transferring type was used.

Serial - Serial port
USB1 - USB port
USB2 - USB port
USB3 - USB port
USB4 - USB port

6.CLIP DB

ATTENTION: Numbers which are NOT added to the CLIB DB database will NOT be able to communicate with the monitoring station.

CLIP DB section allows you to turn on CLIP DB function. When it is turned on, the system will receive incoming alerts and event notifications Only from the numbers located in the list.
Each time CLIP DB function is turned ON or OFF a verification window pops up, asking you to confirm your actions.

Add New Number - Allows to add a new number to the CLIP DB section. Pushing this button takes you to a number adding section, where you have to enter your number and name**.**

After entering the required information in the appropriate fields, click the **Add** button.

Total **2** items.

Name	Number	Updated	
Marius	3765879680	2014-04-17 16:55:43	👁 ✏ 🗑
Justinas	6522333441125	2014-05-02 14:29:45	👁 ✏ 🗑

Total x items - shows the total number of items in the database, where **x** is the exact number of items.

Numbers:

Name - name of a user in the database**.**

Number - telephone number of the user in the database**.**

Updated - last time the user information was added or updated**.**

Additional options:
There are three buttons next to each entry in the database**.**

1. View button - show more detailed information about the certain user**.**

2. Update button - change information of an existing user**.**

2. Delete button - delete existing user from the database**.**

Unit ID	Account	Last Channel	Last Channel Value	FW Version	GSM Level	Last Event Time	Timeout 1	Timeout 2	Timeout 3	Monitoring Station
		▾								▾
0003	0003	SMS	Marius	71.10.00	📶	2014-04-22 11:47:40	15	60	240	Serial ▾

If the CLIP DB parameter is turned ON and SMS/CSD channel is used for data transmission, the **DEVICES → Last Channel Value** field will display a username assigned to the telephone number in CLIP DB database.

7. MONITORING

Monitoring section provides access to monitoring station settings.

Monitoring Station Settings

Name	Baudrate	Data Bits	Parity	Stop Bits	Flow Control	Heartbeat Enable	Heartbeat Period (s.)	
Serial	115200 ▾	8 ▾	Even ▾	1 ▾	OFF	ON	30	☐
USB 1	9600 ▾	8 ▾	None ▾	1 ▾	OFF	OFF	30	☐

Name - name of the channel, receiving data from the monitoring station.

Baudrate - speed of COM port settings.

Heartbeat - function, allowing to check the signal between the monitoring station and the receiver.

Heartbeat Period (s.) - pauses between signal checks in seconds.

Heartbeat Period (s.)

25

Heartbeat Period (s.) must be no less than 30.

ATTENTION: Minimum value of the Heartbeat Period is 30 seconds. The system will not allow to enter a lower value then 30 seconds.

Editing monitoring station parameters

Parameters, which have been edited have a green outline around them.
In order to save edited options, you must click the check-box, located at the end of each entry in the table.

After you click the check-box, the Submit Selected button will be highlighted and you will be able to save you parameters.

8.GSM

GSM section lets you check the modem status and configure CSD parameters.

Modem status

The modem status window show different information about the modem.

Status - modem status, online/offline.
Signal level - current modem signal level.
Operator - current GSM operator.
Country - the country of the current GSM operator.
Last update - time of last update of the modem status information.

CSD settings are used to set up parameters for transferring data through CSD.

CSD Settings

Connect Time - A set period of time intended for the device to call the receiver, connect and start exchanging data.
Session Time - A period of time, intended for data transferring. After the receiver receives a call from a wireless device and successfully establishes connection, it starts transferring data. The data transfer ends and the receiver hangs up after the set time in this field.
Submit button - Saves changes to the CSD settings.

9. SETTINGS

Settings section allows you to view receiver status and control options as well as configure LAN parameters.

Receiver control

Status	Running ⟳

Start button - activates the receiver (providing it was deactivated). Activates the receiver if it was previously turned off.

Restart button - restarts the receiver. Used to restart the server if malfunctions or problems are present.

Stop button - deactivates the receiver (providing it was activated). used to deactivate the server when maintenance or device relocation is required.

Status - show current receiver state, running/not running.

⟳ refresh button - Refreshes the *Status* window, so the latest receiver status could be seen.

ATTENTION: If the receiver is turned Off, devices will NOT be able to communicate with the monitoring station by any channel (TCP; UDP; SMS or CSD).

LAN configuration

#	Name	Type	Status	Mac	IP	netmask	gateway
1	eth0	dhcp	Online	00:10:f3:30:b6:7e	192 168 3 48	255 255 255 0	192 168 3 1
2	eth1	dhcp	Offline	00:10:f3:30:b6:7f			
							Submit

 # - sequence number of receiver ports**.**

Name - names of receiver ports.

Type - network protocol type

- **dhcp -** dynamic host configuration protocol
- **static -** static network configuration protocol

Status - current status of the network, Online/Offline.

Mac - network address of a certain port.

IP - IP address of a certain port.

Submit button - saves the changes