

2N[®] EasyGate IP User Manual



- 1. Product Description
 - 1.1 Product Description
 - 1.2 Components and Associated Products
 - 1.3 Terms and Symbols Used
- 2. Device Installation
 - 2.1 Before You Start
 - 2.2 Mechanical Installation:
 - 2.3 Electric Installation
 - 2.4 Overview of Connectors
 - 2.5 Overview of LED Indicators
 - 2.6 RESET Button Function
- 3. Phone Line Tones – Operational Tones
- 4. Web Interface Login
 - 4.1. 2N® Elevator Center
 - 4.2 2N® EasyGate IP – Web Configuration Utility
- 5. Configuration
 - 5.10 Tester / I/O
 - 5.10.1 LED
 - 5.10.2 Test Call
 - 5.1 Status
 - 5.1.1 LED
 - 5.2 Network / SIM1
 - 5.2.1 SIM2
 - 5.2.2 VoLTE
 - 5.2.3 WWAN
 - 5.2.3.1 Data Connection
 - 5.2.3.2 Backup
 - 5.2.3.3 Ping
 - 5.2.3.3.1 Primary
 - 5.2.3.3.2 Backup
 - 5.3 My2N / Basic Settings
 - 5.3.1 2N® My2N Security
 - 5.4 SIP / Basic Setup
 - 5.4.1 SIP Security
 - 5.4.2 Others
 - 5.5 NTP
 - 5.6 SMS / Setting
 - 5.6.1 Commands
 - 5.6.1.1 List of Parameters
 - 5.6.2 Events
 - 5.6.3 Digital Input
 - 5.6.4 LIFT1
 - 5.7 Telephony / Dialing
 - 5.7.1 Babycall

- 5.7.2 Pulse Dialing
- 5.7.3 Dial Tone
- 5.7.4 Busy Tone
- 5.7.5 Continuous Tone
- 5.7.6 Ring
- 5.7.7 Others
- 5.8 Services / Signaling
 - 5.8.1 Modem to TCP
 - 5.8.2 Serial to TCP
 - 5.8.3 Battery Status Signaling
- 5.9 Maintenance / Configuration
 - 5.9.1 Firmware
 - 5.9.2 Batteries
 - 5.9.3 Temperature Monitor
 - 5.9.4 System
 - 5.9.5 Logs
- 6. Function and Use
 - 6.1 Phone Calls
 - 6.2 SIP Calls
 - 6.3 VoLTE Calls
 - 6.4 GSM / UMTS Calls
- 7. Technical Parameters
- 8. Supplementary Information
 - 8.1 Troubleshooting
 - 8.2 Directives, Laws and Regulations
 - 8.3 General Instructions and Cautions

1. Product Description

In this section, we introduce the **2N® EasyGate IP** product, outline its application options and highlight the advantages following from its use. The section also includes safety precautions.

Here is what you can find in this section:

- [1.1 Product Description](#)
- [1.2 Components and Associated Products](#)
- [1.3 Terms and Symbols Used](#)

1.1 Product Description





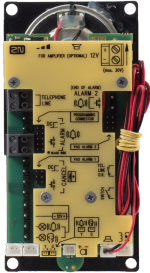

2N® EasyGate IP is designed primarily for voice transmission over VoIP (or VoLTE, GSM, UMTS) between a mobile network and a connected FXO-equipped terminal (PBX, phone, lift communicator, answering machine, etc.). When connected to the 2N® Elevator center cloud service, the gateway shows an extended functionality including remote management, auto provisioning, real-time device state monitoring and others.

Basic Functions:

- Calling (VoIP, VoLTE, CS calls)
- Data transmission
- Autonomous battery operation
- Remote management via 2N® Elevator Center
 - automatic configuration
 - bulk update
 - remote access
 - real-time monitoring

1.2 Components and Associated Products






Main Units		
	<p>Part No. 5023001E, US, AU</p>	<ul style="list-style-type: none"> • 2N® EasyGate IP Lift, LTE, VoIP, FXS port, Aku+, 100-240V/1A E/US/AU plug • IP gateway for voice transmission with FXS interface
	<p>Part No. 5023011E, US, AU</p>	<ul style="list-style-type: none"> • 2N® EasyGate IP LTE, VoIP, FXS port, Aku+, 100-240V/1A E/US/AU plug • IP gateway for voice transmission with FXS interface
	<p>Part No. 5023101E, US, AU</p>	<ul style="list-style-type: none"> • 2N® EasyGate IP Lift, LTE, VoIP, FXS port, modem, Aku+, 100-240V/1A E/US/AU plug • IP gateway for voice transmission with FXS interface
	<p>Part No. 5023111E, US, AU</p>	<ul style="list-style-type: none"> • 2N® EasyGate IP LTE, VoIP, FXS port, modem, Aku+, 100-240V/1A E/US/AU plug • IP gateway for voice transmission with FXS interface

Accessories		
<p>Part No. 5029001</p> 	<ul style="list-style-type: none"> • 2N® EasyGate IP – RJ11 to FXS adapter • reduction RJ11 / FXS 	
Management Services		
<p>Part No. 9137991</p>	<ul style="list-style-type: none"> • 2N® Elevator Center device fee • Cloud service license for lift bulk management 	
Associated Devices		
<p>Part No. 919640</p>		<ul style="list-style-type: none"> • Lift1 – cabin audio unit <ul style="list-style-type: none"> • Basic model (fully extendable) • Provides automatic dialing of up to six numbers • Factory default announcements are played back • Lift identification message customization option
<p>Part No. 919640X</p>		<ul style="list-style-type: none"> • Same as 919640 + (includes LED, microphone a speaker connected via cables)
<p>Part No. 919618</p>		<ul style="list-style-type: none"> • Same as 919640 + stainless steel cover plate
<p>Part No. 919645</p>		<ul style="list-style-type: none"> • 2N® Lift1 Compact <ul style="list-style-type: none"> • Basic model • Provides automatic dialing of up to six numbers • Factory default announcements are played back • Lift identification message customization option

Associated Devices		
Part No. 919645WBE		<ul style="list-style-type: none">• 2N® Lift1 Compact<ul style="list-style-type: none">• Same features as 919645• Buttonless version

1.3 Terms and Symbols Used

The following symbols and pictograms are used in the manual:

-  **Safety**
 - **Always abide** by this information to prevent persons from injury.
-  **Warning**
 - **Always abide** by this information to prevent damage to the device.
-  **Caution**
 - **Important information** for system functionality.
-  **Tip**
 - **Useful information** for quick and efficient functionality.
-  **Note**
 - Routines or advice for efficient use of the device.

2. Device Installation

This section describes the **2N® EasyGate IP product** and its installation. Here is what you can find in this section:

- [2.1 Before You Start](#)
- [2.2 Mechanical Installation:](#)
- [2.3 Electric Installation](#)
- [2.4 Overview of Connectors](#)
- [2.5 Overview of LED Indicators](#)
- [2.6 RESET Button Function](#)

2.1 Before You Start

Product Completeness Check

Before starting the installation, check whether the **2N® EasyGate IP** package includes all the items listed below:

1x	2N® EasyGate IP product
1x	1x wall / DIN rail bracket
2x	Dowel (6 mm) with screws (4.5 x 40 mm)
1x	Screw for fitting the device in the holder
1x	Antenna
1x	FXS cable
1x	Power supply
1x	Brief Manual
4x	NiMH type AA, 1.2 V / 2100 mAh battery
1x	2-pin terminal
1x	3-pin terminal

Installation Conditions

- **2N® EasyGate IP** is designed for vertical mounting.

- Install **2N® EasyGate IP** with respect to the signal strength – check the LED indicator status or display the information in the device web interface.
- Place **2N® EasyGate IP** out of range of sensitive devices and human bodies for electromagnetic interference reasons. The installed device is intended for permanent operation with the minimum separation distance of 20 cm from the user.
- For the allowed range of operating temperatures refer to Section 8. [Technical Parameters](#).
- **2N® EasyGate IP** may not be operated on sites exposed to direct solar radiation or near heat sources.
- **2N® EasyGate IP** is designed for indoor use. It may not be exposed to rain, flowing water, condensing moisture, fog, etc.
- **2N® EasyGate IP** may not be exposed to aggressive gas, acid vapors, solvents, etc.
- **2N® EasyGate IP** is not designed for environments with high vibrations such as means of transport, machine rooms, etc.
- Make sure there is enough free space above and under **2N® EasyGate IP** for cabling and flowing air to conduct heat away.
- An improper placing of **2N® EasyGate IP** or the antenna near television, broadcasting or other high-frequency sensitive devices may have an adverse affect on their functionalities.

Caution

- Make sure that you have all equipment necessary for putting **2N® EasyGate IP** in operation (SIM card, analog phone or PBX FXO port or USB-C cable for device-PC interconnection).

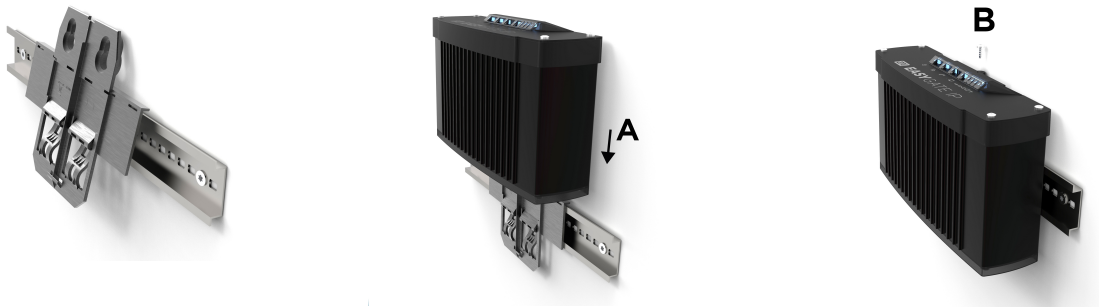
Warning

- Only vertical mounting with the connectors heading down guarantees that the device is waterproof. If installed otherwise, the device may be infiltrated with water and damaged irreversibly!!!

2.2 Mechanical Installation:

2N® EasyGate IP is designed for mounting on a vertical surface using a DIN rail bracket (35 mm) or a wall bracket using screws fitted to the bracket mounting holes.

DIN Rail Mounting



No other tool is needed for DIN rail installation. The DIN rail bracket has a standard size of 35 mm. Put the upper inner side of the bracket profile on the DIN rail and push its bottom side to make the bracket click and fit to the DIN rail. Now all you have to do is slide **2N® EasyGate IP** from the top into the bracket profile (A) and fit its position with a screw (B).

Wall Installation

Use the bracket and two dowels with screws included in the package to install **2N® EasyGate IP** on a wall. Drill holes in a selected place and selected height of the wall and insert the dowels. Pass the screws through the bracket holes and screw them into the dowels in the wall. Now all you have to do is slide **2N® EasyGate IP** from the top into the bracket profile (A) and fit its position with a screw (B).

2.3 Electric Installation

2N® EasyGate IP consists of a VoIP gateway in a black case, removable antenna and phone / PC / power supply connecting cables.

To put **2N® EasyGate IP** in operation, connect the device to the power supply, connect an external antenna and insert the SIM card.

Device Connection to Power

Connect the supplied power terminals to the POWER connector, connect the power supply to the mains. The device activity is signaled by status LED indicators. Refer to [Subsection 2.5 Overview of LED Indicators](#) for details. **2N® EasyGate IP** is fed with 9–30 V / 1 A DC. Where a source other than the included power supply is used, the allowed voltage range and polarity have to be maintained according to the technical parameters.

In the case of a power failure, four NiMH size AA (1.2 V / 2000 mAh) batteries inside the device provide power backup and thus normal operation of the device. As part of the device, this battery pack is placed on the bracket bottom side and covered with a plate fitted with a screw. The cell polarity is indicated next to the battery pack space.

Use the O/I switch on the bottom side to turn the device off. By disconnecting the power supply you do not turn the device off but redirect the operation to the back battery source.

⚠ Caution

- Make sure that the power distribution network voltage matches the data provided on the power supply adapter label before connecting the device to the electric mains.
- Whenever the power supply is disconnected or fails, power is automatically taken from the backup batteries.

Warning

- The device may be operated in a temperature range of 0 °C – 50 °C if equipped with the provided batteries, or at temperatures outside this range without these batteries. Remember to use batteries with increased thermal resistance in order to make the backup function work. You can connect an external battery with increased thermal resistance or use an external battery placed under convenient temperature conditions.
- Use only the recommended NiMH AA battery type for backup. These storage batteries are the only ones approved for use! **If other batteries are used, there is a danger of device damage or even explosion!**
- **At the end of service life, the batteries must be disposed of as hazardous waste in accordance with the local regulations.**

Antenna Connection

Screw the enclosed antenna into the SMA antenna connector. Tighten the antenna connector gently with your hand, never use a wrench!

SIM Card Installation

Insert a SIM card (Mini SIM size) without PIN request into the SIM1 slot on the device bottom side. Push the SIM card to fix its position in the SIM slot. A properly inserted SIM card sticks out slightly from the slot. Check whether the SIM card has been inserted properly by examining its outline above the slot. To remove the SIM card, push the SIM card again to loosen it, slide out a little and make it ready for removal. Remember to set PIN deactivation and such provider services as call forwarding, call barring, preferred networks, SMS center, etc. in your mobile phone, for example, before inserting the SIM card in **2N® EasyGate IP**. The SIM2 slot is used for inserting the backup SIM card.

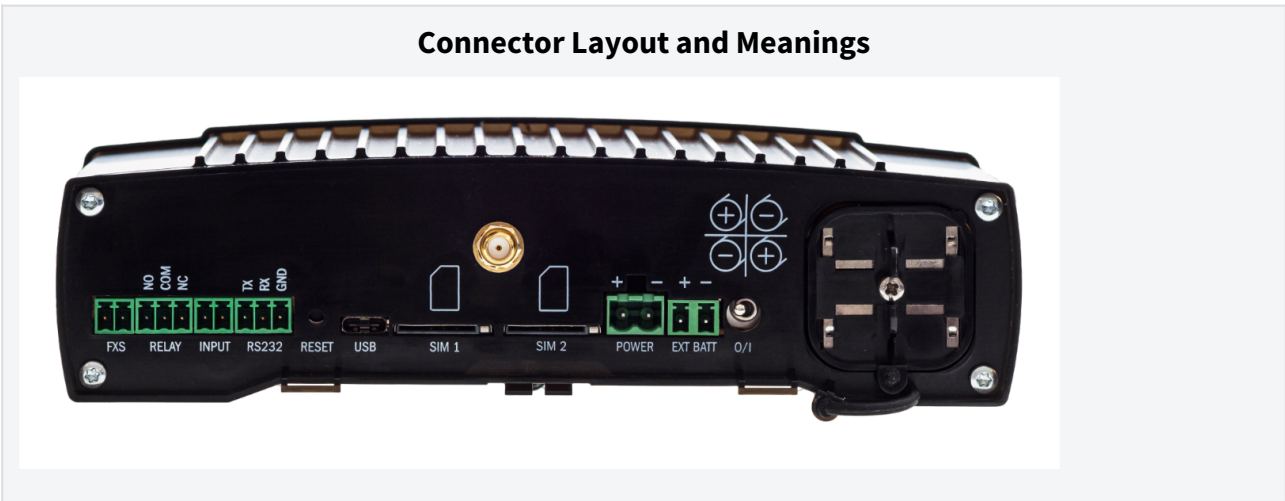
Phone Terminal Connection

In addition to an emergency intercom, **2N® EasyGate IP** can be connected to any standard phone, answering machine or other terminal equipment equipped with an FXO interface.

PBX Connection

Connect **2N® EasyGate IP** to an unused line of your PBX (FXO). Configure the PBX in such a manner that the outgoing GSM calls are routed to **2N® EasyGate IP**.

2.4 Overview of Connectors




Connector Layout and Meanings	
FXS	Analog line
RELAY	NO (Normally Open): contact that is open against the COM contact at relax.
	COM: contact that switches between NO and NC after voltage is applied to the coil.
	NC (Normally Closed): contact that is connected with the COM contact at relax.
INPUT	Shorting input. Not used for voltage connection.
RS232	Used for connecting the device with the serial bus (in some controller types, e.g.).
	TX, output from 2N® EasyGate IP.
	RX, input to 2N® EasyGate IP.




	GND, grounding.
RESET	A short press restarts the device. A long press (20 s) resets the device factory values.



USB	Used for local access to the web interface settings via the 2N® EasyGate IP – 2N Web Configuration Utility .
SIM1	Primary SIM card slot without PIN.
ANTENNA CONNECTOR	SMA antenna connector.
SIM2	Secondary SIM card slot for primary SIM backup at signal loss.
POWER	Power supply connector.
EXT BATTERY	Connector for remote connection of 4 external NiMH batteries outside the device. Power is withdrawn from the external battery automatically in the case of an electrical power failure. Make sure that the internal batteries are removed before connecting external batteries!
O/I	Device on/off switch.

2.5 Overview of LED Indicators

The status of **2N® EasyGate IP** is signaled by the LED indicators on the device upper side. Refer to the table below for the statuses.

LED Indicators	
 Power supply	<ul style="list-style-type: none"> • Blue – mains power
	<ul style="list-style-type: none"> • Red – HW error <p>When an HW error is indicated by a red LED, request rectification or compensation from your distributor.</p>
	<ul style="list-style-type: none"> • Green – battery power
	<ul style="list-style-type: none"> • Yellow – battery removal required, two-year life exceeded
	<ul style="list-style-type: none"> • Yellow flashing once in 1 s (0.5 s/0.5 s) – battery error
	<ul style="list-style-type: none"> • No light – device off

 <p>Network</p>	<ul style="list-style-type: none"> • Blue – primary SIM card used • Yellow – secondary SIM card used <p>Function:</p> <ul style="list-style-type: none"> • Light on – connected to network • Flashing once in 1 s – disconnected from network, SIM card detected • Flashing once in 3 s – disconnected from network, no response from SIM
 <p>Line</p>	<ul style="list-style-type: none"> • Blue – SIP call • Green – VoLTE call • Yellow – call via a mobile voice channel • White – programming or sending information to 2N® Lift1 <p>Function:</p> <ul style="list-style-type: none"> • No light – on-hook • Flashing once in 1 s – on-hook, dialing / incoming call (ringing) in progress • Light on – active call
 <p>Data</p>	<ul style="list-style-type: none"> • No light – no IP address assigned (check SIM settings) • Blue – data available, device added to 2N® Elevator Center account, SIP registered • Blue 0.25 s, pause 2.5 s – IP address assigned, data unavailable (check device APN settings or provider’s data availability)


	<ul style="list-style-type: none"> • Blue 0.5 s/0.5 s – data available, 2N® Elevator Center disabled or device not added to EC account, SIP not registered
	<ul style="list-style-type: none"> • Blue twice in 2.75 s (0.25 s/0.25 s, pause 2 s) – data available, device added to 2N® Elevator Center account, SIP registration in progress, but SIP not registered (check SIP settings)
	<ul style="list-style-type: none"> • Yellow – data available, device added to 2N® Elevator Center account, SIP not registered
	<ul style="list-style-type: none"> • Green – data available, 2N® Elevator Center disabled or device not added to 2N® Elevator Center account, SIP registered
	<ul style="list-style-type: none"> • Green twice in 2.75 s (0.25 s/0.25 s) – data available, 2N® Elevator Center disabled or device not added to 2N® Elevator Center account, SIP registration in progress, but SIP not registered (check SIP settings)
 <p>Signal</p>	<p>Indication of signal strength (LED count) and used technology (first LED color)</p> <ul style="list-style-type: none"> • Yellow – 2G • Green – 3G • Blue – 4 G
	<ul style="list-style-type: none"> • The signal LED indicators  also indicate such action statuses as: <ul style="list-style-type: none"> • factory reset • restart • firmware upgrade • the other statuses have not been implemented yet (4-7)

2.6 RESET Button Function

The RESET button located on the **2N® EasyGate IP** bottom side is used for factory default reset or restart of the device.

Factory Default Reset

To reset the factory default values, press and hold the RESET button for approximately 20 seconds until the separate red LED indicator in position 1 among the signal LEDs goes on.

 Now release the RESET button to reset the factory default values. While the RESET button is being pressed, the blue power LED indicator is on.

Restart

To HW restart the device, press the RESET button shortly. The HW restart is indicated by a white power LED.


3. Phone Line Tones – Operational Tones

2N® EasyGate IP sends tones to the phone line that indicate its operational status. Refer to the list below for behavior at factory default values. The tone frequency is 425 Hz.

Dial tone

- continuous tone or as configured

Ring tone

- 
- the called user is alerted
- this tone generated by the network

Busy tone

-  or as configured

Transmitted in any of the following cases:

- the called user is busy
- the called user has hung up (call clearing)

4. Web Interface Login

There are two login options for **2N® EasyGate IP**, refer to the subsections below:

- [4.1. 2N® Elevator Center](#)
- [4.2 2N® EasyGate IP – Web Configuration Utility](#)

4.1. 2N® Elevator Center

2N® Elevator Center, a licensed cloud service, is used for **2N® EasyGate IP** remote management and web interface access. Contact your 2N distributor for the service access data.

4.2 2N® EasyGate IP – Web Configuration Utility

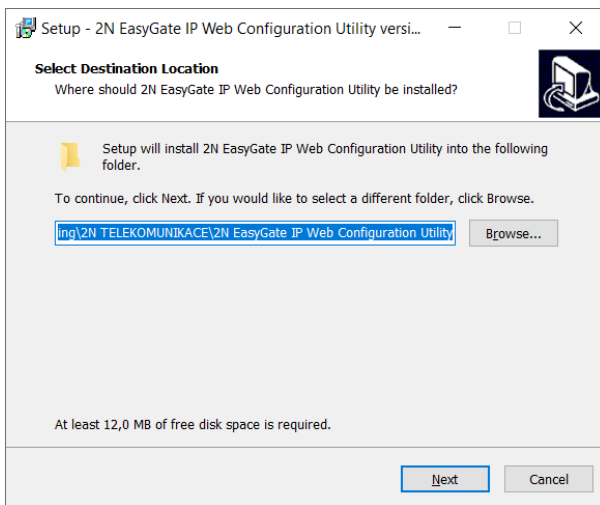
To configure **2N® EasyGate IP** without the **2N® Elevator Center** cloud service, connect the device to a PC via a USB cable using the **2N® EasyGate – Web Configuration Utility**, available for free download at 2n.com. **2N® EasyGate IP – Web Configuration Utility** is used for automatic opening of the **2N® EasyGate IP** web configuration page, which is connected via a local USB port.

Caution

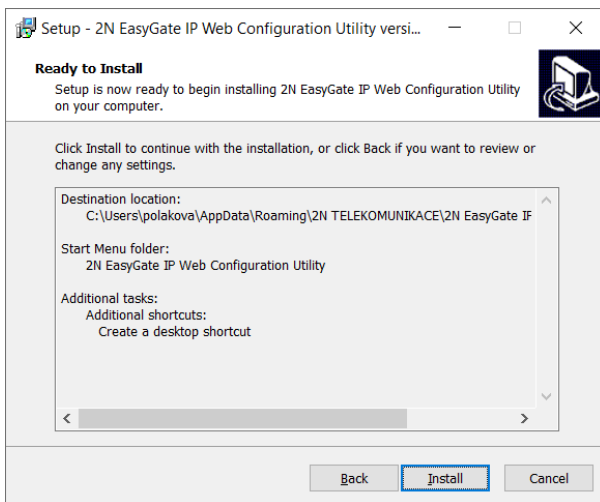
- Just a single active USB connection is supported. If multiple devices are connected, keep just one **2N® EasyGate IP** connected.

Installation

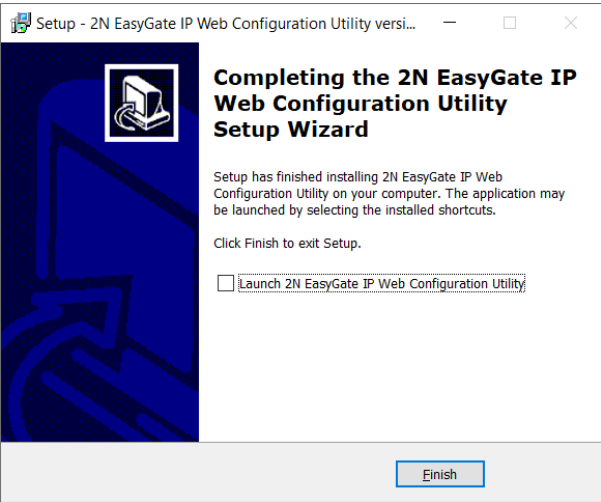
- Double click to start the 2N_EasyGate_IP_Web_Configuration_Utility_Setup (.exe) file.



- Select the target folder for the utility installation.
- Select Start Menu (optional).
- Select other available tasks – create a shortcut icon (optional).



- Confirm the installation.

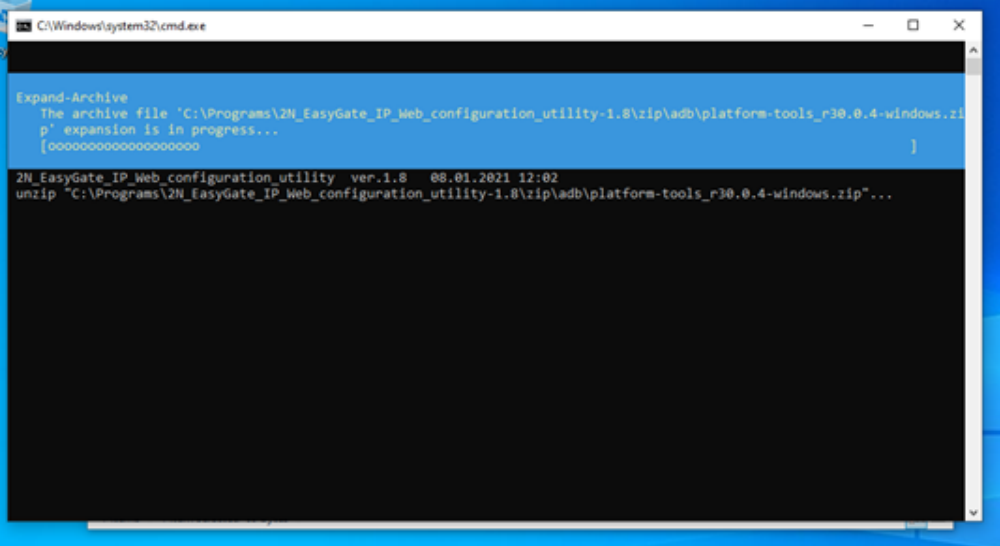


- Click Finish to complete the installation.

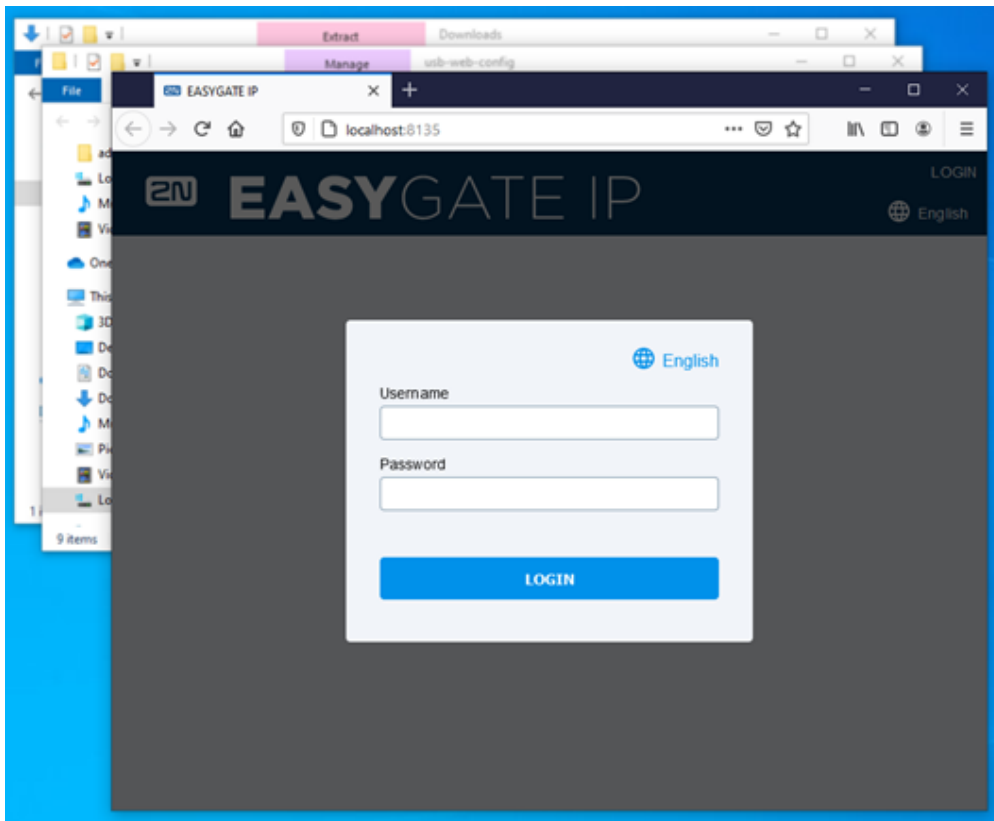
Use

- Connect the adapter to **2N® EasyGate IP**.
- Turn on **2N® EasyGate IP**.
- Connect **2N® EasyGate IP** to a PC using a USB (USB-A / USB-C) cable.
- Open the installed application 2N EasyGate IP Web Configuration Utility.

The required adb tools are extracted in the first run:



If **2N® EasyGate IP** is already connected via USB, its web page will be displayed automatically:



If **2N® EasyGate IP** is disconnected at this moment, nothing will happen. To reopen the configuration web page after USB reconnection or **2N® EasyGate IP** restart, for example, execute the run.cmd file again.

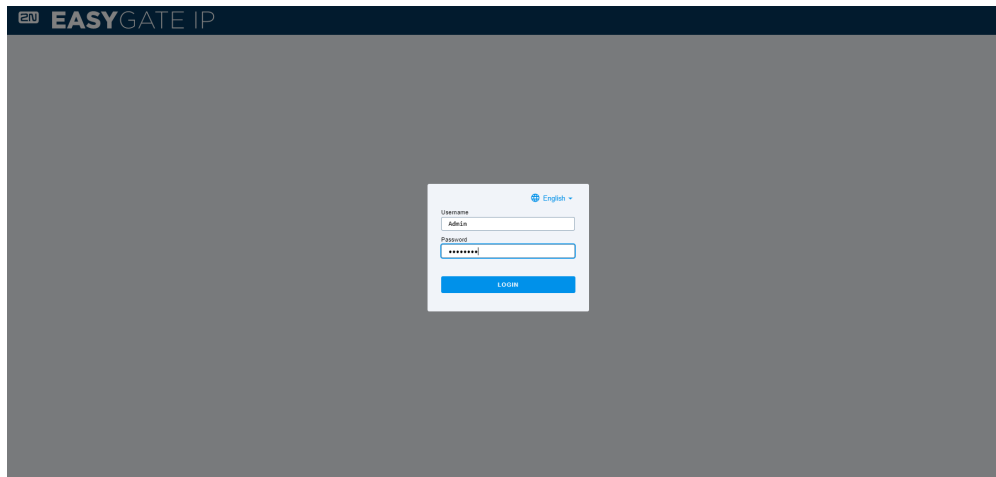
For the first login, enter **Admin** (or **admin**) as the user name and **2n** as the password. You will be prompted to change the default password upon your web interface login to be able to edit configuration.

⚠ Password Change

- Make sure that your password has 8 characters at least including one lower-case letter, one upper-case letter and one digit.

5. Configuration

The following subsections describe the programmable parameters and functions of **2N® EasyGate IP**. Every configuration change requires saving or device restart. The fields with invalid values are marked red. Changes with invalid values cannot be saved. No change will be set without saving.



- 5.1 Status
 - 5.1.1 LED
- 5.2 Network / SIM1
 - 5.2.1 SIM2
 - 5.2.2 VoLTE
 - 5.2.3 WWAN
 - 5.2.3.1 Data Connection
 - 5.2.3.2 Backup
 - 5.2.3.3 Ping
 - 5.2.3.3.1 Primary
 - 5.2.3.3.2 Backup
- 5.3 My2N / Basic Settings
 - 5.3.1 2N® My2N Security
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 - 5.9.5 Logs
- 5.10 Tester / I/O
 - 5.10.1 LED
 - 5.10.2 Test Call

5.1 Status

The Status folder is also used as the home page after the **2N® EasyGate IP** web interface login. There is a list of 8 configurable sections to the left. Page refresh, language/password change and web interface logout can be found in the right-hand upper corner.

Status	
Firmware version	1.1.0.1.36
UTC	13.04.2021 12:54:55
Uptime	0d 0:08:41
Network name	T-Mobile CZ T-Mobile CZ
Data	Connected
My2N	Ready
SIP	registered
Battery status	Charging

The **Status** menu clearly shows all current information on the device.

- **Firmware version** – gives the firmware version uploaded to the device.
- **UTC** – current time for the installation site.
- **Uptime** – device operation time.
- **Network name** – active SIM card provider's network name.
- **Data** – information on data connection availability (connected, disconnected, SIM error).

Caution

- Data Connected can be displayed in some mobile providers even in case the APN field is not completed and the Internet does not work.
- In case the APN is completed incorrectly, Data Disconnected will be displayed and **2N® EasyGate IP** will be restarted automatically in aprox. 5 minutes.

- **My2N** – information on My2N connection.
- **SIP** – information on SIP connection.
- **Battery status** – battery status.

i **SIM Error**

- SIM Error is displayed whenever a SIM card is not inserted properly or the inserted SIM card requires a PIN code. If the data status reports disconnected, it probably means that the SIM card data credit has been exhausted.

- [5.1.1 LED](#)

5.1.1 LED

The LED menu informs about the status of the device LED indicators and is used for remote control where the device cannot be checked physically. Refer to [2.5 Overview of LED Indicators](#) for LED indicator details.

Status / LEDs	
Power	Adapter powered
Network	Connected
Line	Onhook
Data	SIP registered
Signal	4

- **Power** – information on the device power supply.
- **Network** – information on the network status.
- **Line** – information on the line status (active call or ringing, hung up, rejected).
- **Data** – information on the network connection status and data transmission rate.
- **Signal** – information on the signal intensity level (1–4).

5.2 Network / SIM1

This folder helps you set the SIM card inserted in SIM1, activate the card and set the Provider APN parameter. SIM1 is used for the primary SIM card.

Network / SIM1

SIM slot: enable

APN: internet.t-mobile.cz
Max length: 63 chars

Authentication type: 0

Username:
Max length: 63 chars

Password:
Max length: 63 chars

SAVE CHANGES

- **SIM slot** – enable/disable the SIM card function.
- **APN** – parameter for Internet access setting. Check the correct **APN** value for the setting at your provider's.
- **Authentication type** – network authentication type.
- **Username** – username for data connection.
- **Password** – password for data connection.

⚠ Caution

- Data cannot be connected to the device unless the correct APN value is added.

- [5.2.1 SIM2](#)
- [5.2.2 VoLTE](#)
- [5.2.3 WWAN](#)

5.2.1 SIM2

The secondary SIM2 slot is used as the primary SIM1 backup at signal loss. When the SIM1 signal deteriorates or gets lost for more than 180 s (default value), all calls will be automatically forwarded via the SIM2 backup if available. Refer to [5.2.3.2 Network / WWAN / Backup](#) for parameter details.

Network / SIM2

SIM slot

APN
Max length: 63 chars

Authentication type

Username
Max length: 63 chars

Password ⊕
Max length: 63 chars

- **SIM slot** – enable/disable the SIM card function.
- **APN** – parameter for Internet access setting. Check the correct **APN** value for the setting at your provider's.
- **Authentication type** – network authentication type.
- **Username** – username for data connection.
- **Password** – password for data connection.

⚠ Caution

- For automatic SIM2 switch and backup, remember to enable the SIM slot function for SIM2 and enable the backup service in the Network / WWAN / Backup menu in [5.2.3.2](#).
- Data cannot be connected to the device unless the correct APN value is added.

5.2.2 VoLTE

The VoLTE folder helps you set the VoLTE service, which is used for forwarding calls via the VoLTE network. Make sure that this function is supported by your provider.

Network / VoLTE

IMS	Enabled ▾
<hr/>	
IMS state	Not Ready
<hr/>	
Automatic MBN selection	Enabled ▾
<hr/>	
MBN profile name	ROW_Generic_3GPP
<hr/>	
Internal MBN database	Yes ▾
<hr/>	
MBN file	Vybrat soubor Soubor nevybrán

- **IMS** – enable/disable call forwarding via LTE to the device.
- **IMS state** – display the LTE call forwarding status.
- **Automatic MBN selection** – enable the automatic setting of the provider’s profile. The profile list is displayed in the logo upon startup.
- **MBN profile name** – set the provider’s profile name for the VoLTE function.
- **Internal MBN database** – allow the use of the 2N database for profile update.
- **MBN file** – multi boot binary firmware, it is necessary to upload the MBN file supplied by the provider for the provider network identification.

⚠ Caution

- It is necessary to upload the MBN firmware supplied by your provider to **2N® EasyGate IP** to make LTE call forwarding work.

5.2.3 WWAN

WWAN or Wireless Wide Area Network is a wireless broadband network. The WWAN network uses the network infrastructure of mobile providers for providing users with wireless connections in large areas. This folder helps you select the provider network technology via which calls are to be forwarded and enable/disable data connection. The folder displays information on their currently active SIM cards.

Network / WWAN

MCC + MNC
Country Code + Provider Network Code

IMSI

ICCID

Network Selection

Network Technology

Network Signal dBm

Signal Quality

Network State

Active SIM Slot

SIM State

Turn on data

Data Connection

- **MCC + MNC** – country code and provider network code.

- **IMSI** – IMSI assigned to the SIM card by the mobile provider.
- **ICCID** – SIM card serial number.
- **Network Selection** – select the required network technology.
- **Network Technology** – currently used network technology.
- **Network Signal** – network signal strength.
- **Signal Quality** – will be implemented in the future.
- **Network State** – current provider network connection status.
- **Active SIM Slot** – display the slot in which the SIM card is inserted that allows for the current calling function.
- **SIM State** – active SIM card status.
- **Turn on data** – enable/disable the mobile provider's data.
- **Data Connection** – display the current data connection status.
- [5.2.3.1 Data Connection](#)
- [5.2.3.2 Backup](#)
- [5.2.3.3 Ping](#)

5.2.3.1 Data Connection

The Data Connection folder displays information and data on WWAN connection and helps you add the preferred primary and secondary DNS (Domain Name System).

Network / WWAN / Data Connection

Turn on data	<input type="text" value="Yes"/>
Data Connection	<input type="text" value="Connected"/>
IP	<input type="text" value="100.90.6.180"/>
Network Gateway	<input type="text" value="100.90.6.181"/>
Preferred DNS1	<input type="text"/>
Preferred DNS2	<input type="text"/>
DNS1	<input type="text" value="62.141.16.161"/>
DNS2	<input type="text" value="62.141.16.177"/>
TX Packets	<input type="text" value="1209"/>
RX Packets	<input type="text" value="961"/>
TX Dropped Packets	<input type="text" value="0"/>
RX Dropped Packets	<input type="text" value="0"/>
TX Bytes	<input type="text" value="263855"/>
RX Bytes	<input type="text" value="132955"/>

- **Turn on data** – enable/disable data connection.
- **Data Connection** – display the current data connection status.
- **IP** – current IP address.
- **Network Gateway** – network gateway address.
- **Preferred DNS1** – complete the preferred DNS1 IP address. If no preferred DNS1 is completed, DNS1 supplied by the provider will be used.
- **Preferred DNS2** – complete the preferred DNS2 IP address. If no preferred DNS2 is completed, DNS2 supplied by the provider will be used.
- **DNS1** – DNS address supplied by the provider.
- **DNS2** – DNS address supplied by the provider.
- **TX Packets** – count of transmitted packets.
- **RX Packets** – count of received packets.
- **TX Dropped Packets** – count of packets lost (corrupted) during transmission.
- **RX Dropped Packets** – count of packets lost (corrupted) during reception.
- **TX Bytes** – exact consumption of sent data in bytes.
- **RX Bytes** – exact consumption of received data in bytes.

5.2.3.2 Backup

The Backup folder helps you set a backup for the primary SIM1 card if the signal deteriorates or gets lost for more than 180 s (default value). In case the signal value drops below the required signal low, all the calls will be automatically forwarded via the backup SIM2 if available.

Network / WWAN / Backup

Allow Service	<input type="text" value="Yes"/>	
Network Name	<input type="text" value="T-Mobile CZ T-Mobile CZ"/>	
Active SIM Slot	<input type="text" value="1"/>	
Signal (SIM1)	<input type="text" value="-83"/>	dBm
Signal (SIM2)	<input type="text" value="-120"/>	dBm
Min Required Signal	<input type="text" value="-80"/>	dBm
Time Limit	<input type="text" value="1440"/>	min
Switch Repetition	<input type="text" value="1440"/>	min
Switch Delay	<input type="text" value="180"/>	s

- **Allow Service** – enable/disable the primary SIM card backup function in the case of a poor or lost signal.
- **Network Name** – active SIM card provider's network name.
- **Active SIM Slot** – display the slot in which the SIM card is inserted that allows for the current calling function.
- **Signal (SIM1)** – information on the SIM1 signal strength.
- **Signal (SIM2)** – information on the SIM2 signal strength.
- **Min Required Signal** – set the minimum value required for the signal strength. In case the signal value drops below the required signal low, the backup SIM2 will be switched on.

- **Time Limit** – set the period of time during which the SIM2 backup connection shall be used.
- **Switch Repetition** – set a timeout following the last SIM2 / SIM1 switch after which it is permitted to switch to the SIM2 backup in case the SIM1 signal is insufficient. This parameter prevents frequent switching of the SIM cards.
- **Swicth Delay** – set a timeout for the deteriorated or lost signal after which the SIM2 backup shall be switched on.

Note

- As set by default, if the secondary SIM2 card connection values are better than those of the primary SIM1, **2N® EasyGate IP** will stay in connection with the secondary SIM2 for 24 hours until it tries to reconnect with the primary SIM1 card again. If the secondary SIM2 card connection values are equal to or worse than those of the primary SIM1 card, **2N® EasyGate IP** will return to the provider’s mobile network from the primary SIM1 card. The next connection quality check will take place in 24 hours.

5.2.3.3 Ping

The Ping folder is the basic diagnostic element helping you test the TCP/IP network functions. Ping sends a query to the specified IP address / domain and waits for a response.

Network / WWAN / Ping

Enable

Transmission Period ms

Reception Time Limit ms

Time to reboot min

Unknown Frames

SAVE CHANGES

- **Enable** – enable / disable the ping function.

- **Transmission Period** – set the ping query transmission period in ms.
- **Reception Time Limit** – set the reception timeout for responses to ping queries.
- **Time to reboot** – set the device reboot timeout.
- **Unknown Frames** – count of unknown frames captured.
- [5.2.3.3.1 Primary](#)
- [5.2.3.3.2 Backup](#)

5.2.3.3.1 Primary

The Primary folder sets the primary ping server and shows the list of sent queries and received responses.

Network / WWAN / Ping / Primary

ICMP Echo Server	<input type="text"/>	
Min Latency	<input type="text" value="0"/>	ms
Average Delay	<input type="text" value="0"/>	ms
Max Latency	<input type="text" value="0"/>	ms
Lost Frames	<input type="text" value="0"/>	
TX Frames	<input type="text" value="0"/>	
RX Frames	<input type="text" value="0"/>	

- **ICMP Echo Server** – primary ping server address.
- **Min Latency** – minimum time delay for returned responses.
- **Average Delay** – average time delay for returned responses.
- **Max Latency** – maximum time delay for returned responses.
- **Lost Frames** – count of frames that have not reached **2N® EasyGate IP**. The responses that fail to meet the time limit are written as **late** in the device log.
- **TX Frames** – count of ping queries sent.
- **RX Frames** – count of responses received.

5.2.3.3.2 Backup

The Backup folder sets the backup ping server and shows the list of sent queries and received responses if the primary server is inaccessible.

The screenshot shows a configuration page titled "Network / WWAN / Ping / Backup". It contains several input fields:

- ICMP Echo Server: An empty text input field.
- Min Latency: A numeric input field with "0" and "ms" next to it.
- Average Latency: A numeric input field with "0" and "ms" next to it.
- Max Latency: A numeric input field with "0" and "ms" next to it.
- Lost Frames: A numeric input field with "0".
- TX Frames: A numeric input field with "0".
- RX Frames: A numeric input field with "0".

A blue button labeled "SAVE CHANGES" is located at the bottom right of the form.

- **ICMP Echo Server** – backup ping server address.
- **Min Latency** – minimum time delay for returned responses.
- **Average Delay** – average time delay for returned responses.
- **Max Latency** – maximum time delay for returned responses.
- **Lost Frames** – count of frames that have not reached **2N® EasyGate IP**. The responses that fail to meet the time limit are written as **late** in the device log.
- **TX Frames** – count of ping queries sent.
- **RX Frames** – count of responses received.

5.3 My2N / Basic Settings

The 2N® My2N / Basic Settings folder informs of the connection to the My2N cloud service, administering **2N® Elevator Center** for bulk management of the **2N® EasyGate IP** devices.

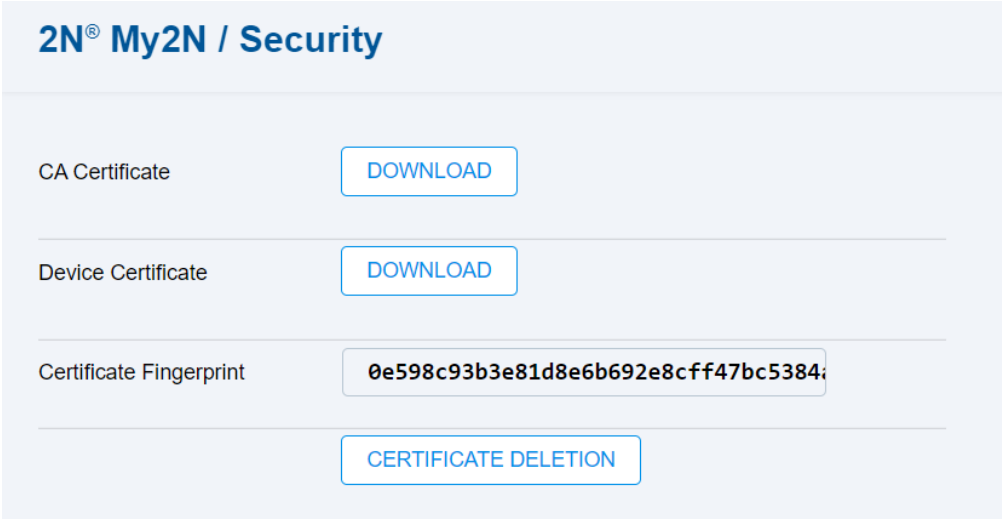
2N® My2N / Basic Settings

Service	<input type="text" value="Enabled"/>
State	<input type="text" value="Stopped"/>
Device Identifier	<input type="text" value="af6731ac-d807-4af3-91fb-523bf1fdaf"/>
Device Type	<input type="text" value="5.2.0.0"/>
Tunnel Server	<input type="text" value="tribble.my2n.com"/>
Tunnel Port	<input type="text" value="443"/>
Certification Server	<input type="text" value="knock.my2n.com"/>
Certification Port	<input type="text" value="443"/>
Extended Protocol	<input type="text" value="No"/>

- **Service** – enable/disable device management using **2N® Elevator Center** via 2N® My2N.
- **State** – 2N® My2N cloud service connection status.
- **Device Identifier** – identifier assigned to the Company created in 2N® My2N.
- **Device Type** – **2N® EasyGate IP** type in the 2N® My2N internal database.
- **Tunnel Server** – tribble tunnel URL for 2N® My2N connection.
- **Tunnel Port** – tribble tunnel port.
- **Certification Server** – address of the knocker that is used for **2N® Elevator Center** connection via 2N® My2N.
- **Certification port** – certification port number.
- **Extended Protocol** – details in the logo on the device communication with **2N® Elevator Center** via 2N® My2N.
- [5.3.1 2N® My2N Security](#)

5.3.1 2N® My2N Security

The 2N® My2N Security folder helps you download certificates for secure communication between **2N® EasyGate IP** and 2N® My2N providing the **2N® Elevator Center** service.



- **CA certificate** – download the 2N® My2N CA certificate.
- **Device certificate** – download the device certificate.
- **Certificate fingerprint** – device certificate identifier stored in the 2N® My2N database.
 - **Certificate deletion** – remove the SIP certificate from **2N® EasyGate IP**. To re-upload a device certificate identifier, remove the device first and then add it in the 2N® My2N device list.

5.4 SIP / Basic Setup

The SIP / Basic Setup folder helps you set all the required SIP credentials including the secure SIP certificates.

Allow the SIP service and save the settings. Complete the phone number and authorization ID if different from the phone number. Enter the password paying attention to the lower/upper case. Complete the SIP server address.

This is the way to SIP registration. Check the SIP status on this folder or the Status folder, where general information on the device is displayed.

SIP / Basic Settings

Service	<input type="text" value="Enabled"/>
State	<input type="text" value="Registered"/>
Phone Number	<input type="text" value="1506584670"/>
Authorization ID	<input type="text" value="1506584670"/>
Password	<input type="password" value="••••••••"/>
Server	<input type="text" value="proxy-5.my2n.com"/>
Server Port	<input type="text" value="5060"/>
Local Port	<input type="text" value="0"/>
Registration Permission	<input type="text" value="Enabled"/>
Registration Validity	<input type="text" value="120"/> s
Transport Type	<input type="text" value="UDP"/>

- **Service** – enable/disable SIP calls.
- **State** – SIP status.
- **Phone Number** – complete the phone number to identify the device uniquely for calls.
- **Authorization ID** – ID to identify the device uniquely.
- **Password** – set the registration password.
- **Server** – set the SIP Proxy server URL.
- **Server Port** – set the server port. Value 0 is used for automatic selection for connection with the other party.
- **Local Port** – set the local port. Value 0 is used for automatic selection for connection with the other party.
- **Registration Permission** – enable/disable registration by SIP calls.
- **Registration Validity** – set the re-registration timeout.
- **Transport type** – select the SIP signaling method:
 - **UDP** – the most frequently used insecure signaling protocol.
 - **TLS** – secure protocol where SIP calls are secured against tapping and third party modifications.
- [5.4.1 SIP Security](#)
- [5.4.2 Others](#)

5.4.1 SIP Security

The SIP Security folder helps you download security certificates for SIP calls using the TLS protocol.

SIP / SIP Security

CA Certificate

Device Certificate

Certificate Fingerprint

Common Name (CN)

PKI State

Device CSR

New CA Certificate

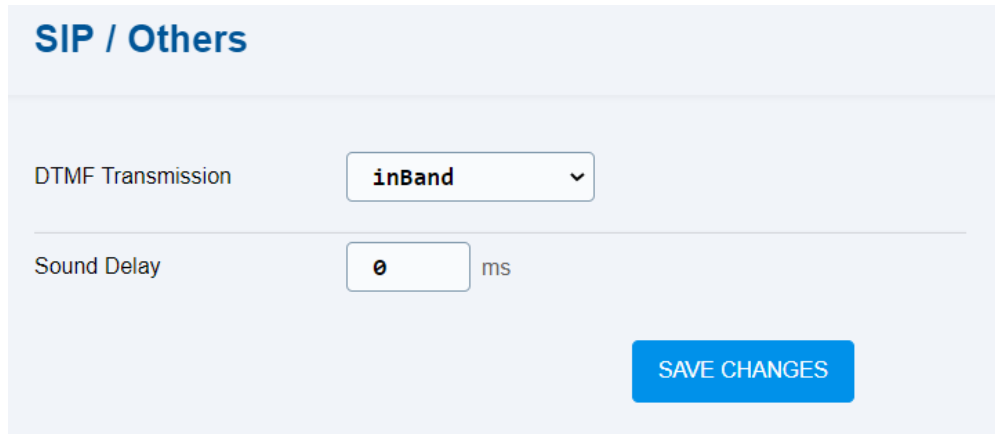
New Device Certificate

- **CA Certificate** – download the CA certificate.
- **Device Certificate** – download the device certificate.
- **Certificate Fingerprint** – device certificate identifier.
 - **CSR GENERATOR** – generate the CSR public key.
 - **DELETE CERTIFICATE** – delete the CSR public key generated.
- **Common Name (CN)** – add the name for software identification.
- **PKI State** – CSR public key generator status.

- **Device CSR** – download the public key from a CSR device.
- **New CA Certificate** – upload a new CA certificate.
- **New Device Certificate** – upload a new device certificate.

5.4.2 Others

The SIP miscellaneous folder helps you set other tone dialing properties.



SIP / Others

DTMF Transmission

Sound Delay ms

[SAVE CHANGES](#)

- **DTMF transmission** – set the DTMF transmission method:
 - inBand
 - RTP DTMF
 - info (RFC(2976))
- **Auto delay** – set the sound delay timeout in ms in the range of 0 to 2000 ms. Used for DTMF suppression in the voice channel. The minimum DTMF suppression timeout is 1 ms. By setting the time value to 0 ms, you disable the sound delay function.

5.5 NTP

The NTP folder helps you set the NTP server, which is used for time synchronization by **2N® EasyGate IP**. By default, the NTP server is enabled and time is synchronized according to the set IP addresses, which can be changed. If you disable the NTP server time synchronization, **2N® EasyGate IP** will get time from the active SIM card provider.

NTP

Service: enable

Server 1: time.google.com (Max length: 63 chars)

Server 2: pool.ntp.org (Max length: 63 chars)

Server 3: time.nist.gov (Max length: 63 chars)

SAVE CHANGES

- **Service** – enable/disable time synchronization from the NTP server.
- **Server 1** – complete URL for the selected primary NTP server.
- **Server 2** – complete URL for the backup NTP server in case Server 1 is unavailable.
- **Server 3** – complete URL for the backup NTP server in case Server 1 and 2 are unavailable.

5.6 SMS / Setting

The SMS / Setting folder helps you enable and generally set the SMS sending function.

SMS / Setting

Turn on

Device Identification

Event Recipient Phone Number

Initial Password

Time Limit (DEF & RST) min

INF Message Period min

INF Message Format

- **Turn on** – enable/disable the SMS sending function.
- **Device Identification** – set the device ID for SMS.
- **Event Recipient Phone Number** – set the phone number to which an SMS will be sent after an event.
- **Initial Password** – set the initial password according to the selected parameter.
- **Time Limit (DEF & RST)** – set the timeout after which commands can be resent after the device restart.
- **INFO Message Period** – set the info SMS sending period in minutes.
- **INFO Message Format** – define the INF command reply format by setting space-separated numeric identifiers for the requested parameters. Refer to [5.6.1.1 List of Parameters](#) for the identifier list.

Caution

- The initial password can only be changed using an SMS command, refer to [5.6.1 Commands](#).

- [5.6.1 Commands](#)
- [5.6.2 Events](#)
- [5.6.3 Digital Input](#)
- [5.6.4 LIFT1](#)

5.6.1 Commands

The Commands folder helps you send commands via SMS.

SMS / Commands

Information Reading (INF)	<input type="button" value="Yes"/> ▾
Parameter Reading (GET)	<input type="button" value="Yes"/> ▾
Parameter Change (SET)	<input type="button" value="Yes"/> ▾
Password Change (PWD)	<input type="button" value="Yes"/> ▾
Factory Defaults (DEF)	<input type="button" value="Yes"/> ▾
Restart (RST)	<input type="button" value="Yes"/> ▾

- **Information Reading (INF)** – command to send an SMS including basic information (signal, used mobile network technology, provider code and name, battery status).
- **Parameter Reading (GET)** – command to send an SMS including information on selected parameters.
- **Parameter Change (SET)** – command to change parameters in the setting.
- **Password Change (PWD)** – command to change the device password.
- **Factory Defaults (DEF)** – command to reset the device factory defaults.
- **Restart (RST)** – command to restart the device.

SMS Command	SMS Format	Note
Read information (INF)	EG INF password	<p>The reply includes such information as the device serial number, FW version, IMEI and IMSI, roaming status, signal strength, network supply status, battery status and remaining battery time.</p> <p>Set the reply contents using the INF message format parameter.</p> <p>In case 2 SIM cards are used in the device, the SMS reply includes two IMSIs and information related to the active SIM card only.</p>
Read parameters (GET)	EG GET password	<p>E.g.: EG GET password 150 swg_enable sim1_pin</p> <p>(Send the command to get information on the My2N settings, SMS function on the device and SIM 1 PIN code.)</p>
Change parameters (SET)	EG SET password numeric or text identifier=new value	<p>This command helps you change the parameter values; configurable parameters must be assigned numbers.</p> <p>If set as a text, a parameter must be closed in parentheses.</p> <p>E.g.: EG SET password 150=1 sgw_period=60 sim1=1234 243=(internet.t-mobile.cz)</p> <p>(Send the command to set the My2N service enable, set the INF message period to 60 minutes, change of SIM 1 PIN code to 1234 and set the APN.)</p>
Change password (PWD)	EG PWD password_old password_new	<p>E.g.: EG PWD amethyst_old amber_new</p> <p>The new password will be set as amber.</p>
Set factory defaults (DEF)	EG DEF password	<p>E.g.: EG DEF amber</p> <p>Send the command to reset the factory defaults, which is followed by the device restart.</p>

SMS Command	SMS Format	Note
Restart device (RST)	EG RST password	E.g.: EG RST amber The device will be restarted.
Command Feedback		
EG SET OK	Setting ok	
EG ERR Unknown Command	A command other than SET, GET, DEF, RST, INF has been used	
EG ERR Password	Invalid password	
EG ERR Invalid Parameters	Invalid parameter in command	
EG ERR invalid Syntax	Invalid characters (spaces, equal signs, etc.)	

Caution

- The commands are only valid if typed in capital letters.
- One type of command can only be sent via SMS.
- For the GET and SET commands, multiple parameters can be used at the same time separated with spaces. The parameters are set by a numeric or text identifier and can be combined. We recommend that you use numerical identifiers, as they contain fewer characters.
- The maximum SMS length is 140–160 characters. If a setting out of the allowed value range is requested or there is another error in the message, no setting will be made for any parameter.

Tip

- Refer to Subs. [5.6.1.1](#) for the parameter list including identifiers.

5.6.1.1 List of Parameters

The table below provides a list of all available parameters including their numeric and text identifiers that are used for device configuration via SMS commands.

Parameter List					
Numeric Identifier	Text Identifier	Min	Max	Value	Value Description
155	my2n_crt_port				
153	my2n_crt_server				
163	my2n_crt_sha1				
156	my2n_debug			0	false
				1	true
158	my2n_device_type				
150	my2n_enable			0	false
				1	true
151	my2n_id				
165	my2n_pki_delete				
164	my2n_pki_init				
166	my2n_pki_state			0	ready
				1	error
				2	csr
				3	csr_ready
167	my2n_pki_wait				
157	my2n_state			0	INIT
				1	STOPPED
				2	ERROR
				3	READY
				4	UNCONFIGURED

Parameter List					
Numeric Identifier	Text Identifier	Min	Max	Value	Value Description
				5	CRT_STARTED
				6	CRT_FAILED
				7	TUN_STARTED
				8	TUN_FAILED
154	my2n_tun_port				
152	my2n_tun_server				
144	sgw_allow_def			0	false
				1	true
141	sgw_allow_get			0	false
				1	true
140	sgw_allow_inf			0	false
				1	true
143	sgw_allow_pwd			0	false
				1	true
145	sgw_allow_rst			0	false
				1	true
142	sgw_allow_set			0	false
				1	true
100	sgw_enable			0	false
				1	true
120	sgw_event_power			0	false

Parameter List					
Numeric Identifier	Text Identifier	Min	Max	Value	Value Description
				1	true
123	sgw_event_slot			0	false
				1	true
122	sgw_event_start			0	false
				1	true
121	sgw_event_supervisor			0	false
				1	true
101	sgw_ident				
106	sgw_info_format				
105	sgw_info_period	0	10080		
151	sgw_input_threshold	100	10000		
152	sgw_input_timeout	1	86400		
150	sgw_input_trigger			0	OFF
				1	POS
				2	NEG
				3	BOTH
102	sgw_phone				
103	sgw_pwd			0	SC
				1	SN
				2	IMSI
				3	ICCID

Parameter List					
Numeric Identifier	Text Identifier	Min	Max	Value	Value Description
				4	IMEI
104	sgw_time_limit	0	1440		
224	sim1_apn_auth_type				
223	sim1_apn_name				
226	sim1_apn_password				
225	sim1_apn_username				
220	sim1_enable			0	false
				1	true
222	sim1_pin				
221	sim1_roaming	0	2		
244	sim2_apn_auth_type				
243	sim2_apn_name				
246	sim2_apn_password				
245	sim2_apn_username				
240	sim2_enable			0	false
				1	true
242	sim2_pin				
241	sim2_roaming	0	2		
205	wwan_data_dns1				
206	wwan_data_dns2				
200	wwan_data_enable			0	false

Parameter List					
Numeric Identifier	Text Identifier	Min	Max	Value	Value Description
				1	true
204	wwan_data_gw				
203	wwan_data_ip				
201	wwan_data_usr_dns1				
202	wwan_data_usr_dns2				

5.6.2 Events

The Events folder helps you enable sending SMS upon various events.

SMS / Events

Power Supply Changes ▾

SIM Change ▾

Supervisor Events ▾

Device Turn-On ▾

- **Power Supply CHanges** – enable sending an information SMS upon a power change.
- **SIM Change** – enable sending an information SMS upon a change of the active SIM card.
- **Supervisor Events** – enable sending an information SMS upon detection of a non-standard device system behavior.
- **Device Turn-On** – enable sending an information SMS upon device startup.

5.6.3 Digital Input

The Digital Input folder helps you set sending SMS upon detection of a change on a **2N® EasyGate IP** input.

The screenshot shows a configuration panel titled "SMS / Digital Input". It contains three rows of settings:

- Starting Mode:** A dropdown menu with "Both" selected.
- Activation Time:** A text input field containing "500" followed by "ms".
- Next Event Time:** A text input field containing "5" followed by "s".

A blue button labeled "SAVE CHANGES" is located at the bottom right of the panel.

- **Starting Mode** – select the digital input change mode that triggers SMS sending.
- **Activation Time** – set the digital input change timeout after which an SMS will be sent.
- **Next Event Time** – set the next SMS sending timeout for the next event.

The switches of the device connected to **2N® EasyGate IP** are connected using a 2-pin terminal marked INPUT.

The SMS informing of a change on the device input are sent to the event recipient's phone number.

5.6.4 LIFT1

The LIFT1 folder helps you enable and set programming of the connected **2N® Lift1** lift communicator using SMS. Having received an SMS with the programming request, **2N® EasyGate IP** establishes connection with **2N® Lift1** via a phone line and programs it using the CPC protocol.

SMS / LIFT1

Enable Service No ▾

Pre-Authorization Strong (via EGIP password) ▾

LIFT1 Password ••••• ⊕

[SAVE CHANGES](#)

- **Enable Service** – enable/disable 2N® Lift1 SMS programming.
- **Pre-Authorization** – set the EGIP or Lift1 password authorization before SMS request processing. The EGIP password matches the **2N® EasyGate IP** password (serial number / security code). The default LIFT1 password for pre-authorization is 12345.
- **LIFT1 Password** – use the password to change the LIFT1 pre-authorization password. The password can contain up to 19 digits. The password change will also be automatically written into *Lift1 password* in **Services / Battery status** and vice versa.

⚠ Caution

- We recommend that you use EGIP or LIFT1 password authorization, which is performed by **2N® EasyGate IP** itself. If no pre-authorization is required, authorization will be performed by 2N® Lift1 by line dial-in and short-time line occupation.

SMS Command	SMS Format	Note
Configuration (CNF)	L1 CNF PASSWORD	The example below programs 2N® Lift1 ALARM button memory 1 and 2 for the specified phone numbers. SMS format: L1 CNF 12345 011=00420222222222 012=0042011111111111 <ul style="list-style-type: none"> • The parameters must be separated with a space.
Factory default reset (DEF)	L1 DEF PASSWORD	

SMS Command	SMS Format	Note
Profile n selection (SET)	L1 SET PASSWORD N	<ul style="list-style-type: none"> N means the profile number
Feedbacks for Commands		
L1 CNF OK	Setting ok	
L1 DEF OK		
L1 SET OK		
L1 ERR Invalid Message	Prefix L1 invalid	
L1 ERR Unknown Command	Wrong command other than CNF, DEF, SET and RST	
L1 ERR Invalid Password	Invalid password	
L1 ERR Invalid Parameters	Invalid CNF and SET parameters	
L1 ERR Invalid Syntax	Invalid characters (spaces, equal signs, etc.)	
L1 ERR Does not Respond	<ul style="list-style-type: none"> 2N® Lift1 fails to hook off within 60s ringing timeout. 2N® Lift1 picks up but fails to respond to the CPC programming command. 2N® Lift1 hangs up during programming. 2N® Lift1 fails to respond to the communication commands. 	

⚠ Caution

- Multiple commands cannot be combined in a single SMS.
- The maximum SMS length is 140–160 characters; if a setting outside the value range is requested or an error occurs in the SMS, the setting change will not be performed.

5.7 Telephony / Dialing

The Telephony / Dialing folder helps you set the call dialing and outgoing call parameters.

Telephony / Dialing

Time to dial ms

Outgoing Calls ▼

[SAVE CHANGES](#)

- **Time to dial** – define the timeout for **2N® EasyGate IP** to wait for the next dialing.
- **Outgoing Calls** – set the outgoing call type:
 - **Barred** – outgoing calls are barred.
 - **SIP, voice** – combination of SIP and voice outgoing calls is allowed.
 - **Voice** – voice outgoing calls are only allowed.
 - **SIP** – SIP outgoing calls are only allowed.
- [5.7.1 Babycall](#)
- [5.7.2 Pulse Dialing](#)
- [5.7.3 Dial Tone](#)
- [5.7.4 Busy Tone](#)
- [5.7.5 Continuous Tone](#)
- [5.7.6 Ring](#)
- [5.7.7 Others](#)

5.7.1 Babycall

The Babycall folder helps you set automatic calls. If the Babycall function is enabled, a defined period of time is counted down after the phone off-hook (the default value is 5000 ms). Unless you start dialing by the end of this timeout, **2N® EasyGate IP** signals the dialing end and starts setting up a call to the predefined phone number – from this moment on, **2N® EasyGate IP** behaves as if dialing was terminated in a standard outgoing call. Any dialing during the Babycall timeout countdown cancels this function and a standard outgoing call is made.

Telephony / Babycall

Enable	<input type="text" value="no"/>
Time	<input type="text" value="5000"/> ms Range from 100 to 60000
Phone number	<input type="text"/> Max length: 31 chars

[SAVE CHANGES](#)

- **Enable** – enable/disable the Babycall function, automatic call without dialing.
- **Time** – set the time interval between the line off-hook and automatic call beginning.
- **Phone number** – define the phone number for the automatic call destination.

5.7.2 Pulse Dialing

The Pulse Dialing folder helps you set the pulse dialing parameters.

Telephony / Pulse Dialing

Delay between digits	<input type="text" value="100"/>	ms
Minimum Pulse Width	<input type="text" value="30"/>	ms
Maximum Pulse Width	<input type="text" value="60"/>	ms
Minimum Delay	<input type="text" value="10"/>	ms
Maximum Delay	<input type="text" value="80"/>	ms
Dialing Reset Timeout	<input type="text" value="300"/>	ms

[SAVE CHANGES](#)

- **Delay between digits** – set the time delay between the pulses. The default value is 100 ms.
- **Minimum pulse width** – set the time value for the minimum pulse width. The default value is 30 ms.
- **Maximum pulse width** – set the time value for the maximum pulse width. The default value is 60 ms.
- **Minimum delay** – set the time value for the minimum inter-pulse delay. The default value is 10 ms.
- **Maximum delay** – set the time value for the maximum inter-pulse delay. The default value is 80 ms.
- **Time to reset dial** – set the timeout value for dialing clearing. I.e. line clearing time that is considered on-hook and cancels the preceding dialing.

5.7.3 Dial Tone

The Dial Tone folder helps you set the dial tone parameters.

Telephony / Dial tone

Frequency 1 Hz
Range from 0 to 3500

Frequency 2 Hz
Range from 0 to 3500

Modulation

[SAVE CHANGES](#)

- **Frequency 1** – set the dial tone frequency. The default value is 452 kHz.
- **Frequency 2** – set the dial tone frequency.
- **Modulation** – set the dial tone modulation:
 - continuous
 - 320/320/640/640

5.7.4 Busy Tone

The Busy Tone folder helps you set the dial tone parameters.

Telephony / Busy tone

Frequency 1 Hz
Range from 0 to 3500

Frequency 2 Hz
Range from 0 to 3500

Modulation ms

[SAVE CHANGES](#)

- **Frequency 1** – set the busy tone frequency. The default value is 452 kHz.
- **Frequency 2** – set the busy tone frequency.
- **Modulation** – set the busy tone modulation:
 - 330/330
 - 200/200
 - 250/250
 - 375/375
 - 500/500

5.7.5 Continuous Tone

The Continuous Tone folder helps you set the continuous tone parameters.

Telephony / Continuous tone

Frequency 1 Hz
Range from 0 to 3500

Frequency 2 Hz
Range from 0 to 3500

[SAVE CHANGES](#)

- **Frequency 1** – set the continuous tone frequency. The default value is 452 kHz.
- **Frequency 2** – set the continuous tone frequency.

5.7.6 Ring

The Ring folder helps you set the ringtone parameters.

Telephony / Ring

Frequency Hz
Range from 10 to 60

Modulation ms

Voltage Vrms
Range from 35 to 60

[SAVE CHANGES](#)

- **Frequency** – set the ringing tone frequency. The default value is 50 Hz.
- **Modulation** – set the ringing tone modulation in ms:
 - 2000/4000
 - 1000/4000
 - 400/200/400/2000
 - 1500/3500
 - 2000/4000
- **Voltage** – set the ringing tone voltage. The default value is 42 Vrms.

5.7.7 Others

The Miscellaneous folder helps you set the other telephony parameters.

Telephony / Others

RX Gain	<input type="text" value="-2"/>	dB
TX Gain	<input type="text" value="-2"/>	dB
Line Impedance	<input type="text" value="270 ohm + 750 ohm 150 nF (EU)"/>	
Line current limit	<input type="text" value="20"/>	mA
Tone Volume	<input type="text" value="120"/>	mVrms
Enable AGC	<input type="text" value="Yes"/>	
DTMF Muting Time	<input type="text" value="2000"/>	ms
Calling Party Control	<input type="text" value="No"/>	

- **RX Gain** – set the receiving line gain. The default value is –2 dB.
- **TX Gain** – set the transmission line gain. The default value is –2 dB.
- **Line Impedance** – set the FXS line impedance.
- **Line current limit** – set a line current value ranging from 15–40 mA.
- **Tone Volume** – set the DTMF tone volume.
- **Enable AGC** – enable/disable Automatic Gain Control for the line signal.
- **DTMF mute time** – set the tone dialing mute time. Mute time is only supported for the RFC and SIP info types of DTMF.
- **Calling Party Control** – use the call end signaling by CPC (Calling Party Control), during which the line current is interrupted for a while.

5.8 Services / Signaling

The Signaling folder is used for battery check activation and **2N® EasyGate IP** connection to a mobile network.

Services / Signaling

Relay Function

Relay State

FXS Line Break Function

FXS Line Break State

SAVE CHANGES

- **Relay Function** – the relay is activated in the case of wireless network disconnection or battery failure.
- **Relay State** – state of the relay. The values are open/closed.
- **FXS Line Break Function** – the FXS line is disconnected in the case of wireless network disconnection or battery failure.
 - **disabled** – the FXS line is not disconnected in the case of power or wireless network failure.
 - **power failure** – the FXS line is disconnected (in approx. 3 s) in the case of battery failure.
 - **wireless network failure** – the FXS line is disconnected in the case of wireless network disconnection (in approx. 30 s).
 - **power or wireless network failure** – the FXS line is disconnected in the case of power or wireless network failure.

- **FXS Line Break State** – state of the relay. The values are active/inactive.
- [5.8.1 Modem to TCP](#)
- [5.8.2 Serial to TCP](#)
- [5.8.3 Battery Status Signaling](#)

5.8.1 Modem to TCP

The Modem to TCP folder helps you set data connection from a modem to a server using TCP.

Services / Modem to TCP

Service	<input type="text" value="Disabled"/>
TCP State	<input type="text" value="Inactive"/>
Dialed Number Prefix	<input type="text"/> <small>Max Length: 63 characters</small>
TCP Server Name	<input type="text"/>
TCP Server Port	<input type="text" value="0"/>
Idle Time	<input type="text" value="10"/> s
FIFO Queue Size	<input type="text" value="256"/> B
Transmission Debugging	<input type="text" value="No"/>

- **Service** – enable/ disable modem data connection using TCP.
- **TCP State** – display the current TCP state.
- **Dialed Number Prefix** – set the number prefix to be dialed.
- **TCP Server Name** – TCP server name.
- **TCP Server Port** – TCP server port.
- **Idle Time** – set the timeout after which the TCP server connection is terminated if no data is transmitted.
- **FIFO Queue Size** – set the queue size according to the FIFO rules (first in, first out).

- **Transmission Debugging** – enable data transmission to the log in both directions to monitor the whole modem – server communication.

5.8.2 Serial to TCP

The Serial to TCP folder helps you set data connection from RS232 to a server using TCP.

Services / Serial to TCP

Service	Disabled ▾
TCP State	Inactive
TCP Server Name	
TCP Server Port	0
Idle Time	10 s
FIFO Queue Size	256 B
Transmission Debugging	No ▾

SAVE CHANGES

- **Service** – enable / disable RS232 data connection using TCP.
- **TCP state** – display the current TCP state.
- **TCP Server Name** – TCP server name.
- **TCP Server Port** – TCP server port.
- **Idle Time** – set the timeout after which the TCP server connection is terminated if no data is transmitted.
- **FIFO Queue Size** – set the queue size according to the FIFO rules (first in, first out).
- **Transmission Debugging** – enable data transmission to the log in both directions to monitor the whole RS232 - server communication.

5.8.3 Battery Status Signaling

The Battery Status Signaling folder indicates any 2N® EasyGate IP battery error via 2N® Lift1, which reports the error to the surveillance center using an operational call.

Services / Battery Status Signaling

Enable Service

LIFT1 Password

- **Enable Service** – enable / disable the service.
- **LIFT1 Password** – change the LIFT1 pre-authorization password. The password can contain up to 19 digits. The password change will be automatically written into *Lift1 password* in **SMS / LIFT1** and vice versa.

Caution

- Make sure that at least one of the 081–086 parameters (operational call memory) is set and parameter 968 (**2N® EasyGate IP** battery reports) is enabled in 2N® Lift1 to make the service work properly.

5.9 Maintenance / Configuration

The Maintenance / Configuration folder helps you configure **2N® EasyGate IP** by file downloading, system and battery administration and acquiring system information.

Maintenance / Configuration

Default Values	<input type="text" value="generic-e"/>
Configuration Download	<input type="button" value="DOWNLOAD"/>
Configuration Upload	<input type="button" value="Vybrat soubor"/> <input type="text" value="Soubor nevybrán"/>
Save Counter	<input type="text" value="26"/>
	<input type="button" value="SAVE CONFIG"/>
	<input type="button" value="FACTORY RESET"/>

- **Default Values** – display the 2N® EasyGate IP type. E – Europe, US – America, AU – Australia.
 - **Configuration Download** – download the current device configuration file for backup if necessary.
 - **Configuration Upload** – upload the configuration file into the device.
 - **Save Counter** – count of configuration changes made.
 - **SAVE CONFIG** – save the downloaded configuration to the device.
 - **FACTORY RESET** – reset the device factory default values.
- [5.9.1 Firmware](#)
 - [5.9.2 Batteries](#)
 - [5.9.3 Temperature Monitor](#)
 - [5.9.4 System](#)
 - [5.9.5 Logs](#)

5.9.1 Firmware

The Firmware folder is used for 2N® EasyGate IP firmware administration.

Maintenance / Firmware

Firmware version	<input type="text" value="1.3.1.3.1"/>
Radio Firmware	<input type="text" value="1.0.0_E"/>
Date in GIT	<input type="text" value="Tue Dec 14 11:29:17 UTC 2021"/>
GIT hash	<input type="text" value="7cbab0c41155561503d6e833d77e8fb200"/>
Build Date	<input type="text" value="Tue Dec 14 11:53:20 UTC 2021"/>
License Agreement	<input type="button" value="OPEN"/>
Third Party Software Licenses	<input type="button" value="DISPLAY"/>
URL for download	<input type="text"/>
Upload file	<input type="button" value="Vybrat soubor"/> <input type="button" value="Soubor nevybrán"/>
Status	<input type="button" value="Ready"/>

- **Firmware version** – firmware version uploaded in the device.
- **Radio Firmware** – module firmware for certification purposes.
- **Date in GIT** – last change date of the current FW version.
- **GIT hash** – repository identifier for the FW version currently in use.
- **Build Date** – FW version creation date.
- **License Agreement** – End User License Agreement (EULA)
- **Third Party Software Licenses** – list of third party opensource libraries used in 2N® EasyGate IP.

- **URL for download** – complete URL for FW download.
- **Upload file** – select a file to be uploaded to the device.
- **Status** – state of the FW in the device.

5.9.2 Batteries

The Batteries folder helps you set the backup battery capacity and service life values.

Maintenance / Battery

Nominal Capacity	<input type="text" value="2100"/>	mAh
Actual Capacity	<input type="text" value="2100"/>	mAh
Installation Date	<input type="text" value="13.04.2021"/>	<small>🗓</small>
Battery Lifespan	<input type="text" value="730"/>	days
<hr/>		
Power Source	<input type="text" value="Adapter, Battery"/>	
Status	<input type="text" value="Charging"/>	
Voltage	<input type="text" value="5668"/>	mV
Charging Current	<input type="text" value="129"/>	mA
Charging up	<input type="text" value="12"/>	mAh
Replacement Time	<input type="text" value="730"/>	days

- **Nominal Capacity** – complete the nominal capacity value for the batteries.
- **Actual Capacity** – complete the real capacity value for the batteries.
- **Installation Date** – complete the back up battery installation date.
- **Battery Lifespan** – set the service lives for ther batteries. The default value is 730 days, i.e. 2 years.
- **Power Source** – information on the possible power supply.
- **Status** – current battery state.
- **Voltage** – current battery voltage.
- **Charging Current** – charging current value if the power supply adapter is used.

- **Charging up** – current consumption during operation of the device.
- **Replacement Time** – remaining time before battery replacement.

 **Caution**

- Only rechargeable batteries can be used. The package includes 4 NiMH type AA, 1.2 V / 2000 mAh batteries.

5.9.3 Temperature Monitor

The Temperature Monitor folder informs of the 2N® EasyGate IP temperature.

Maintenance / Temperature monitor

Enable

Temperature °C

State

Lower limit °C
Range from -20 to 10

Upper limit °C
Range from 20 to 70

Hysteresis °C
Range from 1 to 10

[SAVE CHANGES](#)

- **Enable** – enable/disable sending of device temperature information to My2N.
- **Temperature** – current temperature of the device.
- **State** – state of the device with respect to the set limits.
- **Lower limit** – set the temperature low value.
- **Upper limit** – set the temperature high value.
- **Hysteresis** – set the temperature range in which the state will be changed.

5.9.4 System

The System menu provides system information on the device and helps you set the USB connection of **2N® EasyGate IP**.

The screenshot shows a web interface titled "Maintenance / System". It contains several input fields and buttons:

- Product Number:** 5023101E
- Serial Number:** 52-2961-0468
- Security Code:** TBEG-CX4C-LZB4-HGRJ
- IMEI:** 867962045542951
- USB Connection:** Enabled (with a dropdown arrow)
- RESTART:** A button to restart the device.
- SAVE CHANGES:** A button to save the configuration.

- **Product Number** – product/order/part number of the device.
- **Serial Number** – serial number of the device.
- **Security Code** – 2N® My2N registration code.
- **IMEI** – IMEI of the device.
- **USB Connection** – enable/disable the USB connection option. The default value is temporarily allowed.
- **RESTART** – start the device restart. The SW restart is indicated by the signal status LEDs on the device.

The first registration of **2N® EasyGate IP** to **2N® Elevator Center** via My2N is followed by automatic disable of the USB connection parameter.

5.9.5 Logs

The Logs folder is used for downloading log files from **2N® EasyGate IP**, which may be helpful while troubleshooting.

Maintenance / Logs

Temporary Protocol	<input type="button" value="DOWNLOAD"/>
Archiving	<input style="border: 1px solid #ccc; border-radius: 3px; padding: 2px 5px; display: inline-block; width: 40px; text-align: center; vertical-align: middle;" type="button" value="No"/> ▾
Archive Quota	<input style="width: 40px;" type="text" value="5"/> MB
Archived Protocol	<input type="button" value="DOWNLOAD"/>
Application State	<input style="width: 40px;" type="text" value="0"/>

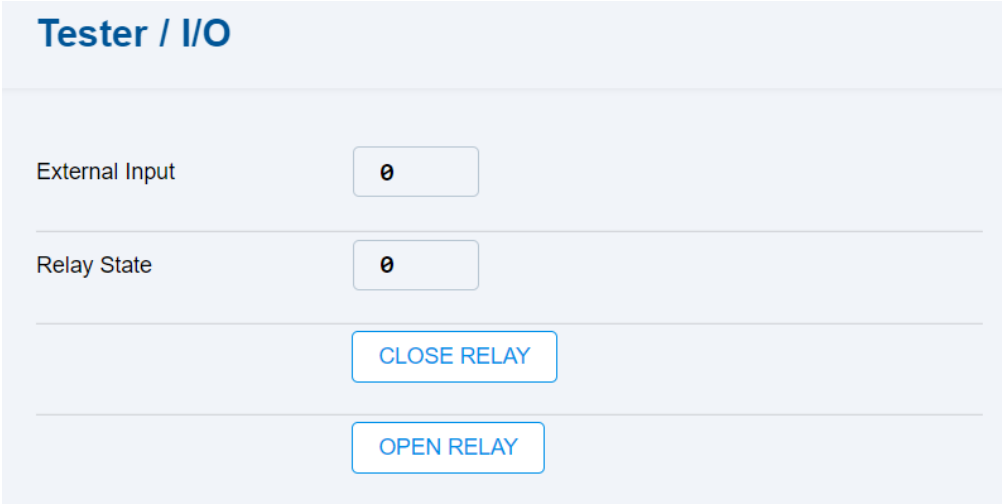
- **Temporary Protocol** – download the current logs after the last **2N® EasyGate IP** restart.
- **Archiving** – enable/disable the log archiving function.
- **Archive Quota** – set the storage size. When the set limit is exceeded, the oldest logs will be deleted automatically to provide capacity.
- **Archived Protocol** – download all the logs recorded historically from the archiving function start.
- **Application State** – count of the system SW resets whenever an unexpected problem occurs.

Caution

- A permanent log archiving enable is not recommended. This function is recommended for troubleshooting, but a long-time use may result in the a device memory damage.

5.10 Tester / I/O

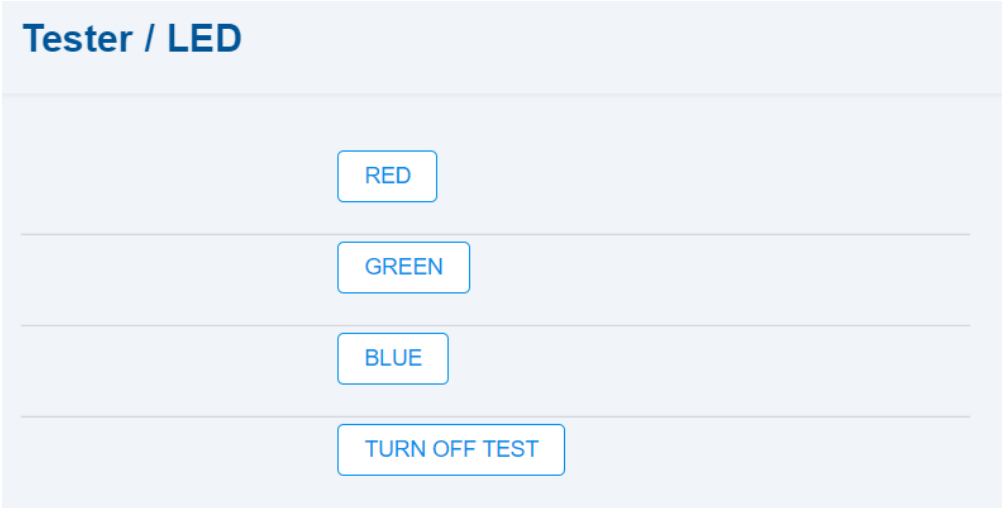
The I/O folder helps you test the connected relay via the web interface.



- **External Input** – display the external input state (0 – unoccupied, 1 – occupied).
- **Relay State** – display the relay state (closed/open).
 - **Close Relay** – close the connected relay.
 - **Open Relay** – open the connected relay.
- [5.10.1 LED](#)
- [5.10.2 Test Call](#)

5.10.1 LED

The LED folder helps you test the LED function via the device web interface.



- **Red/green/blue** – turn on all the LEDs in the selected color.
- **Turn off test** – turn off all the LEDs.

5.10.2 Test Call

The Test Call folder helps you establish a test call from the device web interface.

Tester / Test Call

State

Phone number

DTMF string

- **State** – test call state.
- **Phone number** – phone number for the test call.
 - **Dial/on hook** – start / end the test call.
 - **Record/stop** – record / stop a short test call message (up to 10 s).
 - **Play/stop** – play / stop the message recorded.
- **DTMF string** – set the tone dialing string.
 - **DTMF play** – play the tone dialing string.
- **SAVE CHANGES** – save the changes to set the test call.

⚠ Caution

- The test call function only works if the 2G, 3G or LTE phone technology is used.
- The opponent is not allowed to use VoLTE, as it disables DTMF tones to be transmitted.
- The test call function is not supported for SIP calls.

6. Function and Use

This section describes the basic and extending functions of **2N® EasyGate IP**.

Here is what you can find in this section:

- [6.1 Phone Calls](#)
- [6.2 SIP Calls](#)
- [6.3 VoLTE Calls](#)
- [6.4 GSM / UMTS Calls](#)

6.1 Phone Calls

An outgoing/incoming call establishing procedure is described for a connected analog phone for illustration. The procedure is the same for the **2N® EasyGate IP** – PBX connection, just make sure that the calls are routed properly to the network to a line with **2N® EasyGate IP**.

Outgoing Call

1. Put the phone off-hook, you can hear the dial tone and the Line LED starts flashing.
2. Dial the user number. The interdigit delay may not be longer than 5 s (or as programmed) during dialing. The number is evaluated as complete and transmitted to the GSM network after this timeout.
3. A short delay follows the last-dialed digit for **2N® EasyGate IP** to await further dialing, if any, which is then followed by the dialing end signal and connection setup.
4. If the called user is available, you will hear the ringing tone. If the called user is engaged, you will hear the busy tone or any of the GSM provider's messages.
5. When the called user answers the phone, a call is established. The Line LED is permanently on during the call.
6. Hang up to end the call. The Line LED goes off. If the called user is the first to hang up, you will hear the busy tone and hang up.

Incoming Call

1. Ringing signals an incoming call. The Line LED flashes during ringing.
2. Put the phone off-hook to connect the call. The Line LED is permanently on during the call.
3. Hang up to end the call. The Line LED goes off. If the called user is the first to hang up, you will hear the busy tone and hang up.

Automatic Call (Babycall)

If the Babycall function is enabled, a pre-programmed period of time is counted down after off-hook. Unless you start dialing by the end of this timeout, a call to the predefined phone number is set up automatically – from this moment on, **2N® EasyGate IP** behaves as if dialing was

terminated in a standard outgoing call. Any dialing during the Babycall timeout countdown cancels this function and a standard outgoing call is made.

6.2 SIP Calls

SIP is a service which provides calls via the Internet. Data has to be permitted for SIP calling.

SIP / Basic setup

Service	<input type="text" value="enable"/>
State	<input type="text" value="registered"/>
Phone number	<input type="text" value="1506584670"/> <small>Max length: 31 chars</small>
Authorization ID	<input type="text" value="1506584670"/> <small>Max length: 31 chars</small>
Password	<input type="password" value="••••••••"/> ⊕ <small>Max length: 31 chars</small>
Server	<input type="text" value="proxy-5.my2n.com"/> <small>Max length: 63 chars</small>
Server port	<input type="text" value="5060"/>
Local port	<input type="text" value="0"/>
Registration enable	<input type="text" value="enable"/>
Registration expire	<input type="text" value="120"/> sec
Transport type	<input type="text" value="UDP"/>

Enable SIP calls in the SIP / Basic Settings menu by turning on Service and save the setting. Complete the phone number and authorization ID if different from the phone number. Enter the password paying attention to the lower/upper case. Complete the SIP server address. If 0 is set by default, the setting is same as in 5060.

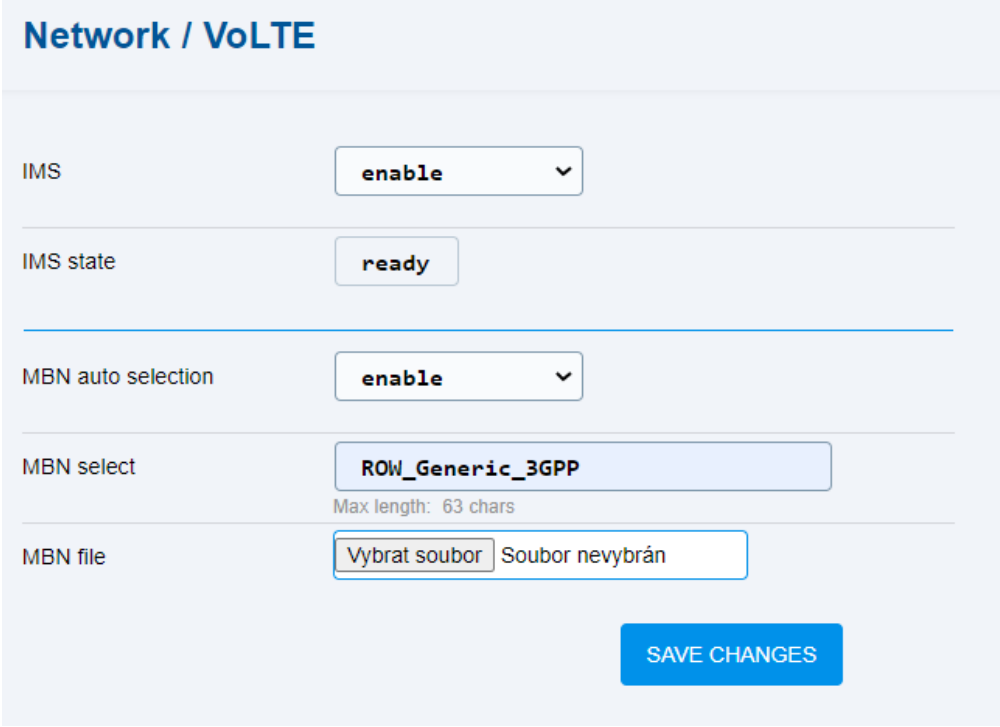
This is the way to SIP registration. Check the SIP status on the SIP / Basic Settings card or the Status card, which provides general information on the device.

Caution

- Make sure that **2N® EasyGate IP** is registered to make calls via SIP. This means that peer-to-peer calls cannot be made.

6.3 VoLTE Calls

The VoLTE service provides the highest quality calls via the LTE network. The service is available wherever there is an LTE signal.



IMS	enable
IMS state	ready
MBN auto selection	enable
MBN select	ROW_Generic_3GPP Max length: 63 chars
MBN file	Vybrat soubor Soubor nevybrán

SAVE CHANGES

Turn on the IMS function on the Network / VoLTE card to enable the VoLTE function in the device. Data is enabled by the device by default, use the Network / WWAN card to change the setting. Make sure that the Network technology value on the WWAN card is always LTE (i.e. connection to LTE network) for the VoLTE calls.

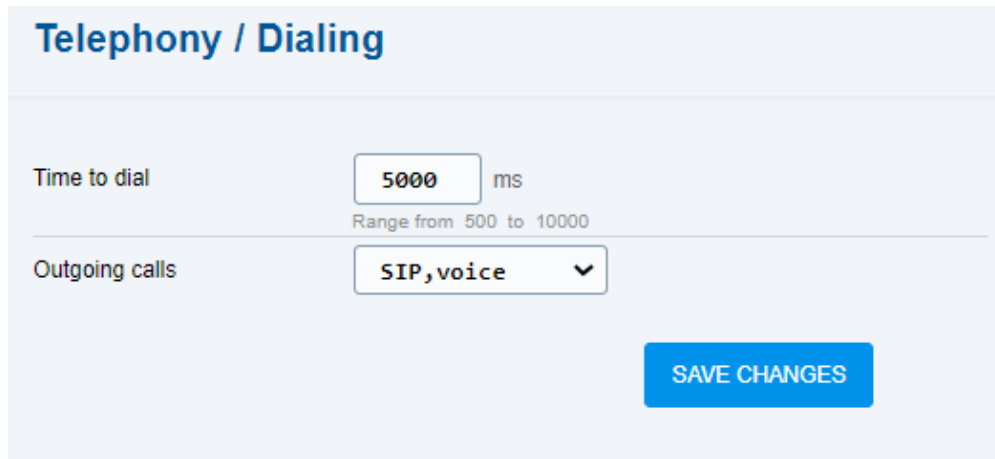
Network / WWAN

Network name	<input type="text" value="T-Mobile CZ T-Mobile CZ"/>
MCC + MNC	<input type="text" value="23001"/>
IMSI	<input type="text" value="230015017186369"/>
ICCID	<input type="text" value="8942001500318627497F"/>
Network selection	<input type="text" value="Auto"/> ▼
Network technology	<input type="text" value="LTE"/>
Network signal	<input type="text" value="-75"/> dBm
Signal quality	<input type="text" value="0"/>
Network status	<input type="text" value="Registered"/>
Active SIM slot	<input type="text" value="1"/>
SIM status	<input type="text" value="Ready"/>
Enable data	<input type="text" value="yes"/> ▼
Data connection	<input type="text" value="Connected"/>

This is how the VoLTE calls are set.

6.4 GSM / UMTS Calls

To make GSM / UMTS calls, change the outgoing call type from SIP, voice to Voice in the Telephony / Dialing folder.



Telephony / Dialing

Time to dial ms
Range from 500 to 10000

Outgoing calls ▼

SAVE CHANGES

7. Technical Parameters

Power supply

- **Mains supply:** 240 / 12 V; 0.5 A adapter
- **Direct current supply:** 9 to 30 V DC
- **Consumption 12 V:**
 - at relax – 100 mA
- **Internal batteries:** 4x NiMH type AA, 1.2 V / 2100 mAh

If a power source other than the supplied adapter is used, the power supply must meet the SELV standard criteria.

Configuration and upgrade

- **Local:** WEB UI via USB
- **Cloud service:** 2N® Elevator Center

Antenna

- **Connector type:** SMA
- **Impedance:** 50 Ohm

Line interface

- **Interface type:** 2-wire analog, FXS
- **Call impedance:** selectable – 600 Ω, Zr EU, Zr Australia
- **Loop voltage:** 48 V DC
- **Loop current:** 20 mA
- **Loop resistance:** 800 Ω max
- **Ring voltage:** adjustable, 35 – 60 V RMS
- **Ring frequency:** adjustable, 10 – 60 Hz

INPUT

- **Shorting input**

OUTPUT

- **Type:** Relay output
- **Contacts:** Switching, with normally open and normally closed
- **Switched voltage DC:** 30 V, 1 A max
- **Switched voltage AC:** 125 V, 0.3 A max
- **Resistive load**

Serial Line

- **Type:** RS232
- **Connection:** RX, TX, GND

Telephone network

GSM bands

- EU version: EGSM 900 MHz/GSM 1800 MHz
- US version: No
- AU version: EGSM 850/900 MHz, GSM 1800/1900 MHz

UMTS bands

- EU version: 850/900/2100 MHz
- US version: 850/1700/1900 MHz
- AU version: 850/900/1900/2100 MHz

LTE bands

- EU version: B1,B3,B5,B7,B8,B20
- US version: B2, B4, B12
- AU version: B1,B3,B5,B7,B28, B40

VoIP

- **Protocol:** SIP (RFC3261) over UDP, SIPs, SRTP
- **DTMF:**
 - a) In-band Analogy to the traditional DTMF signal, where tones are combined with speech into a single voice channel.
 - b) SIP INFO (RFC 2976) DTMF signal is sent separately in the SIP message body

Mechanical properties

- **Dimensions:** 195 x 119 x 61 mm
- **Weight:** 600 g
- **Operating relative humidity:** up to 90 %, non-condensing
- **IP cover:** IP43
- **Operating temperature:** -40 °C to +85 °C
- **Storing temperature:** -20 °C to +35 °C
- **LED statuses:** power, telephone network, FXS line, data, signal level
- **Certifications:**
 - EN 62368-1, EN 81-28, EN 301489-1, EN 301489-7, EN 301511, EN 301908-1, EN 301908-2, EN 301908-13, EN 62311, EN 63000, EN 12016
 - FCC Part 15b, UL 62368-1, PTCRB
 - ICES-003 Issue 6, CSA C22.2 No.62368-1
 - AS/CA S003.1, S003.3, S042.1, S042.4, AS/NZS 62368.1 App ZZ

8. Supplementary Information

This section describes supplementary information on the product.

Here is what you can find in this section:

- [8.1 Troubleshooting](#)
- [8.2 Directives, Laws and Regulations](#)
- [8.3 General Instructions and Cautions](#)

8.1 Troubleshooting

Problem	Solution
No LED indicator is in on 2N® EasyGate IP .	<ul style="list-style-type: none"> • Check whether the switch is in turning-on position 0/I. • Check the power supply and battery status.
All of the LED indicators are on on 2N® EasyGate IP , there is no active call on the line (data LED is on as set in SIP settings).	<ul style="list-style-type: none"> • Turn off and on again, the LEDs should go off in 3 s and indicate the current device state.
2N® EasyGate IP does not log in.	<ul style="list-style-type: none"> • Check the SIM card insertion. • Check the inserted SIM card for PIN request. • Check the antenna connection. • Make sure that the installation site has a good network signal.
No tone can be heard after off-hook.	<ul style="list-style-type: none"> • Check the telephone line connection. • The device may not be initialized after the start (approx. 20 s after power up). • Check the power and wireless failure settings in the Service / Signaling folder.
2N® EasyGate IP does not communicate with the PC via USB.	<ul style="list-style-type: none"> • Check whether the switch is in turning-on position 0/I. • Check the power supply and battery status. • Unlock USB using the RESET button if the 2N® EasyGate IP setting allows so. If not, reset the factory default values. • Use 2N® Elevator Center for login to the device.

Problem	Solution
2N® EasyGate IP fails to communicate with 2N® Elevator Center .	<ul style="list-style-type: none">• Use USB for login to the device.



For the most frequently asked questions refer to faq.2n.cz.

8.2 Directives, Laws and Regulations

2N® EasyGate IP conforms to the following directives and regulations:

- 2014/53/EU for radio equipment
- 2014/33/EU for lifts and safety components for lifts
- 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment
- 2012/19/EU on waste electrical and electronic equipment

8.3 General Instructions and Cautions

Please read this User Manual carefully before using the product. Follow all instructions and recommendations included herein.

Any use of the product that is in contradiction with the instructions provided herein may result in malfunction, damage or destruction of the product.

The manufacturer shall not be liable and responsible for any damage incurred as a result of a use of the product other than that included herein, namely undue application and disobedience of the recommendations and warnings in contradiction herewith.

Any use or connection of the product other than those included herein shall be considered undue and the manufacturer shall not be liable for any consequences arisen as a result of such misconduct.

Moreover, the manufacturer shall not be liable for any damage or destruction of the product incurred as a result of misplacement, incompetent installation and/or undue operation and use of the product in contradiction herewith.

The manufacturer assumes no responsibility for any malfunction, damage or destruction of the product caused by incompetent replacement of parts or due to the use of reproduction parts or components.

The manufacturer shall not be liable and responsible for any loss or damage incurred as a result of a natural disaster or any other unfavourable natural condition.

The manufacturer shall not be held liable for any damage of the product arising during the shipping thereof.

The manufacturer shall not make any warrant with regard to data loss or damage.

The manufacturer shall not be liable and responsible for any direct or indirect damage incurred as a result of a use of the product in contradiction herewith or a failure of the product due to a use in contradiction herewith.

All applicable legal regulations concerning the product installation and use as well as provisions of technical standards on electric installations have to be obeyed. The manufacturer shall not be liable and responsible for damage or destruction of the product or damage incurred by the

consumer in case the product is used and handled contrary to the said regulations and provisions.

The consumer shall, at its own expense, obtain software protection of the product. The manufacturer shall not be held liable and responsible for any damage incurred as a result of the use of deficient or substandard security software.

The consumer shall, without delay, change the access password for the product after installation. The manufacturer shall not be held liable or responsible for any damage incurred by the consumer in connection with the use of the original password.

The manufacturer also assumes no responsibility for additional costs incurred by the consumer as a result of making calls using a line with an increased tariff.

Electric Waste and Used Battery Pack Handling



Do not place used electric devices and battery packs into municipal waste containers. An undue disposal thereof might impair the environment!

Deliver your expired electric appliances and battery packs removed from them to dedicated dumpsites or containers or give them back to the dealer or manufacturer for environmental-friendly disposal. The dealer or manufacturer shall take the product back free of charge and without requiring another purchase. Make sure that the devices to be disposed of are complete.

Do not throw battery packs into fire. Battery packs may not be taken into parts or short-circuited either.

