

BVV-105

Email-SMS-gateway

Commissioning



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1. Introduction

BVV-105 is a small, DIN-rail mounted PC, which works as a local area network (LAN) email server. An **internet connection is not needed** for sending SMS messages.

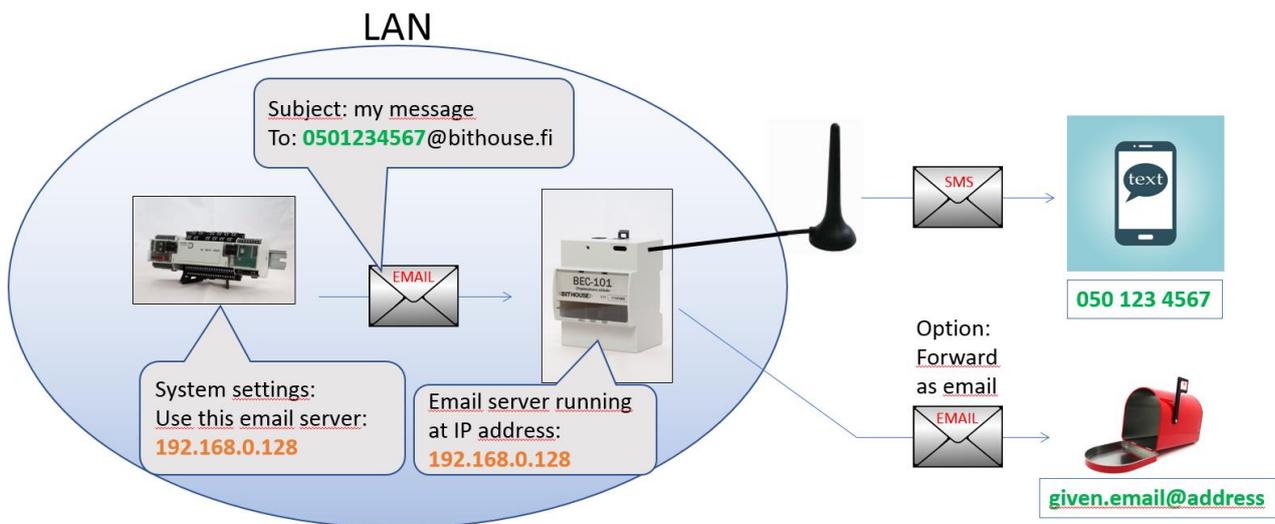
In typical usage, BVV-105 receives email alarms from automation devices, convert them to SMS messages, and sends them to the user's phone.

The received emails can be forwarded to any email address.

Settings are set via a built-in web interface.



a. Operating principle



BVV-105 does not have a single email address that you send emails to.

Instead, BVV-105 works as an email server. That means that you have to change the email server setting of the device that sends email messages. A typical example of the default server setting is “*smtp.gmail.com*.” Change it to the IP address of your device (default 192.168.0.128).

The receiving phone number is given as a part of the receiving email-address. See examples below.

Email address (to:)	Phone number that will receive the message
0501234567@bithouse.fi	050 1234567
0501234567@any.text.here	050 1234567
0501234567@	error
0501234567	error
0501234567@%!	error
0501234567@...	error
1234@bh.fi,4567@bh.fi	1234 and 4567
john@doe.com,123@bh.fi	123 and john@doe.com as email

Note that the email address does not need to exist, but it must have the proper form.

The system uses the following open-source software licensed by the GNU General Public License.

Software	URL
GNU General Public License	http://www.gnu.org/licenses/gpl-3.0.html
Linux kernel	https://github.com/beagleboard/linux
BusyBox	https://busybox.net/source.html
Buildroot	https://buildroot.uclibc.org/download.html
U-Boot	https://www.denx.de/wiki/U-Boot/SourceCode

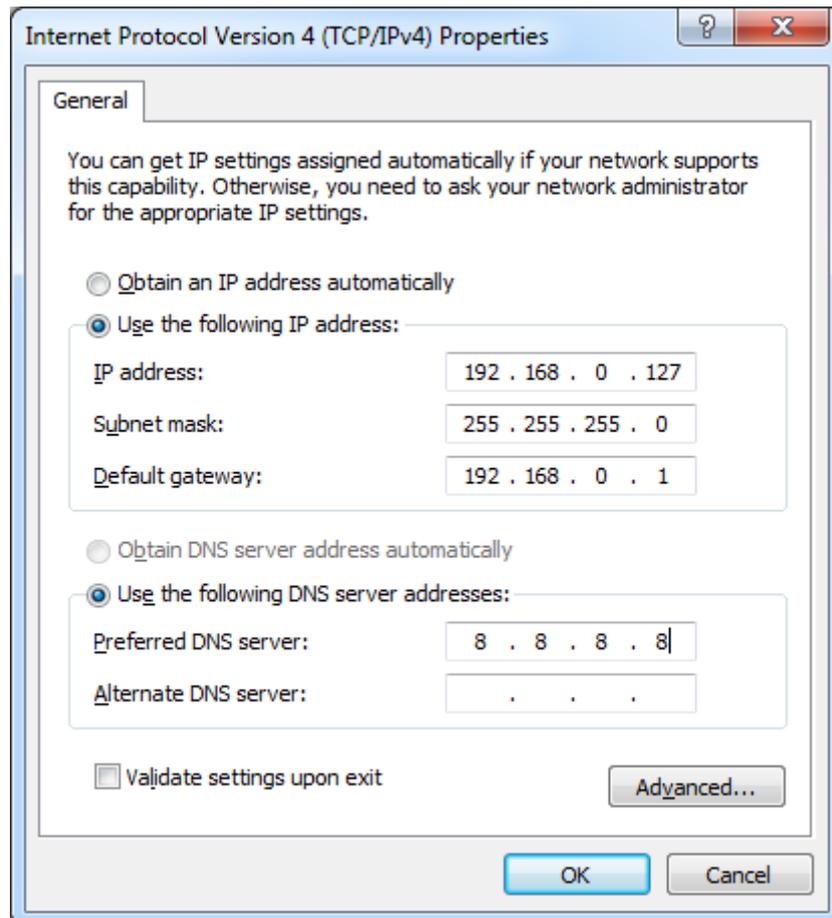
2. Log into the Web User Interface

a. Change your network settings

To access the web user interface with your computer, you must set your computer in the same subnet as the device. The default network settings are:

IP	192.168.0.128
Gateway	192.168.0.1
Netmask	255.255.255.0

Example network settings for Windows are shown in the image below.



(Control Panel\Network and Internet\Network Connections\Properties\IPv4\Properties)

Once your computer is in the same subnet, you can access the web UI from the address [http:// 192.168.0.128](http://192.168.0.128).

b. Enter log-in details

The default log-in details are provided for partners. Enter the information as shown in the image below.



c. Navigate using the top menu

After log-in you can see the top menu. It consists of the following parts:

	System	Database	2017-06-14 16:34:37 bithouse	Alarms 4 Unacknowledged 4 Active
Home button	Main Menu	Submenu	Date, time hostname	Number of alarms

This means that the page **Database** is under the **System** folder.

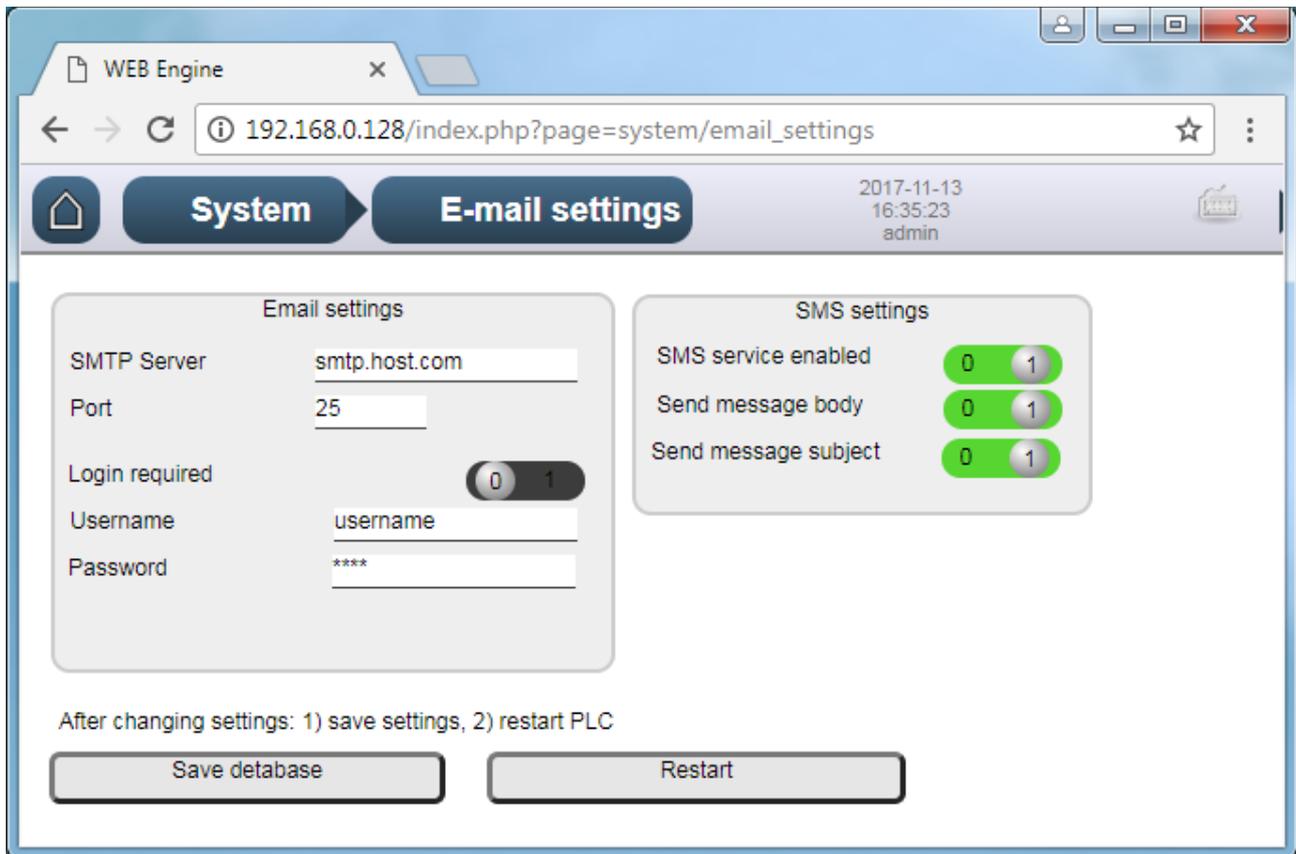
Some user pages are not visible for all users.

d. Change system settings

The system settings, such as network settings, time zone, are located in **System > Settings**. The page is only available for admin users.

After you edit the settings, click **Save Database** and **Reboot** to apply settings.

3. Change system settings from the web user interface



User settings for email and SMS forwarding are on the page System -> E-mail settings.

a. SMS Settings

SMS service enabled	If you set this to 0, no SMS messages will be sent.
Send message body	An email message contains both a subject of the message and the message body. You can toggle here which parts of the email message you want to send as an SMS message.
Send message subject	

Baudrate With older 2G GSM modem you can usually use the default speed of 9600 bps and it usually works. Newer 4G/LTE modems use baudrate 115200 to serial communications, and this setting has to be changed to SMS settings from the database page.

1. Go to page system→database



2. Open datapoint sys/settings/smsSettings

3. Change the field *baudrate* from the value 9600 (default speed) to value 115 200.



Database view, configuration for the modem baudrate.

b. Email settings

The system receives email messages. If you want to forward those emails to some email address, you need to provide email server settings of your internet operator.

SMTP Server	The SMTP server of your Internet Operator
Port	The port number of the above server.
Login required	Enable, if the SMTP server requires authentication (if you must provide username and password).
Username	If login is required, use this username.
Password	If login is required, use this password.