SMSEagle
Hardware SMS Gateway

SMSEAGLE
NXS-9700-3G
NXS-9700-4G

User's Manual

Congratulations on purchasing SMSEAGLE

Document version: 3.4.1

CONTENTS

GET READY TO START

WHAT'S IN THE BOX

Your SMSEagle box contains:

- SMSEagle hardware SMS gateway
- External omnidirectional antenna (with magnetic foot)
- **AC/DC power supply (input voltage: 100-240V)**
- Warranty card

PREPARE FOR FIRST START

Your SMSEagle is designed so that you can set it up quickly and start using it right away. Follow the steps below to get started.

STEP 1: Install 3G/4G antenna

ANTENNA INSTALLATION GUIDELINES

- Install the antenna in a location with access to a cellular network radio signal.
- The antenna must be installed such that it provides a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.
- The antenna must not be installed inside metal cases.

Plug in antenna connector to the device.

STEP 2: Insert SIM Card

Please install SIM Card when the device is SWITCHED OFF. SIM Card slot is located at the bottom of the device. Use a ball-pen or small screwdriver to eject SIM Card tray. Insert card into tray and push it gently into slot.

STEP 3: Power the device

The device is powered with AC/DC power supply adaptor delivered in the box. The device needs a power source of 12V DC / 1A. In order to power the device simply plug in a connector from AC/DC adaptor into the device.

STEP 4: Configure IP settings

SMSEAGLE DEFAULT NETWORK CONFIGURATION:

DHCP CLIENT IS ON

(IP ADDRESS WILL BE OBTAINED AUTOMATICALLY FROM YOUR DHCP SERVER)

A) CONNECT SMSEAGLE TO YOUR LAN AND **OBTAIN IP ADDRESS AUTOMATICALLY**

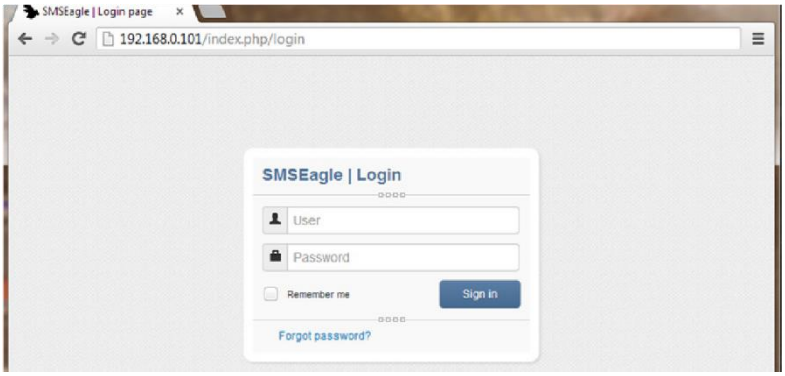
- connect the device to your LAN using Ethernet cable
- SMSEagle will obtain IP address automatically from your DHCP
- read assigned IP address on your DHCP server

B) **OR** SET IP ADDRESS FOR SMSEAGLE MANUALLY

- connect a display using HDMI connector, connect a keyboard to USB port (note: cables are not provided)
- login to the SSH console using root credentials (these were provided with your device)
- edit configuration file with command:
  mcedit /mnt/nand-user/smseagle/syscfg
  change the following lines:
  HOST_IP= (*set IP address for your device*)
  GW_IP= (*default gateway IP address*)
  NET_MASK= (*set subnet mask*)
  START_DHCP=Y (*set to START_DHCP=N to disable DHCP client*)
- save and exit the file
- shutdown the device
- now connect SMSEagle to your LAN using Ethernet cable

C) **LOG IN** TO SMSEAGLE

Open an internet browser on your PC and go to the IP address assigned to your gateway



SMSEAGLE DEFAULT USER:

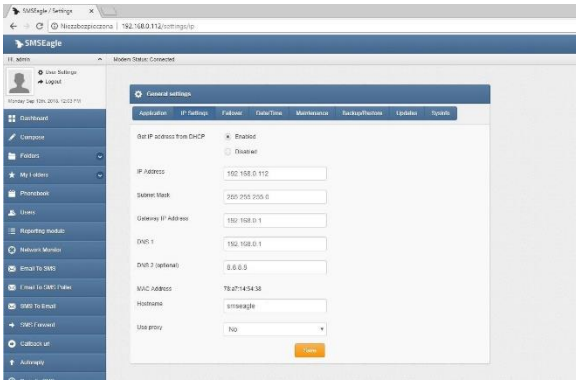
Username: admin

Password: password

Login to application with above username and password.

D) CONFIGURE STATIC IP SETTINGS IN WEB-GUI **(OPTIONAL)**

Click on menu position “Settings” and navigate to tab “IP Settings”.



Disable DHCP server. Enter your IP settings. > Press “Save” button. 

STEP 5: Setting SIM Card PIN

This step should ONLY be done if your SIM-card requires PIN.

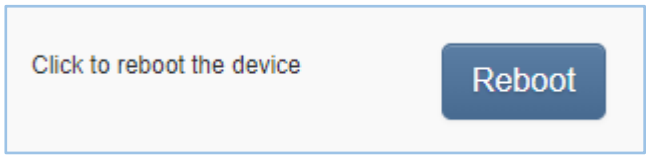
If your SIM-card requires PIN number at startup, go to Settings > **Maintenance Tab.**

Enter your PIN number in the field "SIM Card PIN"

> Press "Save" button.

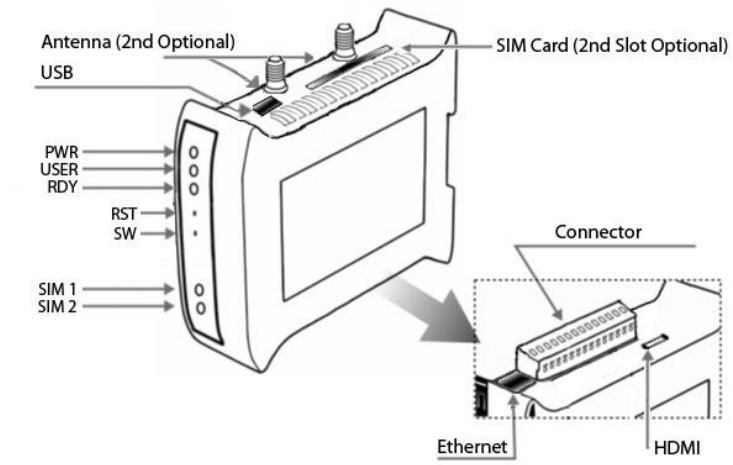
STEP 6: Reboot the device

Go to Settings > Maintenance Tab. Press **Reboot** button.



II USING OF SMSEAGLE

GET TO KNOW WITH CONNECTORS, PORTS AND LEDS



Element	Label	Description
VCC (Rev.3 only)	VCC	Power connector
12-pole connector	-	Hardware Rev.3: 4x digital Input, 4x digital output, 1x 1Wire, 1x 5V, 2x GND Hardware Rev. 2, Rev.1: Power connector, 2x digital input, 2x digital output, 2x serial port, 2x GND
SIM Card Slot	SIM1, SIM2 (optional)	SIM card slot(s)
HDMI port	HDMI	HDMI port (for debugging purposes only)
USB port	USB	USB port
Ethernet Port	ETH	Ethernet RJ45 port
Antenna	ANT	Antenna socket
Power LED	PWR	LED indicating power-on
User LED	USER	LED for user application purpose
SIM1,2 LEDs	Modem 1,2 (optional)	LED indicator for modem status (only in 3G devices)
Ready LED	RDY	LED indication device status
Reset	RST	Switch for rebooting the device
User Switch	SW	Switch for restoring to factory settings

BASIC OPERATIONS

SMSEagle is capable to work in various screen resolutions, making it accessible for wide range of devices: computers, laptops, tablets, smartphones, etc.

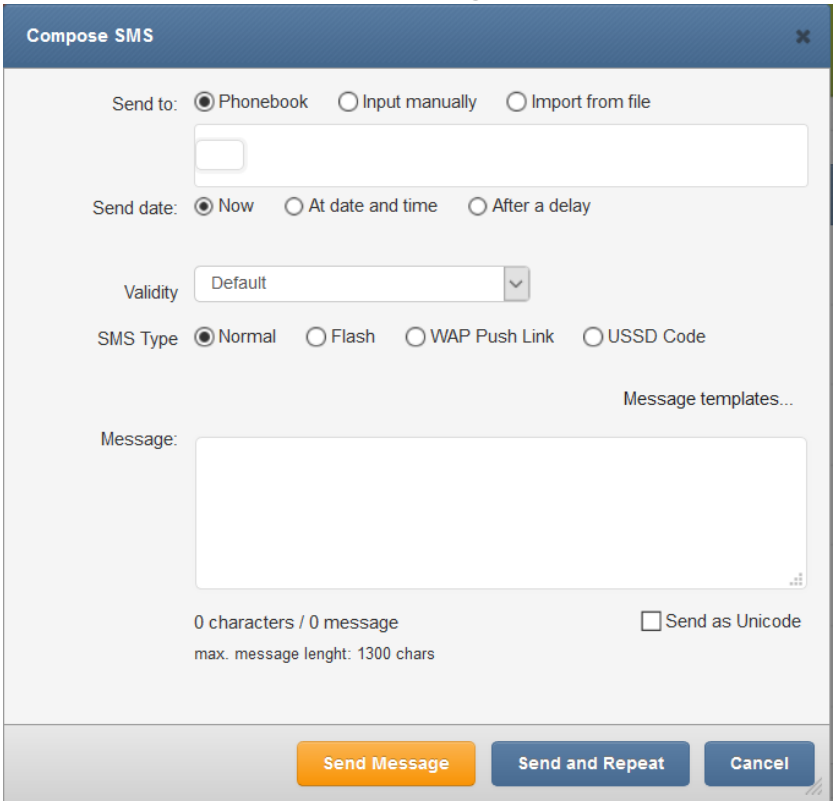
Open a web browser on your device, type in SMSEagle's IP address (as set in previous chapter). At login screen type in your username/password. Default username and password is given in chapter **Prepare for First Start**.

SMSEAGLE BASIC FEATURES

- Sending & Receiving SMS (managing messages with Inbox, Outbox, Sent Items)
- Smartphone-like conversation mode (messages are nicely grouped by phone number). You can easily track history of what you send and receive
- Sending to single numbers, contacts or groups from phonebook
- Import messages for sending from CSV file
- SMS Scheduling by specified date and time or delay
- Message templates (save & edit your own templates)
- Different message types (normal SMS, flash, WAP push, USSD codes)
- Unicode support (support of national characters)
- Multiuser support (each user has access to a private Inbox, Outbox, Sent Items)

Compose SMS

Here we show the various ways of sending an SMS form your device.



Screenshot of default Compose SMS view

In Compose SMS users can:

- Send SMS to contact from phonebook, input manually or import from file
- Set send date to now, at a date and time or after a delay
- Set duration validity of SMS
- Type of SMS, normal, flash, WAP Push Link or USSD Code
- Set a message template to be saved and used at another time
- Send as Unicode (for special character use)
- Send message or Send and Repeat

Folders

Folders contain your messages. They are conveniently grouped into 5 categories:

- Inbox
- Outbox
- Sent Items
- Spam
- Trash

The view of conversations can be either of type “Baloons” (smartphone like conversation) or “Table” (tabular view). The view type can be changed in menu Settings > Application.

Baloons view type:

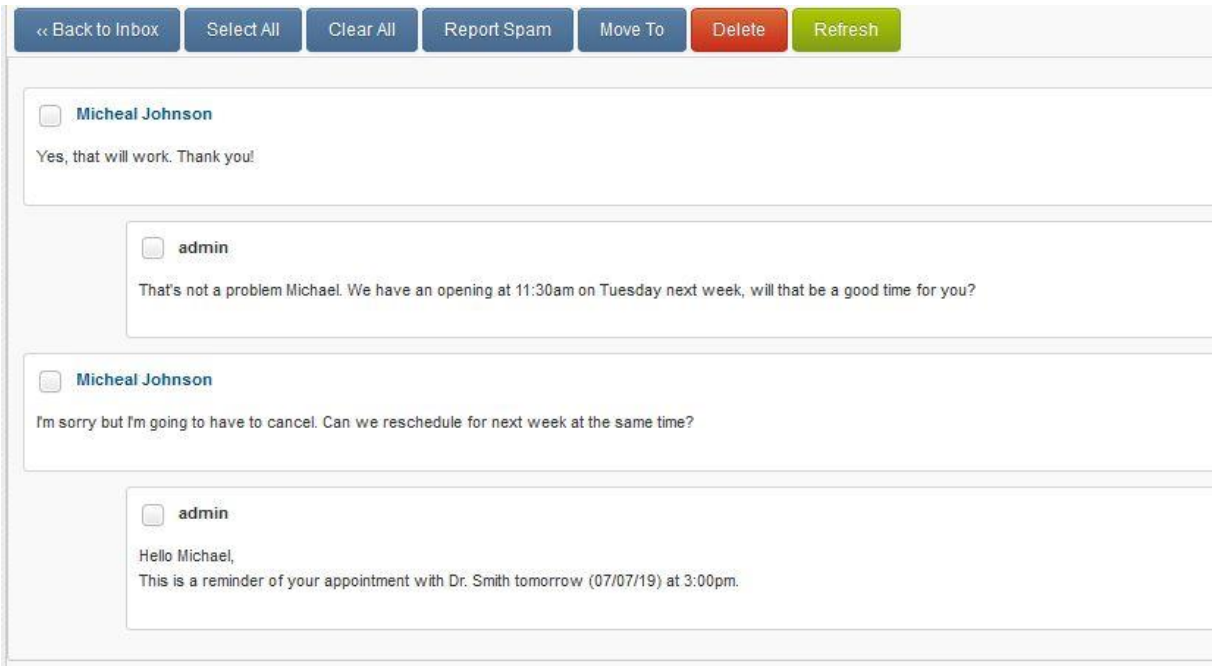
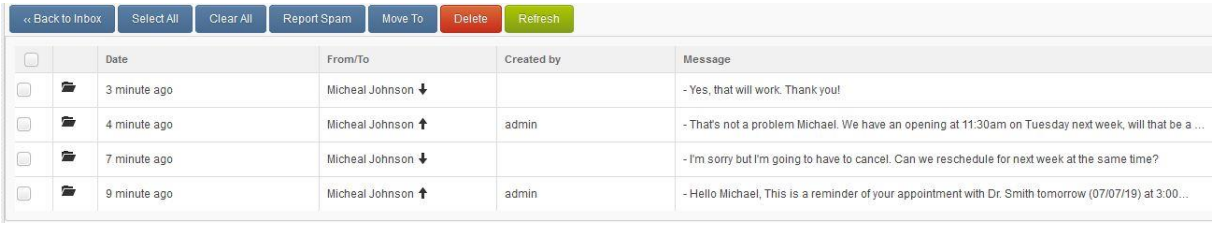


Table view type:

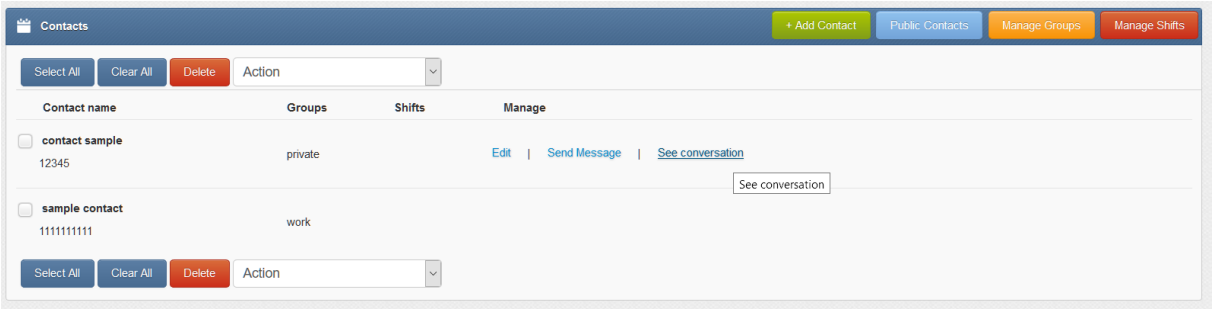


Phonebook

Web-GUI of SMSEagle device is equipped with Phonebook for managing contacts, groups and shifts. Each user can create private and public contacts, gather contacts in private and public groups. Contacts can also be optionally assigned to working shifts. Contacts and groups from Phonebook allows users efficient sending of messages.

Phonebook Contacts

Below we present a main Phonebook view, where user manages his Contacts.



Screenshot of default phonebook view

In Phonebook Contact Management users can:

- Add/edit/delete contacts via web-gui
- Import contacts from CSV file
- Set contact to public or private visibility
- Add contacts to groups
- Add contacts to working shifts
- Send message to a contact
- View message conversation of a contact

Public contacts are visible to all users on the device while private contacts are visible to single user.

Phonebook Groups

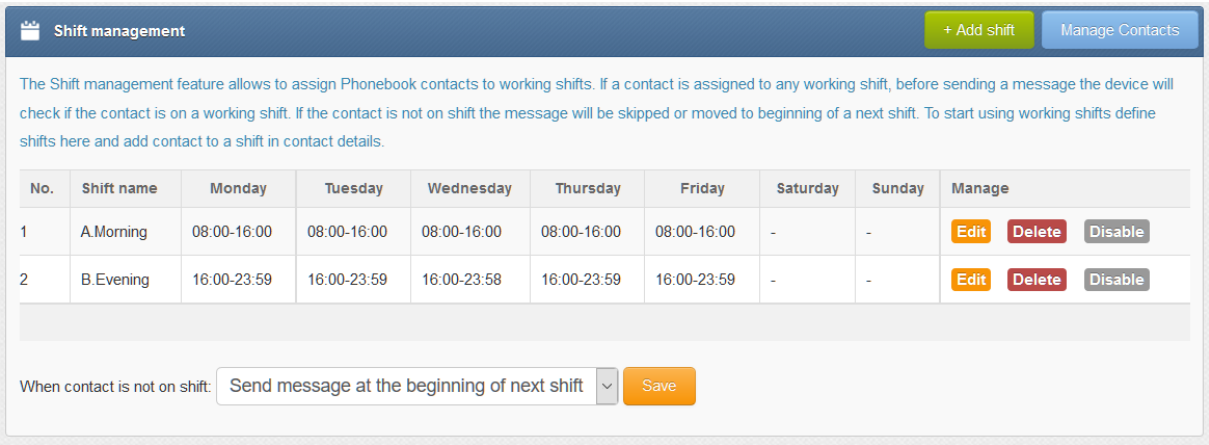
Screenshot taken from phonebook groups

In Phonebook Group Management view users can:

- Add/edit/delete groups
- Set groups to public or private visbility
- View group content (contacts beloning to the group)
- Send message to a group

Phonebook Working Shifts

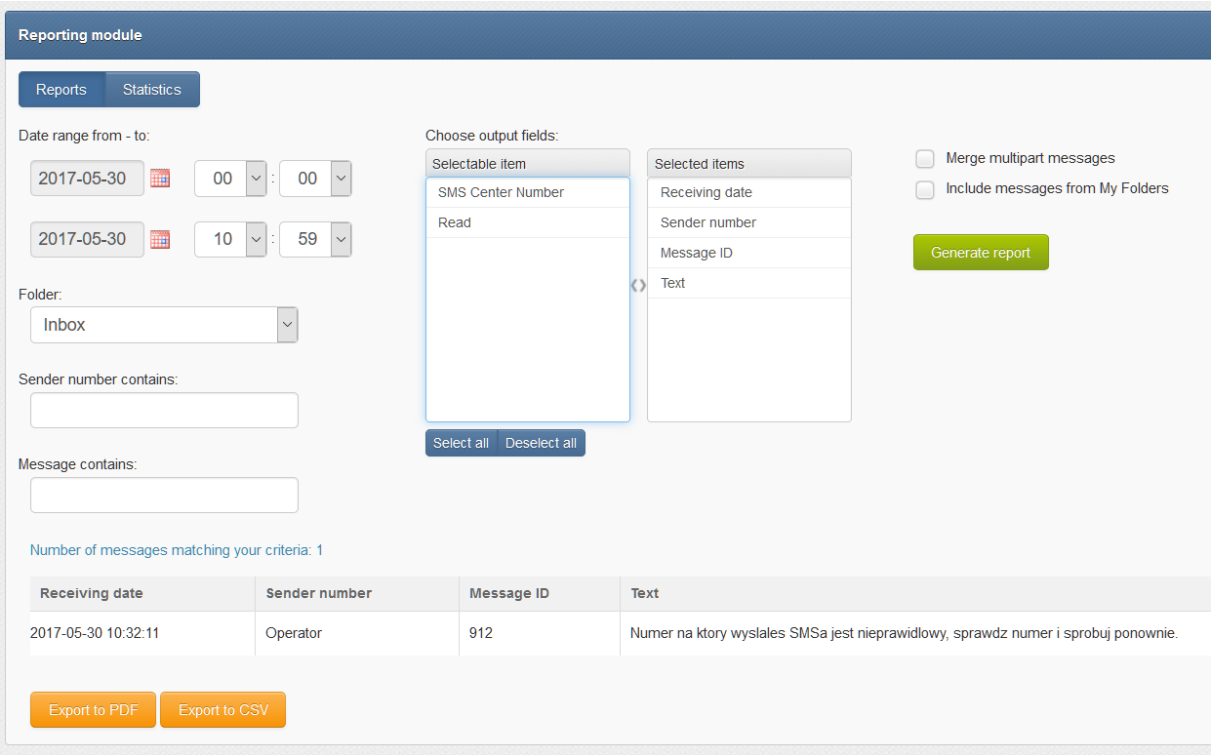
The Shift management feature allows to assign Phonebook contacts to work in shifts. If a contact is assigned to any working shift, before sending a message the device will check if the contact is on a working shift. If the contact is not on shift the message will be skipped or moved to beginning of a next shift. To start using working shifts define shifts here and add contact to a shift in contact details.



Screenshot of shift management in phonebook

Reporting module

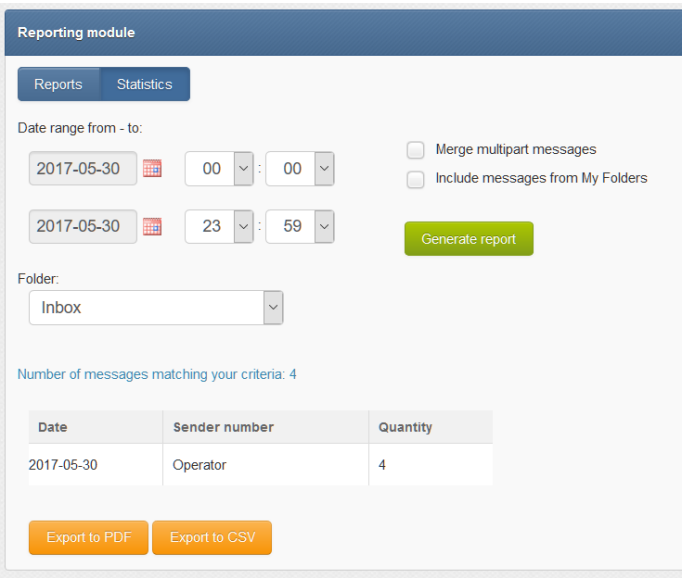
Reporting module is an extension of basic search feature. The module allows users to filter messages from Inbox/Sent items folders based on custom criteria and display filtered messages. Filtered list of messages can be exported to PDF or CSV file.



Screenshot of Reporting module

Statistics view

The reporting module allows also to view daily statistics of sent/received messages. The statistics view displays number of messages per day and sender/receiver number.



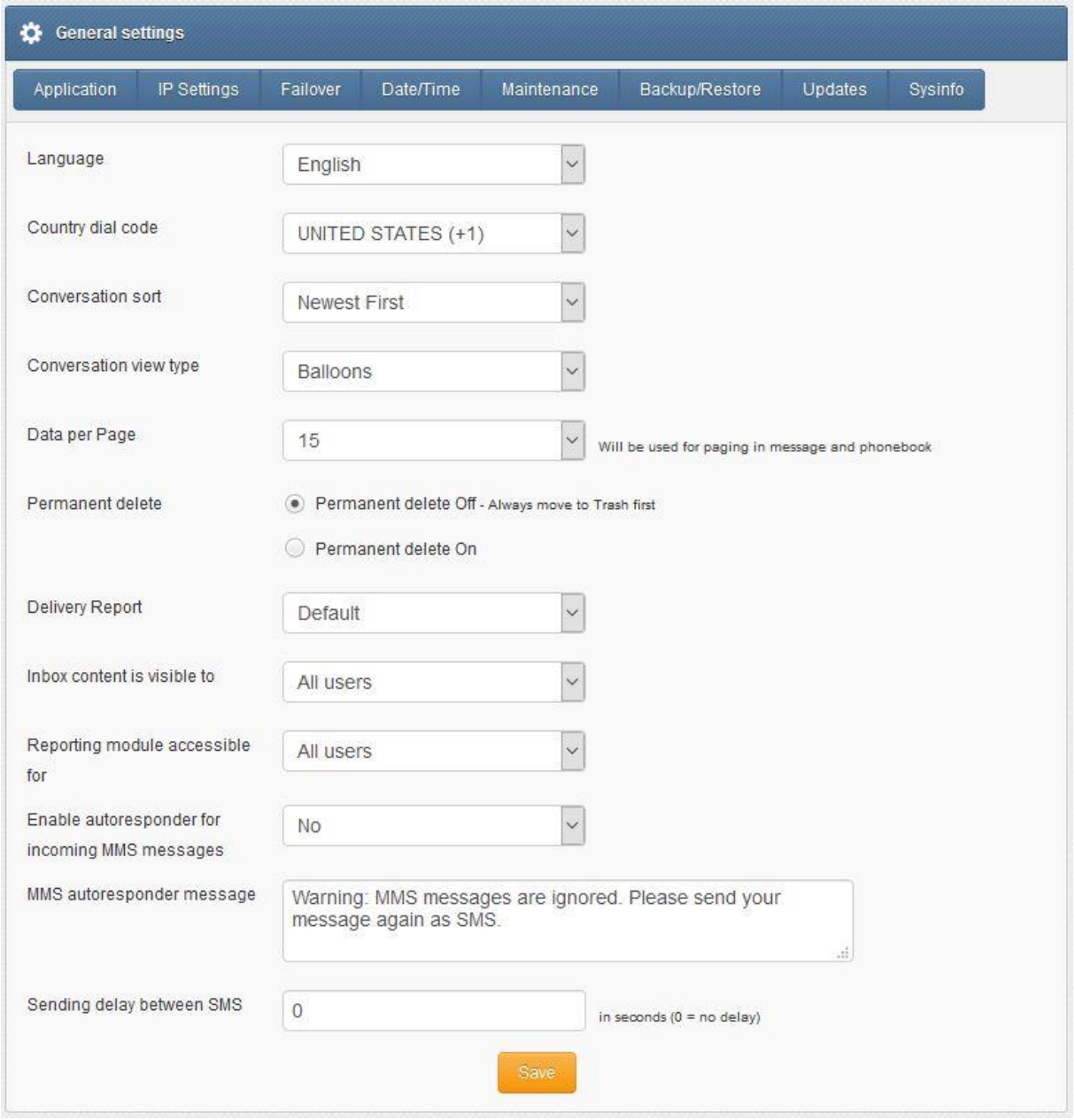
Screenshot of Statistics view in Reporting module

Settings

Settings menu is divided into several tabs for easier maintenance.

Application settings

Application settings can be changed under the Settings Tab > Application.



- You can change the language of the application to English, German or Polish
- You can change the country dial code to your country (this setting affect only correct assignment of phone numbers to phonebook entries)
- You can sort the conversation to show messages either “Newest First” or “Oldest First”
- You can change the conversation view to either “Table” (tabular vier) or “Balloons” (smartphone-like view), as shown in Folders chapter
- You can adjust the amount of data displayed on one page to 10, 15, 20, 25, 50, 100, 250 or Show all
- You can set for the messages to be permenantly deleted or be moved to Trash first
- You can set the receiving of delivery reports to Yes, No or Default (network carrier setting)
- You can set the visibility of the Inbox content to All users or Only admins
- You can set access of the reporting module to All users or Only admins
- You can enable the autoresponder for incoming MMS messages

- You can set the MMS autoresponder message
- You can set a delay between SMS sending in seconds (this setting may be useful for cases where cellular operator block a number due to intensive traffic. Note: setting delay between SMS sending also introduces a delay time between receiving SMS)

SMSEAGLE PLUGINS

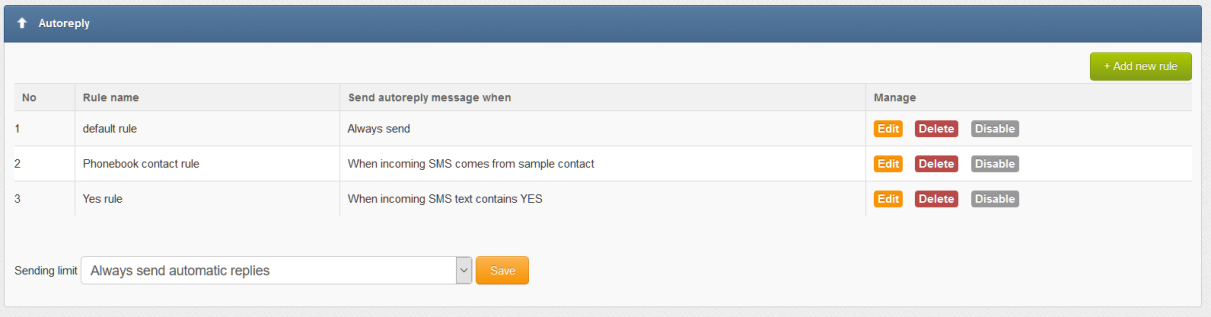
Basic features of SMSEagle software are extended by plugins that provide extra features to the software. Below you will find a description of plugins available in each SMSEagle device. All plugins are an integral part of SMSEagle software. That means that all described plugins are installed in a standard software of SMSEagle device and are available for free.

Autoreply plugin

Plugin allows to automatically respond to each received message with defined text response.

PLUGIN CONFIGURATION

Plugin "Autoreply" allows to add many autoreply rules. Each rule can be enabled or disabled by user.

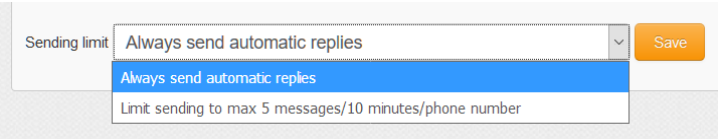


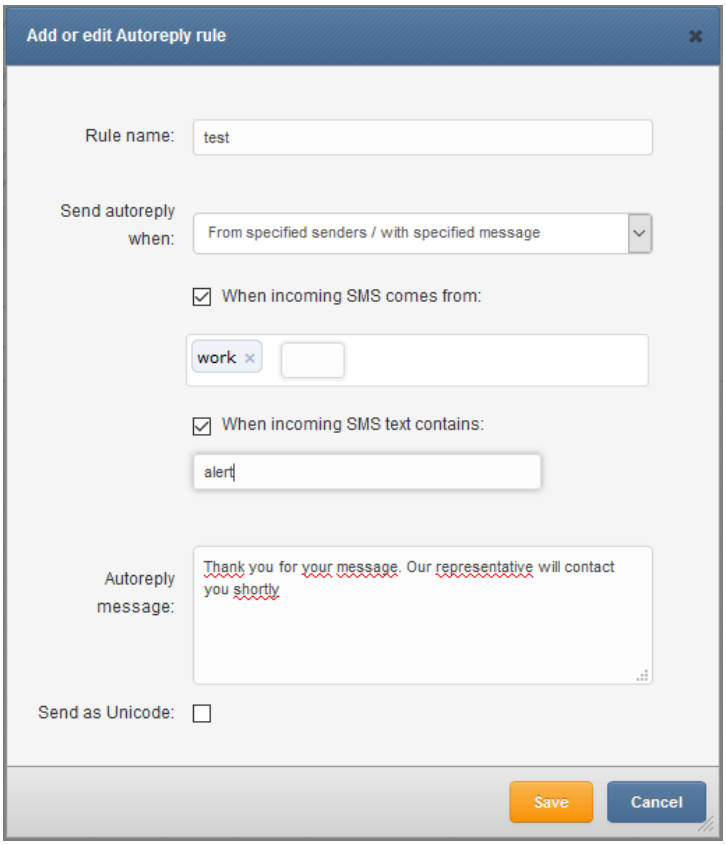
Screenshot from plugin main window

For each rule user can define:

- When autoreply message should be sent:
  - always,
  - when incoming message contains defined text,
  - and/or when message sender belongs to Phonebook contact/group
- If autoreply message text should be sent as Unicode characters

Plugin also allows to define sending limit for autoreply messages. It is possible to set limitation of max 5 messages / 10 minutes / phone number.



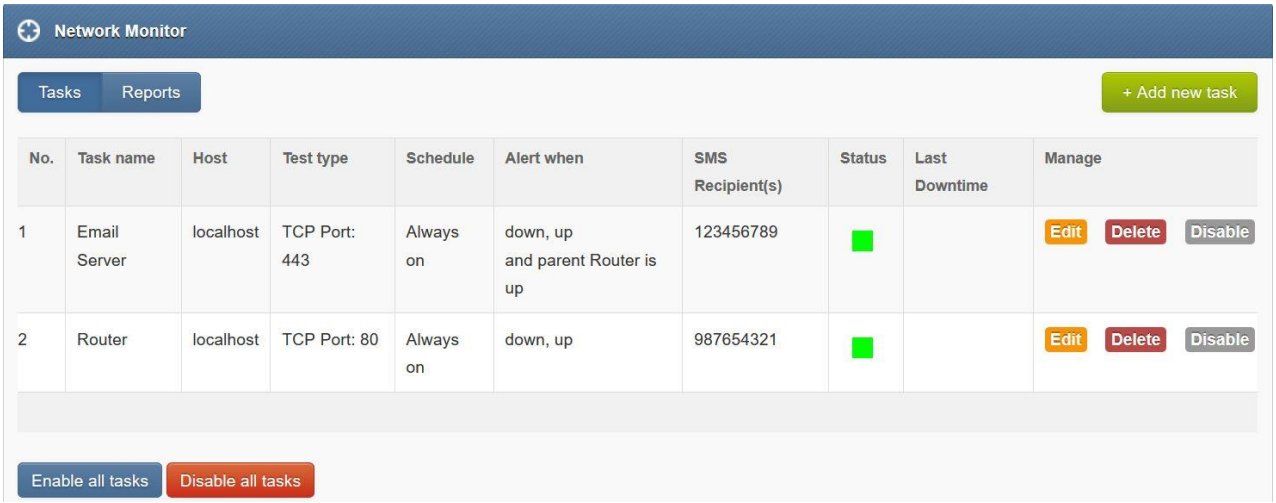


Screenshot form "Add/edit autoreply rule"

Network Monitoring plugin

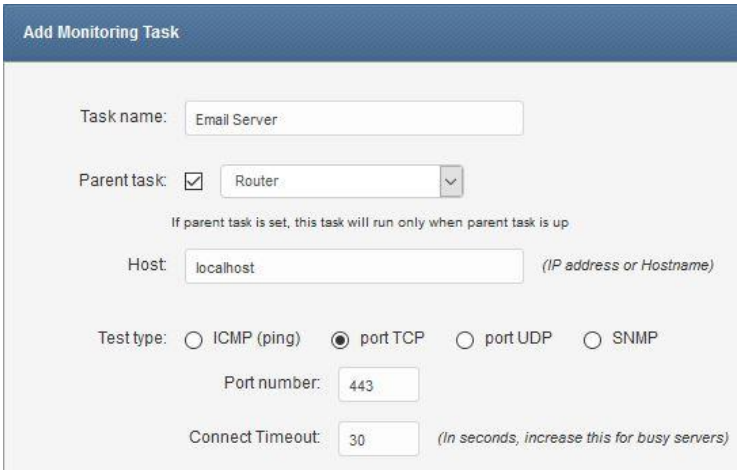
SMSEagle is equipped with network monitoring features. With that features you can monitor any device or service that operates ICMP, TCP, UDP or SNMP protocol. SMSEagle Network Monitoring plugin sequentially controls availability of defined hosts/services in Network Monitoring feature and sends defined SMS alert when host/service is unavailable/goes back to life or when SNMP return value reaches required criteria. Below you will find a brief overview of plugin capabilities.

Control status of all your defined tasks



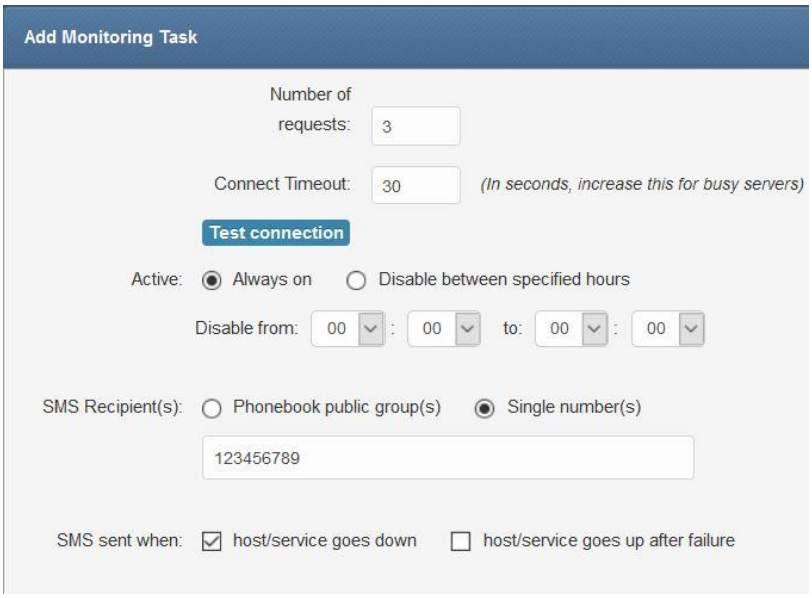
- see a settings' overview for all of your tasks
- check which server/service is currently unavailable
- see when a specific server/service was last down (last downtime)
- check what happened at last downtime (see server/service response)
- edit/delete your tasks
- disable tasks when needed (e.g. when doing a machine upgrades)

Define what you want to monitor in each task



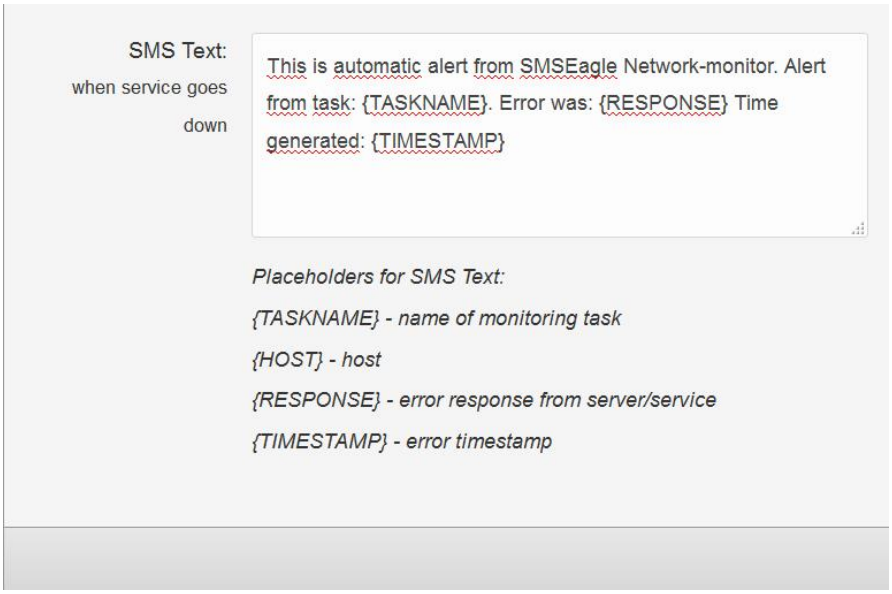
- choose a name for the task
- set parent task. If parent task is defined, network monitor will monitor child task health only if parent task is healthy
- enter a host (IP address or Hostname)
- choose ICMP (ping) to monitor a server with ICMP protocol
- or PORT (TCP/UDP) to monitor your service on a selected port (SMSEagle will check if port is open)
- or SNMP to monitor objects via SNMP protocol (supported return types: numeric, string)
- increase a default timeout value for busy servers (by default we set it to 30 seconds)
- test the connection of server

Define a schedule



- choose if task should be always enabled…
- …or disable it at chosen times
  (during a night, when a machine goes through planned restarts, during resource intensive backups, etc.)
- enter a phone number or choose a group of users to send your SMS alert to
- select when to send SMS alert (when host/service goes down, when host/service goes up after failure)

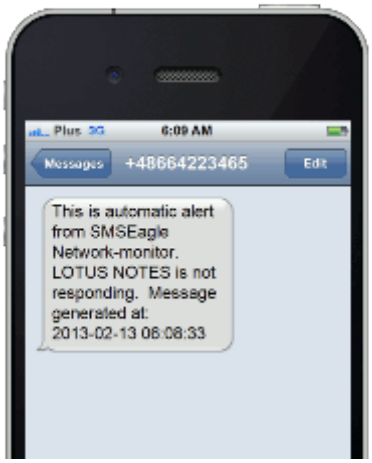
Define a SMS alert message



Define your SMS messages when host or service becomes unavailable/comes back to life. Choose field placeholders for your SMS text:

- {TASKNAME} – puts a taskname inside SMS text
- {HOST} – hostname or IP address
- {RESPONSE} – message received (in case of no response from server/service)
- {TIMESTAMP} – timestamp of an error

Receive SMS alerts

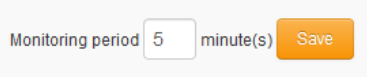


- be alerted when your services/servers go down (or go up after failure)
- give yourself a chance to react quickly

MONITORING FREQUENCY

Monitoring tasks are performed in a parallel mode. Software automatically optimizes number of parallel tasks and frequency of tasks taking into account the performance of the device and adjusts monitoring period when needed.

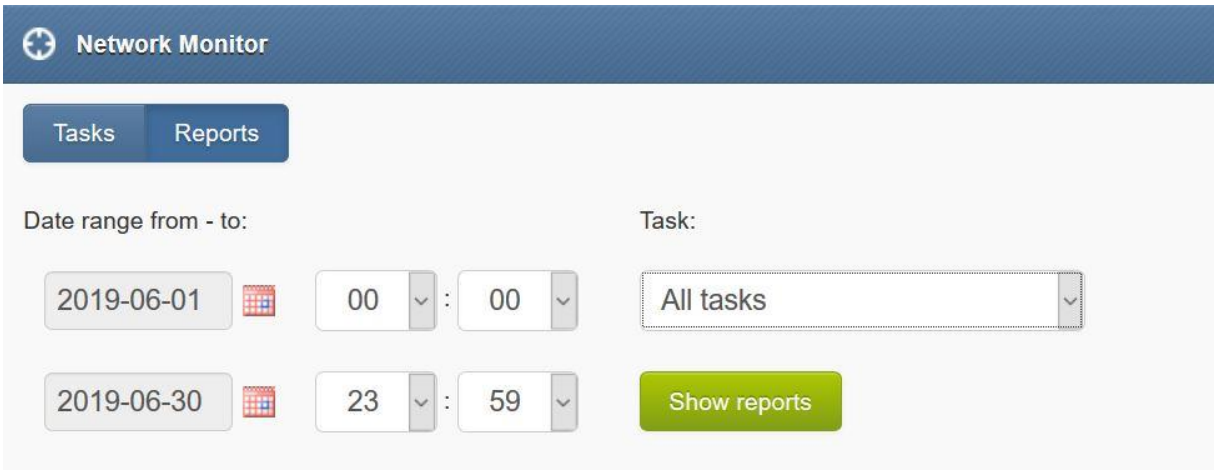
You can manually increase/decrease monitoring period in Network Monitor settings:



If monitoring period value is too small (there are too many monitoring tasks to perform in parallel), the software will adjust the value to ensure optimal workload and performance of your device.

REPORTS

This tab allows you to view reports of task errors in the Network Monitor for a selected period of time.



Screenshot from Network Monitor > Reports window.

Email to SMS plugin

Email To SMS plugin allows you to convert an email to SMS message.

BASIC USAGE

If the plugin is enabled, email sent to the email address:

PHONE_NUMBER@IP_ADDRESS_OF_SMSEAGLE will be converted to SMS message.

PHONE_NUMBER is a destination phone number

IP_ADDRESS_OF_SMSEAGLE is the IP address of your device.

The text of the email is the text of the SMS message (optionally you can append email subject at the beginning of SMS message).

Example: email message sent to the address: 123456789@192.168.0.101 will be converted to SMS message and delivered to phone number 123456789.

SEND TO USERNAME/GROUP

Email sent to the email address:
NAME_IN_PHONEBOOK@IP_ADDRESS_OF_SMSEAGLE will be converted to SMS message and will be sent to a user or users group from SMSEagle's phonebook.

NAME_IN_PHONEBOOK is a username or group name (must be a public group) from SMSEagle's phonebook
IP_ADDRESS_OF_SMSEAGLE is the IP address of your device.
The text of the email is the text of the SMS message (optionally you can append email subject at the beginning of SMS message).

Example: email message sent to the address: db-admins@192.168.0.101 will be converted to SMS message and delivered to all members of db-admin group. The db-admin group must be defined in your SMSEagle phonebook.

USING FQDN IN EMAIL ADDRESS

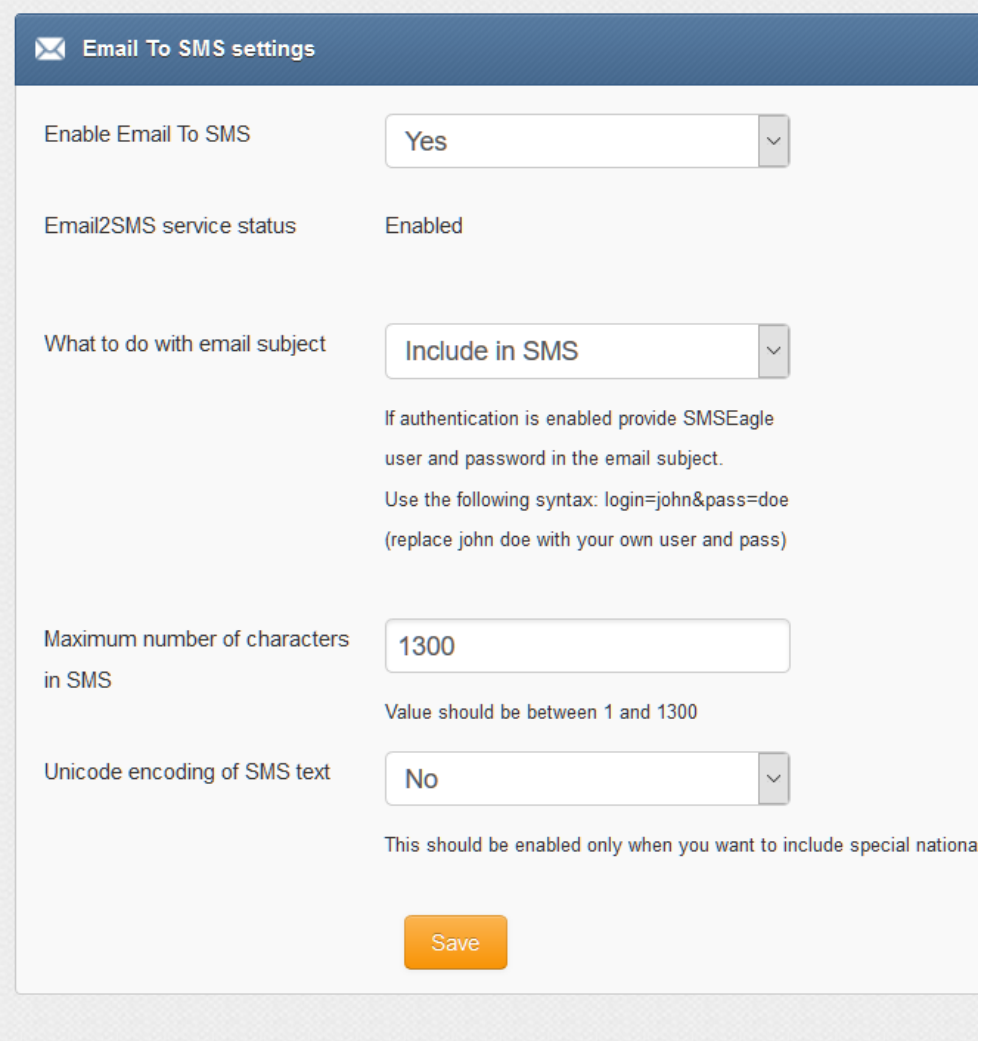
It is also possible to use Fully Qualified Domain Name in an email address sent to SMSEagle box (eg.: 123456789@mydomain.com). Please refer to our FAQ article: How do I configure Email2SMS plugin to accept FQDN email addresses for more details.

EMAIL SUBJECT - ADDITIONAL PARAMETERS (OPTIONAL)

It is possible to set additional flags for single converted message using email subject. Currently the following flags are available:

- date - date and time in format YYYYmmDDHHMM (YYYY – year, mm – month, DD – day, HH – hour, MM – minute). If this parameter is not null SMS will be scheduled for sending at the given date and time
- modem_no - sets sending modem number (available only for multimodem devices)

If you send email with subject containing FLAG=VALUE the flag will be set for this particular email2SMS message.
Example 1: email message with subject containing **modem_no=2** will be converted to SMS message and sent via modem number 2.
Example 2: email message with subject containing **date=201801010005&modem_no=2** will be converted to SMS message and sent on 2018-01-01 00:05 via modem number 2.



Screenshot from Email to SMS settings

- if you want to use the plugin, set 'Email2SMS active' to 'Yes'
- if you want to include a subject of an email in SMS message, set 'What to do with email subject' setting to 'Include in SMS'. The email subject will be appended at the beginning of SMS message
- if you want to use user authentication, set 'What to do with email subject' setting to 'Use for authentication'. If user authentication is enabled, provide in a subject of an email your login and password in the following form: login=john&pass=doe
- if you want to include only a subject of an email in SMS message, set 'What to do with email subject' setting to 'Send only subject without email body'. Only the email subject will inserted in SMS message
- the text of an email will be cropped to the value 'Maximum number of characters'. Maximum allowed length of SMS message is 1300 characters
- if you want to include in SMS message special national characters (like ąääöß 我) set "Unicode encoding of SMS text" to 'Yes'

Email to SMS Poller

Email2SMS Poller is an alternative for Email2SMS plugin for converting emails to SMS messages. This plugin should be used when you need to fetch emails from an existing mailbox on your mail server. The Email2SMS Poller plugin connects to a configured email account and polls it in specified periods of time for new emails. Once a new email is received, it is automatically converted to an SMS message.

The plugin supports POP3 and IMAP accounts.

To send an SMS using Email2SMS Poller you have to send an email to a specified email account, with the email subject containing a mobile number (or multiple phone numbers separated with comma) or phonebook contact/group name.

BASIC EXAMPLE

For example, such email message:

TO: smseagle@mycompany.com
FROM: john.doe@mycompany.com
SUBJECT: +48333444555
BODY: Hello world!

In this case SMSEagle gateway will fetch an incoming email from smseagle@mycompany.com account and send it's body as SMS message to +48333444555 mobile number.

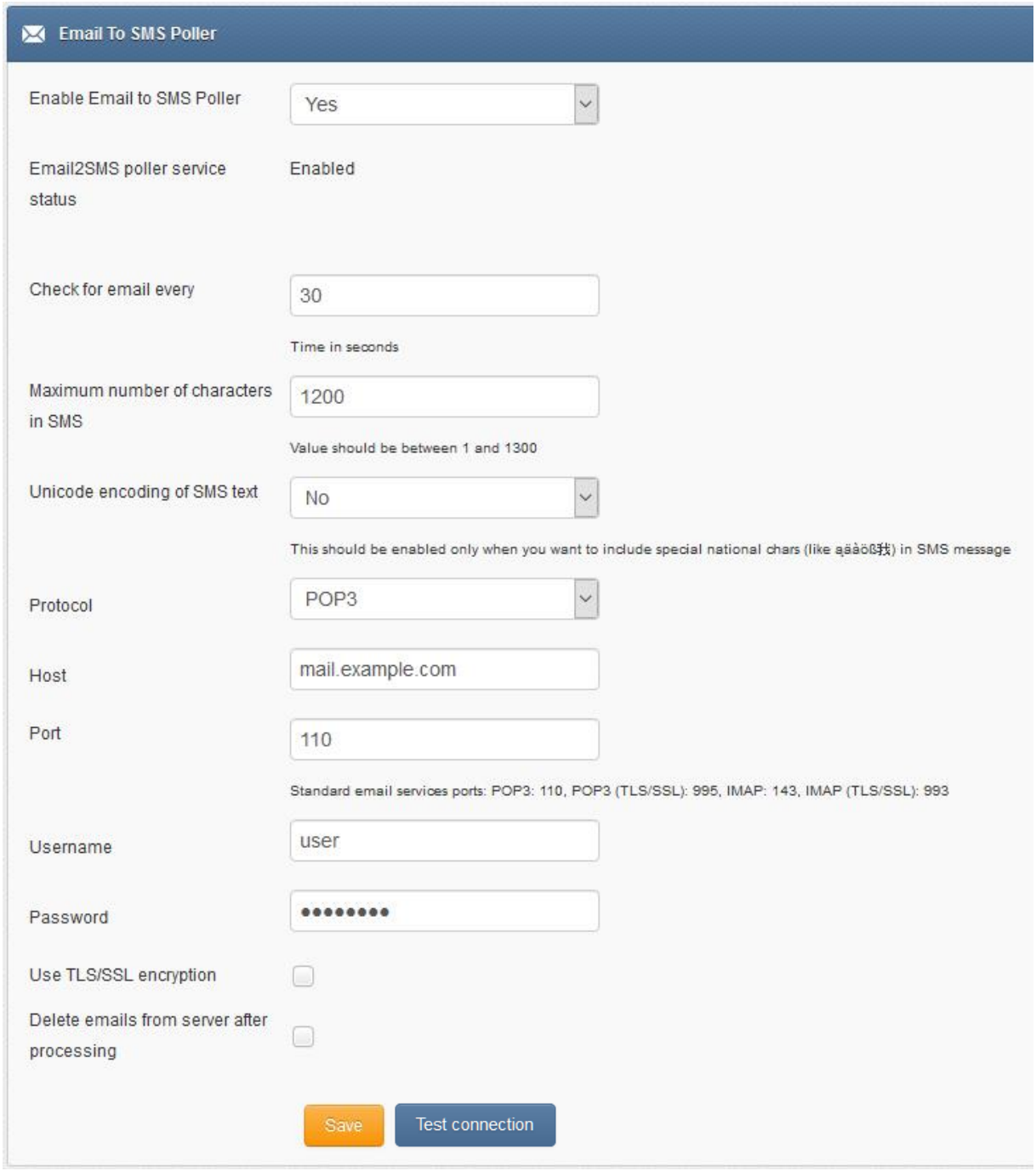
SEND TO USERNAME/GROUP

If you want to send SMS to a contact or group from SMSEagle phonebook, put the contact/group name in SUBJECT field.

Notice:

Messages that are processed by Email2SMS Poller (but not deleted) are marked in the mailbox as read. Software is based on flagging messages- Read/Unread. Marking a read message in the mailbox as unread will result in being processed again by Email2SMS Poller. We suggest using a separate email account to avoid situation with resending the same message (marking unread already processed read message).

PLUGIN CONFIGURATION



Screenshot from Email to SMS Poller

- if you want to use the plugin, set 'Enable Email2SMS Poller' to 'Yes'
- Set email fetching interval (in seconds)
- the text of an email will be cropped to the value 'Maximum number of characters'. Maximum allowed length of SMS message is 1300 characters.
- If you want to include special national characters, enable "Unicode encoding of SMS text"
- Choose protocol from IMAP or POP3
- Provide mailbox configuration (host, port, user, password, encryption settings)

- If you want to delete emails from the mailbox after they are fetched by Email2SMS Poller, please mark "Delete emails from server after processing"

SMS to Email plugin

SMS to Email plugin allows you to forward incoming SMS messages to email address.

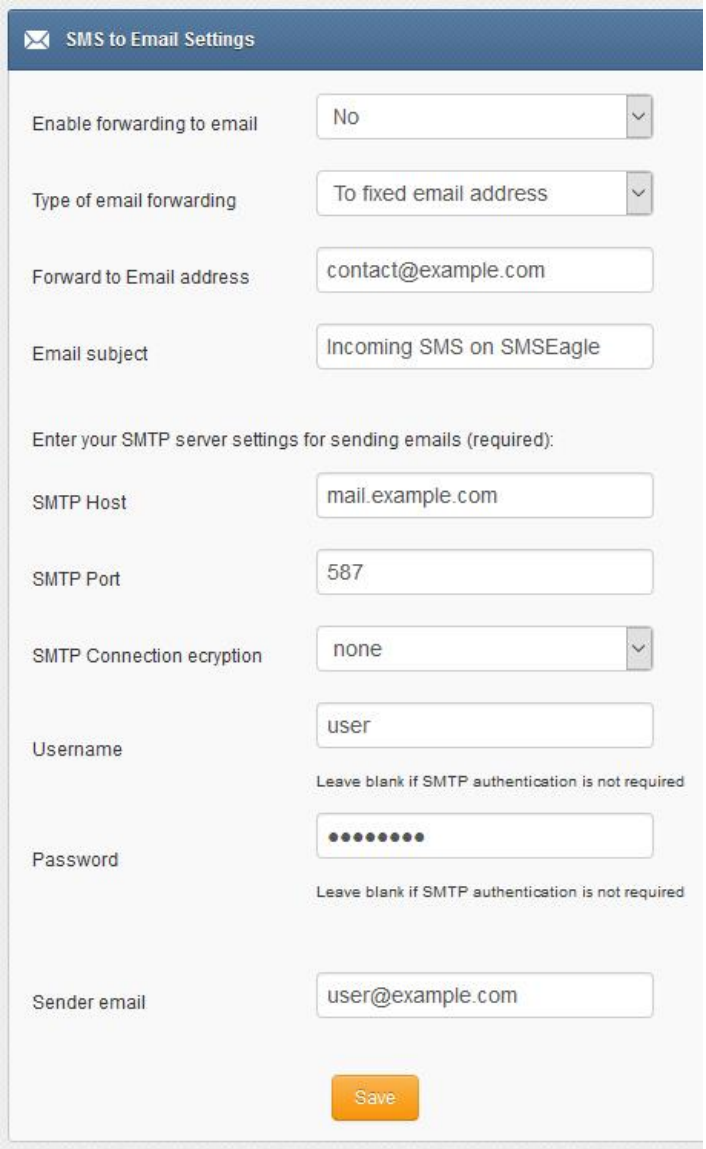
The plugin can be used in two modes:

a. forwarding of incoming SMS to email of last sender (so called **Two-way Email2SMS & SMS2Email**)
In this mode, when SMSEagle receives incoming SMS, it checks if earlier anyone was sending SMS to the number from incoming SMS using Emai2SMS. If last sender is found, the incoming SMS is forwarded to the email address of last sender. If no last sender is found, then the incoming message is forwarded to a default email address given in plugin settings.

b. It forwards all the incoming messages to one fixed email address.
In this mode all incoming SMS messages are forwarded to always the same email address.

Plugin uses an external SMTP server for sending emails.

PLUGIN CONFIGURATION



Screenshot from SMS to Email settings

- if you want to use the plugin, set 'Enable forwarding to email' to 'Yes'
- choose a type of email forwarding: "To email of last sending user" (so called "Two-way Email2SMS & SMS&Email") or "To fixed email address"
- enter an email subject
- enter SMTP configuration for your SMTP server that will be used for sending emails

EMAIL TEXT FROM PLUGIN

Email body from SMS To Email plugin contains:

- phone number from incoming SMS (and phonebook contact name if found)
- Date, time when SMS is received
- SMS message

Example email text:

From: +483334455 (John Doe)

Received: 2017-06-01 14:38:12

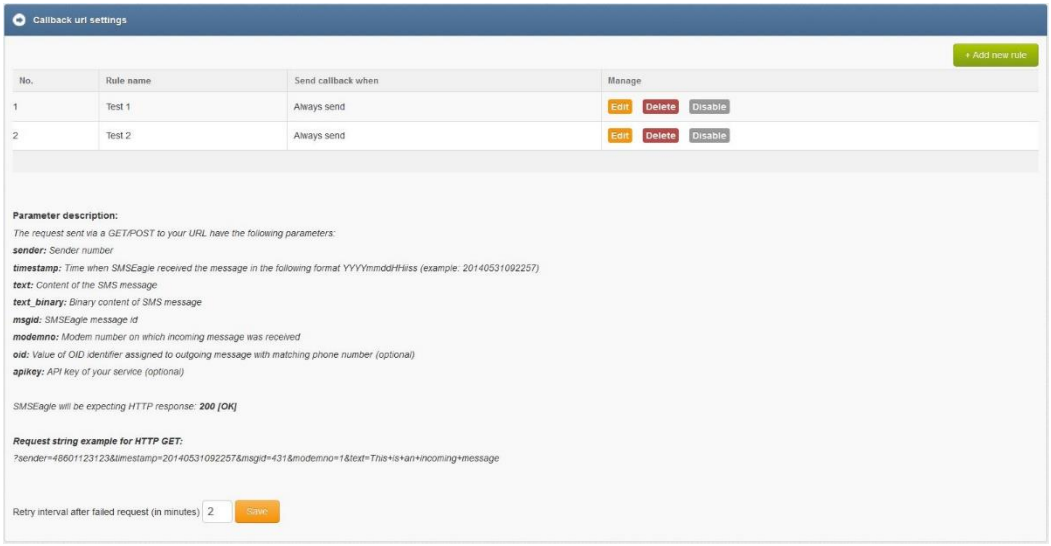
Message: My SMS message

Callback URL plugin

Callback URL plugin allows you to forward incoming SMS message to a defined URL address. If the plugin is enabled, on each incoming SMS message SMSEagle will trigger HTTP(S) request to a defined URL. HTTP(S) request can be of type GET or POST.

PLUGIN CONFIGURATION

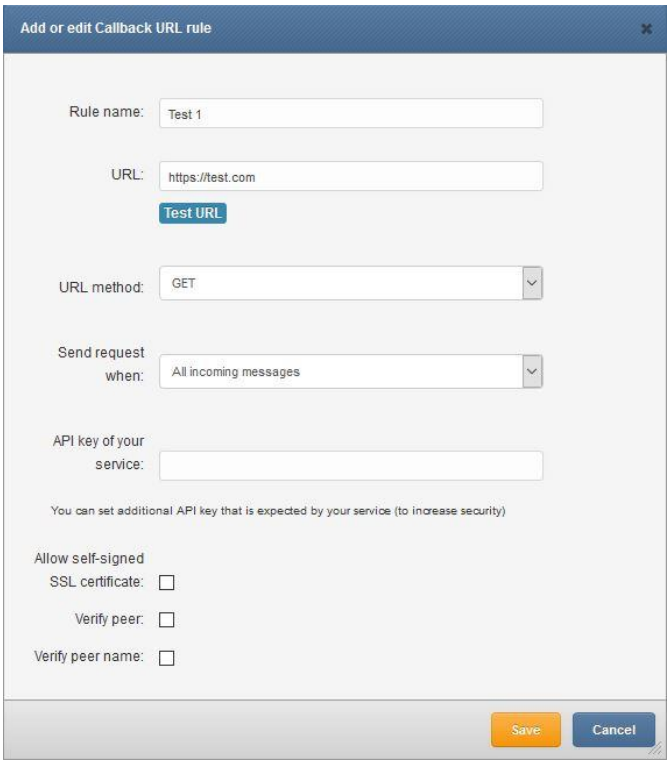
Plugin "Callback URL" allows to add unlimited number of rules. Each rule can be enabled or disabled by user.



Screenshot from Callback URL settings

For each new rule user has to fill in the requested fields:

- 'URL' field defines remote address of your callback script
- 'Test URL' button allows to test whether your Callback URL configuration is correct. SMSEagle will make a callback request with test parameters and will verify the response of remote server
- 'URL method' allows to choose whether callback to your URL is done with HTTP(S) GET or POST method
- "Send request when" defines if the request is always sent, sent only when SMS sender belongs to a given contact/group or only when incoming message contains a given character string
- Optionally you can define "API key of your service" value. This will be passed to your callback URL in parameter 'apikey'. If you leave the field blank, 'apikey' parameter will not be passed to your callback URL
- User may also choose whether to enable support of self-signed SSL certificate



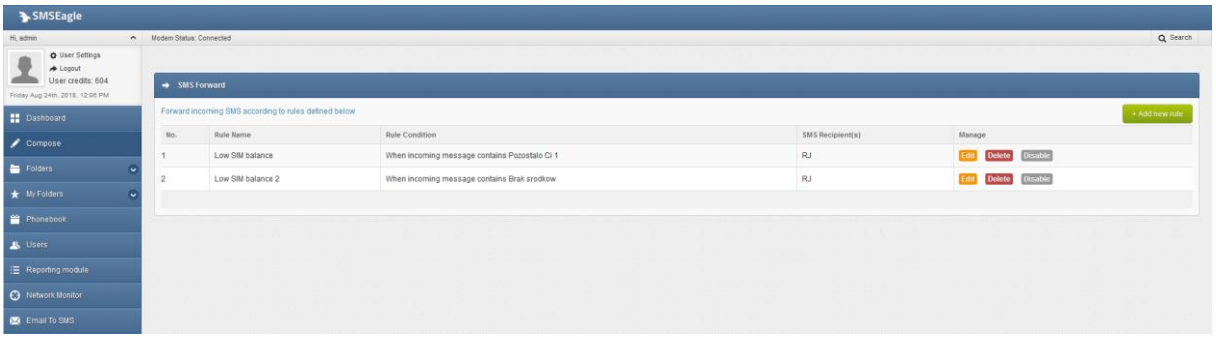
After sending HTTP(S) GET/POST request to your callback URL, SMSEagle will be expecting HTTP response: 200 [OK]. If other or no response is received from your callback URL, SMSEagle will keep retrying every X minutes for 24 hours. Retry interval can be set in main plugin Window:

SMS Forward

The plugin "SMS forward" allows to forward incoming SMS messages to one/may recipients according to defined rules.

PLUGIN CONFIGURATION

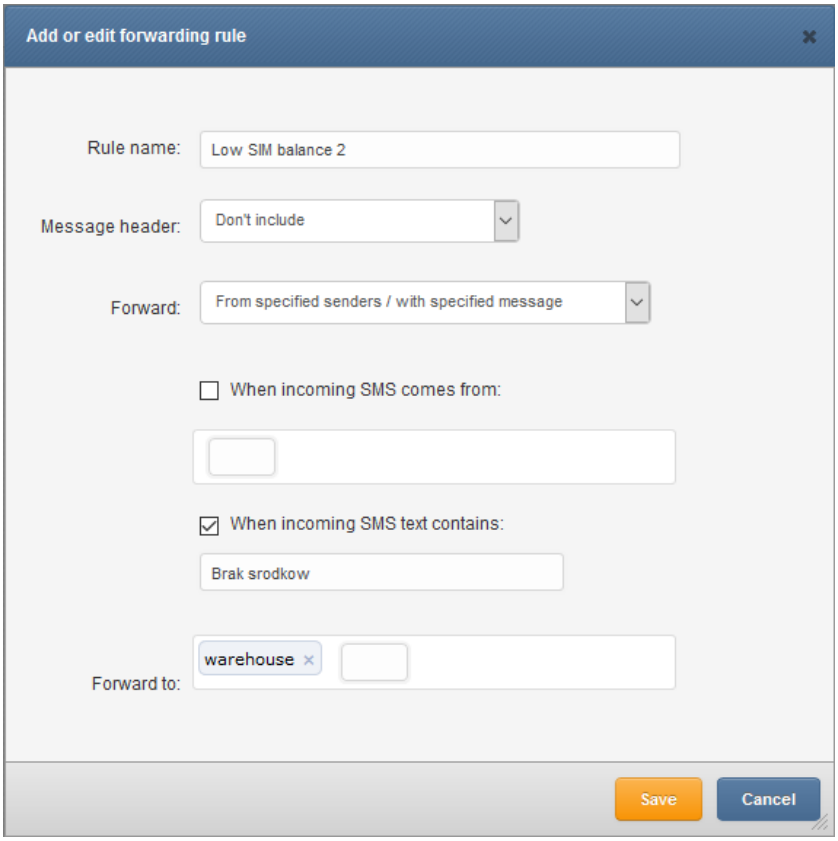
Plugin "SMS Forward" allows to add many forwarding rules. Each rule can be enabled or disabled by user.



Screenshot from plugin main window

For each rule user can define:

- When incoming SMS should be forwarded (Rule type) and to what number(s) the message should be forwarded (SMS Recipient).
- Whether or not include in SMS a sender number from which original SMS came from.
- When defining a rule user can choose SMS recipient (who gets the forwarded SMS). It can be either phone number or name of group from phonebook.
- User may define many forwarding rules in the plugin.
- Each rule is processed independently.
- There is a possibility to enable/disable each rule.



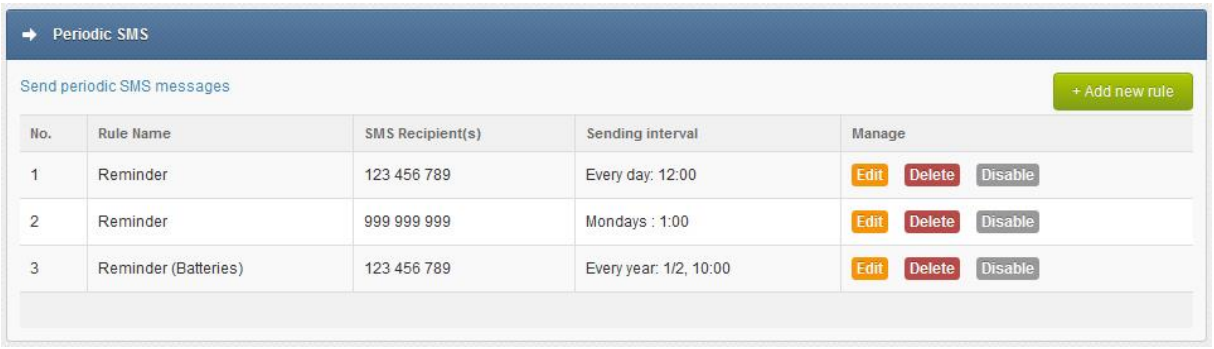
Screenshot form "Add/edit forwarding rule"

Periodic SMS

The plugin "Periodic SMS" allows to send SMS messages or USSD codes at a desired time interval. User may define many sending rules, and each rule will be processed independently.

PLUGIN CONFIGURATION

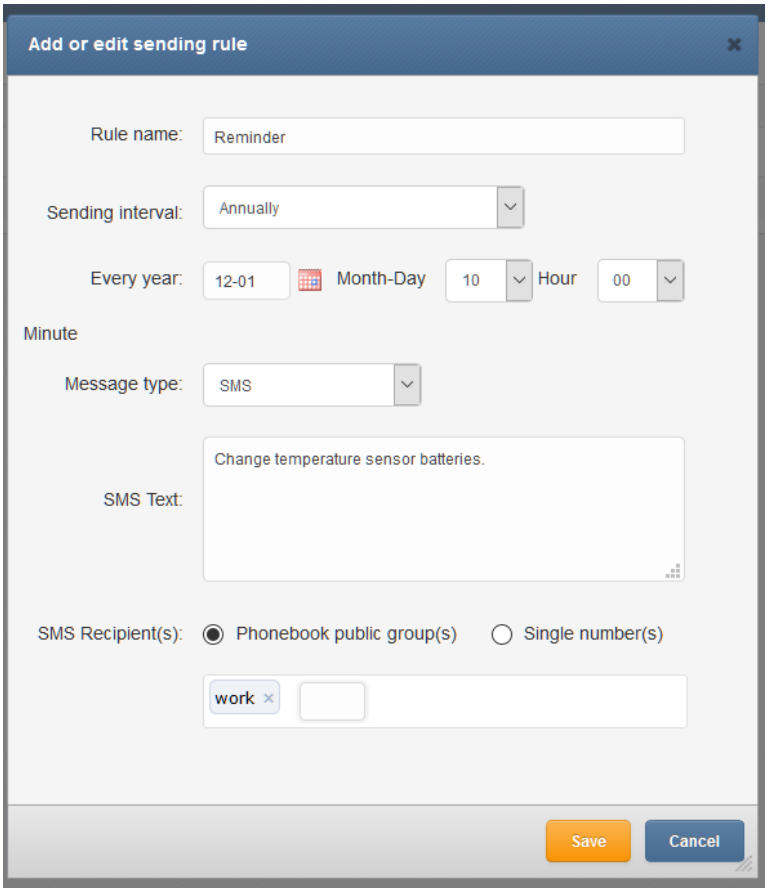
Plugin "Periodic SMS" allows to add many sending rules. Each rule can be enabled or disabled by user.



Screenshot from main plugin window

For each rule the user can define:

- The rule name
- Sending interval (Hourly, Daily, Weekly, Monthly or Annually)
- Message type (SMS, USSD Code)
- The content of the SMS text
- The recipients (phone number(s) separated with comma or group(s) from phonebook)



Screenshot from "Add new rule" window

Digital input/output

The NXS- family of SMSEagle devices is equipped with digital inputs (DI) and digital outputs (DO). The digital inputs can be used to receive signals from outside sensors or devices and automatically trigger sending of SMS message based on input state. On the other hand the digital outputs may be used to activate external devices connected to the outputs when certain SMS messages are received by SMSEagle.

Number of available DI/DO ports depends on hardware revision:

Port type	Hardware Rev.3	Hardware Rev.2, Rev.1
DI	4	2
DO	4	2

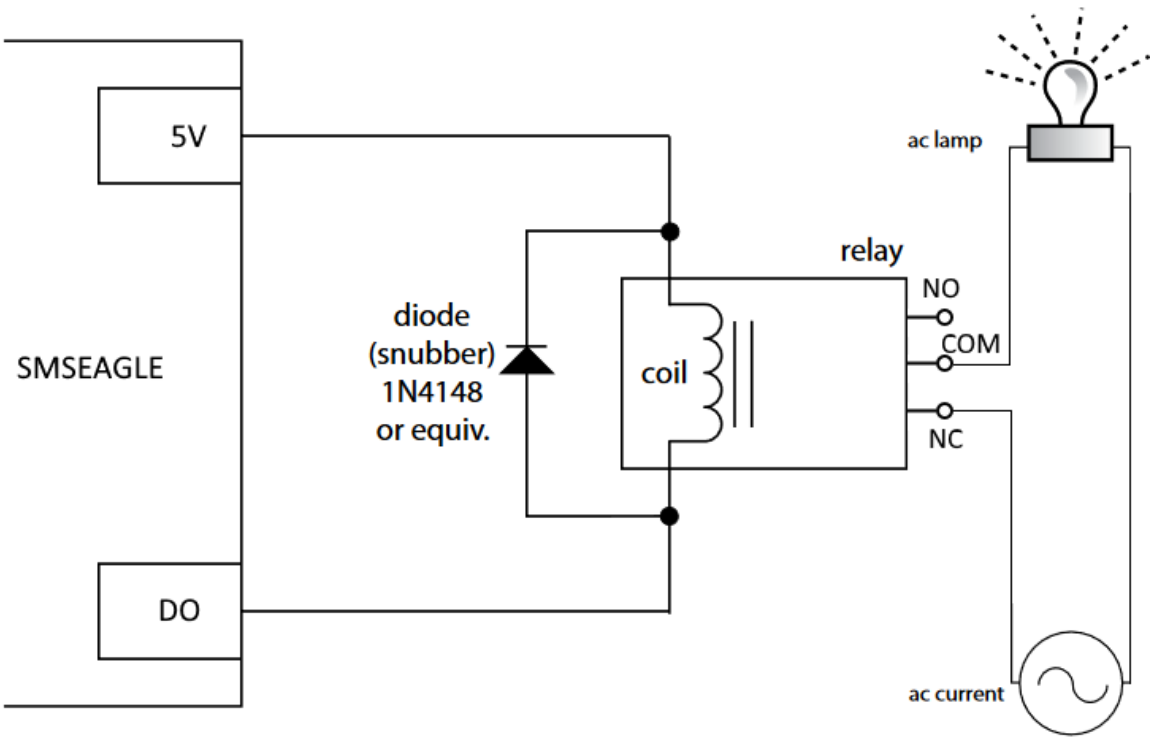
The logical states of inputs and outputs of SMSEagle NXS-family of devices are represented by the following states:

Logical level	Hardware Rev.3	Hardware Rev. 2, Rev.1
LOW (0)	+5 V	0 V
HIGH (1)	0 V	+5 V

USING DIGITAL OUTPUTS

From digital output, without side effects, you can directly control external circuit with a voltage not exceeding 5V and a current of max. 450mA.
But the safest form of control external circuits is using an intermediary relay with a protection diode. Usage example has been shown on the picture below.

Warning: *If you plan to use digital output with relay, it is recommended to connect a separate protection diode (a.k.a. "snubber") across the relay coil terminals as well. A diode snubber circuit can be added when ordering from some relay manufacturers. This diode is installed in the direction that does not ordinarily allow current to conduct. When current to the inductive load is rapidly interrupted, a large voltage spike is produced in the reverse direction as the inductor attempts to keep current flowing in the circuit. Placing the snubber diode in parallel with the inductive load for reversed-bias flow allows the current from the inductor to flow through the diode rather than through the switching element, dissipating the energy stored in the inductive load from its series resistance and instead goes through the much smaller resistance of the diode.*



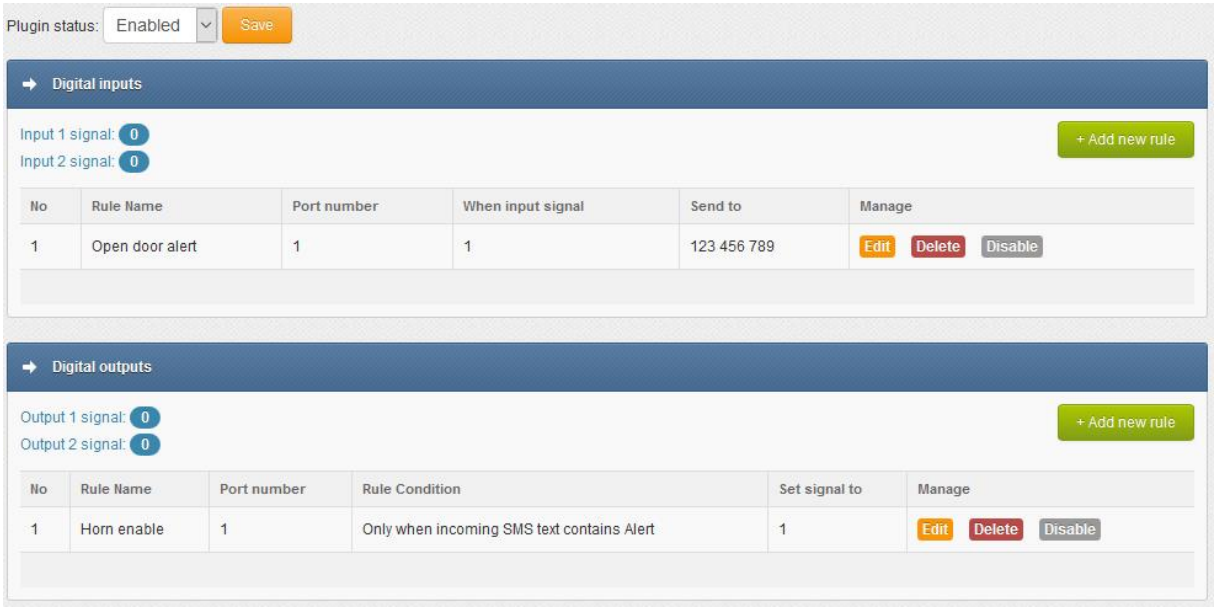
Digital Output - example of usage with external relay

USING DIGITAL INPUTS

Digital inputs (DI) of SMSEagle device are of type "pull-up resistor". This type of input is used to prevent accidental switching of digital circuits. In order to achieve it any unconnected inputs called "floating inputs" should be tied to a logic "1" or logic "0" as appropriate for the circuit. We do this by using what are commonly called Pull-up Resistors to give the input pin a defined default state, if there is nothing is connected to it. This can be observed with a voltage level of 3-5V on unconnected digital input.

DI/DO PLUGIN CONFIGURATION

The plugin "Digital input/output" allows you to define rules that control the behaviour of digital inputs/outputs on SMSEagle device. User may define several processing rules for both inputs and outputs.

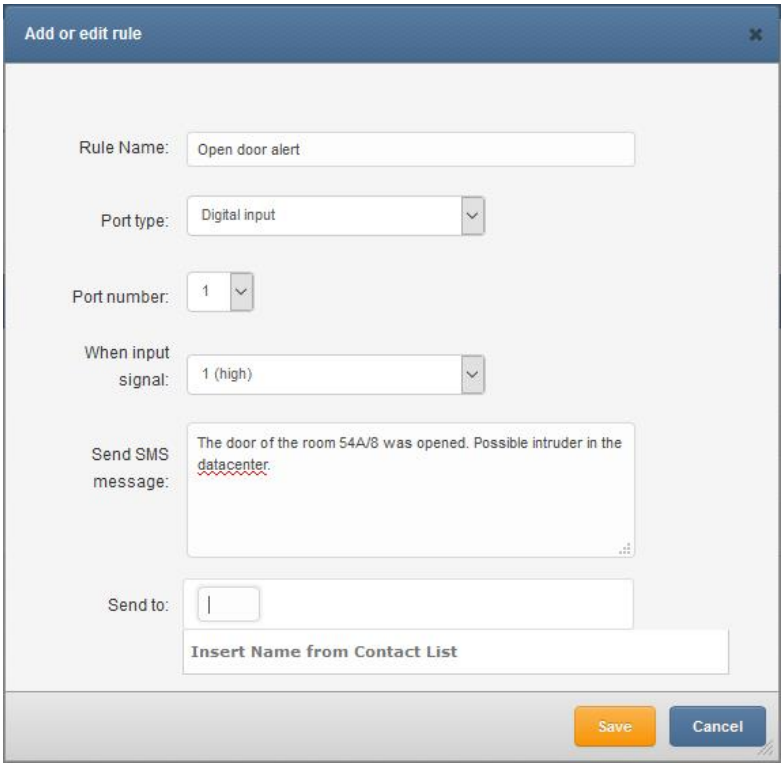


Screenshot from plugin window

DIGITAL INPUTS

For each processing rule for digital input user can define:

- The rule name
- Port number (1,2)
- State of input signal that will trigger sending of SMS message (field "When input signal")
- SMS text (field "Send SMS message")
- The recipient's name from phonebook

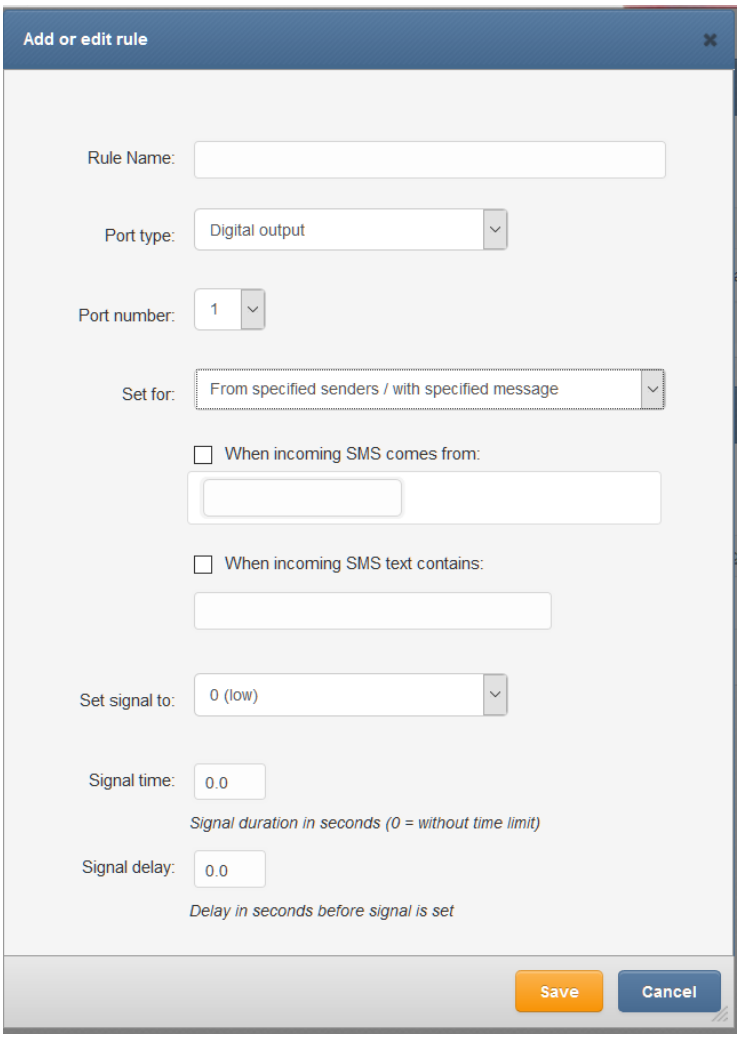


Screenshot from digital input "Add or edit rule" window

DIGITAL OUTPUTS

For each processing rule for digital output user can define:

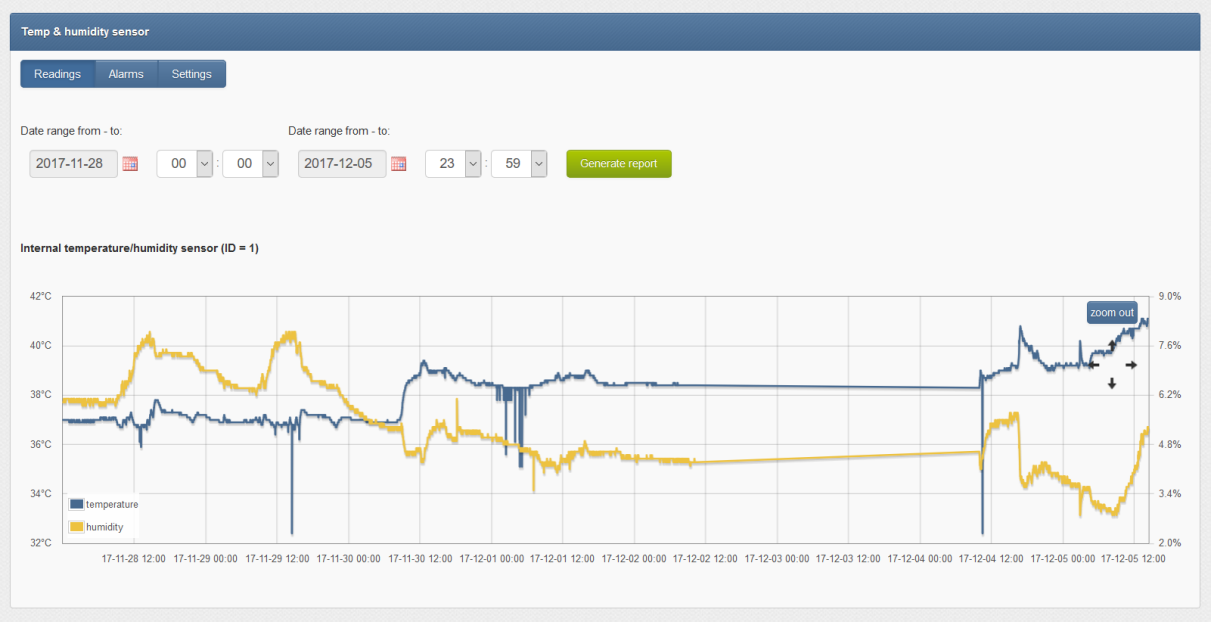
- The rule name
- Port number (1,2)
- On what condition digital output should be set (all incoming messages, when incoming SMS comes from specified contact in phonebook or when incoming SMS text contains given value)
- State of output signal that will be triggered by incoming SMS message
- Output signal duration in seconds (0 = without time limit)
- Output signal delay before signal is set



Screenshot from digital output "Add or edit rule" window

Temperature & humidity sensor

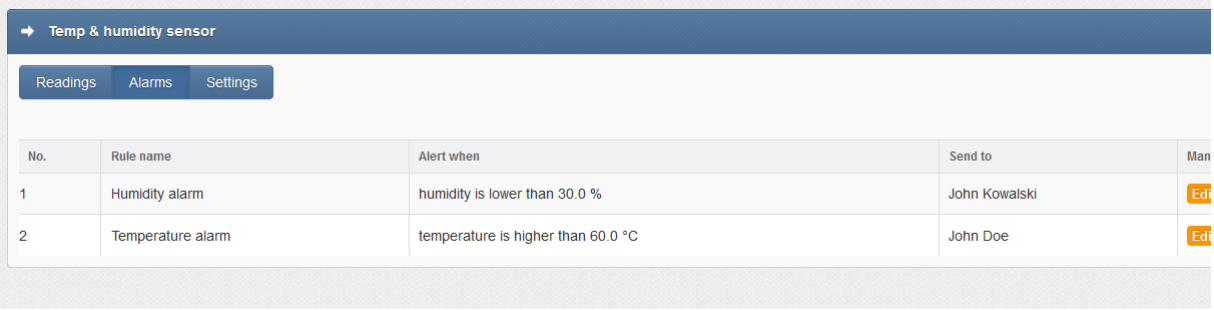
The NXS-family of SMSEagle devices is equipped with internal temperature and humidity sensor. The DHT22 sensor allows to measure temperature with ±0.5°C accuracy and humidity with ±2% RH accuracy. The measured temperature and humidity values can be displayed in web-gui of SMSEagle and used to trigger SMS message to single/many recipients.



Screenshot from plugin main window

PLUGIN CONFIGURATION - ALARMS

Tab "Alarms" allows to define triggering rules for SMS alarms for temperature and humidity. User may define several processing rules.

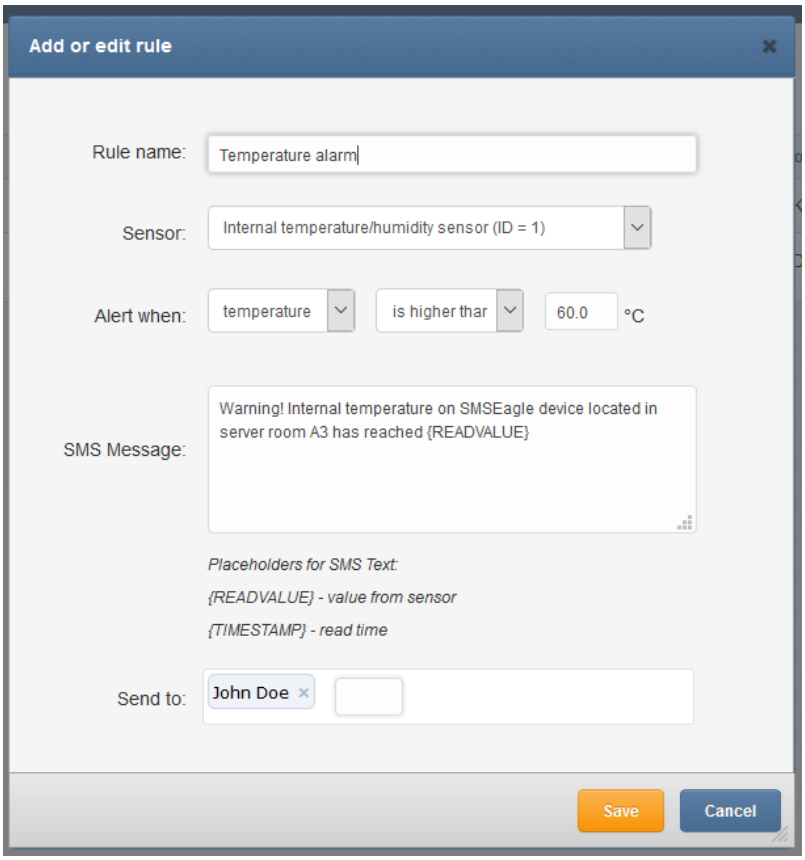


Screenshot from "Alarms" window

For each processing rule for digital output user can define:

- The rule name
- Sensor (currently only 1 sensor is available)
- On what condition SMS alarm should be sent (temperature/humidity is higher/lower than given value)
- SMS text

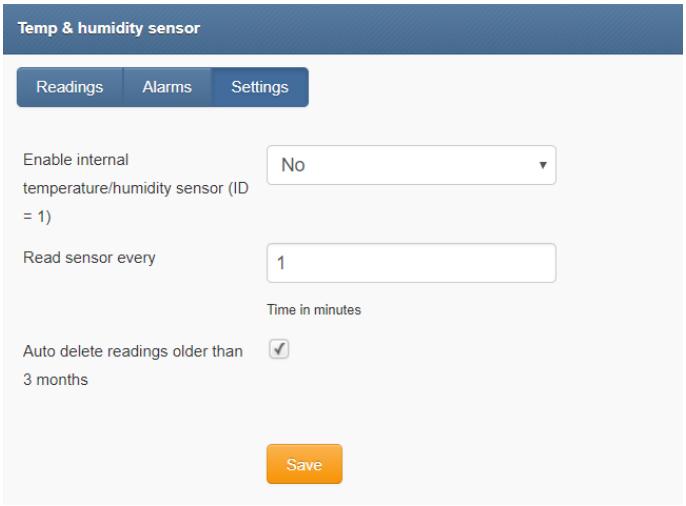
- SMS recipient: contact name or group name from Phonebook



Screenshot from "Add or edit rule" window

PLUGIN CONFIGURATION - SETTINGS

Tab "Settings" allows to control sensor settings. User may enable/disable sensor and set sensor reading period (in minutes).



Screenshot from "Settings" window

READING TEMP/HUMIDITY VIA SNMP PROTOCOL

Current temperature and humidity values from internal sensor can be also read via SNMP protocol. See chapter "**SNMP agent**" for detailed description.

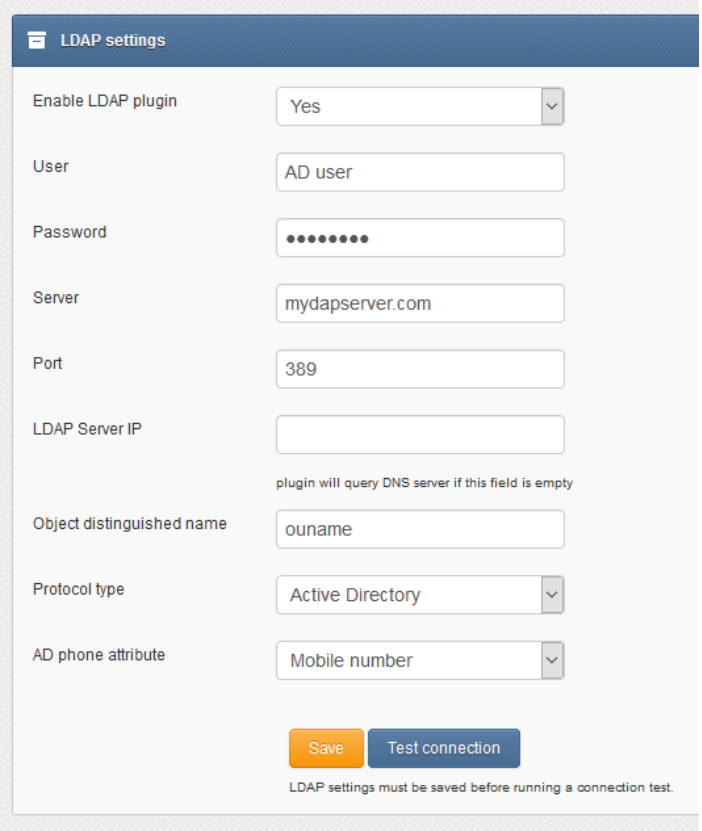
LDAP plugin

The LDAP plugin allows to access Active Directory (hereinafter referred to as "AD") and read contacts and groups in SMSEagle web-GUI. The plugin can work with either Active Directory or OpenLDAP protocol type.

PLUGIN CONFIGURATION

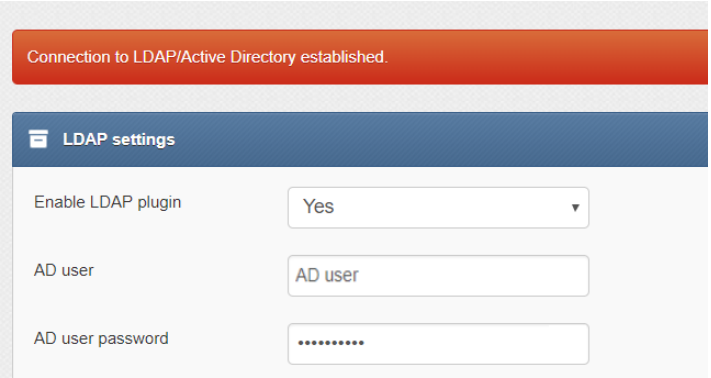
Choose "LDAP" from left side menu in SMSEagle web-GUI to access plugin configuration. After enabling the plugin, user needs to fill in all requested fields according to AD settings.

In the "AD phone attribute" field user needs to choose which phone attribute from AD will be shown in SMSEagle web-gui.



Screenshot from "LDAP settings" window

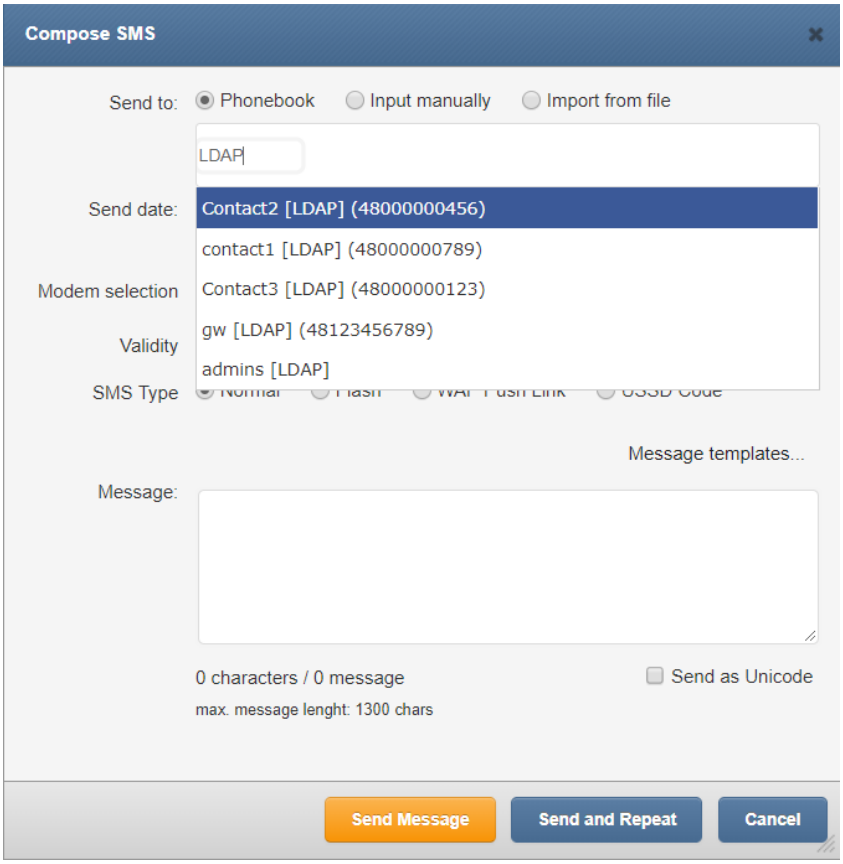
Click "Save" and "Test connection" to make sure that SMSEagle is connected with AD server.



Screenshot showing successful connection to AD server.

With connection established, AD contacts/groups suggestions are shown in selected modules of web-gui. Start typing any part of contact/group name or number to show AD contact suggestions.

Type "LDAP" (case sensitive) to check all contacts listed in AD directory.



Screenshot from "Compose" module with LDAP connection enabled

LDAP directory suggestions can be used in "Compose", "Autoreply" and "Digital input/output" modules.

SMSEAGLE API

SMSEagle has powerful built-in REST API functionalities. API is dedicated for integration of SMSEagle with any external system or application. Below you will find a detailed description of API functionalities.

Please note, that SMSEagle API supports both HTTP and HTTPS protocol.

For your convenience sample usage of SMSEagle's API in most popular programming languages are available at: http://www.smseagle.eu/code-samples/

1. Send SMS: HTTP GET method

HTTP GET METHOD:

```
https://url-of-smseagle/http_api/send_sms
```

PARAMETERS:

Parameter	Description
login	your user to login to SMSEagle
pass	your password to login to SMSEagle
to	recipient telephone number (or numbers separated with comma)
message	your SMS message
date	*(optional parameter)* date and time in format YYYYmmDDHHMM (YYYY – year, mm – month, DD – day, HH – hour, MM – minute). If this parameter is not null SMS will be scheduled for sending at the given date and time
highpriority	*(optional parameter)* 0 = normal priority, 1 = SMS will have higher priority in Outbox queue when processed by GSM-modem
unicode	*(optional parameter)* 0 = no Unicode encoding (default), 1 = SMS will be encoded using Unicode (you can send national characters)
flash	*(optional parameter)* 0 = normal SMS (default), 1 = SMS will be sent as flash message
oid	*(optional parameter)* This attribute specifies a user-defined unique ID that is assigned to a message-recipient pair. The oid is a varchar(36) that uniquely identifies a message sent to a particular recipient (particular phone number). The value of this ID allows client applications to match incoming reply messages to outgoing messages. If no oid was assigned to the outgoing message this attribute will have a value of null for incoming message. The oid value will be automatically assigned to incoming message only if incoming phone number matches exactly the phone number (including country code) from outgoing message.
modem_no	*(optional parameter)* sending modem number (only for multimodem devices)

responsetype	*(optional parameter)* text = format response as text (default), xml = format response as XML object
validity	*(optional parameter)* How long will be the message valid. If message expires before it is received by a phone, the message will be discarded by cellular network. Acceptable parameter values: 5m, 10m, 30m, 1h, 2h, 4h, 12h, 1d, 2d, 5d, 1w, 2w, 4w, max. Default value: max

EXAMPLES:

```
https://url-of-smseagle/http_api/send_sms?
login=john&pass=doe&to=1234567&message=mymessage

https://url-of-smseagle/http_api/send_sms?
login=john&pass=doe&to=1234567&message=mymessage&date=201401152132

https://url-of-smseagle/http_api/send_sms?
login=john&pass=doe&to=1234567&message=mymessage&highpriority=1
```

RESPONSE:

Response: **OK; ID=[ID of message in outbox]**
Sample response: OK; ID=297

Response (when wrong logindata): **Invalid login or password**
Response (when wrong parameters): **Wrong parameters**

RESPONSE (XML):

Response:

```
<xml>
  <message_id>[ID of message in outbox]</message_id>
  <status>ok</status>
</xml>
```

Sample response:

```
<xml>
  <message_id>297</message_id>
  <status>ok</status>
</xml>
```

Response (when wrong logindata):

```
<xml>
  <error_text>Invalid login or password</error_text>
  <status>error</status>
</xml>
```

Response (when wrong parameters):

```
<xml>
  <error_text>Wrong parameters</error_text>
  <status>error</status>
</xml>
```

Important notice: You must encode URL before sending it to gateway if you use national characters in SMS message text.

2. Send SMS: JSONRPC method

HTTP POST METHOD:

```
https://url-of-smseagle/jsonrpc/sms
```

PARAMETERS:

Parameter	Description
login	your user to login to SMSEagle
pass	your password to login to SMSEagle
to	recipient telephone number (or numbers separated with comma)
message	your SMS message
date	*(optional parameter)* date and time in format YYYYmmDDHHMM (YYYY – year, mm – month, DD – day, HH – hour, MM – minute). If this parameter is not null SMS will be scheduled for sending at the given date and time
highpriority	*(optional parameter)* 0 = normal priority, 1 = SMS will have higher priority in Outbox queue when processed by GSM-modem
unicode	*(optional parameter)* 0 = no Unicode encoding (default), 1 = SMS will be encoded using Unicode (you can send national characters)
flash	(optional parameter) 0 = normal SMS (default), 1 = SMS will be sent as flash message
oid	*(optional parameter)* This attribute specifies a user-defined unique ID that is assigned to a message-recipient pair. The oid is a varchar(36) that uniquely identifies a message sent to a particular recipient (particular phone number). The value of this ID allows client applications to match incoming reply messages to outgoing messages. If no oid was assigned to the outgoing message this attribute will have a value of null for incoming message. The oid value will be automatically assigned to incoming message only if incoming phone number matches exactly the phone number (including country code) from outgoing message.
modem_no	*(optional parameter)* sending modem number (only for multimodem devices)

responsetype	*(optional parameter)* simple = format response as simple object with one result field (default), extended = format response as extended JSON object
validity	*(optional parameter)* How long will be the message valid. If message expires before it is received by a phone, the message will be discarded by cellular network. Acceptable parameter values: 5m, 10m, 30m, 1h, 2h, 4h, 12h, 1d, 2d, 5d, 1w, 2w, 4w, max. Default value: max

SAMPLE BODY:

```
{"method":"sms.send_sms",
"params":{"login":"john","pass":"doe","to":"481234567”,"message":"My
message"}}
or
{"method":"sms.send_sms",
"params":{"login":"john","pass":"doe","to":"481234567”,"message":"My
message","date":"201401152132”}}
or
{"method":"sms.send_sms",
"params":{"login":"john","pass":"doe","to":"481234567”,"message":"My
message","highpriority":"1”}}
```

RESPONSE:

Response: `{"result": "OK; ID=[ID of message in outbox]"}`

Sample response: `{"result": "OK; ID=297"}`

Response (when wrong logindata): `{"result": "Invalid login or password"}`

Response (when wrong parameters): `{"result": "Wrong parameters"}`

RESPONSE (EXTENDED):

Response:

```
{"result": {"message_id":"[ID of message in outbox]","status":"ok"}}
```

Sample response: `{"result": {"message_id":"748","status":"ok"}}`

Sample response when parameter “to” contains multiple phone numbers:

```
{"result":[{"message_id":"3643","status":"ok"},{"message_id":"3644","status
":"ok"},{"message_id":"3645","status":"ok"},{"message_id":"3646","status":"
ok"},{"message_id":"3647","status":"ok"}]}
```

Response (when wrong logindata):

```
{"result": {"error_text":"Invalid login or password","status":"error"}}
```

Response (when wrong parameters):

```
{"result": {"error_text":"Wrong parameters","status":"error"}}
```

3. Send SMS to a group: HTTP GET method

HTTP GET METHOD:

```
https://url-of-smseagle/http_api/send_togroup
```

Parameter	Description
login	your user to login to SMSEagle
pass	your password to login to SMSEagle
groupname	group name defined in your SMSEagle Phonebook. The group must be defined as Public
message	your SMS message
date	*(optional parameter)* date and time in format YYYYmmDDHHMM (YYYY – year, mm – month, DD – day, HH – hour, MM – minute). If this parameter is not null SMS will be scheduled for sending at the given date and time
highpriority	*(optional parameter)* 0 = normal priority, 1 = SMS will have higher priority in Outbox queue when processed by GSM-modem
unicode	*(optional parameter)* 0 = no Unicode encoding (default), 1 = SMS will be encoded using Unicode (you can send national characters)
flash	*(optional parameter)* 0 = normal SMS (default), 1 = SMS will be sent as flash message
modem_no	*(optional parameter)* sending modem number (only for multimodem devices)
responsetype	*(optional parameter)* text = format response as text (default), xml = format response as XML object
validity	*(optional parameter)* How long will be the message valid. If message expires before it is received by a phone, the message will be discarded by cellular network. Acceptable parameter values: 5m, 10m, 30m, 1h, 2h, 4h, 12h, 1d, 2d, 5d, 1w, 2w, 4w, max. Default value: max

EXAMPLES:

```
https://url-of-smseagle/http_api/send_togroup?
login=john&pass=doe&groupname=admins&message=mymessage
```

```
https://url-of-smseagle/http_api/send_togroup?
login=john&pass=doe&groupname=admins&message=mymessage&date=201401152132
```

```
https://url-of-smseagle/http_api/send_togroup?
login=john&pass=doe&groupname=admins&message=mymessage&highpriority=1
```

RESPONSE:

Response: **OK; ID=[ID of message in outbox]**

Sample response: OK; ID=297

Response (when wrong logindata): **Invalid login or password**

Response (when wrong parameters): **Wrong parameters**

RESPONSE (XML):

Response:

```
<xml>
  <message_id>[ID of message in outbox]</message_id>
  <status>ok</status>
</xml>
```

Sample response:

```
<xml>
  <message_id>297</message_id>
  <status>ok</status>
</xml>
```

Response (when wrong logindata):

```
<xml>
  <error_text>Invalid login or password</error_text>
  <status>error</status>
</xml>
```

Response (when wrong parameters):

```
<xml>
  <error_text>Wrong parameters</error_text>
  <status>error</status>
</xml>
```

4. Send SMS to a group: JSONRPC method

HTTP POST METHOD:

`https://url-of-smseagle/jsonrpc/sms`

Parameter	Description
login	your user to login to SMSEagle
pass	your password to login to SMSEagle
groupname	group name defined in your SMSEagle Phonebook. The group must be defined as Public
message	your SMS message
date	*(optional parameter)* date and time in format YYYYmmDDHHMM (YYYY – year, mm – month, DD – day, HH – hour, MM – minute). If this parameter is not null SMS will be scheduled for sending at the given date and time
highpriority	*(optional parameter)* 0 = normal priority, 1 = SMS will have higher priority in Outbox queue when processed by GSM-modem
unicode	*(optional parameter)* 0 = no Unicode encoding (default), 1 = SMS will be encoded using Unicode (you can send national characters)

flash	*(optional parameter)* 0 = normal SMS (default), 1 = SMS will be sent as flash message
modem_no	*(optional parameter)* sending modem number (only for multimodem devices)
responsetype	*(optional parameter)* simple = format response as simple object with one result field (default), extended = format response as extended JSON object
validity	*(optional parameter)* How long will be the message valid. If message expires before it is received by a phone, the message will be discarded by cellular network. Acceptable parameter values: 5m, 10m, 30m, 1h, 2h, 4h, 12h, 1d, 2d, 5d, 1w, 2w, 4w, max. Default value: max

EXAMPLES:

```
{"method":"sms.send_togroup",
"params":{"login":"john","pass":"doe","groupname":"admins","message":"mymes
sage"}}
or
{"method":"sms.send_togroup",
"params":{"login":"john","pass":"doe","groupname":"admins","message":"mymes
sage","date":"201401152132"}}
or
{"method":"sms.send_togroup",
"params":{"login":"john","pass":"doe","groupname":"admins","message":"mymes
sage","highpriority":"1"}}
```

RESPONSE:

Response: `{"result": "OK; ID=[ID of message in outbox]"}`

Sample response: `{"result": "OK; ID=[297]"}`

Response (when wrong logindata): `{"result": "Invalid login or password"}`

Response (when wrong parameters): `{"result": "Wrong parameters"}`

RESPONSE (EXTENDED):

Response:

```
{"result": {"message_id":"[ID of message in outbox]","status":"ok"}}
```

Sample response: `{"result": {"message_id":"748","status":"ok"}}`

Response (when wrong logindata):

```
{"result": {"error_text":"Invalid login or password","status":"error"}}
```

Response (when wrong parameters):

```
{"result": {"error_text":"Wrong parameters","status":"error"}}
```

5. Send SMS to contact: HTTP GET method

HTTP GET METHOD:

```
https://url-of-smseagle/http_api/send_tocontact
```

Parameter	Description
login	your user to login to SMSEagle
pass	your password to login to SMSEagle
contactname	contact name (or names separated by comma) defined in your SMSEagle Phonebook. Contacts must be defined as Public
message	your SMS message
date	*(optional parameter)* date and time in format YYYYmmDDHHMM (YYYY – year, mm – month, DD – day, HH – hour, MM – minute). If this parameter is not null SMS will be scheduled for sending at the given date and time
highpriority	*(optional parameter)* 0 = normal priority, 1 = SMS will have higher priority in Outbox queue when processed by GSM-modem
unicode	*(optional parameter)* 0 = no Unicode encoding (default), 1 = SMS will be encoded using Unicode (you can send national characters)
flash	*(optional parameter)* 0 = normal SMS (default), 1 = SMS will be sent as flash message
modem_no	*(optional parameter)* sending modem number (only for multimodem devices)
responsetype	*(optional parameter)* text = format response as text (default), xml = format response as XML object
validity	*(optional parameter)* How long will be the message valid. If message expires before it is received by a phone, the message will be discarded by cellular network. Acceptable parameter values: 5m, 10m, 30m, 1h, 2h, 4h, 12h, 1d, 2d, 5d, 1w, 2w, 4w, max. Default value: max

EXAMPLES:

```
https://url-of-smseagle/http_api/send_tocontact?
login=john&pass=doe&contactname=johndoe&message=mymessage
```

```
https://url-of-smseagle/http_api/send_tocontact?
login=john&pass=doe&contactname=johndoe&message=mymessage&date=201401152132
```

```
https://url-of-smseagle/http_api/send_tocontact?
login=john&pass=doe&contactname=johndoe&message=mymessage&highpriority=1
```

RESPONSE:

Response: **OK; ID=[ID of message in outbox]**

Sample response: OK; ID=297

Response (when wrong logindata): **Invalid login or password**

Response (when contact doesn't exist): **Invalid contact name – [contact_name]**

Response (when wrong parameters): **Wrong parameters**

RESPONSE (XML):

Response:

```
<xml>
  <message_id>[ID of message in outbox]</message_id>
  <status>ok</status>
</xml>
```

Sample response:

```
<xml>
  <message_id>297</message_id>
  <status>ok</status>
</xml>
```

Response (when wrong logindata):

```
<xml>
  <error_text>Invalid login or password</error_text>
  <status>error</status>
</xml>
```

Response (when contact doesn't exist):

```
<xml>
  <error_text>Invalid contact name – [contact_name]</error_text>
  <status>error</status>
</xml>
```

Response (when wrong parameters):

```
<xml>
  <error_text>Wrong parameters</error_text>
  <status>error</status>
</xml>
```

6. Send SMS to contact: JSONRPC method

HTTP POST METHOD:

`https://url-of-smseagle/jsonrpc/sms`

Parameter	Description
login	your user to login to SMSEagle
pass	your password to login to SMSEagle

contactname	contact name defined in your SMSEagle Phonebook. The contact must be defined as Public
message	your SMS message
date	*(optional parameter)* date and time in format YYYYmmDDHHMM (YYYY – year, mm – month, DD – day, HH – hour, MM – minute). If this parameter is not null SMS will be scheduled for sending at the given date and time
highpriority	*(optional parameter)* 0 = normal priority, 1 = SMS will have higher priority in Outbox queue when processed by GSM-modem
unicode	*(optional parameter)* 0 = no Unicode encoding (default), 1 = SMS will be encoded using Unicode (you can send national characters)
flash	*(optional parameter)* 0 = normal SMS (default), 1 = SMS will be sent as flash message
modem_no	*(optional parameter)* sending modem number (only for multimodem devices)
responsetype	*(optional parameter)* simple = format response as simple object with one result field (default), extended = format response as extended JSON object
validity	*(optional parameter)* How long will be the message valid. If message expires before it is received by a phone, the message will be discarded by cellular network. Acceptable parameter values: 5m, 10m, 30m, 1h, 2h, 4h, 12h, 1d, 2d, 5d, 1w, 2w, 4w, max. Default value: max

EXAMPLES:

```
{"method":"sms.send_tocontact",
"params":{"login":"john","pass":"doe","contactname":"johndoe","message":"my
message"}}
or
{"method":"sms.send_tocontact",
"params":{"login":"john","pass":"doe","contactname":"johndoe","message":"my
message","date":"201401152132"}}
or
{"method":"sms.send_tocontact",
"params":{"login":"john","pass":"doe","contactname":"johndoe","message":"my
message","highpriority":"1"}}
```

RESPONSE:

Response: `{"result": "OK; ID=[ID of message in outbox]"}`

Sample response: `{"result": "OK; ID=[297]"}`

Response (when wrong logindata): `{"result": "Invalid login or password"}`

Response (when contact doesn't exist): `{"result": "Invalid contact name – contact_name]"}`

Response (when wrong parameters): `{"result": "Wrong parameters"}`

RESPONSE (EXTENDED):

Response:
```
{"result": {"message_id":"[ID of message in outbox]","status":"ok"}}
```

Sample response: `{"result": {"message_id":"748","status":"ok"}}`

Response (when wrong logindata):
```
{"result": {"error_text":"Invalid login or password","status":"error"}}
```

Response (when contact doesn't exist):
```
{"result": {"error_text":"Invalid contact name –
contact_name]","status":"error"}}
```

Response (when wrong parameters):
```
{"result": {"error_text":"Wrong parameters","status":"error"}}
```

7. Send USSD code: HTTP GET method

HTTP GET METHOD:

```
https://url-of-smseagle/http_api/send_ussd
```

Parameters:

Parameter	Description
login	your user to login to SMSEagle
pass	your password to login to SMSEagle
to	USSD code (urlencoded)
modem_no	*(optional parameter)* sending modem number (only for multimodem devices)
responsetype	*(optional parameter)* text = format response as text (default), xml = format response as XML object

EXAMPLES:

```
https://url-of-smseagle/http_api/send_ussd?
login=john&pass=doe&to=%2A101%23
```

RESPONSE:

Response: **OK; ID=[ID of message in outbox]**

Sample response: OK; ID=297

Response (when wrong logindata): **Invalid login or password**

Response (when wrong parameters): **Wrong parameters**

RESPONSE (XML):

Response:

```
<xml>
  <message_id>[ID of message in outbox]</message_id>
  <status>ok</status>
</xml>
```

Sample response:

```
<xml>
  <message_id>297</message_id>
  <status>ok</status>
</xml>
```

Response (when wrong logindata):

```
<xml>
  <error_text>Invalid login or password</error_text>
  <status>error</status>
</xml>
```

Response (when wrong parameters):

```
<xml>
  <error_text>Wrong parameters</error_text>
  <status>error</status>
</xml>
```

Important notice: You must urlencode USSD code before sending it to gateway. Response from GSM/3G network will show up in device Inbox folder.

8. Send USSD code: JSONRPC method

HTTP POST METHOD:

```
https://url-of-smseagle/jsonrpc/sms
```

Parameters:

Parameter	Description
login	your user to login to SMSEagle
pass	your password to login to SMSEagle
to	USSD code
modem_no	*(optional parameter)* sending modem number (only for multimodem devices)
responsetype	*(optional parameter)* text = format response as text (default), xml = format response as XML object

SAMPLE BODY:

```
{"method":"sms.send_ussd",
"params":{"login":"john","pass":"doe","to":"*101#"}}
```

RESPONSE:

Response: `{"result": "OK; ID=[ID of message in outbox]"}`

Sample response: `{"result": "OK; ID=297"}`

Response (when wrong logindata): `{"result": "Invalid login or password"}`

Response (when wrong parameters): `{"result": "Wrong parameters"}`

RESPONSE (EXTENDED):

Response:

```
{"result": {"message_id":"[ID of message in outbox]","status":"ok"}}
```

Sample response: `{"result": {"message_id":"748","status":"ok"}}`

Response (when wrong logindata):

```
{"result": {"error_text":"Invalid login or password","status":"error"}}
```

Response (when wrong parameters):

```
{"result": {"error_text":"Wrong parameters","status":"error"}}
```

Important notice: Response from GSM/3G network will show up in device Inbox folder.

9. Send binary SMS: HTTP GET method

HTTP GET METHOD:

```
https://url-of-smseagle/http_api/send_binary_sms
```

PARAMETERS:

Parameter	Description
login	your user to login to SMSEagle
pass	your password to login to SMSEagle
to	recipient telephone number (or numbers separated with comma)
udh	*(optional parameter)* UDH header for the message (in hex format)
data	binary message (in hex format)
class	*(optional parameter)* message class
modem_no	*(optional parameter)* sending modem number (only for multimodem devices)
responsetype	*(optional parameter)* text = format response as text (default), xml = format response as XML object

EXAMPLES:

```
https://url-of-smseagle/http_api/send_binary_sms?
login=john&pass=doe&to=1234567&udh=0605040B8423F0&data=EA0601AE02056A0045C6
```

0C037777772E736D736561676C652E657500080103534D534561676C65000101

RESPONSE:

Response: **OK; ID=[ID of message in outbox]**

Sample response: OK; ID=297

Response (when wrong logindata): **Invalid login or password**
Response (when wrong parameters): **Wrong or missing >>udh<< parameter**
Response (when wrong parameters): **Wrong or missing >>data<< parameter**

RESPONSE (XML):

Response:
<xml>
  <message_id>**[ID of message in outbox]**</message_id>
  <status>ok</status>
</xml>

Sample response:
<xml>
  <message_id>297</message_id>
  <status>ok</status>
</xml>

Response (when wrong logindata):
<xml>
  <error_text>Invalid login or password</error_text>
  <status>error</status>
</xml>

Response (when wrong parameters):
<xml>
  <error_text> Wrong or missing >>udh<< parameter </error_text>
  <status>error</status>
</xml>

Response (when wrong parameters):
<xml>
  <error_text> Wrong or missing >>data<< parameter </error_text>
  <status>error</status>
</xml>

10. Send binary SMS: JSONRPC method

HTTP POST METHOD:

```
https://url-of-smseagle/jsonrpc/sms
```

PARAMETERS:

Parameter	Description
login	your user to login to SMSEagle
pass	your password to login to SMSEagle
to	recipient telephone number (or numbers separated with comma)
udh	*(optional parameter)* UDH header for the message (in hex format)
data	binary message (in hex format)
class	*(optional parameter)* message class
modem_no	*(optional parameter)* sending modem number (only for multimodem devices)
responsetype	*(optional parameter)* simple = format response as simple object with one result field (default), extended = format response as extended JSON object

EXAMPLES:

```
{"method":"sms.send_binary_sms",
"params":{"login":"john","pass":"doe","to":"1234567","udh":"0605040B8423F0"
,"data":"EA0601AE02056A0045C60C037777772E736D736561676C652E657500080103534D
534561676C65000101"}}
```

RESPONSE:

Response: `{"result": "OK; ID=[ID of message in outbox]"}`

Sample response: `{"result": "OK; ID=297"}`

Response (when wrong logindata): `{"result": "Invalid login or password"}`

Response (when wrong parameters): `{"result": "Wrong or missing >>udh<< parameter"}`

Response (when wrong parameters): `{"result": "Wrong or missing >>data<< parameter"}`

RESPONSE (EXTENDED):

Response:

```
{"result": {"message_id":"[ID of message in outbox]","status":"ok"}}
```

Sample response: `{"result": {"message_id":"748","status":"ok"}}`

Response (when wrong logindata):

```
{"result": {"error_text":"Invalid login or password","status":"error"}}
```

Response (when wrong parameters):

```
{"result": {"error_text":" Wrong or missing >>udh<< parameter
","status":"error"}}
```

Response (when wrong parameters):

```
{"result": {"error_text":"Wrong or missing >>data<< parameter",
"status":"error"}}
```

11. Read SMS: HTTP GET method

HTTP GET METHOD:

```
https://url-of-smseagle/http_api/read_sms
```

Parameter	Description
login	your user to login to SMSEagle
pass	your password to login to SMSEagle
folder	one of the following: inbox, outbox, sentitems
idfrom	*(optional parameter)* minimal message-id
idto	*(optional parameter)* maximum message-id
from	*(optional parameter)* telephone number of SMS sender (for inbox)
to	*(optional parameter)* telephone number of SMS receiver (for sentitems)
datefrom	*(optional parameter)* date and time in format YYYYmmDDHHMMSS (YYYY – year, mm – month, DD – day, HH – hour, MM – minutes, SS – seconds). Show only messages sent/received on this date/time and later
dateto	*(optional parameter)* date and time in format YYYYmmDDHHMMSS (YYYY – year, mm – month, DD – day, HH – hour, MM – minutes, SS – seconds). Show only messages sent/received on this date/time and earlier
limit	*(optional parameter)* how many messages to show
unread	*(optional parameter)* 1 = show only unread messages
responsetype	*(optional parameter)* text = format response as text (default), xml = format response as XML object
createdby	*(optional parameter)* username or email (if message was sent via Email to SMS) of sending user

EXAMPLES:

```
Show all messages from inbox:
https://url-of-smseagle/http_api/read_sms?
login=john&pass=doe&folder=inbox

Show all unread messages from inbox:
https://url-of-smseagle/http_api/read_sms?
login=john&pass=doe&folder=inbox&unread=1

Show messages from sentitems folder with id=1234 to 1236:
https://url-of-smseagle/http_api/read_sms?
```

```
login=john&pass=doe&folder=sentitems&idfrom=1234&idto=1236

Show messages from inbox folder with sender phone number +481234567:
https://url-of-smseagle/http_api/read_sms?
login=john&pass=doe&folder=inbox&from=+481234567

Show messages from sentitems folder with receiver phone number 7654321 and
datetime from 2014-12-24 08:10:00 to 2014-12-31 23:59:59:
https://url-of-smseagle/http_api/read_sms?
login=john&pass=doe&folder=sentitems&to=7654321&datefrom=20141224081000&dat
eto=20141231235959
```

RESPONSE:

Sample responses: inbox folder, sentitems folder

Response (when no data): **No data to display**

Response (when wrong logindata): **Invalid login or password**

Response (when wrong parameters): **Wrong parameters**

RESPONSE (XML):

Sample response (inbox folder):

```
<xml>
    <messages>
       <item>
            <UpdatedInDB>2018-07-17 15:11:31</UpdatedInDB>
            <ReceivingDateTime>2018-07-17 15:04:04</ReceivingDateTime>
            <Text>00540065007300740020003l</Text>
            <SenderNumber>+48123456789</SenderNumber>
            <Coding>Default_No_Compression</Coding>
            <UDH></UDH>
            <SMSCNumber>+48790998250</SMSCNumber>
            <Class>-1</Class>
            <TextDecoded>Test 1</TextDecoded>
            <ID>124</ID>
            <RecipientID>smseagle1</RecipientID>
            <Processed>t</Processed>
            <id_folder>1</id_folder>
            <readed>true</readed>
            <oid></oid>
            <Status>0</Status>
        </item>
        <item>
            <UpdatedInDB>2018-07-17 15:11:31</UpdatedInDB>
            <ReceivingDateTime>2018-07-17 15:04:10</ReceivingDateTime>
            <Text>00540065007300740020003l</Text>
            <SenderNumber>+48123456788</SenderNumber>
            <Coding>Default_No_Compression</Coding>
            <UDH></UDH>
            <SMSCNumber>+48790998250</SMSCNumber>
            <Class>-1</Class>
            <TextDecoded>Test 2</TextDecoded>
            <ID>125</ID>
            <RecipientID>smseagle1</RecipientID>
            <Processed>t</Processed>
            <id_folder>1</id_folder>
            <readed>true</readed>
```

```
            <oid>5208facc-5912-4d21-8d31-7f830cf8f24e</oid>
            <Status>0</Status>
        </item>
        <item>
            <UpdatedInDB>2018-07-17 15:11:31</UpdatedInDB>
            <ReceivingDateTime>2018-07-17 15:05:49</ReceivingDateTime>

<Text>004C006F00720065006D00200069007000730075006D00200064006F006C006F00720
020007300690074002000610006D00650074002C00200063006F006E00730065006300740065
00740075007200200061006400690070006900730063006900 6E00670020006500 6C0069007
4002E00200043007200610073002000660065007200 6D0065006E00740075006D0020007500
6C006C0061006D0063006F00720070006500720020006500670065007300740061007300 2E0
020004E0075006C006C006100200070006C006100630065007200610074002000660069006E
00690062007500730020006400 6F006C006F0072002C0020006D0061006C006500730075006
1006400610020007600610072006900750073002000 6C006900670075006C006100200068 00
65006E006400720065</Text>
            <SenderNumber>+48123456787</SenderNumber>
            <Coding>Default_No_Compression</Coding>
            <UDH>050003590301</UDH>
            <SMSCNumber>+48790998250</SMSCNumber>
            <Class>-1</Class>
            <TextDecoded>Lorem ipsum dolor sit amet, consectetur adipiscing
elit. Cras fermentum ullamcorper egestas. Nulla placerat finibus dolor,
malesuada varius ligula hendrerit sed. Nullam nisl sapien, molestie rhoncus
orci vel, viverra luctus ipsum. Praesent maximus luctus orci. Vestibulum
lacus dui, vestibulum ac aliquam eget, ultrices et mi. In ac felis urna.
Phasellus eget leo a leo congue ultricies. Donec tincidunt volutpat arcu a
commodo</TextDecoded>
            <ID>126</ID>
            <RecipientID>smseagle1</RecipientID>
            <Processed>t</Processed>
            <id_folder>1</id_folder>
            <readed>true</readed>
            <oid></oid>
            <Status>0</Status>
        </item>
      </messages>
    <status>ok</status>
</xml>
```

Sample response (sentitems folder):

```
<xml>
    <messages>
        <item>
            <UpdatedInDB>2018-06-07 11:29:56</UpdatedInDB>
            <InsertIntoDB>2018-06-07 11:29:43</InsertIntoDB>
            <SendingDateTime>2018-06-07 11:29:56</SendingDateTime>
            <DeliveryDateTime>2018-06-07 11:30:05</DeliveryDateTime>
            <Text>0074006500730074</Text>
            <DestinationNumber>123456789</DestinationNumber>
            <Coding>Default_No_Compression</Coding>
            <UDH></UDH>
            <SMSCNumber>+48501200777</SMSCNumber>
            <Class>-1</Class>
            <TextDecoded>test</TextDecoded>
            <ID>456</ID>
            <SenderID>smseagle1</SenderID>
            <SequencePosition>1</SequencePosition>
            <Status>DeliveryOK</Status>
            <StatusError>-1</StatusError>
            <TPMR>116</TPMR>
            <RelativeValidity>255</RelativeValidity>
```

```
            <CreatorID>admin</CreatorID>
            <id_folder>3</id_folder>
            <StatusCode>-1</StatusCode>
        </item>
        <item>
            <UpdatedInDB>2018-07-13 11:40:45</UpdatedInDB>
            <InsertIntoDB>2018-07-13 11:40:40</InsertIntoDB>
            <SendingDateTime>2018-07-13 11:40:45</SendingDateTime>
            <DeliveryDateTime></DeliveryDateTime>
            <Text></Text>
            <DestinationNumber>*101#</DestinationNumber>
            <Coding>8bit</Coding>
            <UDH></UDH>
            <SMSCNumber>+48501200777</SMSCNumber>
            <Class>127</Class>
            <TextDecoded></TextDecoded>
            <ID>525</ID>
            <SenderID>smseagle1</SenderID>
            <SequencePosition>1</SequencePosition>
            <Status>SendingOK</Status>
            <StatusError>-1</StatusError>
            <TPMR>-1</TPMR>
            <RelativeValidity>255</RelativeValidity>
            <CreatorID>admin</CreatorID>
            <id_folder>3</id_folder>
            <StatusCode>-1</StatusCode>
        </item>
        <item>
            <UpdatedInDB>2018-07-18 14:25:41</UpdatedInDB>
            <InsertIntoDB>2018-07-18 14:25:23</InsertIntoDB>
            <SendingDateTime>2018-07-18 14:25:28</SendingDateTime>
            <DeliveryDateTime>2018-07-18 14:25:28</DeliveryDateTime>
            <Text>00540065007300740020007400650073007400310</Text>
            <DestinationNumber>+48123456788</DestinationNumber>
            <Coding>Default_No_Compression</Coding>
            <UDH></UDH>
            <SMSCNumber>+48601000310</SMSCNumber>
            <Class>-1</Class>
            <TextDecoded>Test test1</TextDecoded>
            <ID>574</ID>
            <SenderID>smseagle1</SenderID>
            <SequencePosition>1</SequencePosition>
            <Status>DeliveryOK</Status>
            <StatusError>0</StatusError>
            <TPMR>84</TPMR>
            <RelativeValidity>255</RelativeValidity>
            <CreatorID>admin</CreatorID>
            <id_folder>3</id_folder>
            <StatusCode>-1</StatusCode>
        </item>
        <item>
            <UpdatedInDB>2018-07-18 14:27:13</UpdatedInDB>
            <InsertIntoDB>2018-07-18 14:27:03</InsertIntoDB>
            <SendingDateTime>2018-07-18 14:27:13</SendingDateTime>
            <DeliveryDateTime></DeliveryDateTime>

<Text>00540065007300740020007700690074006800200075006E00690063006F006400650
0200065006E0063006F00640069006E0067003A00200105014200F30119017A0107</Text>
            <DestinationNumber>123456788</DestinationNumber>
            <Coding>Unicode_No_Compression</Coding>
            <UDH></UDH>
            <SMSCNumber>+48601000310</SMSCNumber>
            <Class>-1</Class>
            <TextDecoded>Test with unicode encoding: ąłóęźć</TextDecoded>
```

```
            <ID>576</ID>
            <SenderID>smseagle2</SenderID>
            <SequencePosition>1</SequencePosition>
            <Status>SendingOK</Status>
            <StatusError>-1</StatusError>
            <TPMR>86</TPMR>
            <RelativeValidity>255</RelativeValidity>
            <CreatorID>admin</CreatorID>
            <id_folder>3</id_folder>
            <StatusCode>-1</StatusCode>
        </item>
        <item>
            <UpdatedInDB>2018-07-18 14:27:36</UpdatedInDB>
            <InsertIntoDB>2018-07-18 14:27:32</InsertIntoDB>
            <SendingDateTime>2018-07-18 14:27:36</SendingDateTime>
            <DeliveryDateTime></DeliveryDateTime>

<Text>00540065007300740020006F006600200066006C00610073006800200006D006500730
073006100670065</Text>
            <DestinationNumber>123456788</DestinationNumber>
            <Coding>Default_No_Compression</Coding>
            <UDH></UDH>
            <SMSCNumber>+48601000310</SMSCNumber>
            <Class>0</Class>
            <TextDecoded>Test of flash message</TextDecoded>
            <ID>577</ID>
            <SenderID>smseagle2</SenderID>
            <SequencePosition>1</SequencePosition>
            <Status>SendingOK</Status>
            <StatusError>-1</StatusError>
            <TPMR>87</TPMR>
            <RelativeValidity>255</RelativeValidity>
            <CreatorID>admin</CreatorID>
            <id_folder>3</id_folder>
            <StatusCode>-1</StatusCode>
        </item>
        <item>
            <UpdatedInDB>2018-07-18 14:29:29</UpdatedInDB>
            <InsertIntoDB>2018-07-18 14:28:46</InsertIntoDB>
            <SendingDateTime>2018-07-18 14:29:29</SendingDateTime>
            <DeliveryDateTime></DeliveryDateTime>

<Text>00540065007300740020007700690074006800200062006100640020007000680006F0
06E00650020006E0075006D006200650072</Text>
            <DestinationNumber>11</DestinationNumber>
            <Coding>Default_No_Compression</Coding>
            <UDH></UDH>
            <SMSCNumber></SMSCNumber>
            <Class>-1</Class>
            <TextDecoded>Test with bad phone number</TextDecoded>
            <ID>578</ID>
            <SenderID>smseagle2</SenderID>
            <SequencePosition>1</SequencePosition>
            <Status>SendingError</Status>
            <StatusError>-1</StatusError>
            <TPMR>-1</TPMR>
            <RelativeValidity>255</RelativeValidity>
            <CreatorID>admin</CreatorID>
            <id_folder>3</id_folder>
            <StatusCode>21</StatusCode>
        </item>
    </messages>
    <status>ok</status>
</xml>
```

Response (when no data):

```
<xml>
  <error_text>No data to display</error_text>
  <status>error</status>
</xml>
```

Response (when wrong logindata):

```
<xml>
  <error_text>Invalid login or password</error_text>
  <status>error</status>
</xml>
```

Response (when wrong parameters):

```
<xml>
  <error_text>Wrong parameters</error_text>
  <status>error</status>
</xml>
```

FIELD DESCRIPTION OF RESPONSE DATA – INBOX FOLDER:

Field	Data type	Description
UpdatedInDB	timestamp	when somebody (software, user) updated the message content or state
ReceivingDateTime	timestamp	when SMS was received
Text	text	SMS text encoded using hex values
SenderNumber	character varying(30)	SMS sender number
Coding	character varying(255)	SMS text coding. Possible values: *'Default_No_Compression', 'Unicode_No_Compression', '8bit',* *'Default_Compression',* *'Unicode_Compression'*
UDH	text	User Data Header encoded using hex values
SMSCNumber	character varying(20)	SMSC number
Class	integer	SMS class (0 is flash SMS, -1 is normal SMS, 127 is USSD)
TextDecoded	text	decoded SMS text
ID	serial	SMS unique identification number
RecipientID	text	which modem received the message *(for example: smseagle1, smseagle2)*
Processed	boolean	whether SMS was processed by SMSEagle application
id_folder	integer	identification of storage folder. Possible values: *1 Inbox* *5 Trash* *11... Custom folder*

readed	text	whether SMS was read in GUI or via API
oid	character varying(36)	user-defined unique ID that is assigned to a message-recipient pair. The oid uniquely identifies a message sent to a particular recipient (particular phone number). *More information: see send_sms method description*
Status	integer	Status of incoming message. Currently only used for USSD messages with following meaning: *1 Unknown status.* *2 No action is needed, maybe network initiated USSD.* *3 Reply is expected.* *4 USSD dialog terminated.* *5 Another client replied.* *6 Operation not supported.* *7 Network timeout.*

FIELD DESCRIPTION OF RESPONSE DATA – SENTITEMS FOLDER:

Field	Data type	Description
UpdatedInDB	timestamp	when somebody (software, user) updated the message content or state
InsertIntoDB	timestamp	when message was inserted into database
SendingDateTime	timestamp	when message has been sent
DeliveryDateTime	timestamp	time of receiving a delivery report (if it has been enabled). Null if delivery report was not received.
Text	text	SMS text encoded using hex values
DestinationNumber	character varying(30)	destination number for SMS
Coding	character varying(255)	SMS text coding. Possible values: *'Default_No_Compression', 'Unicode_No_Compression', '8bit',* *'Default_Compression',* *'Unicode_Compression'*
UDH	text	User Data Header encoded using hex values
SMSCNumber	character varying(20)	number of SMSC, which sent SMS
Class	integer	SMS class (0 is flash SMS, -1 is normal SMS, 127 is USSD)
TextDecoded	text	decoded SMS text
ID	serial	SMS unique identification number
SenderID	character varying(255)	which modem sent the message *(for example: smseagle1, smseagle2)*
SequencePosition	integer	SMS number in SMS sequence
Status	character varying(255)	Status of message sending. Possible values: *SendingOK* *Message has been sent, waiting for delivery report* *SendingOKNoReport*

		Message has been sent without asking for delivery report *SendingError* *Sending has failed* *DeliveryOK* *Delivery report arrived and reported success* *DeliveryFailed* *Delivery report arrived and reports failure* *DeliveryPending* *Delivery report announced pending deliver* *DeliveryUnknown* *Delivery report reported unknown status* *Error* *Some other error happened during sending* *Notice: some cellular operators return "SendingOK" status instead of "DeliveryOK" for correctly delivered SMS. If you want to check for delivery status, please verify what you receive from your operator or instead use the field DeliveryDateTime.*
StatusError	integer	Status of delivery from delivery report message, codes are defined in GSM specification 03.40 section 9.2.3.15 (TP-Status)
TPMR	integer	The Message Reference field (TP-MR) as defined in GSM 03.40
RelativeValidity	integer	SMS relative validity (TP-VP) encoded as defined in GSM 03.40
CreatorID	text	username that created the SMS message
id_folder	integer	identification of storage folder. Possible values: *3 Sent items* *5 Trash* *11... Custom folder*
StatusCode	integer	CMS status code (also known as CMS ERROR) received from cellular network. *- 1 No CMS Error* *> -1 CMS Error occurred. CMS error number is saved in this field.*

12. Read SMS: JSONRPC method

HTTP POST METHOD:

```
https://url-of-smseagle/jsonrpc/sms
```

Parameter	Description
login	your user to login to SMSEagle
pass	your password to login to SMSEagle

folder	one of the following: inbox, outbox, sentitems
idfrom	*(optional parameter)* minimal message-id
idto	*(optional parameter)* maximum message-id
from	*(optional parameter)* telephone number of SMS sender (for inbox)
to	*(optional parameter)* telephone number of SMS receiver (for sentitems)
datefrom	*(optional parameter)* date and time in format YYYYmmDDHHMMSS (YYYY – year, mm – month, DD – day, HH – hour, MM – minutes, SS – seconds). Show only messages sent/received on this date/time and later
dateto	*(optional parameter)* date and time in format YYYYmmDDHHMMSS (YYYY – year, mm – month, DD – day, HH – hour, MM – minutes, SS – seconds). Show only messages sent/received on this date/time and earlier
limit	*(optional parameter)* how many messages to show
unread	*(optional parameter)* 1 = show only unread messages
responsetype	*(optional parameter)* simple = format response as simple object with one result field (default), extended = format response as extended JSON object
createdby	*(optional parameter)* username or email (if message was sent via Email to SMS) of sending user

EXAMPLES:

```
Show all messages from inbox:
{"method":"sms.read_sms",
"params":{"login":"john","pass":"doe","folder":"inbox"}}

Show all unread messages from inbox:
{"method":"sms.read_sms",
"params":{"login":"john","pass":"doe","folder":"inbox","unread":"1"}}

Show messages from sentitems folder with id=1234 to 1236:
{"method":"sms.read_sms",
"params":{"login":"john","pass":"doe","folder":"sentitems","idfrom":"1234",
"idto":"1236"}}

Show messages from inbox folder with sender phone number +481234567:
{"method":"sms.read_sms",
"params":{"login":"john","pass":"doe","folder":"inbox","from":"
481234567"}}

Show messages from sentitems folder with receiver phone number 7654321 and
datetime from 2014-12-24 08:10:00 to 2014-12-31 23:59:59:
{"method":"sms.read_sms",
"params":{"login":"john","pass":"doe","folder":"sentitems","to":"7654321","
datefrom":"20141224081000","dateto":"20141231235959"}}
```

RESPONSE:

Sample response (inbox folder):


```
{
    "result": [
        {
            "UpdatedInDB": "2018-07-18 13:56:16",
            "ReceivingDateTime": "2018-07-17 15:04:04",
            "Text": "00540065007300740020003l",
            "SenderNumber": "+48123456789",
            "Coding": "Default_No_Compression",
            "UDH": "",
            "SMSCNumber": "+48790998250",
            "Class": "-1",
            "TextDecoded": "Test 1",
            "ID": "124",
            "RecipientID": "smseagle1",
            "Processed": "t",
            "id_folder": "1",
            "readed": "true",
            "oid": "",
            "Status": "0"
        },
        {
            "UpdatedInDB": "2018-07-18 13:56:16",
            "ReceivingDateTime": "2018-07-17 15:04:10",
            "Text": "00540065007300740020003200",
            "SenderNumber": "+48123456788",
            "Coding": "Default_No_Compression",
            "UDH": "",
            "SMSCNumber": "+48790998250",
            "Class": "-1",
            "TextDecoded": "Test 2",
            "ID": "125",
            "RecipientID": "smseagle1",
            "Processed": "t",
            "id_folder": "1",
            "readed": "true",
            "oid": "5208facc-5912-4d21-8d31-7f830cf8f24e",
            "Status": "0"
        },
        {
            "UpdatedInDB": "2018-07-18 13:56:16",
            "ReceivingDateTime": "2018-07-17 15:05:49",
            "Text":
"004C006F00720065006D00200069007000730075006D00200064006F006C006F0072002000
7300690074002000610064006D00650074002C00200063006F006E0073006500630074006500740
075007200200061006400690070006900730063006900E006700200065006C00690074002E
0020004300720061007300200066006500720006D0065006E00740075006D00200075006C006
C0061006D0063006F007200700065007200200065006500730074006100730020002E002000
4E0075006C006C006100200070006C006100630065007200610074002000660069006E00690
062007500730020006400 6F006C006F0072002C0020006D0061006C006500730075006100640
0061002000760061007200690075007300200006C006900670075006C006100200068006500 6
E006400720065",
            "SenderNumber": "+48123456787",
            "Coding": "Default_No_Compression",
            "UDH": "050003590301",
            "SMSCNumber": "+48790998250",
            "Class": "-1",
            "TextDecoded": "Lorem ipsum dolor sit amet, consectetur
adipiscing elit. Cras fermentum ullamcorper egestas. Nulla placerat finibus
dolor, malesuada varius ligula hendrerit sed. Nullam nisl sapien, molestie
rhoncus orci vel, viverra luctus ipsum. Praesent maximus luctus orci.
Vestibulum lacus dui, vestibulum ac aliquam eget, ultrices et mi. In ac
```

```
felis urna. Phasellus eget leo a leo congue ultricies. Donec tincidunt
volutpat arcu a commodo",
            "ID": "126",
            "RecipientID": "smseagle1",
            "Processed": "t",
            "id_folder": "1",
            "readed": "true",
            "oid": "",
            "Status": "0"
        }
    ]
}
```


Sample response (sentitems folder):


```
{
    "result": [
        {
            "UpdatedInDB": "2018-06-07 11:29:56",
            "InsertIntoDB": "2018-06-07 11:29:43",
            "SendingDateTime": "2018-06-07 11:29:56",
            "DeliveryDateTime": "2018-06-07 11:30:05",
            "Text": "0074006500730074",
            "DestinationNumber": "+48123456789",
            "Coding": "Default_No_Compression",
            "UDH": "",
            "SMSCNumber": "+48501200777",
            "Class": "-1",
            "TextDecoded": "test",
            "ID": "456",
            "SenderID": "smseagle1",
            "SequencePosition": "1",
            "Status": "DeliveryOK",
            "StatusError": "-1",
            "TPMR": "116",
            "RelativeValidity": "255",
            "CreatorID": "admin",
            "id_folder": "3",
            "StatusCode": "-1"
        },
        {
            "UpdatedInDB": "2018-07-13 11:40:45",
            "InsertIntoDB": "2018-07-13 11:40:40",
            "SendingDateTime": "2018-07-13 11:40:45",
            "DeliveryDateTime": null,
            "Text": "",
            "DestinationNumber": "*101#",
            "Coding": "8bit",
            "UDH": "",
            "SMSCNumber": "+48501200777",
            "Class": "127",
            "TextDecoded": "",
            "ID": "525",
            "SenderID": "smseagle1",
            "SequencePosition": "1",
            "Status": "SendingOK",
            "StatusError": "-1",
            "TPMR": "-1",
            "RelativeValidity": "255",
            "CreatorID": "admin",
            "id_folder": "3",
            "StatusCode": "-1"
        },
        {
```

```
            "UpdatedInDB": "2018-07-18 14:25:41",
            "InsertIntoDB": "2018-07-18 14:25:23",
            "SendingDateTime": "2018-07-18 14:25:28",
            "DeliveryDateTime": "2018-07-18 14:25:28",
            "Text": "00540065007300740020007400650073007400310",
            "DestinationNumber": "+48123456788",
            "Coding": "Default_No_Compression",
            "UDH": "",
            "SMSCNumber": "+48601000310",
            "Class": "-1",
            "TextDecoded": "Test test1",
            "ID": "574",
            "SenderID": "smseagle1",
            "SequencePosition": "1",
            "Status": "DeliveryOK",
            "StatusError": "0",
            "TPMR": "84",
            "RelativeValidity": "255",
            "CreatorID": "admin",
            "id_folder": "3",
            "StatusCode": "-1"
        },
        {
            "UpdatedInDB": "2018-07-18 14:27:13",
            "InsertIntoDB": "2018-07-18 14:27:03",
            "SendingDateTime": "2018-07-18 14:27:13",
            "DeliveryDateTime": null,
            "Text":
"00540065007300740020007700690074006800200075006E00690063006F00640065002000
65006E0063006F00640069006E0067003A00200105014200F30119017A0107",
            "DestinationNumber": "123456788",
            "Coding": "Unicode_No_Compression",
            "UDH": "",
            "SMSCNumber": "+48601000310",
            "Class": "-1",
            "TextDecoded": "Test with unicode encoding: ąłóęźć",
            "ID": "576",
            "SenderID": "smseagle1",
            "SequencePosition": "1",
            "Status": "SendingOK",
            "StatusError": "-1",
            "TPMR": "86",
            "RelativeValidity": "255",
            "CreatorID": "admin",
            "id_folder": "3",
            "StatusCode": "-1"
        },
        {
            "UpdatedInDB": "2018-07-18 14:27:36",
            "InsertIntoDB": "2018-07-18 14:27:32",
            "SendingDateTime": "2018-07-18 14:27:36",
            "DeliveryDateTime": null,
            "Text":
"00540065007300740020006F006600200066006C006100730068002000 6D00650073007300
6100670065",
            "DestinationNumber": "123456788",
            "Coding": "Default_No_Compression",
            "UDH": "",
            "SMSCNumber": "+48601000310",
            "Class": "0",
            "TextDecoded": "Test of flash message",
            "ID": "577",
            "SenderID": "smseagle1",
            "SequencePosition": "1",
```

```
            "Status": "SendingOK",
            "StatusError": "-1",
            "TPMR": "87",
            "RelativeValidity": "255",
            "CreatorID": "admin",
            "id_folder": "3",
            "StatusCode": "-1"
        },
        {
            "UpdatedInDB": "2018-07-18 14:29:29",
            "InsertIntoDB": "2018-07-18 14:28:46",
            "SendingDateTime": "2018-07-18 14:29:29",
            "DeliveryDateTime": null,
            "Text":
"00540065007300740020007700690074006800200062006100640020007000680006F006E00
650020006E0075006D006200650072",
            "DestinationNumber": "11",
            "Coding": "Default_No_Compression",
            "UDH": "",
            "SMSCNumber": "",
            "Class": "-1",
            "TextDecoded": "Test with bad phone number",
            "ID": "578",
            "SenderID": "smseagle1",
            "SequencePosition": "1",
            "Status": "SendingError",
            "StatusError": "-1",
            "TPMR": "-1",
            "RelativeValidity": "255",
            "CreatorID": "admin",
            "id_folder": "3",
            "StatusCode": "21"
        }
    ]
}
```


Response (when no data): `{"result": "No data to display"}`

Response (when wrong logindata): `{"result": "Invalid login or password"}`

Response (when wrong parameters): `{"result": "Wrong parameters"}`

RESPONSE (EXTENDED):

Sample response (inbox folder):


```
{
    "result": {
        "messages": [
            {
                "UpdatedInDB": "2018-07-18 14:06:06",
                "ReceivingDateTime": "2018-07-17 15:04:04",
                "Text": "00540065007300740020003 1",
                "SenderNumber": "+48123456789",
                "Coding": "Default_No_Compression",
                "UDH": "",
                "SMSCNumber": "+48790998250",
                "Class": "-1",
                "TextDecoded": "Test 1",
                "ID": "124",
                "RecipientID": "smseagle1",
```

```
                "Processed": "t",
                "id_folder": "1",
                "readed": "true",
                "oid": "",
                "Status": "0"
            },
            {
                "UpdatedInDB": "2018-07-18 14:06:06",
                "ReceivingDateTime": "2018-07-17 15:04:10",
                "Text": "00540065007300740020003 2",
                "SenderNumber": "+48123456788",
                "Coding": "Default_No_Compression",
                "UDH": "",
                "SMSCNumber": "+48790998250",
                "Class": "-1",
                "TextDecoded": "Test 2",
                "ID": "125",
                "RecipientID": "smseagle1",
                "Processed": "t",
                "id_folder": "1",
                "readed": "true",
                "oid": "5208facc-5912-4d21-8d31-7f830cf8f24e",
                "Status": "0"
            },
            {
                "UpdatedInDB": "2018-07-18 14:06:06",
                "ReceivingDateTime": "2018-07-17 15:05:49",
                "Text":
"004C006F00720065006D00200069007000730075006D00200064006F006C006F0072002000
7300690074002000061006D00650074002C00200063006F006E0073006500630074006500740
0750072002000610064006900700069007300630069006E0067002000650 06C00690074002E
0020004300720061007300200066006500720 06D0065006E00740075006D002000750 06C006
C0061006D0063006F00720070006500720020006500670065007300740061007300 2E002000
4E0075006C006C006100200070006C006100630065007200610074002000660069006E00690
0620075007300200064006F006C006F0072002C0020006D0061006C006500730075006100640
0610020007600610072006900750073002000 6C006900670075006C006100200068006500 6
E006400720065",
                "SenderNumber": "+48123456787",
                "Coding": "Default_No_Compression",
                "UDH": "050003590301",
                "SMSCNumber": "+48790998250",
                "Class": "-1",
                "TextDecoded": "Lorem ipsum dolor sit amet, consectetur
adipiscing elit. Cras fermentum ullamcorper egestas. Nulla placerat finibus
dolor, malesuada varius ligula hendrerit sed. Nullam nisl sapien, molestie
rhoncus orci vel, viverra luctus ipsum. Praesent maximus luctus orci.
Vestibulum lacus dui, vestibulum ac aliquam eget, ultrices et mi. In ac
felis urna. Phasellus eget leo a leo congue ultricies. Donec tincidunt
volutpat arcu a commodo",
                "ID": "126",
                "RecipientID": "smseagle1",
                "Processed": "t",
                "id_folder": "1",
                "readed": "true",
                "oid": "",
                "Status": "0"
            }
        ],
        "status": "ok"
    }
}
```


Sample response (sentitems folder):

```
{
    "result": {
        "messages": [
            {
                "UpdatedInDB": "2018-06-07 11:29:56",
                "InsertIntoDB": "2018-06-07 11:29:43",
                "SendingDateTime": "2018-06-07 11:29:56",
                "DeliveryDateTime": "2018-06-07 11:30:05",
                "Text": "0074006500730074",
                "DestinationNumber": "+48123456789",
                "Coding": "Default_No_Compression",
                "UDH": "",
                "SMSCNumber": "+48501200777",
                "Class": "-1",
                "TextDecoded": "test",
                "ID": "456",
                "SenderID": "smseagle1",
                "SequencePosition": "1",
                "Status": "DeliveryOK",
                "StatusError": "-1",
                "TPMR": "116",
                "RelativeValidity": "255",
                "CreatorID": "admin",
                "id_folder": "3",
                "StatusCode": "-1"
            },
            {
                "UpdatedInDB": "2018-07-13 11:40:45",
                "InsertIntoDB": "2018-07-13 11:40:40",
                "SendingDateTime": "2018-07-13 11:40:45",
                "DeliveryDateTime": null,
                "Text": "",
                "DestinationNumber": "*101#",
                "Coding": "8bit",
                "UDH": "",
                "SMSCNumber": "+48501200777",
                "Class": "127",
                "TextDecoded": "",
                "ID": "525",
                "SenderID": "smseagle1",
                "SequencePosition": "1",
                "Status": "SendingOK",
                "StatusError": "-1",
                "TPMR": "-1",
                "RelativeValidity": "255",
                "CreatorID": "admin",
                "id_folder": "3",
                "StatusCode": "-1"
            },
            {
                "UpdatedInDB": "2018-07-18 14:25:41",
                "InsertIntoDB": "2018-07-18 14:25:23",
                "SendingDateTime": "2018-07-18 14:25:28",
                "DeliveryDateTime": "2018-07-18 14:25:28",
                "Text": "00540065007300740020007400650073007400310",
                "DestinationNumber": "+48123456788",
                "Coding": "Default_No_Compression",
                "UDH": "",
                "SMSCNumber": "+48601000310",
                "Class": "-1",
                "TextDecoded": "Test test1",
                "ID": "574",
                "SenderID": "smseagle1",
                "SequencePosition": "1",
```

```
                "Status": "DeliveryOK",
                "StatusError": "0",
                "TPMR": "84",
                "RelativeValidity": "255",
                "CreatorID": "admin",
                "id_folder": "3",
                "StatusCode": "-1"
            },
            {
                "UpdatedInDB": "2018-07-18 14:27:13",
                "InsertIntoDB": "2018-07-18 14:27:03",
                "SendingDateTime": "2018-07-18 14:27:13",
                "DeliveryDateTime": null,
                "Text":
"00540065007300740020007700690074006800200075006E00690063006F00640065002000
65006E0063006F00640069006E0067003A00200105014200F30119017A0107",
                "DestinationNumber": "123456788",
                "Coding": "Unicode_No_Compression",
                "UDH": "",
                "SMSCNumber": "+48601000310",
                "Class": "-1",
                "TextDecoded": "Test with unicode encoding: ąłóęźć",
                "ID": "576",
                "SenderID": "smseagle1",
                "SequencePosition": "1",
                "Status": "SendingOK",
                "StatusError": "-1",
                "TPMR": "86",
                "RelativeValidity": "255",
                "CreatorID": "admin",
                "id_folder": "3",
                "StatusCode": "-1"
            },
            {
                "UpdatedInDB": "2018-07-18 14:27:36",
                "InsertIntoDB": "2018-07-18 14:27:32",
                "SendingDateTime": "2018-07-18 14:27:36",
                "DeliveryDateTime": null,
                "Text":
"00540065007300740020006F006600200066006C006100730068002000 6D00650073007300
6100670065",
                "DestinationNumber": "123456788",
                "Coding": "Default_No_Compression",
                "UDH": "",
                "SMSCNumber": "+48601000310",
                "Class": "0",
                "TextDecoded": "Test of flash message",
                "ID": "577",
                "SenderID": "smseagle1",
                "SequencePosition": "1",
                "Status": "SendingOK",
                "StatusError": "-1",
                "TPMR": "87",
                "RelativeValidity": "255",
                "CreatorID": "admin",
                "id_folder": "3",
                "StatusCode": "-1"
            },
            {
                "UpdatedInDB": "2018-07-18 14:29:29",
                "InsertIntoDB": "2018-07-18 14:28:46",
                "SendingDateTime": "2018-07-18 14:29:29",
                "DeliveryDateTime": null,
```

```
                "Text":
"00540065007300740020007700690074006800200062006100640020007000680006F006E00
650020006E0075006D006200650072",
                "DestinationNumber": "11",
                "Coding": "Default_No_Compression",
                "UDH": "",
                "SMSCNumber": "",
                "Class": "-1",
                "TextDecoded": "Test with bad phone number",
                "ID": "578",
                "SenderID": "smseagle1",
                "SequencePosition": "1",
                "Status": "SendingError",
                "StatusError": "-1",
                "TPMR": "-1",
                "RelativeValidity": "255",
                "CreatorID": "admin",
                "id_folder": "3",
                "StatusCode": "21"
            }
        ],
        "status": "ok"
}
```


Response (when no data):


```
{"result": {"error_text":" No data to display ", "status":"error"}}
```


Response (when wrong logindata):


```
{"result": {"error_text":"Invalid login or password","status":"error"}}
```


Response (when wrong parameters):


```
{"result": {"error_text":" Wrong or missing >>udh<< parameter
","status":"error"}}
```


FIELD DESCRIPTION OF RESPONSE DATA – INBOX FOLDER:

Field	Data type	Description
UpdatedInDB	timestamp	when somebody (software, user) updated the message content or state
ReceivingDateTime	timestamp	when SMS was received
Text	text	SMS text encoded using hex values
SenderNumber	character varying(30)	SMS sender number
Coding	character varying(255)	SMS text coding. Possible values: *'Default_No_Compression'*, *'Unicode_No_Compression'*, *'8bit'*, *'Default_Compression'*, *'Unicode_Compression'*
UDH	text	User Data Header encoded using hex values
SMSCNumber	character varying(20)	SMSC number
Class	integer	SMS class (0 is flash SMS, -1 is normal SMS, 127 is USSD)
TextDecoded	text	decoded SMS text
ID	serial	SMS unique identification number

RecipientID	text	which modem received the message *(for example: smseagle1, smseagle2)*
Processed	boolean	whether SMS was processed by SMSEagle application
id_folder	integer	identification of storage folder. Possible values: *1 Inbox* *5 Trash* *11... Custom folder*
readed	text	whether SMS was read in GUI or via API
oid	character varying(36)	user-defined unique ID that is assigned to a message-recipient pair. The oid uniquely identifies a message sent to a particular recipient (particular phone number). *More information: see send_sms method description*
Status	integer	Status of incoming message. Currently only used for USSD messages with following meaning: *1 Unknown status.* *2 No action is needed, maybe network initiated USSD.* *3 Reply is expected.* *4 USSD dialog terminated.* *5 Another client replied.* *6 Operation not supported.* *7 Network timeout.*

FIELD DESCRIPTION OF RESPONSE DATA – SENTITEMS FOLDER:

Field	Data type	Description
UpdatedInDB	timestamp	when somebody (software, user) updated the message content or state
InsertIntoDB	timestamp	when message was inserted into database
SendingDateTime	timestamp	when message has been sent
DeliveryDateTime	timestamp	time of receiving a delivery report (if it has been enabled). Null if delivery report was not received.
Text	text	SMS text encoded using hex values
DestinationNumber	character varying(30)	destination number for SMS
Coding	character varying(255)	SMS text coding. Possible values: *'Default_No_Compression', 'Unicode_No_Compression', '8bit',* *'Default_Compression',* *'Unicode_Compression'*
UDH	text	User Data Header encoded using hex values
SMSCNumber	character varying(20)	number of SMSC, which sent SMS
Class	integer	SMS class (0 is flash SMS, -1 is normal SMS, 127 is USSD)
TextDecoded	text	decoded SMS text
ID	serial	SMS unique identification number

SenderID	character varying(255)	which modem sent the message *(for example: smseagle1, smseagle2)*
SequencePosition	integer	SMS number in SMS sequence
Status	character varying(255)	Status of message sending. Possible values: *SendingOK* *Message has been sent, waiting for delivery report* *SendingOKNoReport* *Message has been sent without asking for delivery report* *SendingError* *Sending has failed* *DeliveryOK* *Delivery report arrived and reported success* *DeliveryFailed* *Delivery report arrived and reports failure* *DeliveryPending* *Delivery report announced pending deliver* *DeliveryUnknown* *Delivery report reported unknown status* *Error* *Some other error happened during sending* *Notice: some cellular operators return "SendingOK" status instead of "DeliveryOK" for correctly delivered SMS. If you want to check for delivery status, please verify what values you receive from your operator or instead use the field DeliveryDateTime.*
StatusError	integer	Status of delivery from delivery report message, codes are defined in GSM specification 03.40 section 9.2.3.15 (TP-Status)
TPMR	integer	The Message Reference field (TP-MR) as defined in GSM 03.40
RelativeValidity	integer	SMS relative validity (TP-VP) encoded as defined in GSM 03.40
CreatorID	text	username that created the SMS message
id_folder	integer	identification of storage folder. Possible values: *3 Sent items* *5 Trash* *11... Custom folder*
StatusCode	integer	CMS status code (also known as CMS ERROR) received from cellular network. *- 1 No CMS Error* *> -1 CMS Error occurred. CMS error number is saved in this field.*

13. Delete SMS: HTTP GET method

HTTP GET METHOD:

```
https://url-of-smseagle/http_api/delete_sms
```

Parameter	Description
login	your user to login to SMSEagle
pass	your password to login to SMSEagle
folder	one of the following: inbox, outbox, sentitems
idfrom	minimal id of message
idto	maximal id of message
responsetype	*(optional parameter)* text = format response as text (default), xml = format response as XML object

EXAMPLES:

```
Delete message with id=1234 from inbox:
https://url-of-smseagle/http_api/delete_sms?
login=john&pass=doe&folder=inbox&idfrom=1234&idto=1234

Delete messages with id 1234 - 1250 from inbox:
https://url-of-smseagle/http_api/delete_sms?
login=john&pass=doe&folder=inbox&idfrom=1234&idto=1250

Delete all messages from outbox:
https://url-of-smseagle/http_api/delete_sms?
login=john&pass=doe&folder=outbox&idfrom=1&idto=999999999
```

RESPONSE:

Response: **OK**

Response (when delete operation was not successful): **Error**

Response (when wrong logindata): **Invalid login or password**

RESPONSE (XML):

Response:

```
<xml>
  <status>ok</status>
</xml>
```

Response (when delete operation was not successful):

```
<xml>
  <status>error</status>
</xml>
```

Response (when wrong logindata):

```
<xml>
```

```
  <error_text>Invalid login or password</error_text>
  <status>error</status>
</xml>
```

14. Delete SMS: JSONRPC method

HTTP POST METHOD:

```
https://url-of-smseagle/jsonrpc/sms
```

Parameter	Description
login	your user to login to SMSEagle
pass	your password to login to SMSEagle
folder	one of the following: inbox, outbox, sentitems
idfrom	minimal id of message
idto	maximal id of message
responsetype	*(optional parameter)* simple = format response as simple object with one result field (default), extended = format response as extended JSON object

EXAMPLES:

```
Delete message with id=1234 from inbox:
{"method":"sms.delete_sms",
"params":{"login":"john","pass":"doe","folder":"inbox","idfrom":"1234""idto
":"1234"}}

Delete messages with id 1234 - 1250 from inbox:
{"method":"sms.delete_sms",
"params":{"login":"john","pass":"doe","folder":"inbox","idfrom":"1234","idt
o":"1250"}}

Delete all messages from outbox:
{"method":"sms.delete_sms",
"params":{"login":"john","pass":"doe","folder":"outbox","idfrom":"1","idto"
:"999999999"}}
```

RESPONSE:

Response: `{"result": "OK"}`

Response (when delete operation was not successful): `{"result": "Error"}`

Response (when wrong logindata): `{"result": "Invalid login or password"}`

RESPONSE (EXTENDED):

Response: `{"result":{"status":"ok"}}`

Response (when delete operation was not successful):

```
{"result":{"status":"error"}}
```

Response (when wrong logindata):
{"result": {"error_text":"Invalid login or password","status":"error"}}

15. Get outgoing queue length: HTTP GET method

HTTP GET METHOD:

https://url-of-smseagle/http_api/get_queue_length

Parameter	Description
login	your user to login to SMSEagle
pass	your password to login to SMSEagle
responsetype	*(optional parameter)* text = format response as text (default), xml = format response as XML object

EXAMPLES:

```
https://url-of-smseagle/http_api/get_queue_length?
login=john&pass=doe
```

RESPONSE:

Response: **[number of messages in database that wait to be processed by GSM-modem]**
Sample response: 7
Response (when wrong logindata): **Invalid login or password**
Response (when wrong parameters): **Wrong parameters**

RESPONSE (XML):

Response:
<xml>
  <queue_length>
    [number of messages in database that wait to be processed by GSM-modem]
  </queue_length >
  <status>ok</status>
</xml>

Sample response:
<xml>
  <queue_length>7</queue_length >
  <status>ok</status>
</xml>

Response (when wrong logindata):
<xml>
  <error_text>Invalid login or password</error_text>

```
  <status>error</status>
</xml>
```

Response (when wrong parameters):

```
<xml>
  <error_text>Wrong parameters</error_text>
  <status>error</status>
</xml>
```

16. Get outgoing queue length: JSONRPC method

HTTP POST METHOD CALL:

`https://url-of-smseagle/jsonrpc/sms`

Parameter	Description
login	your user to login to SMSEagle
pass	your password to login to SMSEagle
responsetype	*(optional parameter)* simple = format response as simple object with one result field (default), extended = format response as extended JSON object

BODY:

```
{"method":"sms.get_queue_length", "params":{"login":"john","pass":"doe"}}
```

RESPONSE:

Response: `{"result": [number of messages in database that wait to be processed by GSM-modem]}`

Sample response: `{"result":7}`

Response: `{"result": "Invalid login or password"}`

Response: `{"result": "Wrong parameters"}`

RESPONSE (EXTENDED):

Response:

```
{"result":{"queue_length":[number of messages in database that wait to be processed by GSM-modem],"status":"ok"}}
```

Sample response: `{"result": {"queue_length":"419","status":"ok"}}`

Response (when wrong logindata):

```
{"result": {"error_text":"Invalid login or password","status":"error"}}
```

Response (when wrong parameters):

```
{"result": {"error_text":"Wrong parameters","status":"error"}}
```

17. Get inbox length: HTTP GET method

HTTP GET METHOD:

```
https://url-of-smseagle/http_api/get_inbox_length
```

Parameter	Description
login	your user to login to SMSEagle
pass	your password to login to SMSEagle
responsetype	*(optional parameter)* text = format response as text (default), xml = format response as XML object

EXAMPLES:

```
https://url-of-smseagle/http_api/get_inbox_length?
login=john&pass=doe
```

RESPONSE:

Response: **[number of messages in database Inbox folder]**

Sample response: 3

Response (when wrong logindata): **Invalid login or password**

Response (when wrong parameters): **Wrong parameters**

RESPONSE (XML):

Response:

```
<xml>
  <queue_length>
    [number of messages in database Inbox folder]
  </queue_length>
  <status>ok</status>
</xml>
```

Sample response:

```
<xml>
  <inbox_length>3</inbox_length>
  <status>ok</status>
</xml>
```

Response (when wrong logindata):

```
<xml>
  <error_text>Invalid login or password</error_text>
  <status>error</status>
</xml>
```

Response (when wrong parameters):

```
<xml>
  <error_text>Wrong parameters</error_text>
  <status>error</status>
</xml>
```

18. Get inbox length: JSONRPC method

HTTP POST METHOD:

`https://url-of-smseagle/jsonrpc/sms`

Parameter	Description
login	your user to login to SMSEagle
pass	your password to login to SMSEagle
responsetype	*(optional parameter)* simple = format response as simple object with one result field (default), extended = format response as extended JSON object

EXAMPLES:

```
{"method":"sms.get_inbox_length", "params":{"login":"john","pass":"doe"}}
```

RESPONSE:

Response: `{"result": "[number of messages in database Inbox folder]"}`

Sample response: 3

Response (when wrong logindata): `{"result": "Invalid login or password"}`

Response (when wrong parameters): `{"result": "Wrong parameters"}`

RESPONSE (EXTENDED):

Response:

```
{"result":{"inbox_length":[number of messages in database Inbox
folder],"status":"ok"}}
```

Sample response: `{"result": {"inbox_length":"3","status":"ok"}}`

Response (when wrong logindata):

```
{"result": {"error_text":"Invalid login or password","status":"error"}}
```

Response (when wrong parameters):

```
{"result": {"error_text":"Wrong parameters","status":"error"}}
```

19. Get sentitems length: HTTP GET method

HTTP GET METHOD:

```
https://url-of-smseagle/http_api/get_inbox_length
```

Parameter	Description
login	your user to login to SMSEagle
pass	your password to login to SMSEagle
responsetype	*(optional parameter)* text = format response as text (default), xml = format response as XML object

EXAMPLES:

```
https://url-of-smseagle/http_api/get_sentitems_length?
login=john&pass=doe
```

RESPONSE:

Response: **[number of messages in database Sentitems folder]**
Sample response: 21
Response (when wrong logindata): **Invalid login or password**
Response (when wrong parameters): **Wrong parameters**

RESPONSE (XML):

Response:

```
<xml>
  <sentitems_length>
    [number of messages in database Inbox folder]
  </sentitems_length>
  <status>ok</status>
</xml>
```

Sample response:

```
<xml>
  <sentitems_length>21</sentitems_length>
  <status>ok</status>
</xml>
```

Response (when wrong logindata):

```
<xml>
  <error_text>Invalid login or password</error_text>
  <status>error</status>
</xml>
```

Response (when wrong parameters):

```
<xml>
  <error_text>Wrong parameters</error_text>
```

<status>error</status>
</xml>

20. Get sentitems length: JSONRPC method

HTTP POST METHOD:

`https://url-of-smseagle/jsonrpc/sms`

Parameter	Description
login	your user to login to SMSEagle
pass	your password to login to SMSEagle
responsetype	*(optional parameter)* simple = format response as simple object with one result field (default), extended = format response as extended JSON object

EXAMPLES:

```
{"method":"sms.get_sentitems_length",
"params":{"login":"john","pass":"doe"}}
```

RESPONSE:

Response: `{"result": "[number of messages in database Sentitems folder]"}`

Sample response: `{"result": "21"}`

Response (when wrong logindata): `{"result": "Invalid login or password"}`

Response (when wrong parameters): `{"result": "Wrong parameters"}`

RESPONSE (EXTENDED):

Response:

```
{"result":{"sentitems_length":[number of messages in database Sentitems
folder],"status":"ok"}}
```

Sample response: `{"result": {"sentitems_length":"21","status":"ok"}}`

Response (when wrong logindata):

```
{"result": {"error_text":"Invalid login or password","status":"error"}}
```

Response (when wrong parameters):

```
{"result": {"error_text":"Wrong parameters","status":"error"}}
```

21. Get GSM/3G signal strength: HTTP GET method

HTTP GET METHOD:

`https://url-of-smseagle/http_api/get_gsmsignal`

Parameter	Description

login	your user to login to SMSEagle
pass	your password to login to SMSEagle
modem_no	*(optional parameter)* modem number to be queried (default = 1). Used only in multimodem devices
responsetype	*(optional parameter)* text = format response as text (default), xml = format response as XML object

EXAMPLES:

```
https://url-of-smseagle/http_api/get_gsmsignal?
login=john&pass=doe&modem_no=1
```

RESPONSE:

Response: **GSM/3G signal strength in percent (values between 0-100).** If 3G modem is disconnected from GSM/3G network, method returns -1

Sample response: 74

Response (when wrong logindata): **Invalid login or password**

Response (when wrong parameters): **Wrong parameters**

RESPONSE (XML):

Response:

```
<xml>
  <signal_strength>
    [GSM signal strength in percent (values between 0-100)]
  </signal_strength>
  <status>ok</status>
</xml>
```

Sample response:

```
<xml>
  <signal_strength>74</signal_strength>
  <status>ok</status>
</xml>
```

Response (when wrong logindata):

```
<xml>
  <error_text>Invalid login or password</error_text>
  <status>error</status>
</xml>
```

Response (when wrong parameters):

```
<xml>
  <error_text>Wrong parameters</error_text>
  <status>error</status>
</xml>
```

22. Get GSM/3G signal strength: JSONRPC method

HTTP POST METHOD CALL:

```
https://url-of-smseagle/jsonrpc/sms
```

Parameter	Description
login	your user to login to SMSEagle
pass	your password to login to SMSEagle
modem_no	*(optional parameter)* modem number to be queried (default = 1). Used only in multimodem devices
responsetype	*(optional parameter)* simple = format response as simple object with one result field (default), extended = format response as extended JSON object

BODY:

```
{"method":"signal.get_gsmsignal", "params":{"login":"john","pass":"doe"}}
```

RESPONSE:

Response: `{"result": GSM/3G signal strength in percent: values between 0-100. If 3G modem is disconnected from GSM/3G network, method returns -1 }`

Sample response: `{"result":7}`

Response: `{"result": "Invalid login or password"}`

Response: `{"result": "Wrong parameters"}`

RESPONSE (EXTENDED):

Response:

```
{"result":{"signal_strength":[number of messages in database Sentitems folder],"status":"ok"}}
```

Sample response: `{"result": {"signal_strength":"7","status":"ok"}}`

Response (when wrong logindata):

```
{"result": {"error_text":"Invalid login or password","status":"error"}}
```

23. Phonebook group create: HTTP GET method

HTTP GET METHOD:

```
https://url-of-smseagle/http_api/group_create
```

Parameter	Description
login	your user to login to SMSEagle

pass	your password to login to SMSEagle
groupname	name for the created group
public	*(optional parameter)* 0 = private group, 1 = public group
responsetype	*(optional parameter)* text = format response as text (default), xml = format response as XML object

EXAMPLES:

```
https://url-of-smseagle/http_api/group_create?
login=john&pass=doe&groupname=myusers&public=1
```

RESPONSE:

Response: **OK; ID=[ID of created group]**

Sample response: OK; ID=5

Response (when wrong logindata): **Invalid login or password**

Response (when wrong parameters): **Wrong or missing >>groupname<< parameter**

RESPONSE (XML):

Response:

```
<xml>
  <group_id>[ID of created group]</group_id>
  <status>ok</status>
</xml>
```

Sample response:

```
<xml>
  <group_id>5</group_id>
  <status>ok</status>
</xml>
```

Response (when wrong logindata):

```
<xml>
  <error_text>Invalid login or password</error_text>
  <status>error</status>
</xml>
```

Response (when wrong parameters):

```
<xml>
  <error_text>Wrong or missing >>groupname<< parameter</error_text>
  <status>error</status>
</xml>
```

24. Phonebook group create: JSONRPC method

HTTP POST METHOD:

```
https://url-of-smseagle/jsonrpc/sms
```

Parameter	Description
login	your user to login to SMSEagle
pass	your password to login to SMSEagle
groupname	name for the created group
public	*(optional parameter)* 0 = private group, 1 = public group
responsetype	*(optional parameter)* simple = format response as simple object with one result field (default), extended = format response as extended JSON object

EXAMPLES:

```
{"method":"phonebook.group_create",
"params":{"login":"john","pass":"doe","groupname":"myusers","public":"1"}}
```

RESPONSE:

Response: `{"result": "OK; ID=[ID of created group]"}`

Sample response: `{"result": "OK; ID=5"}`

Response (when wrong logindata): `{"result": "Invalid login or password"}`

Response (when wrong parameters): `{"result": "Wrong or missing >>groupname<< parameter"}`

RESPONSE (EXTENDED):

Response:

```
{"result": {"group_id":"[ID of created group]","status":"ok"}}
```

Sample response: `{"result": {"group_id":"748","status":"ok"}}`

Response (when wrong logindata):

```
{"result": {"error_text":"Invalid login or password","status":"error"}}
```

Response (when wrong parameters):

```
{"result": {"error_text":"Wrong parameters","status":"error"}}
```

25. Phonebook group read: HTTP GET method

HTTP GET METHOD:

```
https://url-of-smseagle/http_api/group_read
```

Parameter	Description
login	your user to login to SMSEagle

pass	your password to login to SMSEagle
public	*(optional parameter)* 0 = private group (default value), 1 = public group
uid	*(optional parameter)* id of user who created the group
responsetype	*(optional parameter)* text = format response as text (default), xml = format response as XML object

EXAMPLES:

```
https://url-of-smseagle/http_api/group_read?
login=john&pass=doe&public=1&uid=12
```

RESPONSE:

Sample response: link

Response (when no data): **No data to display**

Response (when wrong logindata): **Invalid login or password**

Response (when wrong parameters):

Wrong or missing >>uid<< parameter

Wrong or missing >>public<< parameter

RESPONSE (XML):

Sample response:

```
<xml>
 <groups>
  <item>
   <Name>private</Name>
   <ID>2</ID>
   <id_user>2</id_user>
   <is_public>true</is_public>
  </item>
  <item>
   <Name>Everyone</Name>
   <ID>3</ID>
   <id_user>1</id_user>
   <is_public>true</is_public>
  </item>
  <item>
   <Name>work</Name>
   <ID>4</ID>
   <id_user>1</id_user>
   <is_public>true</is_public>
  </item></groups>
 <status>ok</status>
```

</xml>

Response (when no data):
<xml>
  <error_text>No data to display</error_text>
  <status>error</status>
</xml>

Response (when wrong logindata):
<xml>
  <error_text>Invalid login or password</error_text>
  <status>error</status>
</xml>

Response (when wrong parameters):
<xml>
  <error_text>Wrong or missing >>uid<< parameter</error_text>
  <status>error</status>
</xml>

Response (when wrong parameters):
<xml>
  <error_text>Wrong or missing >>public<< parameter</error_text>
  <status>error</status>
</xml>

26. Phonebook group read: JSONRPC method

HTTP POST METHOD:

```
https://url-of-smseagle/jsonrpc/sms
```

Parameter	Description
login	your user to login to SMSEagle
pass	your password to login to SMSEagle
public	*(optional parameter)* 0 = private group (default value), 1 = public group
uid	*(optional parameter)* id of user who created the group
responsetype	*(optional parameter)* simple = format response as simple object with one result field (default), extended = format response as extended JSON object

EXAMPLES:

```
{"method":"phonebook.group_read",
"params":{"login":"john","pass":"doe","public":"1","uid":"12"}}
```

RESPONSE:

Sample response:

```
{"result":[
 {"Name":"private","ID":"2","id_user":"1","is_public":"true"},
 {"Name":"Everyone","ID":"3","id_user":"1","is_public":"true"},
 {"Name":"work","ID":"4","id_user":"2","is_public":"true"}
]}
```

Response (when no data): `{"result": "No data to display"}`

Response (when wrong logindata): `{"result": "Invalid login or password"}`

Response (when wrong parameters):

```
{"result": "Wrong or missing >>uid<< parameter"}
{"result": "Wrong or missing >>public<< parameter"}
```

RESPONSE (EXTENDED):

Sample response:

```
{"result":[{"groups":[
 {"Name":"private","ID":"2","id_user":"1","is_public":"true"},
 {"Name":"Everyone","ID":"3","id_user":"1","is_public":"true"},
 {"Name":"work","ID":"4","id_user":"2","is_public":"true"}
],"status":"ok"}}
```

Response (when no data):

```
{"result": {"error_text":" No data to display","status":"error"}}
```

Response (when wrong logindata):

```
{"result": {"error_text":"Invalid login or password","status":"error"}}
```

Response (when wrong parameters):

```
{"result": {"error_text":"Wrong or missing >>uid<<
parameter","status":"error"}}

{"result": {"error_text":"Wrong or missing >>public<<
parameter","status":"error"}}
```

27. Phonebook group update: HTTP GET method

HTTP GET METHOD:

`https://url-of-smseagle/http_api/group_update`

Parameter	Description
login	your user to login to SMSEagle
pass	your password to login to SMSEagle
group_id	id of existing group

groupname	name for the group
public	*(optional parameter)* 0 = private group, 1 = public group
responsetype	*(optional parameter)* text = format response as text (default), xml = format response as XML object

EXAMPLES:

```
https://url-of-smseagle/http_api/group_update?
login=john&pass=doe&group_id=2&groupname=myusers&public=1
```

RESPONSE:

Response: **OK**

Response (when wrong logindata): **Invalid login or password**

Response (when wrong parameters):

Wrong or missing >>groupname<< parameter

Wrong or missing >>group_id<< parameter

Response (when group_id is wrong): **Group with the given id does not exists**

RESPONSE (XML):

Response:

```
<xml>
  <status>ok</status>
</xml>
```

Response (when wrong logindata):

```
<xml>
  <error_text>Invalid login or password</error_text>
  <status>error</status>
</xml>
```

Response (when wrong parameters):

```
<xml>
  <error_text>Wrong or missing >>groupname<< parameter</error_text>
  <status>error</status>
</xml>
```

```
<xml>
  <error_text>Wrong or missing >>group_id<< parameter</error_text>
  <status>error</status>
</xml>
```

Response (when group_id is wrong):

```
<xml>
  <error_text>Group with the given id does not exists</error_text>
```

```
  <status>error</status>
</xml>
```

28. Phonebook group update: JSONRPC method

HTTP POST METHOD:

```
https://url-of-smseagle/jsonrpc/sms
```

Parameter	Description
login	your user to login to SMSEagle
pass	your password to login to SMSEagle
group_id	id of existing group
groupname	name for the group
public	*(optional parameter)* 0 = private group, 1 = public group
responsetype	*(optional parameter)* simple = format response as simple object with one result field (default), extended = format response as extended JSON object

EXAMPLES:

```
{"method":"phonebook.group_update",
"params":{"login":"john","pass":"doe","group_id":"2","groupname":"myusers",
"public":"1"}}
```

RESPONSE:

Response: `{"result": "OK"}`

Response (when wrong logindata): `{"result": "Invalid login or password"}`

Response (when wrong parameters):

```
{"result": "Wrong or missing >>groupname<< parameter"}
{"result": "Wrong or missing >>group_id<< parameter"}
```

Response (when group_id is wrong): `{"result": "Group with the given id does not exists"}`

RESPONSE (EXTENDED):

Response: `{"result":{"status":"ok"}}`

Response (when wrong logindata):

```
{"result": {"error_text":"Invalid login or password","status":"error"}}
```

Response (when wrong parameters):

```
{"result": {"error_text":"Wrong or missing >>groupname<<
parameter","status":"error"}}

{"result": {"error_text":"Wrong or missing >>group_id<<
parameter","status":"error"}}
```

Response (when group_id is wrong):

```
{"result": {"error_text":"Group with the given id does not
exists","status":"error"}}
```

29. Phonebook group delete: HTTP GET method

HTTP GET METHOD:

```
https://url-of-smseagle/http_api/group_delete
```

Parameter	Description
login	your user to login to SMSEagle
pass	your password to login to SMSEagle
group_id	id of existing group
groupname	name of existing group
responsetype	*(optional parameter)* text = format response as text (default), xml = format response as XML object

EXAMPLES:

```
https://url-of-smseagle/http_api/group_delete?
login=john&pass=doe&group_id=2&groupname=myusers
```

RESPONSE:

Response: **OK**

Response (when wrong logindata): **Invalid login or password**

Response (when wrong parameters):

Wrong or missing >>groupname<< parameter

Wrong or missing >>group_id<< parameter

Response (when group_id is wrong): **Group with the given id and name does not exist**

RESPONSE (XML):

Response:

```
<xml>
  <status>ok</status>
</xml>
```

Response (when wrong logindata):

```
<xml>
  <error_text>Invalid login or password</error_text>
  <status>error</status>
</xml>
```

Response (when wrong parameters):

```
<xml>
  <error_text>Wrong or missing >>groupname<< parameter</error_text>
  <status>error</status>
</xml>

<xml>
  <error_text>Wrong or missing >>group_id<< parameter</error_text>
  <status>error</status>
</xml>
```

Response (when group_id is wrong):

```
<xml>
  <error_text>Group with the given id does not exists</error_text>
  <status>error</status>
</xml>
```

30. Phonebook group delete: JSONRPC method

HTTP POST METHOD:

```
https://url-of-smseagle/jsonrpc/sms
```

Parameter	Description
login	your user to login to SMSEagle
pass	your password to login to SMSEagle
group_id	id of existing group
groupname	name of existing group
responsetype	*(optional parameter)* simple = format response as simple object with one result field (default), extended = format response as extended JSON object

EXAMPLES:

```
{"method":"phonebook.group_delete",
"params":{"login":"john","pass":"doe","group_id":"2","groupname":"myusers"}
}
```

RESPONSE:

Response: `{"result": "OK"}`

Response (when wrong logindata): `{"result": "Invalid login or password"}`

Response (when wrong parameters):

```
{"result": "Wrong or missing >>groupname<< parameter"}
{"result": "Wrong or missing >>group_id<< parameter"}
```

Response (when group_id is wrong): `{"result": "Group with the given id and name does not exist"}`

RESPONSE (EXTENDED):

Response: `{"result":{"status":"ok"}}`

Response (when wrong logindata):
`{"result": {"error_text":"Invalid login or password","status":"error"}}`

Response (when wrong parameters):
`{"result": {"error_text":"Wrong or missing >>groupname<< parameter","status":"error"}}`

`{"result": {"error_text":"Wrong or missing >>group_id<< parameter","status":"error"}}`

Response (when group_id is wrong):
`{"result": {"error_text":"Group with the given id does not exists","status":"error"}}`

31. Phonebook group add contact: HTTP GET method

HTTP GET METHOD:

`https://url-of-smseagle/http_api/group_addcontact`

Parameter	Description
login	your user to login to SMSEagle
pass	your password to login to SMSEagle
group_id	id of existing group (or id's separated with comma)
contact_id	id of contact. The contact will be added to the group
responsetype	*(optional parameter)* text = format response as text (default), xml = format response as XML object

EXAMPLES:

`https://url-of-smseagle/http_api/group_addcontact?login=john&pass=doe&group_id=2&contact_id=1`

RESPONSE:

Response: **OK**

Response (when wrong logindata): **Invalid login or password**

Response (when wrong parameters):

Wrong or missing >>group_id<< parameter

Wrong or missing >>contact_id<< parameter

Response (when id is wrong):

Group with the given id does not exists

Contact with the given id does not exists

RESPONSE (XML):

Response:

```
<xml>
  <status>ok</status>
</xml>
```

Response (when wrong logindata):

```
<xml>
  <error_text>Invalid login or password</error_text>
  <status>error</status>
</xml>
```

Response (when wrong parameters):

```
<xml>
  <error_text>Wrong or missing >>group_id<< parameter</error_text>
  <status>error</status>
</xml>
```

```
<xml>
  <error_text>Wrong or missing >>contact_id<< parameter</error_text>
  <status>error</status>
</xml>
```

Response (when id is wrong):

```
<xml>
  <error_text>Group with the given id does not exists</error_text>
  <status>error</status>
</xml>
```

```
<xml>
  <error_text>Contact with the given id does not exists</error_text>
  <status>error</status>
</xml>
```

32. Phonebook group add contact: JSONRPC method

HTTP POST METHOD:

`https://url-of-smseagle/jsonrpc/sms`

Parameter	Description
login	your user to login to SMSEagle
pass	your password to login to SMSEagle
group_id	id of existing group (or id's separated with comma)

contact_id	id of contact. The contact will be added to the group
responsetype	*(optional parameter)* simple = format response as simple object with one result field (default), extended = format response as extended JSON object

EXAMPLES:

```
{"method":"phonebook.group_addcontact",
"params":{"login":"john","pass":"doe","group_id":"2","contact_id":"1"}}
```

RESPONSE:

Response: `{"result": "OK"}`

Response (when wrong logindata): `{"result": "Invalid login or password"}`

Response (when wrong parameters):

```
{"result": "Wrong or missing >>group_id<< parameter"}
{"result": "Wrong or missing >>contact_id<< parameter"}
```

Response (when id is wrong):

```
{"result": "Group with the given id does not exists"}
{"result": "Contact with the given id does not exists"}
```

RESPONSE (EXTENDED):

Response: `{"result":{"status":"ok"}}`

Response (when wrong logindata):

```
{"result": {"error_text":"Invalid login or password","status":"error"}}
```

Response (when wrong parameters):

```
{"result": {"error_text":"Wrong or missing >>group_id<<
parameter","status":"error"}}

{"result": {"error_text":"Wrong or missing >>contact_id<<
parameter","status":"error"}}
```

Response (when id is wrong):

```
{"result": {"error_text":"Group with the given id does not
exists","status":"error"}}

{"result": {"error_text":"Contact with the given id does not
exists","status":"error"}}
```

33. Phonebook group remove contact: HTTP GET method

HTTP GET METHOD:

```
https://url-of-smseagle/http_api/group_removecontact
```

Parameter	Description
login	your user to login to SMSEagle

pass	your password to login to SMSEagle
group_id	id of existing group (or id's separated with comma)
contact_id	id of contact. The contact will be removed from the group
responsetype	*(optional parameter)* text = format response as text (default), xml = format response as XML object

EXAMPLES:

```
https://url-of-smseagle/http_api/group_removecontact?
login=john&pass=doe&group_id=2&contact_id=1
```

RESPONSE:

Response: **OK**

Response (when wrong logindata): **Invalid login or password**

Response (when wrong parameters):

Wrong or missing >>group_id<< parameter

Wrong or missing >>contact_id<< parameter

Response (when id is wrong):

Group with the given id does not exists

Contact with the given id does not exists

RESPONSE (XML):

Response:

```
<xml>
  <status>ok</status>
</xml>
```

Response (when wrong logindata):

```
<xml>
  <error_text>Invalid login or password</error_text>
  <status>error</status>
</xml>
```

Response (when wrong parameters):

```
<xml>
  <error_text>Wrong or missing >>group_id<< parameter</error_text>
  <status>error</status>
</xml>
```

```
<xml>
  <error_text>Wrong or missing >>contact_id<< parameter</error_text>
  <status>error</status>
</xml>
```

Response (when id is wrong):

```
<xml>
  <error_text>Group with the given id does not exists</error_text>
  <status>error</status>
</xml>

<xml>
  <error_text>Contact with the given id does not exists</error_text>
  <status>error</status>
</xml>
```

34. Phonebook group remove contact: JSONRPC method

HTTP POST METHOD:

```
https://url-of-smseagle/jsonrpc/sms
```

Parameter	Description
login	your user to login to SMSEagle
pass	your password to login to SMSEagle
group_id	id of existing group (or id's separated with comma)
contact_id	id of contact. The contact will be removed from the group
responsetype	*(optional parameter)* simple = format response as simple object with one result field (default), extended = format response as extended JSON object

EXAMPLES:

```
{"method":"phonebook.group_removecontact",
"params":{"login":"john","pass":"doe","group_id":"2","contact_id":"1"}}
```

RESPONSE:

Response: `{"result": "OK"}`

Response (when wrong logindata): `{"result": "Invalid login or password"}`

Response (when wrong parameters):

```
{"result": "Wrong or missing >>group_id<< parameter"}
{"result": "Wrong or missing >>contact_id<< parameter"}
```

Response (when id is wrong):

```
{"result": "Group with the given id does not exists"}
{"result": "Contact with the given id does not exists"}
```

RESPONSE (EXTENDED):

Response: `{"result":{"status":"ok"}}`

Response (when wrong logindata):

```
{"result": {"error_text":"Invalid login or password","status":"error"}}
```

Response (when wrong parameters):

```
{"result": {"error_text":"Wrong or missing >>group_id<<
parameter","status":"error"}}

{"result": {"error_text":"Wrong or missing >>contact_id<<
parameter","status":"error"}}
```

Response (when id is wrong):

```
{"result": {"error_text":"Group with the given id does not
exists","status":"error"}}

{"result": {"error_text":"Contact with the given id does not
exists","status":"error"}}
```

35. Phonebook contact create: HTTP GET method

HTTP GET METHOD:

```
https://url-of-smseagle/http_api/contact_create
```

Parameter	Description
login	your user to login to SMSEagle
pass	your password to login to SMSEagle
contactname	name for the created contact
number	telephone number for the created contact
public	*(optional parameter)* 0 = private contact, 1 = public contact (default value)
responsetype	*(optional parameter)* text = format response as text (default), xml = format response as XML object

EXAMPLES:

```
https://url-of-smseagle/http_api/contact_create?
login=john&pass=doe&contactname=johndoe&number=12345678&public=1
```

RESPONSE:

Response: **OK; ID=[ID of created contact]**

Sample response: OK; ID=2

Response (when wrong logindata): **Invalid login or password**

Response (when wrong parameters):

Wrong or missing >>contactname<< parameter

Wrong or missing >>number<< parameter

RESPONSE (XML):

Response:

<xml>

```
  <contact_id>[ID of created contact]</contact_id>
  <status>ok</status>
</xml>
```

Sample response:

```
<xml>
  <contact_id>2</contact_id>
  <status>ok</status>
</xml>
```

Response (when wrong logindata):

```
<xml>
  <error_text>Invalid login or password</error_text>
  <status>error</status>
</xml>
```

Response (when wrong parameters):

```
<xml>
  <error_text>Wrong or missing >>contactname<< parameter</error_text>
  <status>error</status>
</xml>
```

```
<xml>
  <error_text>Wrong or missing >>number<< parameter</error_text>
  <status>error</status>
</xml>
```

36. Phonebook contact create: JSONRPC method

HTTP POST METHOD:

`https://url-of-smseagle/jsonrpc/sms`

Parameter	Description
login	your user to login to SMSEagle
pass	your password to login to SMSEagle
contactname	name for the created contact
number	telephone number for the created contact
public	*(optional parameter)* 0 = private contact 1 = public contact (default value)
responsetype	*(optional parameter)* simple = format response as simple object with one result field (default), extended = format response as extended JSON object

EXAMPLES:

```
{"method":"phonebook.contact_create",
```

```
"params":{"login":"john","pass":"doe","contactname":"johndoe","number":"123
45678","public":"1"}}
```

RESPONSE:

Response: `{"result": "OK; ID=[ID of created contact]"}`

Sample response: `{"result": "OK; ID=2"}`

Response (when wrong logindata): `{"result": "Invalid login or password"}`

Response (when wrong parameters):

```
{"result": "Wrong or missing >>contactname<< parameter"}
{"result": "Wrong or missing >>number<< parameter"}
```

RESPONSE (EXTENDED):

Response:

```
{"result": {"contact_id":"[ID of created contact]","status":"ok"}}
```

Sample response: `{"result": {"contact_id":"2","status":"ok"}}`

Response (when wrong logindata):

```
{"result": {"error_text":"Invalid login or password","status":"error"}}
```

Response (when wrong parameters):

```
{"result": {"error_text":"Wrong or missing >>contactname<<
parameter"},"status":"error"}}

{"result": {"error_text":"Wrong or missing >>number<<
parameter","status":"error"}}
```

37. Phonebook contact read: HTTP GET method

HTTP GET METHOD:

```
https://url-of-smseagle/http_api/contact_read
```

Parameter	Description
login	your user to login to SMSEagle
pass	your password to login to SMSEagle
public	*(optional parameter)* 0 = private contacts (default value), 1 = public contacts
uid	*(optional parameter)* id of user who created the contact
responsetype	*(optional parameter)* text = format response as text (default), xml = format response as XML object

EXAMPLES:

```
https://url-of-smseagle/http_api/contact_read?
login=john&pass=doe&public=1&uid=12
```

RESPONSE:

Sample response: link

Response (when no data): **No data to display**

Response (when wrong logindata): **Invalid login or password**

Response (when wrong parameters):

Wrong or missing >>uid<< parameter

Wrong or missing >>public<< parameter

RESPONSE (XML):

Sample response:

```
<xml>
 <contacts>
  <item>
   <ID>2</ID>
   <GroupID>-1</GroupID>
   <Name>John Doe</Name>
   <Number>123123123</Number>
   <id_user>1</id_user>
   <is_public>true</is_public>
  </item>
  <item>
   <ID>4</ID>
   <GroupID>-1</GroupID>
   <Name>Jan Nowak</Name>
   <Number>4215456456</Number>
   <id_user>1</id_user>
   <is_public>true</is_public>
  </item>
  <item>
   <ID>5</ID>
   <GroupID>-1</GroupID>
   <Name>Andy</Name>
   <Number>+441234155931</Number>
   <id_user>1</id_user>
   <is_public>true</is_public>
  </item>
 </contacts>
 <status>ok</status>
</xml>
```

Response (when no data):

```
<xml>
   <error_text>No data to display</error_text>
   <status>error</status>
</xml>
```

Response (when wrong logindata):

```
<xml>
  <error_text>Invalid login or password</error_text>
  <status>error</status>
</xml>
```

Response (when wrong parameters):

```
<xml>
  <error_text>Wrong or missing >>uid<< parameter</error_text>
  <status>error</status>
</xml>
```

```
<xml>
  <error_text>Wrong or missing >>public<< parameter</error_text>
  <status>error</status>
</xml>
```

38. Phonebook contact read: JSONRPC method

HTTP POST METHOD:

```
https://url-of-smseagle/jsonrpc/sms
```

Parameter	Description
login	your user to login to SMSEagle
pass	your password to login to SMSEagle
public	*(optional parameter)* 0 = private contacts (default value), 1 = public contacts
uid	*(optional parameter)* id of user who created the contact
responsetype	*(optional parameter)* simple = format response as simple object with one result field (default), extended = format response as extended JSON object

EXAMPLES:

```
{"method":"phonebook.contact_read",
"params":{"login":"john","pass":"doe","public":"1","uid":"12"}}
```

RESPONSE:

Sample response:

```
{"result":[
 {"ID":"2","GroupID":"-1","Name":"John
Doe","Number":"123123123","id_user":"1","is_public":"false"},
 {"ID":"4","GroupID":"-1","Name":"Jan
Nowak","Number":"4215456456","id_user":"1","is_public":"false"},
 {"ID":"5","GroupID":"-
```

```
1","Name":"Andy","Number":"+441234155931","id_user":"1","is_public":"false"
}
]}
```


Response (when no data): `{"result": "No data to display"}`

Response (when wrong logindata): `{"result": "Invalid login or password"}`

Response (when wrong parameters):


```
{"result": "Wrong or missing >>uid<< parameter"}
{"result": "Wrong or missing >>public<< parameter"}
```


RESPONSE (EXTENDED):

Sample response:


```
{"result":{"contacts":[
 {"ID":"2","GroupID":"-1","Name":"John
Doe","Number":"123123123","id_user":"1","is_public":"false"},
 {"ID":"4","GroupID":"-1","Name":"Jan
Nowak","Number":"4215456456","id_user":"1","is_public":"false"},
 {"ID":"5","GroupID":"-
1","Name":"Andy","Number":"+441234155931","id_user":"1","is_public":"false"
}
],"status":"ok"}}
```


Response (when no data):


```
{"result": {"error_text":" No data to display","status":"error"}}
```


Response (when wrong logindata):


```
{"result": {"error_text":"Invalid login or password","status":"error"}}
```


Response (when wrong parameters):


```
{"result": {"error_text":"Wrong or missing >>uid<<
parameter","status":"error"}}

{"result": {"error_text":"Wrong or missing >>public<<
parameter","status":"error"}}
```


39. Phonebook contact update: HTTP GET method

HTTP GET METHOD:

`https://url-of-smseagle/http_api/contact_update`

Parameter	Description
login	your user to login to SMSEagle
pass	your password to login to SMSEagle
contact_id	id of existing contact
contactname	name for the contact

number	phone number for the contact
public	*(optional parameter)* 0 = private group, 1 = public group
responsetype	*(optional parameter)* text = format response as text (default), xml = format response as XML object

EXAMPLES:

```
https://url-of-smseagle/http_api/contact_update?
login=john&pass=doe&contact_id=4&contactname=johnlord&number=123456789&publ
ic=1
```

RESPONSE:

Response: **OK**

Response (when wrong logindata): **Invalid login or password**

Response (when wrong parameters):

Wrong or missing >>contactname<< parameter

Wrong or missing >>contact_id<< parameter

Wrong or missing >>number<< parameter

Response (when contact_id is wrong): **Contact with the given id does not exists**

RESPONSE (XML):

Response:

```
<xml>
  <status>ok</status>
</xml>
```

Response (when wrong logindata):

```
<xml>
  <error_text>Invalid login or password</error_text>
  <status>error</status>
</xml>
```

Response (when wrong parameters):

```
<xml>
  <error_text>Wrong or missing >>contactname<< parameter</error_text>
  <status>error</status>
</xml>
```

```
<xml>
  <error_text>Wrong or missing >>contact_id<< parameter</error_text>
  <status>error</status>
</xml>
```

```
<xml>
```

```
  <error_text>Wrong or missing >>number<< parameter</error_text>
  <status>error</status>
</xml>
```

Response (when contact_id is wrong):

```
<xml>
  <error_text>Contact with the given id does not exists</error_text>
  <status>error</status>
</xml>
```

40. Phonebook contact update: JSONRPC method

HTTP POST METHOD:

`https://url-of-smseagle/jsonrpc/sms`

Parameter	Description
login	your user to login to SMSEagle
pass	your password to login to SMSEagle
contact_id	id of existing contact
contactname	name for the contact
number	phone number for the contact
public	*(optional parameter)* 0 = private group, 1 = public group
responsetype	*(optional parameter)* simple = format response as simple object with one result field (default), extended = format response as extended JSON object

EXAMPLES:

```
{"method":"phonebook.contact_update",
"params":{"login":"john","pass":"doe","contact_id":"4","contactname":"johnl
ord","number":"123456789","public":"1"}}
```

RESPONSE:

Response: `{"result": "OK"}`

Response (when wrong logindata): `{"result": "Invalid login or password"}`

Response (when wrong parameters):

```
{"result": "Wrong or missing >>contactname<< parameter"}
{"result": "Wrong or missing >>contact_id<< parameter"}
{"result": "Wrong or missing >>number<< parameter"}
```

Response (when contact_id is wrong): `{"result": "Contact with the given id does not exists"}`

RESPONSE (EXTENDED):

Response: `{"result":{"status":"ok"}}`

Response (when wrong logindata):
```
{"result": {"error_text":"Invalid login or password","status":"error"}}
```

Response (when wrong parameters):
```
{"result": {"error_text":"Wrong or missing >>contactname<<
parameter","status":"error"}}

{"result": {"error_text":"Wrong or missing >>contact_id<<
parameter","status":"error"}}

{"result": {"error_text":"Wrong or missing >>number<<
parameter","status":"error"}}
```

Response (when contact_id is wrong):
```
{"result": {"error_text":"Contact with the given id does not
exists","status":"error"}}
```

41. Phonebook contact delete: HTTP GET method

HTTP GET METHOD:

```
https://url-of-smseagle/http_api/contact_delete
```

Parameter	Description
login	your user to login to SMSEagle
pass	your password to login to SMSEagle
contact_id	id of existing contact
contactname	name of existing contact
responsetype	*(optional parameter)* text = format response as text (default), xml = format response as XML object

EXAMPLES:

```
https://url-of-smseagle/http_api/contact_delete?
login=john&pass=doe&contact_id=4&contactname=johnlord
```

RESPONSE:

Response: **OK**

Response (when wrong logindata): **Invalid login or password**

Response (when wrong parameters):

Wrong or missing >>contactname<< parameter

Wrong or missing >>contact_id<< parameter

Response (when contact_id is wrong): **Contact with the given id and name does not exists**

RESPONSE (XML):

Response:

```
<xml>
  <status>ok</status>
</xml>
```

Response (when wrong logindata):

```
<xml>
  <error_text>Invalid login or password</error_text>
  <status>error</status>
</xml>
```

Response (when wrong parameters):

```
<xml>
  <error_text>Wrong or missing >>contactname<< parameter</error_text>
  <status>error</status>
</xml>
```

```
<xml>
  <error_text>Wrong or missing >>contact_id<< parameter</error_text>
  <status>error</status>
</xml>
```

Response (when contact_id is wrong):

```
<xml>
  <error_text>Contact with the given id and name does not exists </error_text>
  <status>error</status>
</xml>
```

42. Phonebook contact delete: JSONRPC method

HTTP POST METHOD:

`https://url-of-smseagle/jsonrpc/sms`

Parameter	Description
login	your user to login to SMSEagle
pass	your password to login to SMSEagle
contact_id	id of existing contact
contactname	name of existing contact
responsetype	*(optional parameter)* simple = format response as simple object with one result field (default), extended = format response as extended JSON object

EXAMPLES:

```
{"method":"phonebook.contact_delete",
```

```
"params":{"login":"john","pass":"doe","contact_id":"4","contactname":"johnl
ord"}}
```

RESPONSE:

Response: `{"result": "OK"}`

Response (when wrong logindata): `{"result": "Invalid login or password"}`

Response (when wrong parameters):

```
{"result": "Wrong or missing >>contactname<< parameter"}
{"result": "Wrong or missing >>contact_id<< parameter"}
```

Response (when contact_id is wrong): `{"result": "Contact with the given id and name does not exists"}`

RESPONSE (EXTENDED):

Response: `{"result":{"status":"ok"}}`

Response (when wrong logindata):

```
{"result": {"error_text":"Invalid login or password","status":"error"}}
```

Response (when wrong parameters):

```
{"result": {"error_text":"Wrong or missing >>contactname<<
parameter","status":"error"}}

{"result": {"error_text":"Wrong or missing >>contact_id<<
parameter","status":"error"}}
```

Response (when contact_id is wrong):

```
{"result": {"error_text":"Contact with the given id and name does not
exists","status":"error"}}
```

43. Call with termination: HTTP GET method

HTTP GET METHOD:

```
https://url-of-smseagle/http_api/call_with_termination
```

Parameter	Description
login	your user to login to SMSEagle
pass	your password to login to SMSEagle
to	phone numer to call
duration	connection duration (in seconds)
modem_no	*(optional parameter)* modem number (only for multimodem devices)
responsetype	*(optional parameter)* text = format response as text (default), xml = format response as XML object

EXAMPLES:

```
https://url-of-smseagle/http_api/call_with_termination?
login=john&pass=doe&to=123456789&duration=5
```

RESPONSE:

Response: **OK**

Response (when wrong logindata): **Invalid login or password**

Response (when modem doesn't support voice calls): **This modem doesn't support voice calls**

Response (when wrong parameters):

Wrong or missing >>to<< parameter

Wrong or missing >>duration<< parameter

Response (when modem_no is wrong): **Modem not recognized**

RESPONSE (XML):

Response:

```
<xml>
  <status>ok</status>
</xml>
```

Response (when wrong logindata):

```
<xml>
  <error_text>Invalid login or password</error_text>
  <status>error</status>
</xml>
```

Response (when wrong parameters):

```
<xml>
  <error_text>Wrong or missing >>duration<< parameter</error_text>
  <status>error</status>
</xml>
```

Response (when modem doesn't support voice calls):

```
<xml>
  <error_text>This modem doesn't support voice calls</error_text>
  <status>error</status>
</xml>
```

Response (when modem_no is wrong):

```
<xml>
  <error_text> Modem not recognized </error_text>
  <status>error</status>
</xml>
```

Important notice: this method is available only for devices with 3G voice modem

44. Call with termination: JSONRPC method

HTTP POST METHOD:

```
https://url-of-smseagle/jsonrpc/sms
```

Parameter	Description
login	your user to login to SMSEagle
pass	your password to login to SMSEagle
to	phone numer to call
duration	connection duration (in seconds)
modem_no	*(optional parameter)* calling modem number (only for multimodem devices)
responsetype	*(optional parameter)* text = format response as text (default), xml = format response as XML object

EXAMPLES:

```
{"method":"phone.call_with_termination",
"params":{"login":"john","pass":"doe","to":"123456789", "duration":"5"}}
```

RESPONSE:

Response: `{"result": "OK"}`

Response (when wrong logindata): `{"result": "Invalid login or password"}`

Response (when modem doesn't support voice calls): `{"result": "This modem doesn't support voice calls"}`

Response (when wrong parameters):

```
{"result": "Wrong or missing >>to<< parameter"}
{"result": "Wrong or missing >>duration<< parameter"}
```

Response (when modem_no is wrong): `{"result": "Modem not recognized"}`

RESPONSE (EXTENDED):

Response: `{"result":{"status":"ok"}}`

Response (when wrong logindata):

```
{"result": {"error_text":"Invalid login or password","status":"error"}}
```

Response (when modem doesn't support voice calls):

```
{"result": {"error_text":"This modem doesn't support voice
calls","status":"error"}}
```

Response (when wrong parameters):

```
{"result": {"error_text":"Wrong or missing >>to<<
parameter","status":"error"}}
```

```
{"result": {"error_text":"Wrong or missing >>duration<<
parameter","status":"error"}}
```

Response (when modem_no is wrong):

```
{"result": {"error_text":"Modem not recognized","status":"error"}}
```

Important notice: this method is available only for devices with 3G voice modem

45. Phonebook shift create: HTTP GET method

HTTP GET METHOD:

```
https://url-of-smseagle/http_api/shift_create
```

Parameter	Description
login	your user to login to SMSEagle
pass	your password to login to SMSEagle
name	name for the created shift
enabled	0 = disabled, 1 = enabled
(mon-sun)_from	*shift start hour for each day of week*
(mon-sun)_to	*shift end hour for each day of week*
responsetype	*(optional parameter)* text = format response as text (default), xml = format response as XML object

EXAMPLES:

```
https://url-of-smseagle/http_api/shift_create?
login=john&pass=doe&name=myshift&mon_from=08:00&mon_to=16:00&wed_from=09:00
&wed_to=20:00&enabled=1
```

RESPONSE:

Response: **OK; ID=[ID of created shift]**

Sample response: OK; ID=5

Response (when wrong logindata): **Invalid login or password**

Response (when wrong parameters): **Wrong or missing >>name<< parameter**

RESPONSE (XML):

Response:

```
<xml>
  <shift_id>[ID of created shift]</shift_id>
  <status>ok</status>
</xml>
```

Sample response:

```
<xml>
  <shift_id>5</shift_id>
  <status>ok</status>
</xml>
```

Response (when wrong logindata):

```
<xml>
  <error_text>Invalid login or password</error_text>
  <status>error</status>
</xml>
```

Response (when wrong parameters):

```
<xml>
  <error_text>Wrong or missing >>name<< parameter</error_text>
  <status>error</status>
</xml>
```

46. Phonebook shift create: JSONRPC method

HTTP POST METHOD:

`https://url-of-smseagle/jsonrpc/sms`

Parameter	Description
login	your user to login to SMSEagle
pass	your password to login to SMSEagle
name	name for the created shift
enabled	0 = disabled, 1 = enabled
(mon-sun)_from	*shift start hour for each day of week*
(mon-sun)_to	*shift end hour for each day of week*
responsetype	*(optional parameter)* text = format response as text (default), xml = format response as XML object

EXAMPLES:

```
{"method":"phonebook.shift_create",
"params":{"login":"john","pass":"doe","name":"myshift","mon_from":"08:00","
mon_to":"16:00","wed_from":"09:00","wed_to":"20:00","enabled":"1"}}
```

RESPONSE:

Response: `{"result": "OK; ID=[ID of created shift]"}`

Sample response: `{"result": "OK; ID=5"}`

Response (when wrong logindata): `{"result": "Invalid login or password"}`

Response (when wrong parameters): `{"result": "Wrong or missing >>name<< parameter"}`

RESPONSE (EXTENDED):

Response:

```
{"result": {"shift_id":"[ID of created shift]","status":"ok"}}
```

Sample response: `{"result": {"shift_id":"748","status":"ok"}}`

Response (when wrong logindata):

```
{"result": {"error_text":"Invalid login or password","status":"error"}}
```

Response (when wrong parameters):

```
{"result": {"error_text":"Wrong or missing >>name<< parameter
","status":"error"}}
```

47. Phonebook shift read: HTTP GET method

HTTP GET METHOD:

```
https://url-of-smseagle/http_api/shift_read
```

Parameter	Description
login	your user to login to SMSEagle
pass	your password to login to SMSEagle
name	*(optional parameter)* shift name
enabled	*(optional parameter)* 0 = disabled, 1 = enabled
shift_id	*(optional parameter)* shift id
responsetype	*(optional parameter)* text = format response as text (default), xml = format response as XML object

EXAMPLES:

```
https://url-of-smseagle/http_api/shift_read?
login=john&pass=doe&name=myshift
```

RESPONSE:

Sample response: link

Response (when no data): **No data to display**

Response (when wrong logindata): **Invalid login or password**

Response (when wrong parameters):

Wrong >>shift_id<< parameter

RESPONSE (XML):

Sample response:

```
<xml>
 <shifts>
```

```
  <shift>
   <id_shift>62</id_shift>
   <name>myshift</name>
   <mon_from>08:00</mon_from>
   <mon_to>16:00</mon_to>
   <tue_from/>
   <tue_to/>
   <wed_from>09:00</wed_from>
   <wed_to>20:00</wed_to>
   <thu_from/>
   <thu_to/>
   <fri_from/>
   <fri_to/>
   <sat_from/>
   <sat_to/>
   <sun_from/>
   <sun_to/>
   <enabled>true</enabled>
  </shift>
 </shifts>
 <status>ok</status>
</xml>
```

Response (when no data):

```
<xml>
  <error_text>No data to display</error_text>
  <status>error</status>
</xml>
```

Response (when wrong logindata):

```
<xml>
  <error_text>Invalid login or password</error_text>
  <status>error</status>
</xml>
```

Response (when wrong parameters):

```
<xml>
  <error_text> Wrong >>id<< parameter</error_text>
  <status>error</status>
</xml>
```

Response (when wrong parameters):

```
<xml>
  <error_text> Wrong >>enabled<< parameter</error_text>
  <status>error</status>
</xml>
```

48. Phonebook shift read: JSONRPC method

HTTP POST METHOD:

`https://url-of-smseagle/jsonrpc/sms`

Parameter	Description
login	your user to login to SMSEagle
pass	your password to login to SMSEagle
name	*(optional parameter)* shift name
enabled	*(optional parameter)* 0 = disabled, 1 = enabled
shift_id	*(optional parameter)* shift id
responsetype	*(optional parameter)* text = format response as text (default), xml = format response as XML object

EXAMPLES:

```
{"method":"phonebook.shift_read",
"params":{"login":"john","pass":"doe","name":"myshift"}}
```

RESPONSE:

Sample response:

```
{
  "result": [
    {
      "id_shift": "62",
      "name": "myshift",
      "mon_from": "08:00",
      "mon_to": "16:00",
      "tue_from": null,
      "tue_to": null,
      "wed_from": "09:00",
      "wed_to": "20:00",
      "thu_from": null,
      "thu_to": null,
      "fri_from": null,
      "fri_to": null,
      "sat_from": null,
      "sat_to": null,
      "sun_from": null,
      "sun_to": null,
      "enabled": "true"
    }
  ]
}
```

Response (when no data): `{"result": "No data to display"}`

Response (when wrong logindata): `{"result": "Invalid login or password"}`

Response (when wrong parameters):

```
{"result": "Wrong >> enabled<< parameter"}
{"result": "Wrong >>shift_id<< parameter"}
```

RESPONSE (EXTENDED):

Sample response:

```
{
  "result": {
    "shifts": [
      {
        "id_shift": "62",
        "name": "myshift",
        "mon_from": "08:00",
        "mon_to": "16:00",
        "tue_from": null,
        "tue_to": null,
        "wed_from": "09:00",
        "wed_to": "20:00",
        "thu_from": null,
        "thu_to": null,
        "fri_from": null,
        "fri_to": null,
        "sat_from": null,
        "sat_to": null,
        "sun_from": null,
        "sun_to": null,
        "enabled": "false"
      }
    ],
    "status": "ok"
  }
}
```

Response (when no data):

```
{"result": {"error_text":" No data to display","status":"error"}}
```

Response (when wrong logindata):

```
{"result": {"error_text":"Invalid login or password","status":"error"}}
```

Response (when wrong parameters):

```
{"result": {"error_text":" Wrong >> enabled<< parameter ","status":"error"}}

{"result": {"error_text":" Wrong >> shift_id<< parameter
","status":"error"}}
```

49. Phonebook shift update: HTTP GET method

HTTP GET METHOD:

```
https://url-of-smseagle/http_api/shift_update
```

Parameter	Description

login	your user to login to SMSEagle
pass	your password to login to SMSEagle
shift_id	id of existing shift
name	name for the shift
enabled	0 = disabled, 1 = enabled
responsetype	*(optional parameter)* text = format response as text (default), xml = format response as XML object

EXAMPLES:

```
https://url-of-smseagle/http_api/shift_update?
login=john&pass=doe&shift_id=24&name=updatedshift&enabled=1
```

RESPONSE:

Response: **OK**

Response (when wrong logindata): **Invalid login or password**

Response (when wrong parameters):

Wrong or missing >>name<< parameter

Wrong or missing >>shift_id<< parameter

Response (when shift_id is wrong): **Shift with the given id does not exists**

RESPONSE (XML):

Response:

```
<xml>
  <status>ok</status>
</xml>
```

Response (when wrong logindata):

```
<xml>
  <error_text>Invalid login or password</error_text>
  <status>error</status>
</xml>
```

Response (when wrong parameters):

```
<xml>
  <error_text>Wrong or missing >>name<< parameter</error_text>
  <status>error</status>
</xml>
```

```
<xml>
  <error_text>Wrong or missing >>shift_id<< parameter</error_text>
  <status>error</status>
</xml>
```

Response (when shift_id is wrong):

```
<xml>
  <error_text>Shift with given id does not exists</error_text>
  <status>error</status>
</xml>
```

50. Phonebook shift update: JSONRPC method

HTTP POST METHOD:

```
https://url-of-smseagle/jsonrpc/sms
```

Parameter	Description
login	your user to login to SMSEagle
pass	your password to login to SMSEagle
shift_id	id of existing shift
name	name for the shift
enabled	0 = disabled, 1 = enabled
responsetype	*(optional parameter)* text = format response as text (default), xml = format response as XML object

EXAMPLES:

```
{"method":"phonebook.shift_update",
"params":{"login":"john","pass":"doe","shift_id":"24","name":"updatedshift"
,"enabled":"1"}}
```

RESPONSE:

Response: `{"result": "OK"}`

Response (when wrong logindata): `{"result": "Invalid login or password"}`

Response (when wrong parameters):

```
{"result": "Wrong or missing >>name<< parameter"}
{"result": "Wrong or missing >>shift_id<< parameter"}
```

Response (when shift_id is wrong): `{"result": "Shift with the given id does not exists"}`

RESPONSE (EXTENDED):

Response: `{"result":{"status":"ok"}}`

Response (when wrong logindata):

```
{"result": {"error_text":"Invalid login or password","status":"error"}}
```

Response (when wrong parameters):

```
{"result": {"error_text":"Wrong or missing >>name<<
parameter","status":"error"}}

{"result": {"error_text":"Wrong or missing >>shift_id<<
parameter","status":"error"}}
```

Response (when shift_id is wrong):

```
{"result": {"error_text":"Shift with the given id does not
exists","status":"error"}}
```

51. Phonebook shift delete: HTTP GET method

HTTP GET METHOD:

```
https://url-of-smseagle/http_api/shift_delete
```

Parameter	Description
login	your user to login to SMSEagle
pass	your password to login to SMSEagle
shift_id	id of existing shift
responsetype	*(optional parameter)* text = format response as text (default), xml = format response as XML object

EXAMPLES:

```
https://url-of-smseagle/http_api/shift_delete?
login=john&pass=doe&shift_id=24
```

RESPONSE:

Response: **OK**

Response (when wrong logindata): **Invalid login or password**

Response (when wrong parameters):

Wrong or missing >>shift_id<< parameter

Response (when shift_id is wrong): **Shift with the given id does not exist**

RESPONSE (XML):

Response:

```
<xml>
  <status>ok</status>
</xml>
```

Response (when wrong logindata):

```
<xml>
  <error_text>Invalid login or password</error_text>
  <status>error</status>
</xml>
```

```
<xml>
  <error_text>Wrong or missing >>shift_id<< parameter</error_text>
  <status>error</status>
</xml>
```

Response (when shift_id is wrong):

```
<xml>
  <error_text>Shift with the given id does not exists</error_text>
  <status>error</status>
</xml>
```

52. Phonebook shift delete: JSONRPC method

HTTP POST METHOD:

`https://url-of-smseagle/jsonrpc/sms`

Parameter	Description
login	your user to login to SMSEagle
pass	your password to login to SMSEagle
shift_id	id of existing shift
responsetype	*(optional parameter)* text = format response as text (default), xml = format response as XML object

EXAMPLES:

```
{"method":"phonebook.shift_delete",
"params":{"login":"john","pass":"doe","shift_id":"24"}}
```

RESPONSE:

Response: `{"result": "OK"}`

Response (when wrong logindata): `{"result": "Invalid login or password"}`

Response (when wrong parameters):

`{"result": "Wrong or missing >>shift_id<< parameter"}`

Response (when shift_id is wrong): `{"result": "Shift with the given id does not exist"}`

RESPONSE (EXTENDED):

Response: `{"result":{"status":"ok"}}`

Response (when wrong logindata):

`{"result": {"error_text":"Invalid login or password","status":"error"}}`

Response (when wrong parameters):

```
{"result": {"error_text":"Wrong or missing >>shift_id<<
parameter","status":"error"}}
```

Response (when shift_id is wrong):

```
{"result": {"error_text":"Shift with the given id does not
exists","status":"error"}}
```

53. Phonebook shift add contact: HTTP GET method

HTTP GET METHOD:

```
https://url-of-smseagle/http_api/shift_addcontact
```

Parameter	Description
login	your user to login to SMSEagle
pass	your password to login to SMSEagle
shift_id	id of existing shift (or id's separated with comma)
contact_id	id of contact. The contact will be added to the shift
responsetype	*(optional parameter)* text = format response as text (default), xml = format response as XML object

EXAMPLES:

```
https://url-of-smseagle/http_api/shift_addcontact?
login=john&pass=doe&shift_id=2&contact_id=1
```

RESPONSE:

Response: **OK**

Response (when wrong logindata): **Invalid login or password**

Response (when wrong parameters):

Wrong or missing >>shift_id<< parameter

Wrong or missing >>contact_id<< parameter

Response (when id is wrong):

Shift with the given id does not exists

Contact with the given id does not exists

RESPONSE (XML):

Response:

```
<xml>
  <status>ok</status>
</xml>
```

Response (when wrong logindata):

```
<xml>
  <error_text>Invalid login or password</error_text>
```

```
  <status>error</status>
</xml>
```

Response (when wrong parameters):

```
<xml>
  <error_text>Wrong or missing >>shift_id<< parameter</error_text>
  <status>error</status>
</xml>

<xml>
  <error_text>Wrong or missing >>contact_id<< parameter</error_text>
  <status>error</status>
</xml>
```

Response (when id is wrong):

```
<xml>
  <error_text>Shift with the given id does not exists</error_text>
  <status>error</status>
</xml>

<xml>
  <error_text>Contact with the given id does not exists</error_text>
  <status>error</status>
</xml>
```

54. Phonebook shift add contact: JSONRPC method

HTTP POST METHOD:

```
https://url-of-smseagle/jsonrpc/sms
```

Parameter	Description
login	your user to login to SMSEagle
pass	your password to login to SMSEagle
shift_id	id of existing shift (or id's separated with comma)
contact_id	id of contact. The contact will be added to the shift
responsetype	*(optional parameter)* text = format response as text (default), xml = format response as XML object

EXAMPLES:

```
{"method":"phonebook.shift_addcontact",
"params":{"login":"john","pass":"doe","shift_id":"24","contact_id":"1"}}
```

RESPONSE:

Response: `{"result": "OK"}`

Response (when wrong logindata): `{"result": "Invalid login or password"}`

Response (when wrong parameters):

```
{"result": "Wrong or missing >>shift_id<< parameter"}
{"result": "Wrong or missing >>contact_id<< parameter"}
```

Response (when id is wrong):

```
{"result": "Shift with the given id does not exists"}
{"result": "Contact with the given id does not exists"}
```

RESPONSE (EXTENDED):

Response: `{"result":{"status":"ok"}}`

Response (when wrong logindata):

```
{"result": {"error_text":"Invalid login or password","status":"error"}}
```

Response (when wrong parameters):

```
{"result": {"error_text":"Wrong or missing >>shift_id<<
parameter","status":"error"}}

{"result": {"error_text":"Wrong or missing >>contact_id<<
parameter","status":"error"}}
```

Response (when id is wrong):

```
{"result": {"error_text":"Shift with the given id does not
exists","status":"error"}}

{"result": {"error_text":"Contact with the given id does not
exists","status":"error"}}
```

55. Phonebook shift remove contact: HTTP GET method

HTTP GET METHOD:

```
https://url-of-smseagle/http_api/shift_removecontact
```

Parameter	Description
login	your user to login to SMSEagle
pass	your password to login to SMSEagle
shift_id	id of existing shift (or id's separated with comma)
contact_id	id of contact. The contact will be added to the shift
responsetype	*(optional parameter)* text = format response as text (default), xml = format response as XML object

EXAMPLES:

```
https://url-of-smseagle/http_api/shift_removecontact?
login=john&pass=doe&shift_id=24&contact_id=1
```

RESPONSE:

Response: **OK**

Response (when wrong logindata): **Invalid login or password**

Response (when wrong parameters):

Wrong or missing >>shift_id<< parameter

Wrong or missing >>contact_id<< parameter

Response (when id is wrong):

Shift with the given id does not exists

Contact with the given id does not exists

RESPONSE (XML):

Response:

```
<xml>
  <status>ok</status>
</xml>
```

Response (when wrong logindata):

```
<xml>
  <error_text>Invalid login or password</error_text>
  <status>error</status>
</xml>
```

Response (when wrong parameters):

```
<xml>
  <error_text>Wrong or missing >>shift_id<< parameter</error_text>
  <status>error</status>
</xml>
```

```
<xml>
  <error_text>Wrong or missing >>contact_id<< parameter</error_text>
  <status>error</status>
</xml>
```

Response (when id is wrong):

```
<xml>
  <error_text>Shift with the given id does not exists</error_text>
  <status>error</status>
</xml>
```

```
<xml>
  <error_text>Contact with the given id does not exists</error_text>
  <status>error</status>
</xml>
```

56. Phonebook shift remove contact: JSONRPC method

HTTP POST METHOD:

```
https://url-of-smseagle/jsonrpc/sms
```

Parameter	Description
login	your user to login to SMSEagle
pass	your password to login to SMSEagle
shift_id	id of existing shift (or id's separated with comma)
contact_id	id of contact. The contact will be added to the shift
responsetype	*(optional parameter)* text = format response as text (default), xml = format response as XML object

EXAMPLES:

```
{"method":"phonebook.shift_removecontact",
"params":{"login":"john","pass":"doe","shift_id":"24","contact_id":"1"}}
```

RESPONSE:

Response: `{"result": "OK"}`

Response (when wrong logindata): `{"result": "Invalid login or password"}`

Response (when wrong parameters):

```
{"result": "Wrong or missing >>shift_id<< parameter"}
{"result": "Wrong or missing >>contact_id<< parameter"}
```

Response (when id is wrong):

```
{"result": "Shift with the given id does not exists"}
{"result": "Contact with the given id does not exists"}
```

RESPONSE (EXTENDED):

Response: `{"result":{"status":"ok"}}`

Response (when wrong logindata):

```
{"result": {"error_text":"Invalid login or password","status":"error"}}
```

Response (when wrong parameters):

```
{"result": {"error_text":"Wrong or missing >>shift_id<<
parameter","status":"error"}}

{"result": {"error_text":"Wrong or missing >>contact_id<<
parameter","status":"error"}}
```

Response (when id is wrong):

```
{"result": {"error_text":"Shift with the given id does not
exists","status":"error"}}
```

```
{"result": {"error_text":"Contact with the given id does not
exists","status":"error"}}
```

57. Get modem state: HTTP GET method

HTTP GET METHOD:

```
https://url-of-smseagle/http_api/get_modem_state
```

Parameter	Description
login	your user to login to SMSEagle
pass	your password to login to SMSEagle
modem_no	*(optional parameter)* modem number to be queried (default = 1). Used only in multimodem devices
responsetype	*(optional parameter)* text = format response as text (default), xml = format response as XML object

EXAMPLES:

```
https://url-of-smseagle/http_api/get_modem_state?
login=john&pass=doe&modem_no=1
```

RESPONSE:

Response: **enabled / disabled**
Sample response: enabled
Response (when wrong logindata): **Invalid login or password**
Response (when modem doesn't exist): **Wrong modem number**

RESPONSE (XML):

Response:

```
<xml>
 <modem_status>
  enabled / disabled
 </modem_status>
 <status>
  ok
 </status>
</xml>
```

Sample response:

```
<xml>
 <modem_status>
  enabled
 </modem_status>
 <status>
```

ok
</status>
</xml>

Response (when wrong logindata):
<xml>
<error_text>Invalid login or password</error_text>
<status>error</status>
</xml>

Response (when modem doesn't exist):
<xml>
<error_text> Wrong modem number</error_text>
<status>error</status>
</xml>

58. Get modem state: JSONRPC method

HTTP POST METHOD:

```
https://url-of-smseagle/jsonrpc/sms
```

Parameter	Description
login	your user to login to SMSEagle
pass	your password to login to SMSEagle
modem_no	*(optional parameter)* modem number to be queried (default = 1). Used only in multimodem devices
responsetype	*(optional parameter)* text = format response as text (default), xml = format response as XML object

BODY:

```
{"method":"sms.get_modem_state", "params":{"login":"john","pass":"doe"}}
```

RESPONSE:

```
{"result": enabled / disabled }
```

Sample response: `{"result":"enabled"}`
Response (when wrong logindata): `{"result": "Invalid login or password"}`
Response (when modem doesn't exist): `{"result": "Wrong modem number"}`

RESPONSE (EXTENDED):

Response:

```
{"result":{"modem_status": enabled / disabled,"status":"ok"}}
```

Sample response: `{"result": {"modem_status":"Wrong modem`

number","status":"ok"}}

Response (when wrong logindata):
{"result": {"error_text":"Invalid login or password","status":"error"}}
Response (when modem doesn't exist):
{"result": {"error_text":"Wrong modem number","status":"error"}}

59. Set modem state: HTTP GET method

HTTP GET METHOD:

```
https://url-of-smseagle/http_api/set_modem_state
```

Parameter	Description
login	your user to login to SMSEagle
pass	your password to login to SMSEagle
modem_no	*(optional parameter)* modem number for status change (default = 1). Used only in multimodem devices
status	*enabled / disabled*
responsetype	*(optional parameter)* text = format response as text (default), xml = format response as XML object

EXAMPLES:

```
https://url-of-smseagle/http_api/set_modem_state?
login=john&pass=doe&modem_no=1&status=enabled
```

RESPONSE:

Response: **OK**
Response (when wrong logindata): **Invalid login or password**
Response (when modem doesn't exist): **Wrong modem number**
Response (when wrong modem state): **Wrong modem state**

RESPONSE (XML):

Response:

```
<xml>
 <status>
  ok
 </status>
</xml>
```

Response (when wrong logindata):

```
<xml>
  <error_text>Invalid login or password</error_text>
  <status>error</status>
```

</xml>

Response (when modem doesn't exist):

```
<xml>
  <error_text> Wrong modem number</error_text>
  <status>error</status>
</xml>
```

Response (when wrong modem state):

```
<xml>
  <error_text>Wrong modem state</error_text>
  <status>error</status>
</xml>
```

60. Set modem state: JSONRPC method

HTTP POST METHOD:

`https://url-of-smseagle/jsonrpc/sms`

Parameter	Description
login	your user to login to SMSEagle
pass	your password to login to SMSEagle
modem_no	*(optional parameter)* modem number for status change (default = 1). Used only in multimodem devices
status	*enabled / disabled*
responsetype	*(optional parameter)* text = format response as text (default), xml = format response as XML object

BODY:

```
{"method":"sms.set_modem_state", "params":{"login":"john","pass":"doe",
"status":"enabled"}}
```

RESPONSE:

`{"result": enabled / disabled }`

Sample response: `{"result":"enabled"}`

Response (when wrong logindata): `{"result": "Invalid login or password"}`

Response (when modem doesn't exist): `{"result": "Wrong modem number"}`

Response (when wrong modem state): `{"result": "Wrong modem state"}`

RESPONSE (EXTENDED):

Response:

```
{"result":{"modem_status": enabled / disabled,"status":"ok"}}
```

Sample response: `{"result": {"modem_status":"Wrong modem number","status":"ok"}}`

Response (when wrong logindata):
`{"result": {"error_text":"Invalid login or password","status":"error"}}`
Response (when modem doesn't exist):
`{"result": {"error_text":"Wrong modem number","status":"error"}}`
Response (when wrong modem state):
`{"result": {"error_text":"Wrong modem state","status":"error"}}`

61. User ID read: HTTP GET method

HTTP GET METHOD:

`https://url-of-smseagle/http_api/userid_read`

Parameter	Description
login	your user to login to SMSEagle
pass	your password to login to SMSEagle
username	*username to be queried*
responsetype	*(optional parameter)* text = format response as text (default), xml = format response as XML object

EXAMPLES:

`https://url-of-smseagle/http_api/userid_read?login=john&pass=doe&username=myuser`

RESPONSE:

Response: **User ID**
Sample response: 24
Response (when username parameter is missing): **Missing >>username<< parameter**
Response (when user doesn't exist): **Wrong >>username<< parameter**

RESPONSE (XML):

Response:

```
<xml>
 <status>
  ok
 </status>
</xml>
```

Response (when username parameter is missing):

```
<xml>
```

<error_text>Missing >>username<< parameter</error_text>
<status>error</status>
</xml>

Response (when user doesn't exist):
<xml>
<error_text>Wrong >>username<< parameter</error_text>
<status>error</status>
</xml>

62. User ID read: JSONRPC method

HTTP POST METHOD:

`https://url-of-smseagle/jsonrpc/sms`

Parameter	Description
login	your user to login to SMSEagle
pass	your password to login to SMSEagle
username	*username to be queried*
responsetype	*(optional parameter)* text = format response as text (default), xml = format response as XML object

BODY:

```
{"method":"phonebook.userid_read",
"params":{"login":"john","pass":"doe","username":"myuser"}}
```

RESPONSE:

`{"result": [user ID] }`

Sample response: `{"result":"24"}`

Response (when username parameter is missing): `{"result": "Missing >>username<< parameter"}`

Response (when user doesn't exist): `{"result": "Wrong >>username<< parameter"}`

RESPONSE (EXTENDED):

Response:

`{"result":{"uid": [user ID],"status":"ok"}}`

Sample response: `{"result": {"uid":"24","status":"ok"}}`

Response (when wrong logindata):

`{"result": {"error_text":"Invalid login or password","status":"error"}}`

Response (when username parameter is missing):

`{"result": {"error_text":"Missing >>username<<`

parameter","status":"error"}}

Response (when user doesn't exist):

{"result": {"error_text":"Wrong >>username<< parameter","status":"error"}}

63. Group members read: HTTP GET method

HTTP GET METHOD:

`https://url-of-smseagle/http_api/group_members_read`

Parameter	Description
login	your user to login to SMSEagle
pass	your password to login to SMSEagle
group_id	ID of group to be queried
user_id	*(optional parameter) show only contacts created by user with given ID*
public	*(optional parameter) 0 = private, 1 = public*
responsetype	*(optional parameter)* text = format response as text (default), xml = format response as XML object

EXAMPLES:

`https://url-of-smseagle/http_api/group_members_read?login=john&pass=doe&group_id=11`

RESPONSE:

Sample response: link

Response (when wrong or missing group_id parameter): **Wrong or missing >>group_id<< parameter**

Response (when wrong user_id parameter): **Wrong >>user_id<< parameter**

Response (when wrong public parameter): **Wrong >>public<< parameter**

Response (when result set is empty): **No data to display**

RESPONSE (XML):

Response:

```
<xml>
 <contacts>
  <contact>
   <ID>17</ID>
   <Name>mycontact1</Name>
   <Number>23456</Number>
   <id_user>1</id_user>
   <is_public>true</is_public>
  </contact>
  <contact>
   <ID>24</ID>
   <Name>mycontact3</Name>
```

```
    <Number>12345</Number>
    <id_user>3</id_user>
    <is_public>false</is_public>
   </contact>
 </contacts>
</xml>
```

Response (when wrong or missing group_id parameter):

```
<xml>
   <error_text>Wrong or missing >>group_id<< parameter</error_text>
   <status>error</status>
</xml>
```

Response (when wrong user_id parameter):

```
<xml>
   <error_text>Wrong >>user_id<< parameter</error_text>
   <status>error</status>
</xml>
```

Response (when wrong public parameter):

```
<xml>
   <error_text> Wrong >>public<< parameter </error_text>
   <status>error</status>
</xml>
```

64. Group members read: JSONRPC method

HTTP POST METHOD:

```
https://url-of-smseagle/jsonrpc/sms
```

Parameter	Description
login	your user to login to SMSEagle
pass	your password to login to SMSEagle
group_id	ID of group to be queried
user_id	*(optional parameter) show only contacts created by user with given ID*
public	*(optional parameter) 0 = private, 1 = public*
responsetype	*(optional parameter)* text = format response as text (default), xml = format response as XML object

BODY:

```
{"method":"phonebook.group_members_read",
"params":{"login":"john","pass":"doe","group_id":"11"}}
```

RESPONSE:

Sample response:

```
{
"result": [
      {"ID":"1706","Name":"mycontact1","Number":"23456",
       "id_user":"1","is_public":"true"},
      {"ID":"1693","Name":"mycontact3","Number":"12345",
       "id_user":"3","is_public":"false"}
 ]
}
```

Response (when wrong or missing group_id parameter): `{"result": "Wrong or missing >>group_id<< parameter"}`

Response (when wrong user_id parameter): `{"result": "Wrong >>user_id<< parameter"}`

Response (when wrong public parameter): `{"result": "Wrong >>public<< parameter"}`

RESPONSE (EXTENDED):

Sample response:

```
{
  "result": {
    "contacts": [
            {"ID":"1706","Name":"mycontact1","Number":"23456",
             "id_user":"1","is_public":"true"},
            {"ID":"1693","Name": "mycontact3","Number":"12345",
             "id_user":"3","is_public":"false"}
    ],
    "status": "ok"
  }
}
```

Response (when wrong logindata):

`{"result": {"error_text":"Invalid login or password","status":"error"}}`

Response (when wrong or missing group_id parameter):

`{"result": {"error_text":"Wrong or missing >>group_id<< parameter","status":"error"}}`

Response (when wrong user_id parameter):

`{"result": "Wrong >>user_id<< parameter"}`

Response (when wrong public parameter):

`{"result": "Wrong >>public<< parameter"}`

PLUGINS AND INTEGRATION MANUALS FOR NMS & AUTH SYSTEMS

SMSEagle has a number of ready-to-use plugins and integration manuals for an easy and quick integration of SMSEagle device with external software (Network Monitoring Systems, Authentication Systems and other). The list grows constantly and is published on SMSEagle website. For a complete and up to date list of plugins please go to: http://www.smseagle.eu/integration-plugins/

EXTRAS

Connecting directly to SMSEagle SQL database

SMSEagle's database operates on PostgreSQL database engine. It is possible to connect to the database from external application using the following credentials:

POSTGRESQL DATABASE CREDENTIALS

Host: IP address of your device

Database name: smseagle

User: smseagleuser

Password: postgreeagle

Injecting short SMS using SQL

The simplest example is short text message (limited to 160 chars):

```
INSERT INTO outbox (
  DestinationNumber,
  TextDecoded,
  CreatorID,
  Coding,
  Class,
  SenderID
) VALUES (
  '1234567',
  'This is a SQL test message',
  'Program',
  'Default_No_Compression',
   -1,
   'smseagle1'
);

INSERT INTO user_outbox (
  id_outbox,
  id_user
) SELECT CURRVAL(pg_get_serial_sequence('outbox','ID')), 1;
```

In the above example the message will belong to user with **id_user** 1 (default 'admin'). You can find id_user values for other users in table public."user".

Injecting long SMS using SQL

Inserting multipart messages is a bit more tricky, you need to construct also UDH header and store it hexadecimally written into UDH field. Unless you have a good reason to do this manually, use API.

For long text message, the UDH starts with 050003 followed by byte as a message reference (you can put any hex value there, but it should be different for each message, D3 in following example), byte for number of messages (02 in example, it should be unique for each message you send to same phone number) and byte for number of current message (01 for first message, 02 for second, etc.).

For example long text message of two parts could look like following:

```
INSERT INTO outbox (
    "DestinationNumber",
    "CreatorID",
    "MultiPart",
    "UDH",
    "TextDecoded",
    "Coding",
    "Class",
    "SenderID"
) VALUES (
    '1234567',
    'Program',
    'true',
    '050003D30201',
    'Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do
eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad
minim veniam, qui',
    'Default_No_Compression',
    -1,
    'smseagle1'
)

INSERT INTO outbox_multipart (
    "ID",
    "SequencePosition",
    "UDH",
    "TextDecoded",
    "Coding",
    "Class"
) SELECT
    CURRVAL(pg_get_serial_sequence('outbox','ID')),
    2,
    '050003D30202',
    's nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo
consequat.',
```

```
    'Default_No_Compression',
    -1;

INSERT INTO user_outbox (
  id_outbox,
  id_user
) SELECT
  CURRVAL(pg_get_serial_sequence('outbox','ID')),
  1;
```

Note: Adding UDH means that you have less space for text, in above example you can use only 153 characters in single message.

Database cleaning scripts

We have added some useful scripts which may be used to delete SMS messages from database through Linux CLI.

Scripts are located at following directory:
`/mnt/nand-user/scripts/`

- **`db_delete`** – script for deleting SMS from folders Inbox, SentItems older than provided date.
  Usage:
  `./db_delete YYYYMMDDhhmm`

- **`db_delete_7days`** – script for deleting SMS from folders Inbox, Sentitems older than 7 days.
  Usage:
  `./db_delete_7days`

- **`db_delete_allfolders`** – script for cleaning PostgreSQL database folders (Inbox, SentItems, Outbox). Specially designed to run periodically through *cron.* Usage:
  `./db_delete_allfolders`

- **`db_delete_select -`** script for deleting SMS from chosen databse folder (Inbox, Outbox, SentItems, Trash). Usage:
  `./db_delete_select {inbox|outbox|sentitems|trash}`

Adding script to system *cron* daemon

1) Create a file inside */etc/cron.d/* directory with your desired name (eg. *pico db_cleaner)*

2) Example content of this file:

```
0 0 1 * * root /mnt/nand-user/scripts/db_delete_allfolders
```

This will run cleaning script every 1st day of month.

SNMP agent

"Simple Network Management Protocol (SNMP) is an Internet-standard protocol for managing devices on IP networks. It is used mostly in network management systems to monitor network-attached devices for conditions that warrant administrative attention" (source: Wikipedia).

SMSEagle device has a built-in Net-SNMP agent. The SNMP agent provides access to Linux Host MIB tree of the device, and additionally (using extension NET-SNMP-EXTEND-MIB) allows access to custom metrics specific to SMSEagle.

Available SNMP metrics that describe a state of a SMSEagle device are:

Metric name	Description	OID
GSM_Signal	Returns GSM/3G signal strength in percent. Value range: 0-100. If modem is disconnected from GSM/3G network GSM_Signal returns 0.	.1.3.6.1.4.1.8072.1.3.2.3.1.2.11.71.83.77.95.83.105.103.110.97.108.49
GSM_NetName1	Returns Network Name used on current SIM card	.1.3.6.1.4.1.8072.1.3.2.3.1.2.12.71.83.77.95.78.101.116.78.97.109.101.49
FolderOutbox_Total	Returns number of SMS messages in Outbox folder (outgoing queue length)	.1.3.6.1.4.1.8072.1.3.2.3.1.2.18.70.111.108.100.101.114.79.117.116.98.111.120.95.84.111.116.97.108
FolderInbox_Total	Returns number of SMS messages in Inbox folder	.1.3.6.1.4.1.8072.1.3.2.3.1.2.17.70.111.108.100.101.114.73.110.98.111.120.95.84.111.116.97.108
FolderSent_Last24H	Returns number of SMS messages sent from the device within last 24 hours	.1.3.6.1.4.1.8072.1.3.2.3.1.2.18.70.111.108.100.101.114.83.101.110.116.95.76.97.115.116.50.52.72
FolderSent_Last1M	Returns number of SMS messages sent from the device within last month	.1.3.6.1.4.1.8072.1.3.2.3.1.2.17.70.111.108.100.101.114.83.101.110.116.95.76.97.115.116.49.77
FolderSent_Last24HSendErr	Returns number of SMS messages sent with error within last 24h. Error occurs when 3G modem cannot send SMS message or message is rejected by GSM/3G carrier (mostly happens when a credit on pre-paid SIM card is over)	.1.3.6.1.4.1.8072.1.3.2.3.1.2.25.70.111.108.100.101.114.83.101.110.116.95.76.97.115.116.50.52.72.83.101.110.100.69.114.114

Temp	Returns last value of Temperature (in °C) from internal DHT22 sensor. Requires sensor to be enabled.	.1.3.6.1.4.1.8072.1.3.2.4.1.2.4.84.101.109.112.1
Humidity	Returns last value of Humidity (in %) from internal DHT22 sensor. Requires sensor to be enabled.	.1.3.6.1.4.1.8072.1.3.2.3.1.2.8.72.117.109.105.100.105.116.121

RESULT VALUES

- Using OID

Result values for each custom metric are available and can be fetched from OID given in table above.

- Using textual name

Alternatively result values for each custom metric can be fetched using textual names from OID tree under: NET-SNMP-EXTEND-MIB::nsExtendOutputFull."[METRIC NAME]"

For example:
*Result value for parameter **GSM_Signal**:*
NET-SNMP-EXTEND-MIB::nsExtendOutputFull.'GSM_Signal'

If your chosen SNMP tool cannot access NET-SNMP-EXTEND-MIB objects, you can download MIB definitions from: http://www.smseagle.eu/download/NET-SNMP-EXTEND-MIB.txt

READING RESULT VALUES

In order to test-read the parameter values from SNMP agent you can use any tools available for SNMP protocol (for example: NET-SNMP library for Linux or iReasoning MiB-Browser for Windows).

EXAMPLE OF READING **GSM_SIGNAL** VALUE USING NET-SNMP LIBRARY

a) Command for reading the result value:

```
snmpget -v 2c -c public localhost
.1.3.6.1.4.1.8072.1.3.2.3.1.2.11.71.83.77.95.83.105.103.110.97.108.49
```

Result:

```
NET-SNMP-EXTEND-MIB::nsExtendOutputFull."GSM_Signal" = STRING: 54
```

Comment: GSM/3G Signal strength value is 54%

EXAMPLE OF READING **GSM_NETNAME1** VALUE USING NET-SNMP LIBRARY

a) Command for reading the result value:

```
snmpget -v 2c -c public localhost
.1.3.6.1.4.1.8072.1.3.2.3.1.2.12.71.83.77.95.78.101.116.78.97.109.101.49
```

Result:

```
NET-SNMP-EXTEND-MIB::nsExtendOutputFull."GSM_NetName1" = STRING: PLAY
```

Comment: Currently used network on SIM card is PLAY

EXAMPLE OF READING **FOLDEROUTBOX_TOTAL** VALUE USING NET-SNMP LIBRARY (AND TEXTUAL NAME OF METRIC)

a) Command for reading the result value:

```
snmpget -v 2c -c public ip-of-smseagle 'NET-SNMP-EXTEND-
MIB::nsExtendOutputFull."FolderOutbox_Total"'
```

Result:

```
NET-SNMP-EXTEND-MIB::nsExtendOutputFull."FolderOutbox_Total" = STRING: 0
```

Comment: Number of SMS messages waiting in outbox queue is 0

EXAMPLE OF READING **SYSTEMUPTIME** FROM LINUX HOST USING NET-SNMP LIBRARY

a) Command for reading the result value:

```
snmpget -v 2c -c public ip-of-smseagle system.sysUpTime.0
```

Result:

```
DISMAN-EVENT-MIB::sysUpTimeInstance = Timeticks: (216622) 0:36:06.22
```

Comment: Linux system is up for 36 hours, 6.22 minutes

EXAMPLE OF BROWSING SMSEAGLE EXTENSION PARAMETERS IN MIB TREE USING NET-SNMP LIBRARY

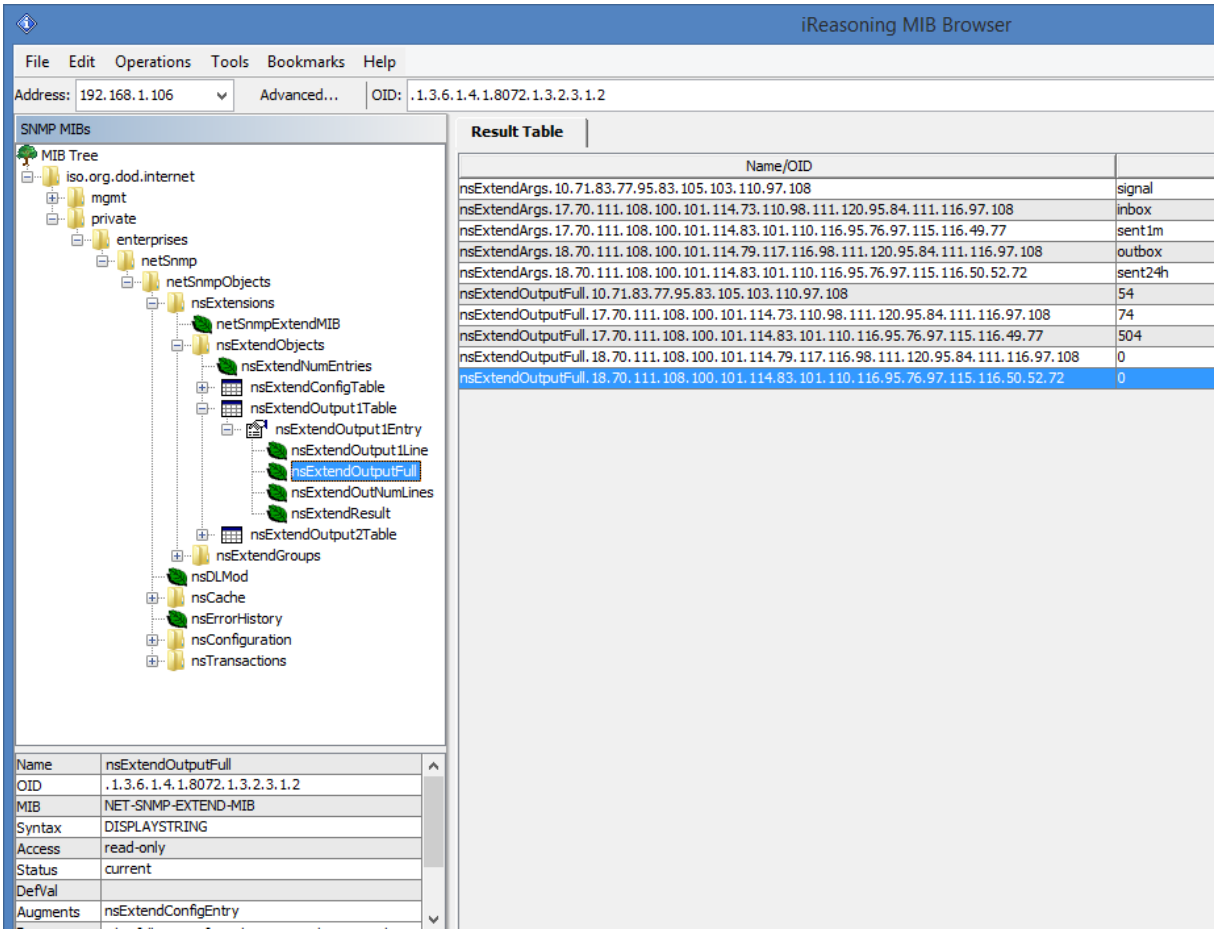
a) Command for reading the result value:

```
snmpwalk -v 2c -c public ip-of-smseagle .1.3.6.1.4.1.8072.1.3.2.3.1.2
```

Result:

```
NET-SNMP-EXTEND-MIB::nsExtendOutputFull."GSM_Signal" = STRING: 54
NET-SNMP-EXTEND-MIB::nsExtendOutputFull."GSM_NetName1" = STRING: PLAY
NET-SNMP-EXTEND-MIB::nsExtendOutputFull."FolderInbox_Total" = STRING: 15
NET-SNMP-EXTEND-MIB::nsExtendOutputFull."FolderSent_Last1M" = STRING: 19
NET-SNMP-EXTEND-MIB::nsExtendOutputFull."FolderOutbox_Total" = STRING: 0
NET-SNMP-EXTEND-MIB::nsExtendOutputFull."FolderSent_Last24H" = STRING: 0
NET-SNMP-EXTEND-MIB::nsExtendOutputFull." FolderSent_Last24HSendErr" = STRING: 0
```

EXAMPLE OF BROWSING SMSEAGLE EXTENSION PARAMETERS IN MIB TREE USING MIB-BROWSER



Setting up SNMP v3 access control

By default SMSEagle devices uses SNMP v2 access control. Using v3 can strengthen security, however is not obsolete. To ease switch to SNMP v3 access control we've prepared special shell script located at */mnt/nand-user/smseagle* directory.

1. *Log in via SSH using root account*
2. *Navigate to:*
   cd /mnt/nand-user/smseagle/
3. *Configuration script:*
   ./snmpv3
4. *Script can run with following parameters:*
   i. *add*
   ii. *del*
   iii. *enablev2*
   iv. *disablev2*
5. *To add v3 USER please run:*
   ./snmpv3 add USERNAME PASSWORD ENCRYPTIONPASSWORD

6. *To delete USER please run:*
   ./snmpv3 del

7. *To disable v2 access policy run:*
   ./snmpv3 disablev2

8. *To enable v2 access policy run:*
   ./snmpv3 enablev2

Failover (HA-cluster) feature

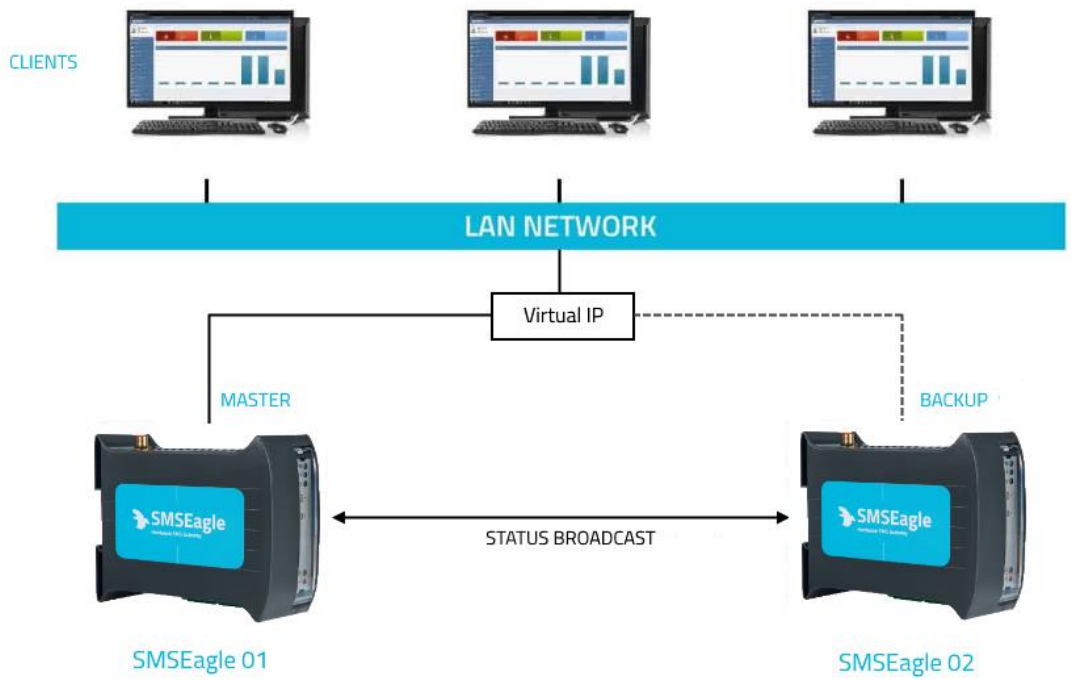
'High-availability clusters (also known as HA clusters or fail over clusters) are groups of computers (...) that can be reliably utilized with a minimum of down-time. They operate by using high availability software to harness redundant computers in groups or clusters that provide continued service when system components fail. Without clustering, if a server running a particular application crashes, the application will be unavailable until the crashed server is fixed. HA clustering remedies this situation by detecting hardware/software faults, and immediately restarting the application on another system or whole node without requiring administrative intervention, a process known as failover.' (source: Wikipedia)

SMSEagle NXS-family devices has its own failover mechanism based on HA-cluster. This feature allows you to assure high availability of SMSEagle devices in critical environments. To enable failover (HA-cluster) you need at least 2 devices ('aka' nodes). The failover feature monitors devices working in the cluster, and detects faults with the following services:

1. *Apache2 WWW server*
2. *PostgreSQL database*
3. *SNMP agent*
4. *Modem software (Gammu-SMSD daemon)*
5. *Accessibility (response to ping) of whole node.*

Every node in a cluster can have one of three states:

- **Master:** main healthy node in a cluster, by default accessible through Virtual IP
- **Backup:** second healthy node in a cluster, ready and waiting for replacing Master when needed
- **Fault:** node with detected service fault



In the cluster you have one MASTER device and one BACKUP device. **HA-cluster is accessed via Virtual IP address**. When the daemon running at MASTER device detects failure of at least one described features it immediately automatically switches cluster's IP assignment to the BACKUP device (node) providing continuous usage of the SMSEagle HA-cluster for the user.

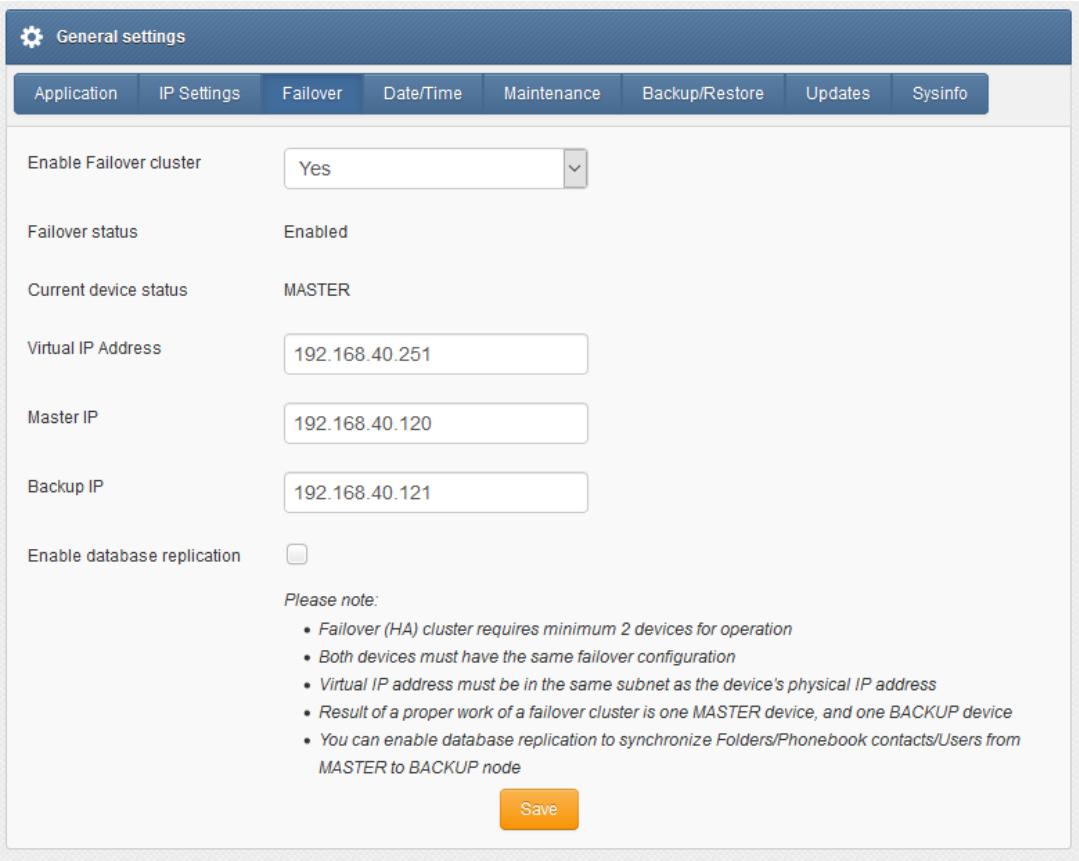
Devices (nodes) should see each other on the network. By default HA-nodes use 224.0.0.18 multicast IP address for VRRP (Virtual Router Redundancy Protocol) for communication between two nodes. If nodes are on the same network (same subnet & IP range) there is no need for any network configuration. If two nodes are behind firewalls, make sure firewall is configured to accept multicast and VRRP protocol (IP Protocol #112).

HOW TO CONFIGURE FAILOVER (HA-CLUSTER):

Failover cluster can be easily configured using web-gui. Configuration can be done in menu “Settings” > tab “Failover”. For **each** device in failover cluster:

- enter virtual IP address in the field “Virtual IP Address”
- enter Master and Backup IP addresses (these should be physical addresses of your devices)
- set “Enable Failover cluster” to “Yes”
- optionaly you can enable database replication between nodes (feature available only in devices with hardware Rev.2 and higher)

Save configuration. **Reboot** each device after saving. The configuration should be exactly the same on both devices in HA-cluster.



Screenshot from "General settings-Failover"

Database replication between nodes allows to automatically replicate database content from MASTER to BACKUP (one direction only). In the current software version the following content is replicated: Folders (with messages), Phonebook contacts, Users. Please note that this feature is only available in devices with hardware Rev.2 and higher.

After correct configuration of the HA-cluster **you should access the cluster via its Virtual IP address.**

SNMP-*monitoring of HA-cluster*

Failover feature uses KEEPALIVED-MIB for SNMP monitoring.

*EXAMPLE OF READING **DEVICE CLUSTER STATE** VALUE USING NET-SNMP LIBRARY*

a) Command for reading the result value:

```
snmpget -v 2c -c public ip-of-smseagle .1.3.6.1.4.1.9586.100.5.2.3.1.4.1
```

Result:

```
KEEPALIVED-MIB::vrrpInstanceState.1 = INTEGER: master(2)
```

Comment: Current device state is `master`

Forwarding logs to external server

Our devices runs rsyslog for log managing. Here we describe how to configure additional rules for rsyslog daemon: rsyslogd. This is only a brief excerpt from rsyslog manual website. Full information is available at: http://www.rsyslog.com/

Rsyslogd configuration is managed using a configuration file located at */etc/rsyslog.conf*

- At the bottom of the configuration file add:

```
*.*  action(type="omfwd" target="SERVER_IP" port="PORT" protocol="PROTOCOL"
   action.resumeRetryCount="10"
   queue.type="linkedList" queue.size="10000")
```

where: SERVER_IP – IP (or FQDN) address of receiving server
PORT – port on receiving server
PROTOCOL one of the values: tcp, udp

- Example:

```
*.*  action(type="omfwd" target="192.168.0.250" port="10514" protocol="tcp"
      action.resumeRetryCount="10"
      queue.type="linkedList" queue.size="10000")
```

- SSL-encryption of your log traffic: please have a look at this article: http://www.rsyslog.com/doc/v8-stable/tutorials/tls_cert_summary.html

Automatic software updates checks

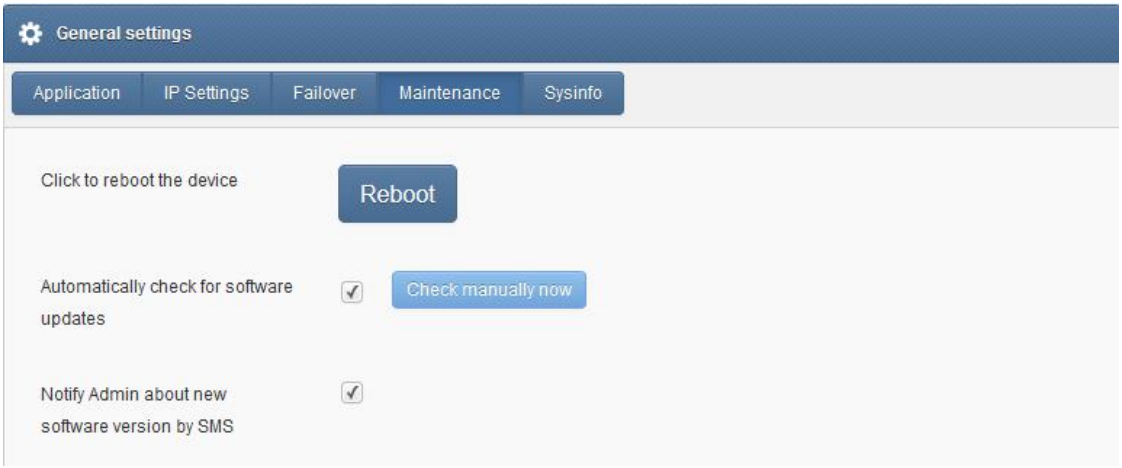
SMSEagle software is under process of continual improvement. We listen to our customers, and new releases are based on our customer's inputs/requests. Software updates are released frequently, and offer access to new features and fixes to reported issues. Web-GUI offers you a possibility to automatically check for new software updates. This can be done in two ways:

MANUAL CHECK

In order to manually check for available software updates go to menu Settings > tab Maintenance. Click on the button "Check manually now". At the top pops up a balloon in red with information if it is up-to-date.

AUTOMATIC CHECK

In order to start automatic checks for software updates go to menu Settings > tab Maintenance, and check the option "Automatically check for software updates". This will enable periodic checks (once a month) for available software updates. If a new update is available, a message "Update Available" will appear in menu Settings> Sysinfo – next to the current software version number.
If you select "Notify Admin about new software version by SMS", the device will additionally send SMS to the default admin account (if the phone number is entered in the account) with a notification about new software update.



Screenshot from "General settings-Maintenance"

Notice: Your SMSEagle device must have a HTTPS connectivity with address www.smseagle.eu in order for this feature to work.

III TROUBLESHOOTING

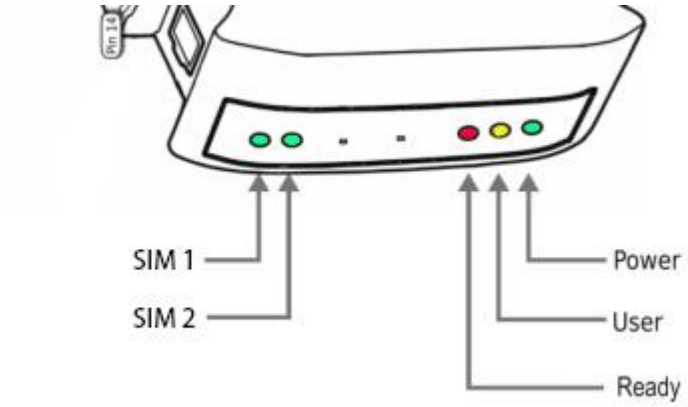
TROUBLESHOOTING

To make sure that the device is working properly, follow the three steps:

1. Verification of LEDs
2. Checking the device configuration (IP Settings)
3. Check the device logs (description below)

Verification of LEDs

Normal operation of the device is signaled by LEDs as follows:



LED	Correct operation
Power (PWR)	Continuously lit
User	Blinks during flashdisk read/write
Ready (RDY)	Blinking
SIM1 (only 3G device)	Slow flashing in stand-by mode, Quick flashing when modem 1 in use
SIM2 (only 3G device)	Not used

Checking the device information

The device information (device type, software version, modem IMEI, IMSI, network signal strength, network name) can be found under menu “Settings” > “Sysinfo”.

Device logs

Under menu “Settings” > “Sysinfo” you can find latest lines of device logs: modem log, database log and system log. In case of any problems with the device these logs are a valuable source of troubleshooting information.

Extended device logs can be downloaded via button “Download device logs” in menu “Settings” > “Sysinfo”.

When the device is not reachable

1. Check if the device is correctly connected to the network. Check LED status of RJ45 socket.

2. In the case when the device does not respond due to a malfunction or incorrect user settings please reboot the device by disconnecting and connecting power source (or pressing Reset switch).

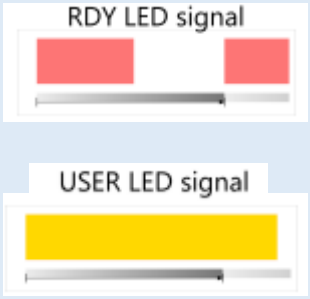
3. If you still cannot connect with the device, it is possible to restore to factory IP settings by using the SW button.

Restoring factory defaults

This action restores the following settings to default values: **IP settings, time zone settings, database content**, **Linux OS users/passwords**

In order to restore factory defaults proceed with the following steps:

LED signaling	USER actions	System reaction
	1. **When the device is ready to operate**	
	2. **Press and hold SW button for 10 seconds**	Restore service is counting down.
	3. **Release SW button after 10 seconds.** User LED will begin to blink.	System is reading factory defaults. Factory settings are being applied to the device.

	4. **Wait until system reboots.** Default settings are restored.	System is going for a reboot.

Please note, that after reboot the device will be finishing the process of factory reset, therefore it can take longer for the system to start.

IV SERVICE & REPAIR

SERVICE & REPAIR

Warranty

Your SMSEagle comes with a standard 1 year of technical support and hardware repair warranty coverage. The standard warranty can be extended during device purchase to 3-years coverage (check your purchase conditions). For a detailed information on warranty terms and conditions check warranty card that comes with your device or follow the link: www.smseagle.eu/docs/general_warranty_terms_and_conditions.pdf

Service

Before contacting with support team, be sure that you have read Troubleshooting section of this manual. SMSEagle Support Team is available by email or telephone.

Support Email: support@smseagle.eu

Support telephone: + 48 61 6713 411

The support service is provided by:
Proximus Software
ul. Piątkowska 163,
60-650 Poznan, Poland

WHEN CONTACTING SUPPORT TEAM, BE PREPARED TO PROVIDE THE FOLLOWING INFORMATION:

System Logs

Go to menu Settings > Sysinfo > "Download device logs". Provide log package to support team when requested.

MAC address

Each SMSEagle device has its unique MAC address. MAC address is printed on the device body or can be found in menu Settings > IP Settings

V

TECH SPECS & SAFETY INFORMATION

Technical Specification

HARDWARE SPECIFICATION

- Processor type:
    - hardware Rev. 3, Rev. 2: Broadcom BCM2837 1.2 GHz quad-core ARM Cortex-A53 (64-bit)
    - hardware Rev.1: Broadcom BCM2835 0.7GHz ARM11
- Operational memory (RAM):
    - hardware Rev. 3, Rev.2: 1GB LPDDR2 @ 900 MHz
    - hardware Rev.1: 512 MB SDRAM @ 400 MHz
- 4GB eMMC storage
- Network interface: Ethernet (1xRJ45)
    - hardware Rev.3: Gigabit Ethernet 10/100/1000 TX
    - hardware Rev.2, Rev.1: Fast Ethernet 10/100 TX
- 1x HDMI port for debugging purposes
- Other external ports
    - hardware Rev.3: 2xUSB 2.0, 4x DI, 4x DO, 1x 1Wire
    - hardware Rev.2, Rev.1: 1xUSB 2.0, 2x DI, 2x DO, 2x RS232 serial ports
- Digital Input/Output port types:
    - hardware Rev.3: DI type “pull-up resistor”. DO type “open collector”
    - hardware Rev.2, Rev.1: DI/DO voltage input/output
- RTC Clock: RTC 240B SRAM, Watchdog timer
- Internal humidity & temperature sensor: Accuracy ± 0,5 °C, ±2 %RH
- Power consumption: max 12W
- Noise level: Fan-less
- Dimensions: (width x depth x height) 35 x 120 x 101 mm
- Weight: 350g
- Casing: ABS, DIN rail installation
- Operating parameters:
    - Operating temperature: 0 ~ 40°C
    - Humidity: 8 ~ 90% RH (no condensation)

- Internal modem

  Device type NXS-9700-3G:

  - Waveband: GSM, UMTS
  - GSM/GPRS quad-band 850/900/1800/1900 MHz
  - UMTS 800/850/900/AWS 1700/1900/2100 MHz
  - Output power (Rated):
    - E-GSM 900: Class 4, DCS 1800: Class1
    - EDGE 900: Class E2, EDGE 1800: Class E2
    - FDD I: Class 3, FDD VIII: Class 3

  Device type NXS-9700-4G:

  - Waveband: UMTS, LTE
  - LTE Bands:

    LTE FDD: 1-5, 7, 8, 12, 13, 17, 20, 25, 26, 28, 29, 30 (Rx only), 66

    LTE TDD: 38, 40, 41
  - 3G Bands: 1, 2, 4, 5, 8
  - Output power:
    - Class 3 (0.2 W, 23 dBm) @ LTE
    - Class 3 (0.25 W, 23 dBm) @ 3G
    - Class 4 (2W) @ E-GSM 900
    - Class 1 (1W) @ DCS 1800
- SIM card standard: mini
- Antenna connector: SMA
- Country of origin: European Union (Poland)

POWER SUPPLY

AC line input

Voltage ranges: 100–240V alternating current (AC)

Frequency: 50–60Hz single phase

DC plug type: 5.5/2.5

ANTENNA

- Device type NXS-9700-3G:

    - Omnidirectional 3dBi antenna with magnetic foot
    - Waveband: GSM,UMTS
    - Cable length 3m
- Device type NXS-9700-4G:
    - Omnidirectional 2dBi antenna with magnetic foot
    - Waveband: UMTS, LTE
    - Cable length 3m

SENDING/RECEIVING THROUGHPUT

- Incoming transmission rate: up to 30 SMS/min
- Outgoing transmission rate: up to 30 SMS/min

SOFTWARE PLATFORM

- Operating system: Linux
    - hardware Rev. 3: kernel 4.14
    - hardware Rev. 2: kernel 4.4
    - hardware Rev. 1: kernel 4.1
- built-in Apache2 web server
- built-in PostgreSQL database server
- built-in Postfix email server
- built-in SNMP agent
- built-in NTP-client
- built-in Failover (HA-cluster) service
- watchdog mechanism for 3G/4G modem
- modern responsive web interface

Important Safety Information

This chapter provides important information about safety procedures. For your safety and that of your equipment, follow these rules for handling your device.

WARNING: Incorrect storage or use of your device may void the manufacturer's warranty. Failure to follow these safety instructions could result in fire, electric shock, or other injury or damage.

Always take the following precautions.

Disconnect the power plug from AC power source or if any of the following conditions exist:

- the power cord or plug becomes frayed or otherwise damaged
- you spill something into the case
- the device is exposed to rain or any other excess moisture
- the device has been dropped or the case has been otherwise damaged

Be sure about that the use of this product is allowed in your country and in the environment required. As with any other telecommunication equipment, the use of this product may be dangerous and has to be avoided in the following areas: where it can interfere with other electronic devices in environments such as hospitals, airports, aircrafts, etc.; where there is risk of explosion such as gasoline stations, oil refineries, etc.

It is responsibility of the user to enforce the country regulation and the specific environment regulation.

Do not disassemble the product; any mark of tampering will compromise the warranty validity.

Every device has to be equipped with a proper antenna with specific characteristics. The antenna has to be installed with care in order to avoid any interference with other electronic devices and has to be installed with the guarantee of a minimum 20 cm distance from the body. In case of this requirement cannot be satisfied, the system integrator has to assess the final product against the SAR regulation.

DISCLAIMER: The manufacturer is not responsible for any damages caused by inappropriate installation, not maintaining the proper technical condition or using a product against its destination.

REGULATORY STATEMENTS

EU declaration of conformity

Hereby, PROXIMUS Radoslaw Janowski, owner of SMSEagle brand, declares that the radio equipment type SMSEagle NXS-9700-3G, NXS-9700-4G is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address: www.smseagle.eu/certification

FCC compliance statement

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

Note:
This equipment has been tested and found to comply with the limits for a Class B device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a business/commercial non-residential environment. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Important:
This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the manufacturer's instruction manual, may cause harmful interference with radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case you will be required to correct the interference at your own expense. The FCC regulations provide that changes or modifications not expressly approved by SMSEagle™ could void your authority to operate this equipment. This product has demonstrated EMC compliance under conditions that included the use of compliant peripheral devices (antennas) and shielded cables between system components. It is important that you use compliant peripheral devices and shielded cables between system components to reduce the possibility of causing interference to radios, televisions, and other electronic devices.

Canadian regulatory statement

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

(1) this device may not cause interference, and
(2) this device must accept any interference, including interference that may cause undesired operation of the device.

This Class B digital apparatus meets the requirements of the Canadian Interference-Causing Equipment Regulations.

CAN ICES-3 (B)/NMB-3(B)

Disposal and recycling information

Your SMSEagle device contains lithium-ion battery for RTC backup. Dispose of the device and/or battery in accordance with local environmental laws and guidelines.

European Union—Disposal Information

The symbol above means that according to local laws and regulations your product shall be disposed of separately from household waste. When this product reaches its end of life, take it to a collection point designated by local authorities. The separate collection and recycling of your product at the time of disposal will help conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment.

For disposal in countries outside of the European Union
This symbol is only valid in the European Union (EU). If you wish to discard this product please contact your local authorities or dealer and ask for the correct method of disposal.

Restriction of Hazardous Substances Directive (RoHS)

European Union RoHS
SMSEagle devices sold in the European Union, on or after 3 January 2013 meet the requirements of Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment ("RoHS recast" or "RoHS 2").

SMSEagle

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