



## SREA-50 firmware update

Handled by  
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Date  
18.04.2012

Pages  
1 (21)

### Overview

SREA-50 firmware and kernel can be updated by using local Ethernet connection (preferred) or point-to-point EIA-232 cable to SREA-50.

**Note!** Firmware and kernel update will reset the SREA-50 configuration to default. Backup of the SREA-50 configuration is not compatible to newer firmware version.

Update adapter's kernel first before firmware file.

Firmware file is delivered and compatible only with dedicated kernel.

## ABB Oy

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Postal Address:	Street Address:	Telephone:	Internet:	Business Identity Code:
Drives	Drives	+358 10 2211	www.abb.fi	0763403-0
P.O.Box 184	Hiomotie 13	Telefax:	e-mail:	Domicile: Helsinki
FIN-00381 Helsinki, Finland	FIN-00380 Helsinki, Finland	+358 10 22 xxxxx	first name.last name	
			@fi.abb.com	

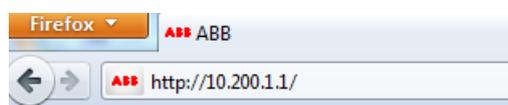
## Instructions for kernel update over local Ethernet

### Step 1

Connect SREA-50 Ethernet adapter to a same local Ethernet with PC. Make sure that you are able to ping SREA-50 adapter from your PC. It is possible to use cross-over Ethernet cable, which comes with the SREA-50 kit.

Point-to-point Ethernet connection with PC and SREA-50 is recommended for firmware update.

**Note!** Please observe the default IP address of SREA-50 **10.200.1.1**. Firmware update may restore factory default settings to the adapter.



### Step 2

If this is the first start of SREA-50, that is not configured, please read chapter “Configuring SREA-50” of “Quick installation and start-up guide SREA-50 remote monitoring adapter” (Document 3AUA0000098876 REV A).

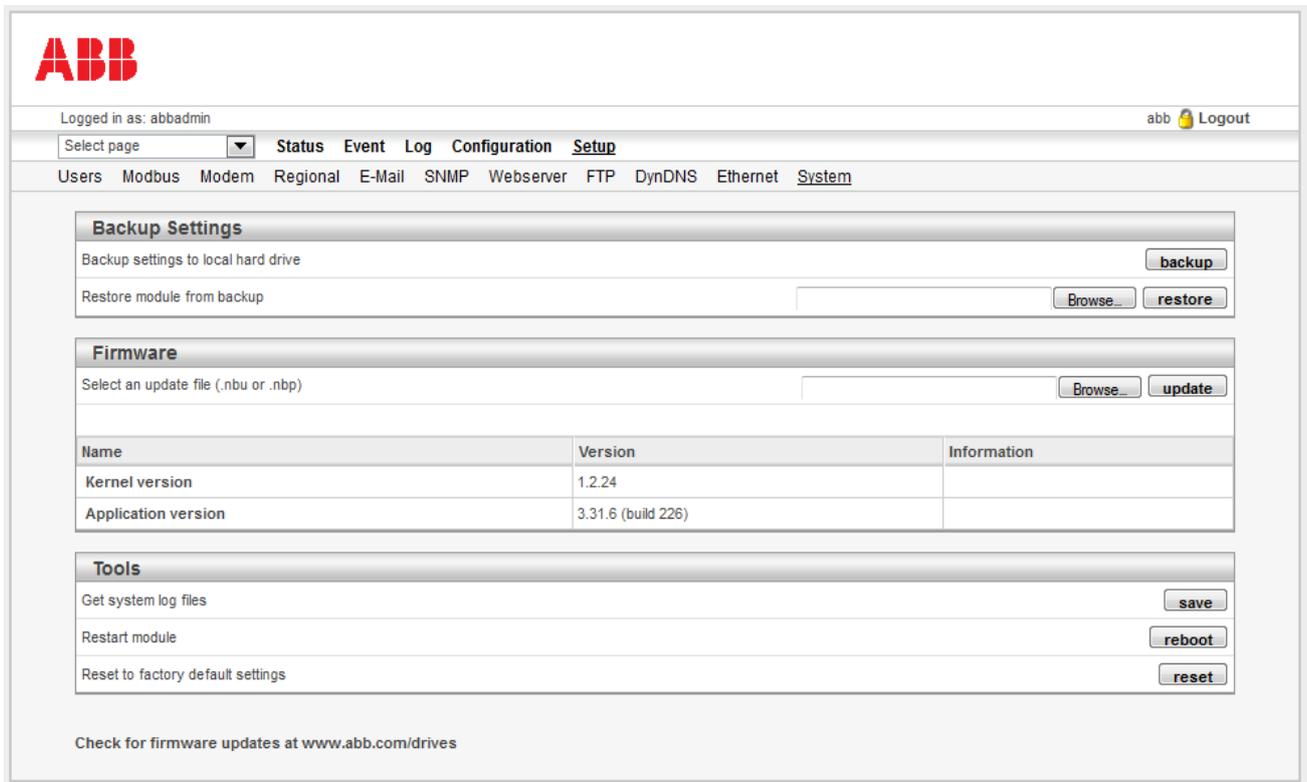


If SREA-50 was previously configured, sign in to SREA-50 adapter with super admin rights and select **Setup** page, then **System**.



### Step 3

Open new kernel or firmware file upload dialog by “Browse”-button of “Firmware”.



The screenshot shows the ABB web interface. At the top left is the ABB logo. The top navigation bar includes the text "Logged in as: abbadmin" and "abb Logout". Below this is a "Select page" dropdown menu and a menu with items: Status, Event, Log, Configuration, and Setup. A secondary navigation bar contains: Users, Modbus, Modem, Regional, E-Mail, SNMP, Webserver, FTP, DynDNS, Ethernet, and System.

The main content area is divided into three sections:

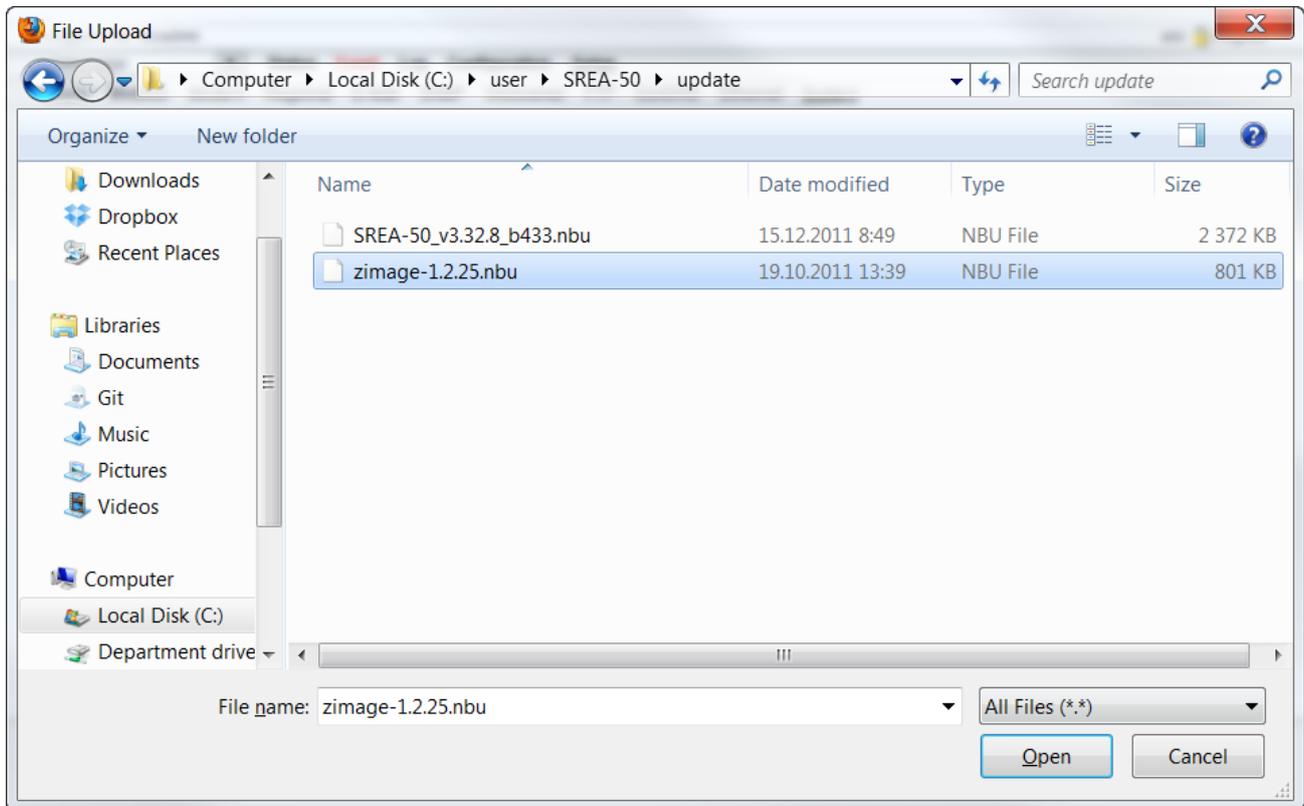
- Backup Settings:** Contains a text input field for "Backup settings to local hard drive" with a "backup" button. Below it is a text input field for "Restore module from backup" with "Browse..." and "restore" buttons.
- Firmware:** Contains a text input field for "Select an update file (.nbu or .nbp)" with "Browse..." and "update" buttons. Below this is a table showing system information.
 

Name	Version	Information
Kernel version	1.2.24	
Application version	3.31.6 (build 226)	
- Tools:** Contains three text input fields with corresponding buttons: "Get system log files" (save), "Restart module" (reboot), and "Reset to factory default settings" (reset).

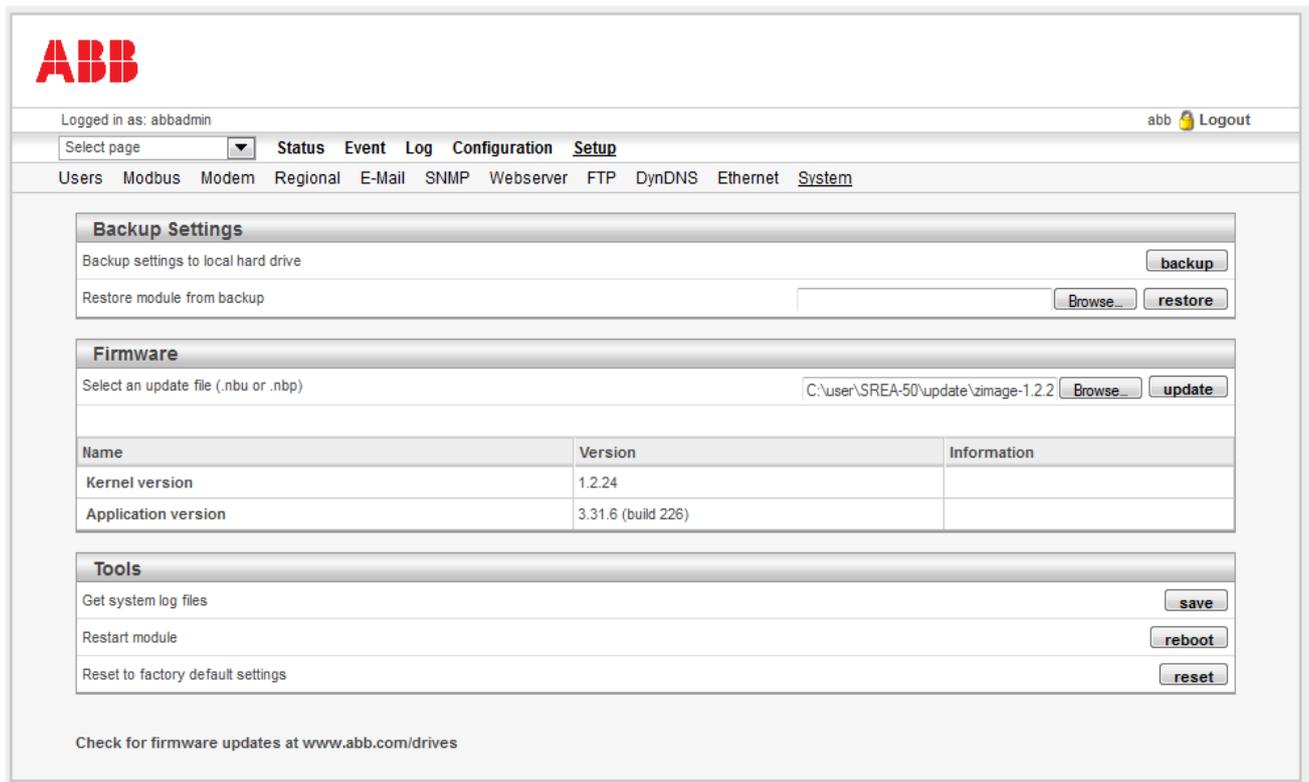
At the bottom of the interface, there is a link: "Check for firmware updates at [www.abb.com/drives](http://www.abb.com/drives)".

## Step 4

Select kernel or firmware file.

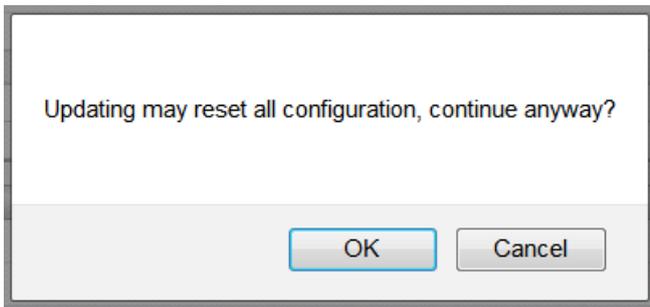


Press *Update* button of “Firmware”.



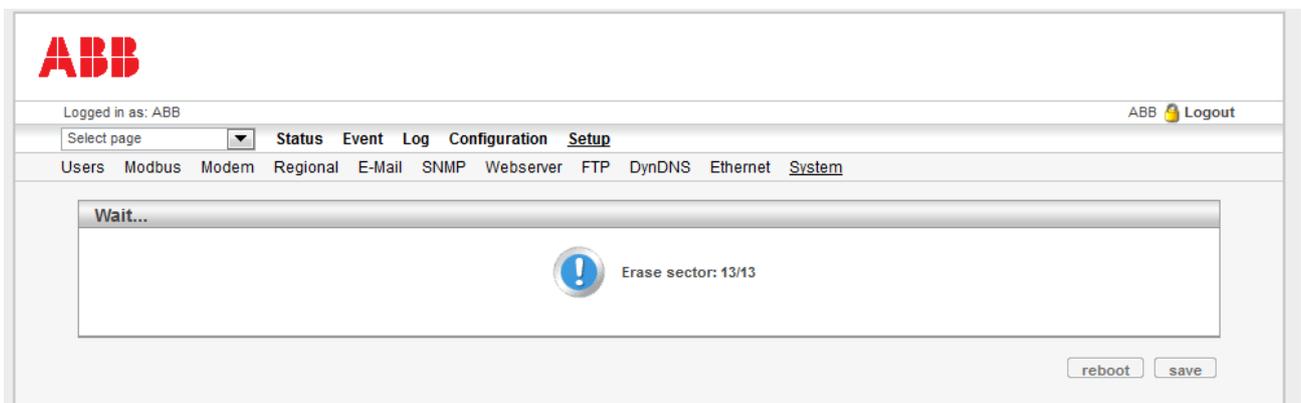
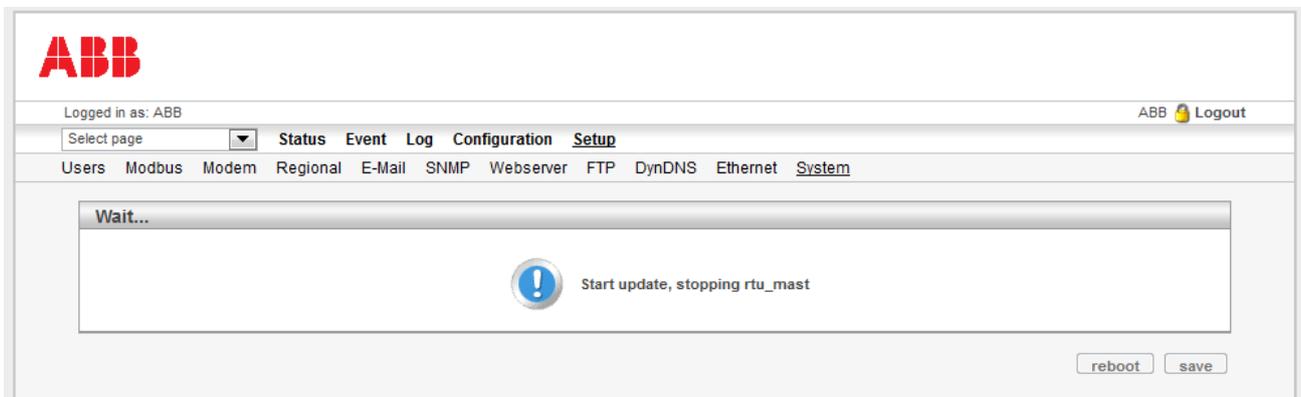
## Step 5

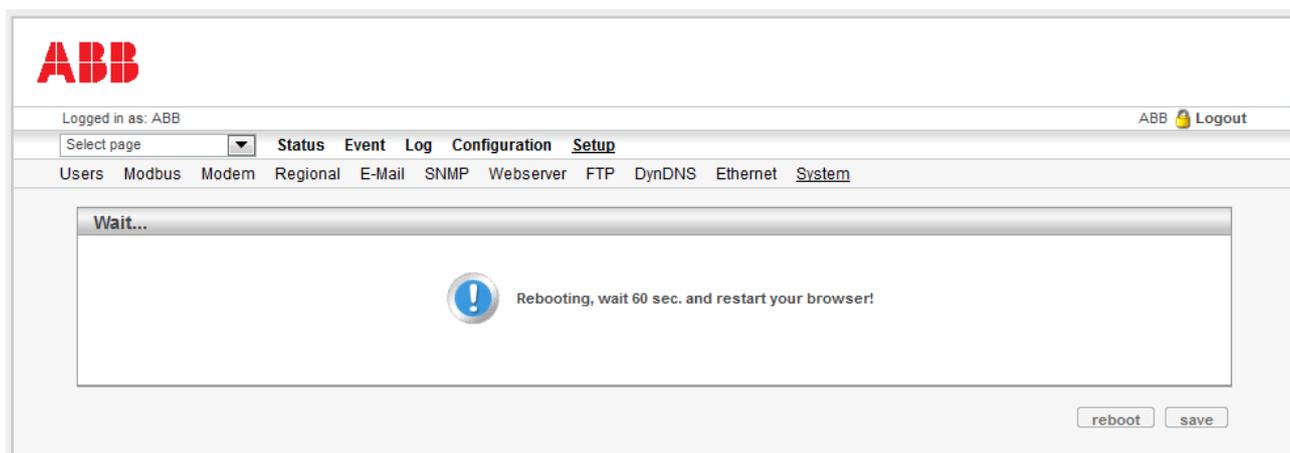
Select OK



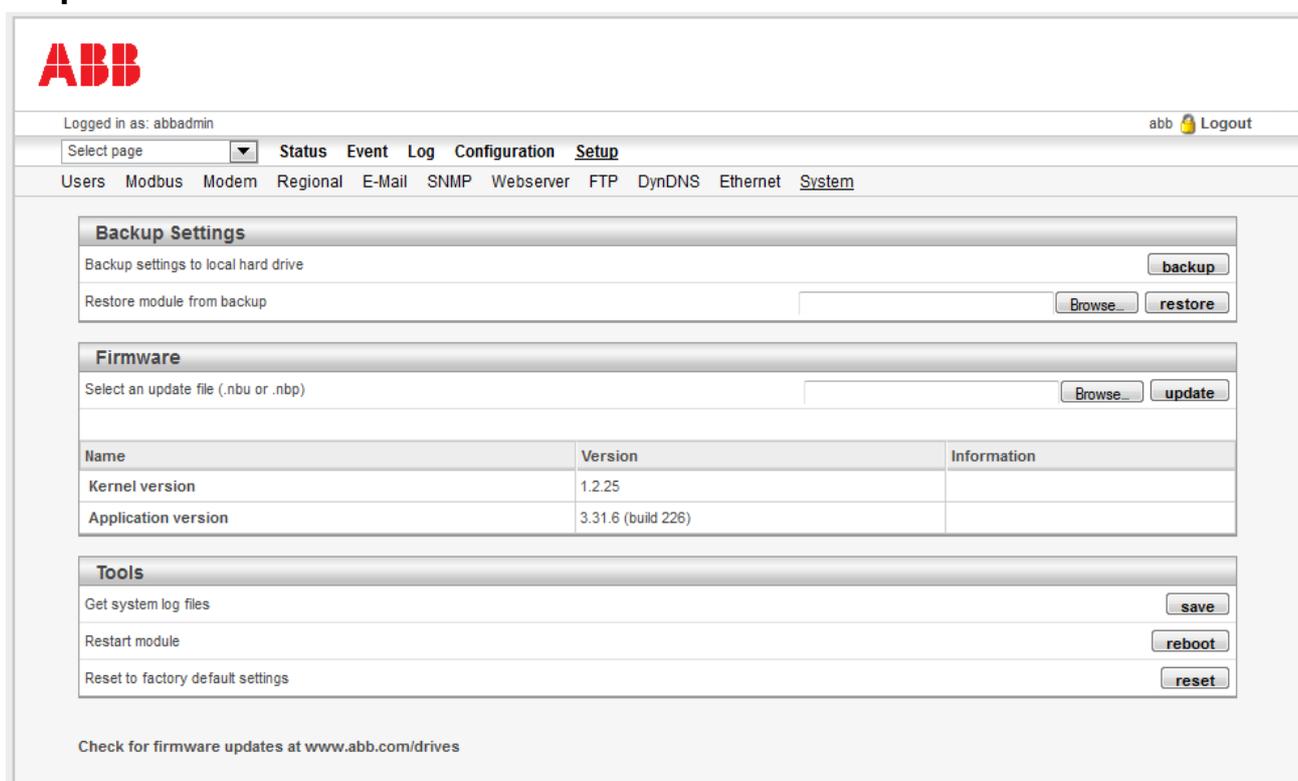
## Step 6

The update process starts with erasing existing kernel or firmware. After erasing the file system, new file is uploaded to adapter automatically. Please wait until the file is uploaded.





## Step 7



After succeeded upload of the file, reboot the adapter.

## Step 8

**Note!** Kernel update **does not reset** any configuration of SREA-50 adapter.

Sign in with previously configured username and password. In case the previously configured log-in accounts are not valid, try with default username and password.

**Note!** First start after updating the kernel and firmware may take few minutes.

**Follow steps 2-8 to update the firmware to SREA-50 or follow the steps listed in next chapter (Instructions for firmware update over local Ethernet).**

## Instructions for firmware update over local Ethernet

### Step 1

Connect SREA-50 Ethernet adapter to a same local Ethernet with PC. Make sure that you are able to ping SREA-50 adapter from your PC.

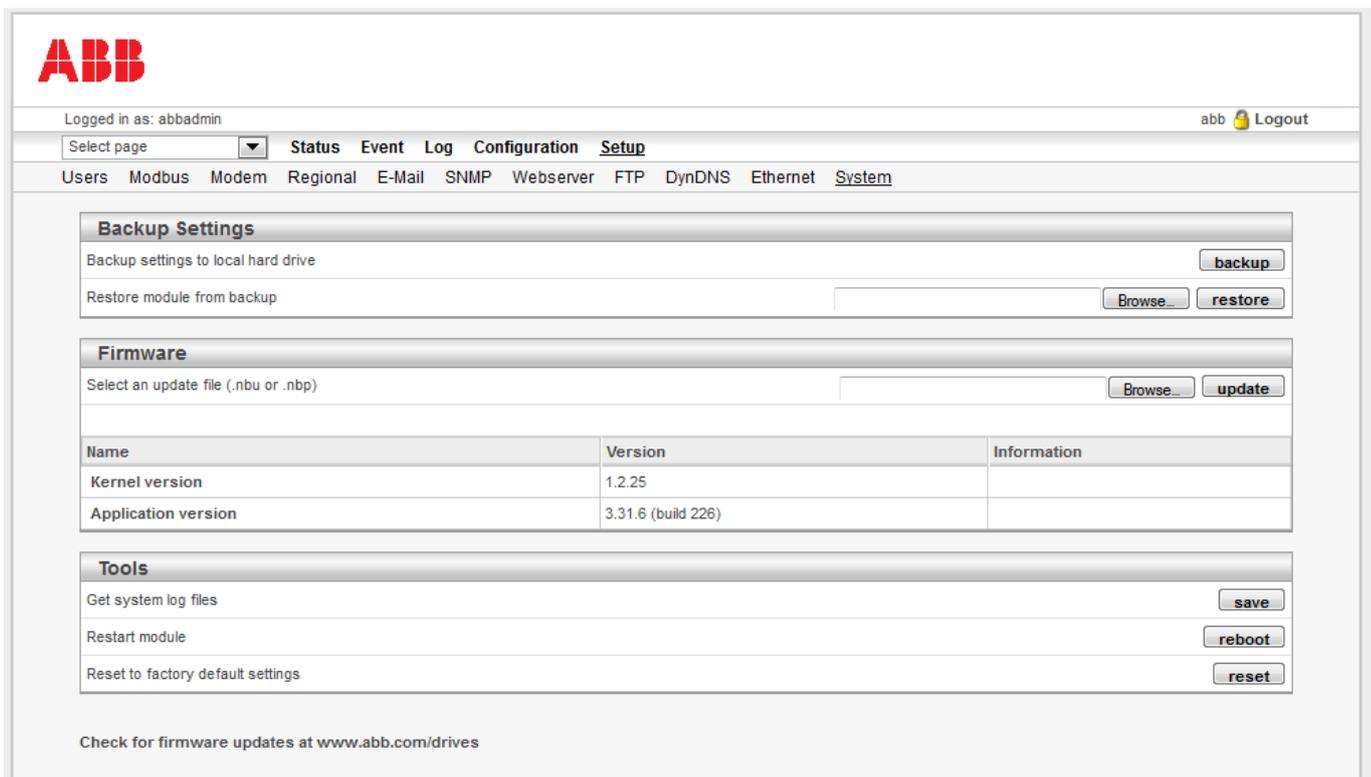
Please observe the default IP address of SREA-50 **10.200.1.1**. Firmware update will restore factory default settings to the adapter and erase previous configurations.

### Step 2

Log in to SREA-50 adapter with super admin rights and select setup page.

### Step 3

Open new kernel or firmware file upload dialog by “Browse”-button of “Firmware”.



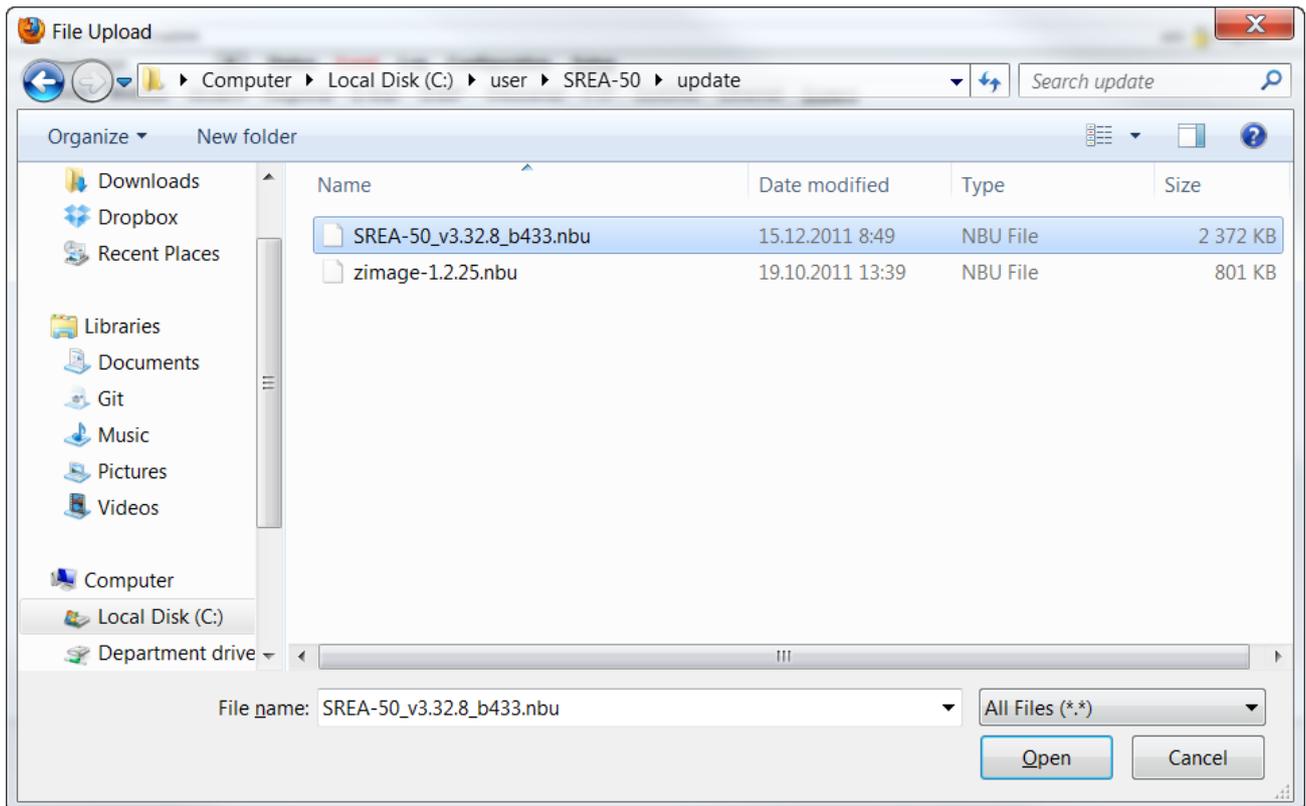
The screenshot shows the ABB web interface for the SREA-50 adapter. The user is logged in as 'abbadmin'. The navigation menu includes Status, Event, Log, Configuration, and Setup. The Setup page is active, showing various configuration options. The Firmware section is highlighted, featuring a file upload dialog with a 'Browse...' button and an 'update' button. Below this is a table showing the current kernel and application versions.

Name	Version	Information
Kernel version	1.2.25	
Application version	3.31.6 (build 226)	

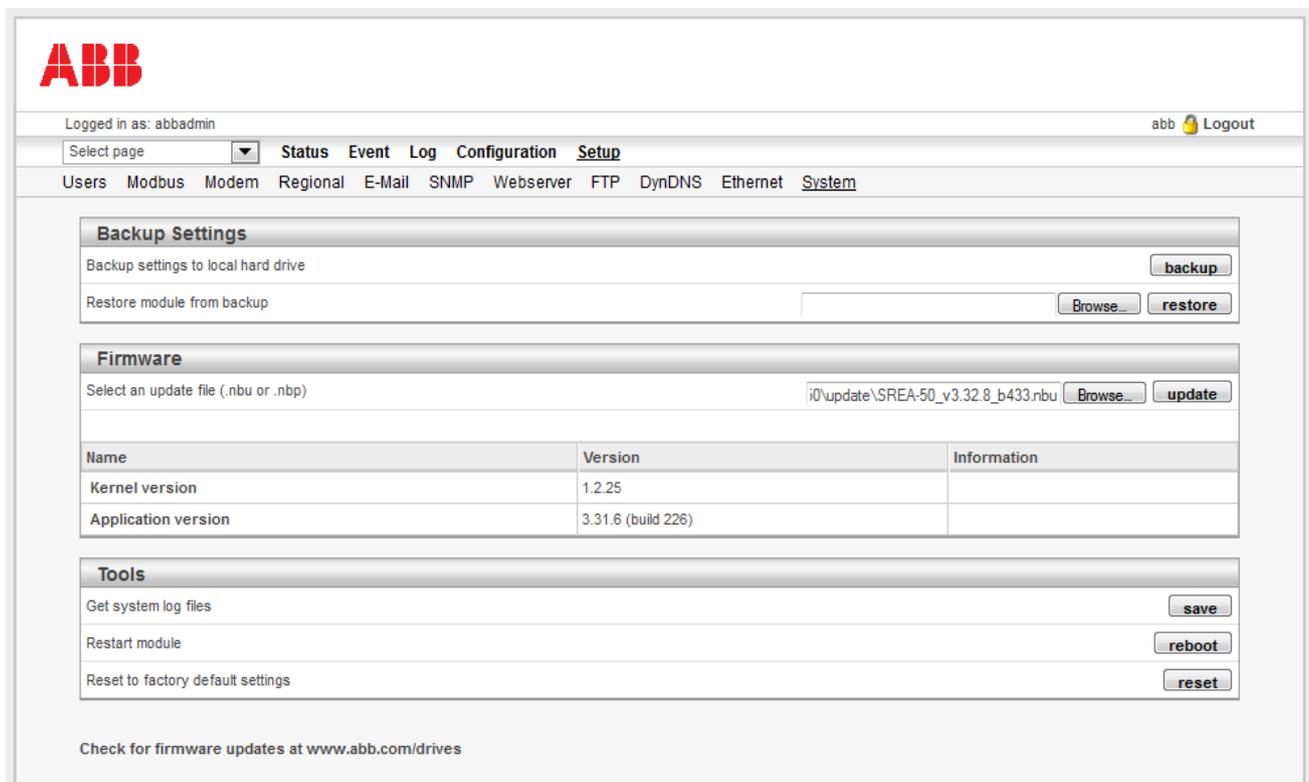
At the bottom of the interface, there is a link to check for firmware updates at [www.abb.com/drives](http://www.abb.com/drives).

### Step 4

Select kernel or firmware file.

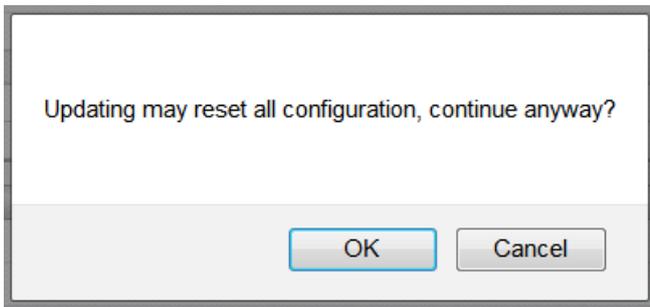


Press *Update* button of “Firmware”.



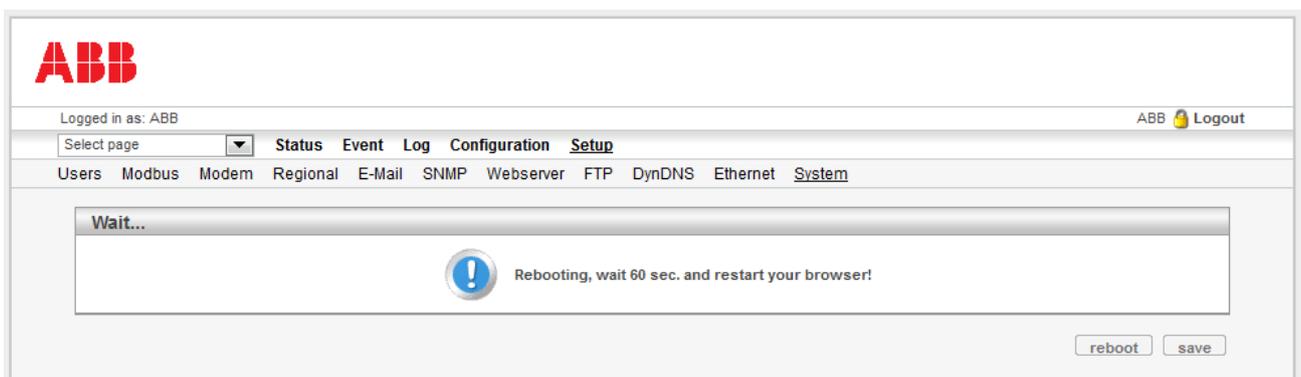
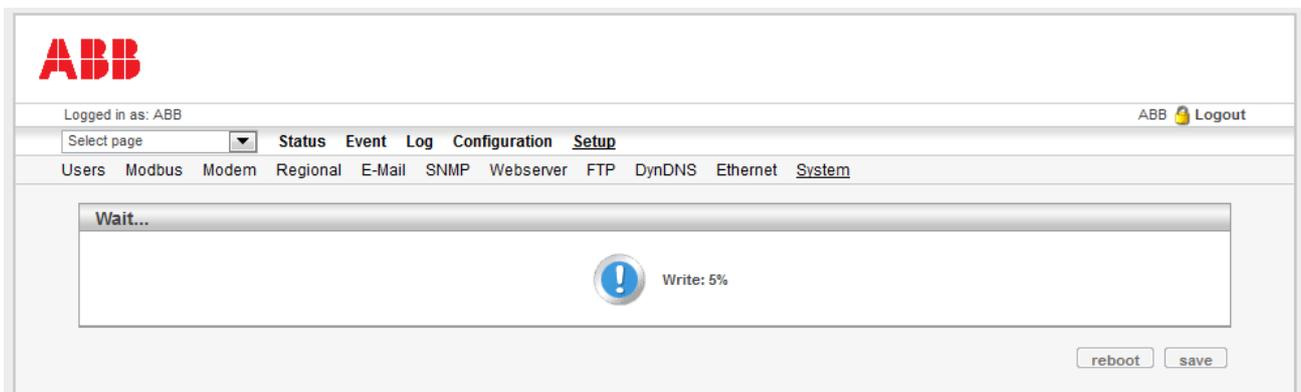
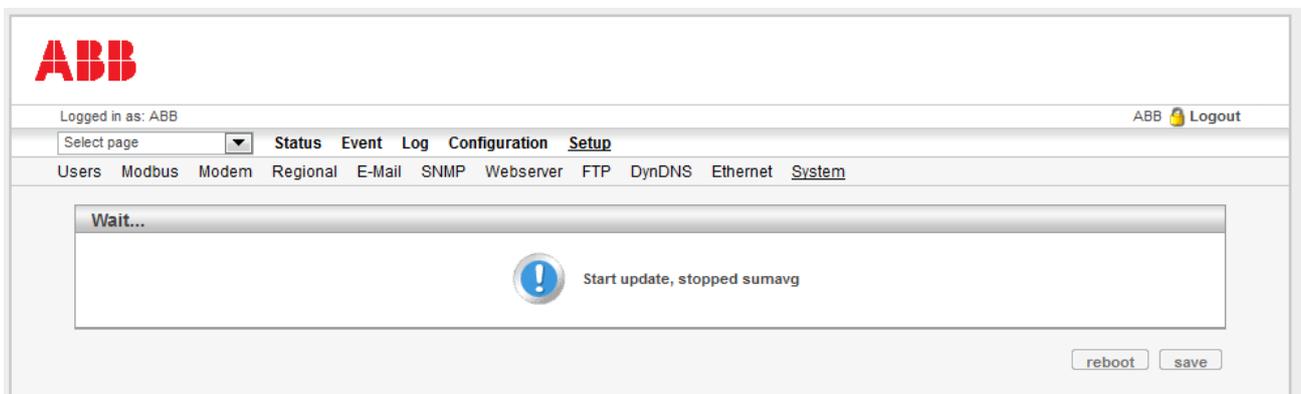
## Step 5

Select OK



## Step 6

The update process starts with verifying the new firmware file, erasing existing firmware. After erasing the file system, new file is uploaded to adapter automatically.



## Step 7

ABB

Logged in as: abbadmin abb Logout

Select page Status Event Log Configuration Setup

Users Modbus Modem Regional E-Mail SNMP Webserver FTP DynDNS Ethernet System

### Backup Settings

Backup settings to local hard drive

Restore module from backup

### Firmware

Select an update file (.nbu or .nbp)

Name	Version	Information
Kernel version	1.2.25	
Application version	3.32.8 (build 433)	

### Tools

Get system log files

Clear log files

Restart module

Reset to factory default settings

Check for firmware updates at [www.abb.com/drives](http://www.abb.com/drives)

After succeeded upload of the file, reboot the adapter.

## Step 8

**Note!** Usually the Ethernet settings are not cleared during firmware update.

After updating the firmware file, access the IP address of the SREA-50 (if configured) or use default IP address **10.200.1.1** and log in with factory default username.

**Note!** First start after updating the kernel and firmware may take few minutes.

## Update with EIA-232 point-to-point connection

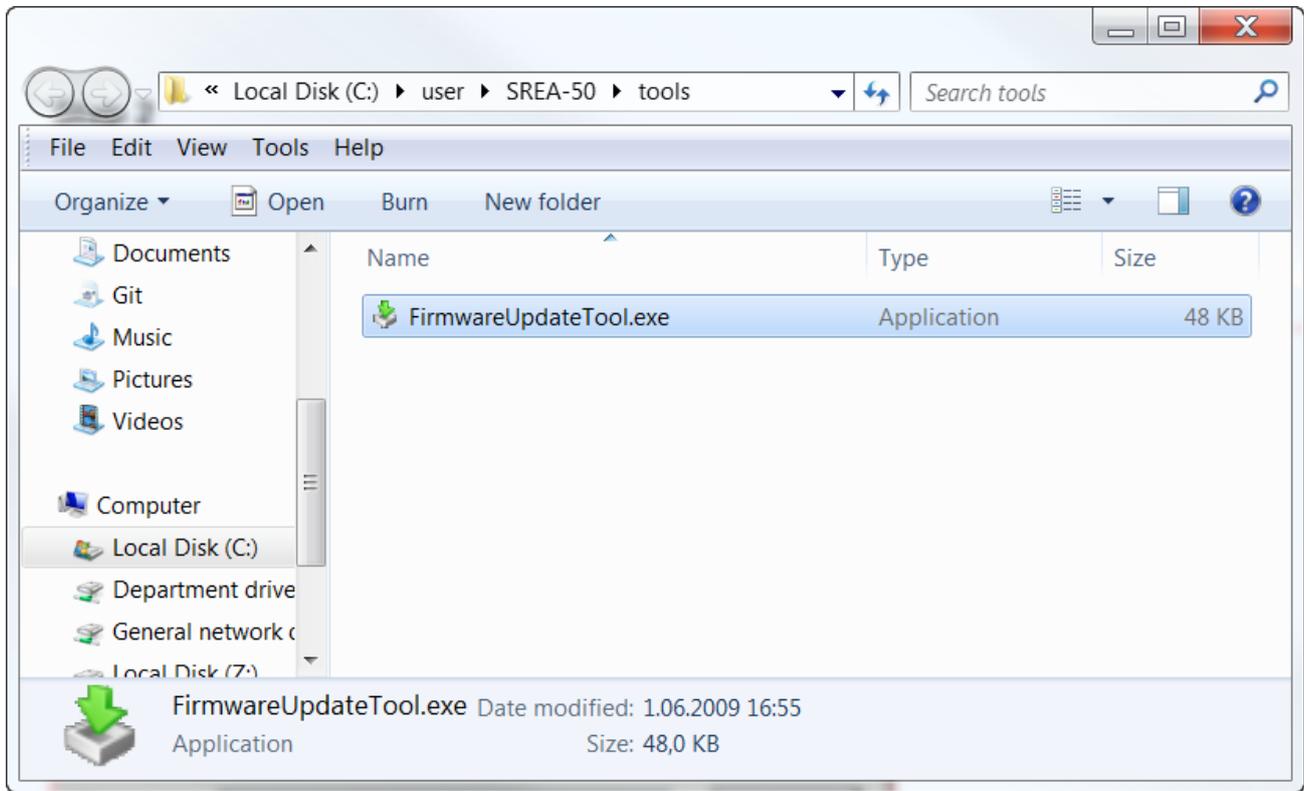
### Step 1

Connect RS-232 null-modem cable between SREA-50 9-pin D-connector and PC.



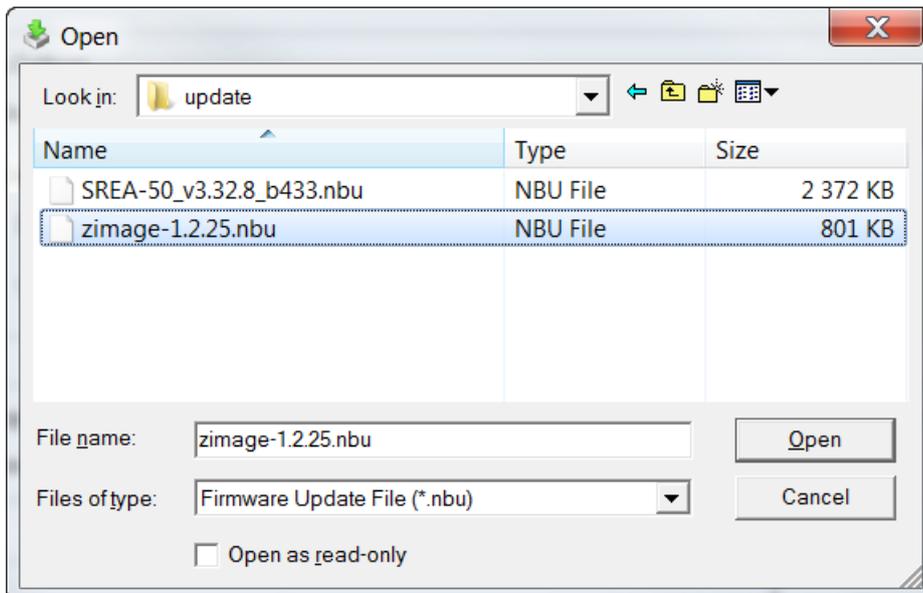
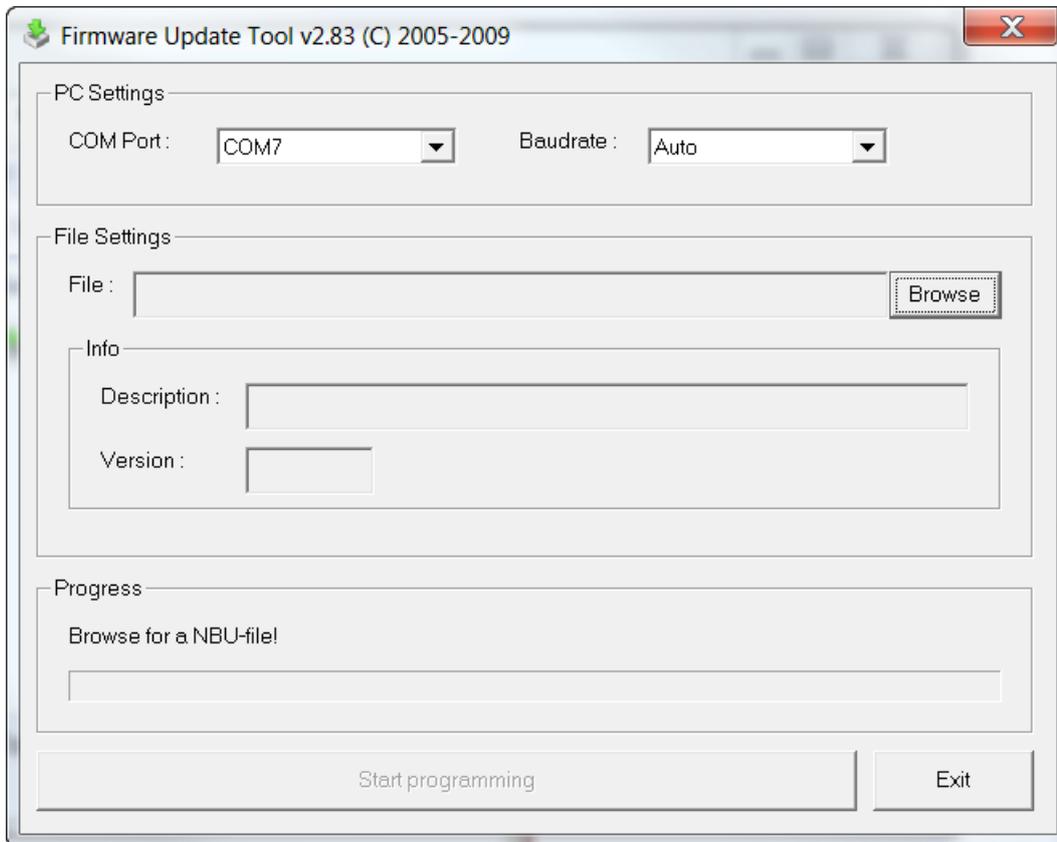
**Step 2**

Open firmware update tool.



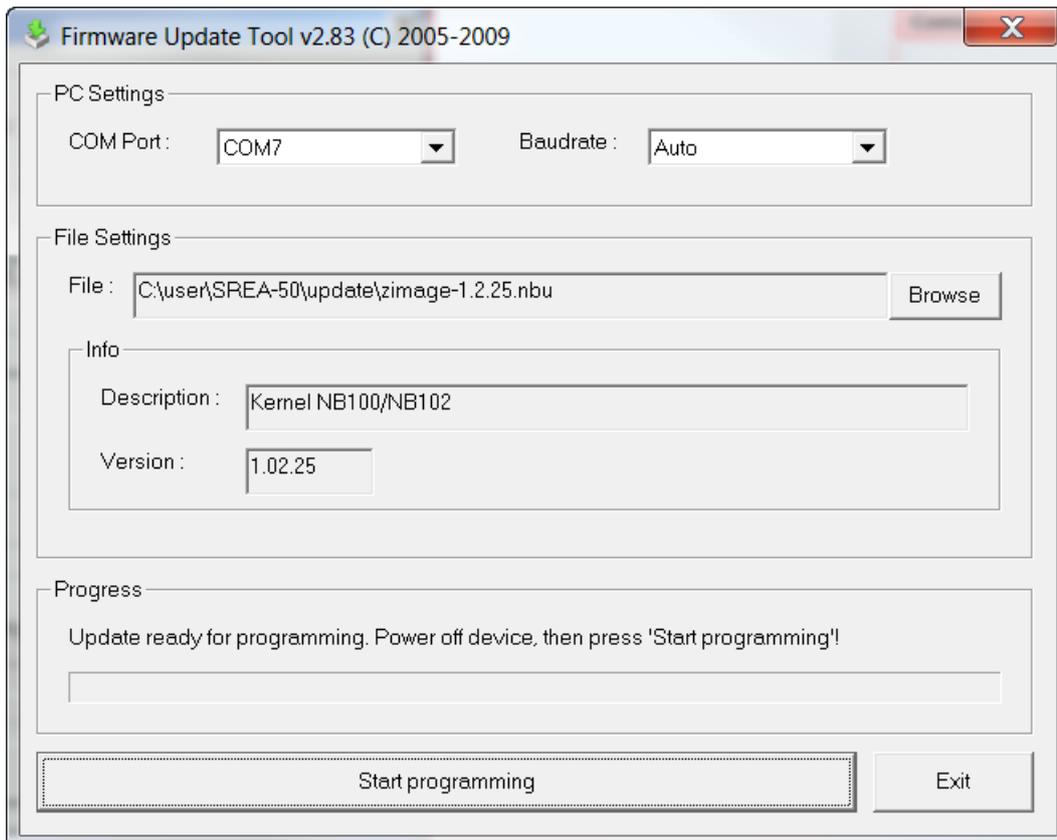
### Step 3

Browse and select kernel or firmware file.



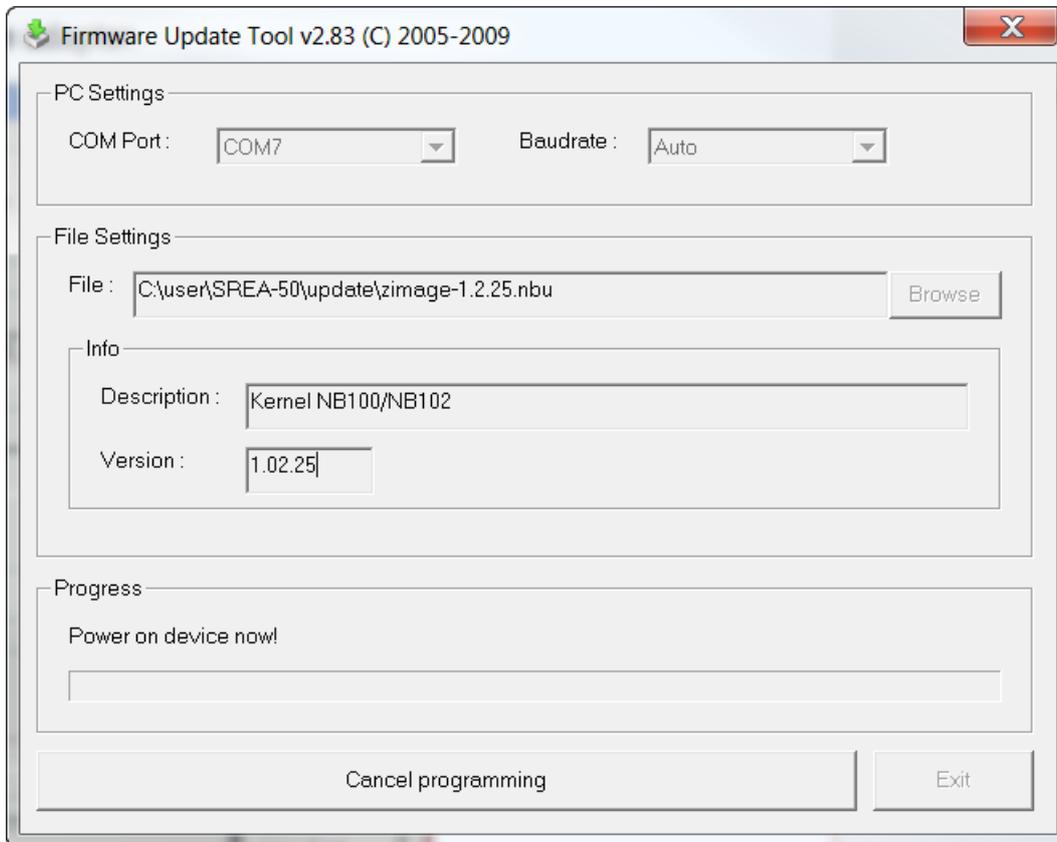
**Step 4**

1. Select appropriate serial port (COM Port).
2. Set **power off** the adapter.
3. Press the **Start programming** button.
4. Set **power on** the adapter.



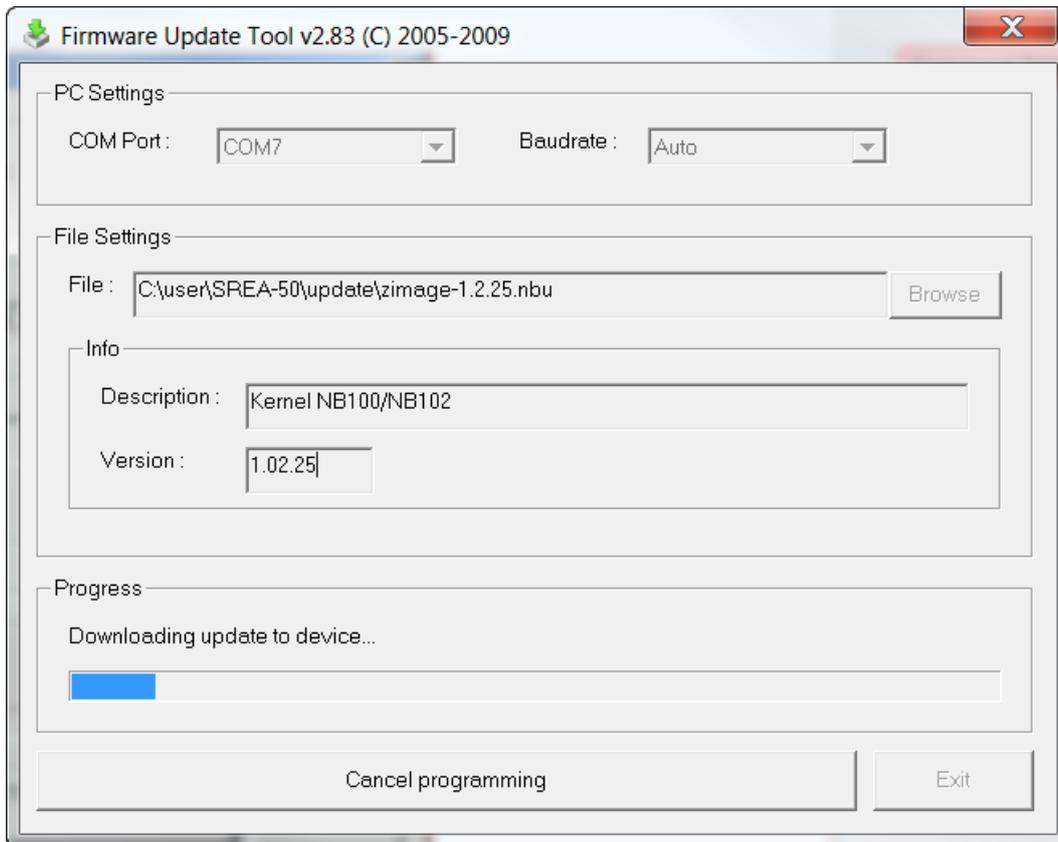
**Step 5**

Follow the instructions and mode on the adapter.

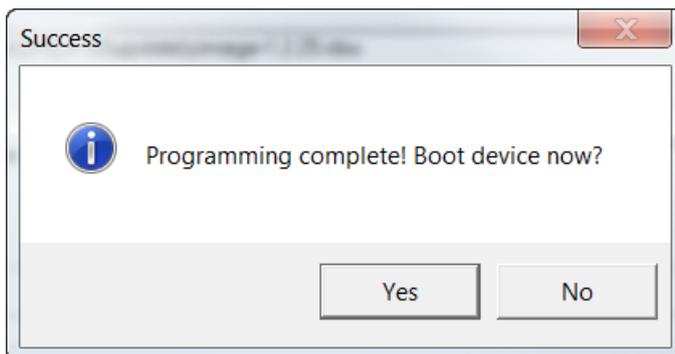


**Step 6**

Wait until the file is uploaded.

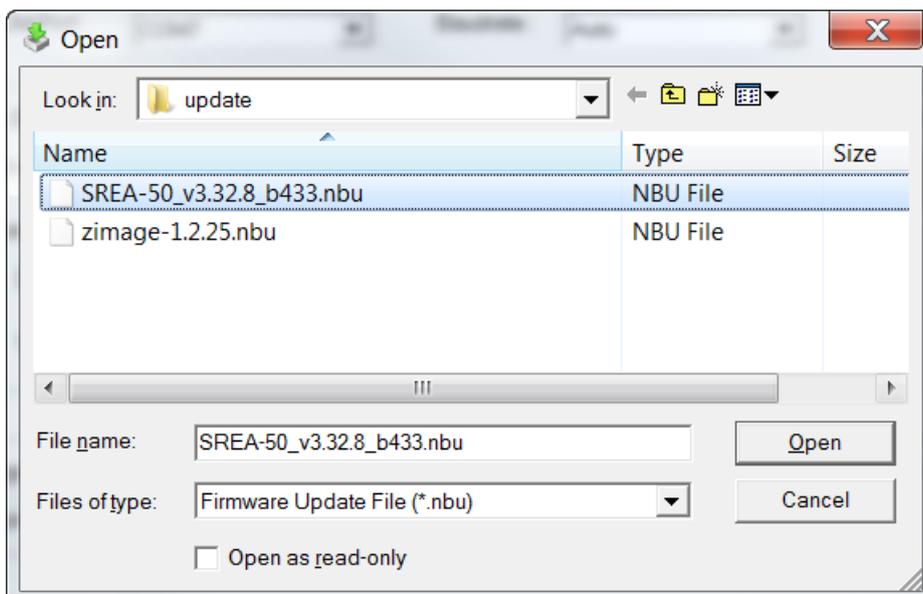
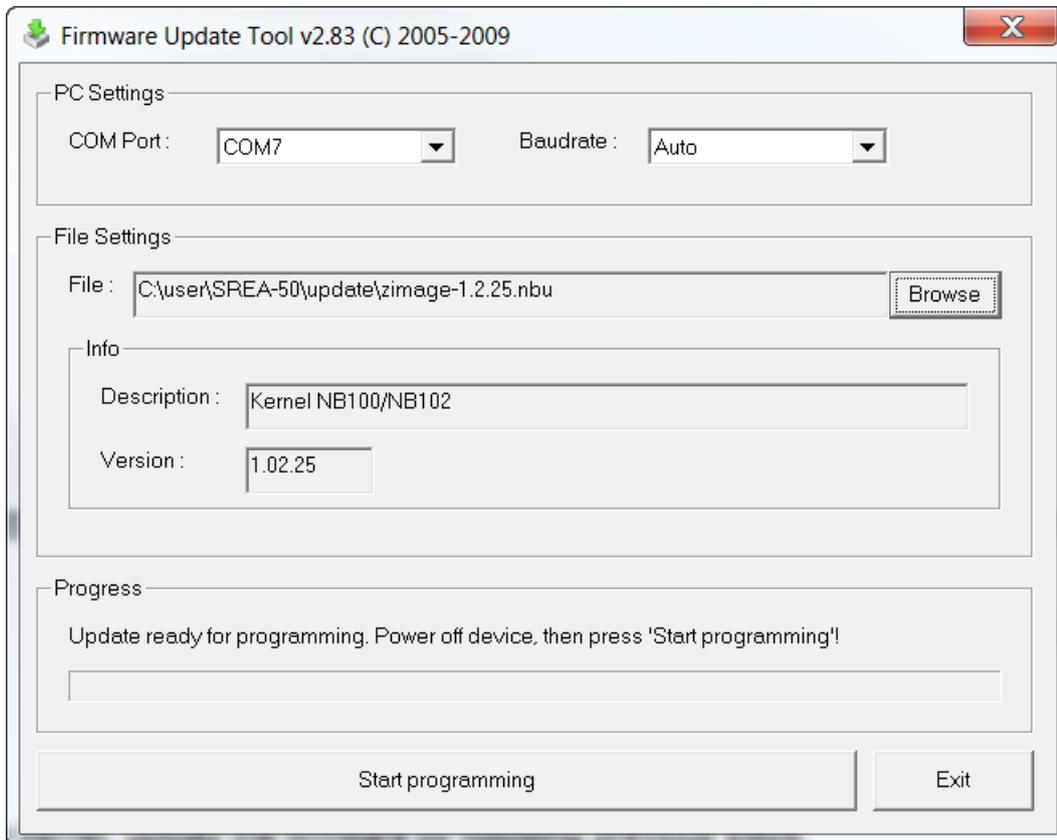
**Step 7**

After uploading reboot the adapter by pressing **Yes**.



## Step 8

After updating the kernel, upload the firmware by following previous steps.



**Firmware Update Tool v2.83 (C) 2005-2009**

**PC Settings**  
COM Port:  Baudrate:

**File Settings**  
File:

**Info**  
Description:   
Version:

**Progress**  
Update ready for programming. Power off device, then press 'Start programming!'

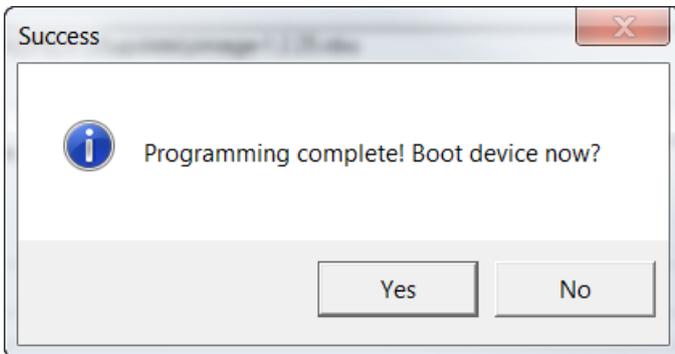
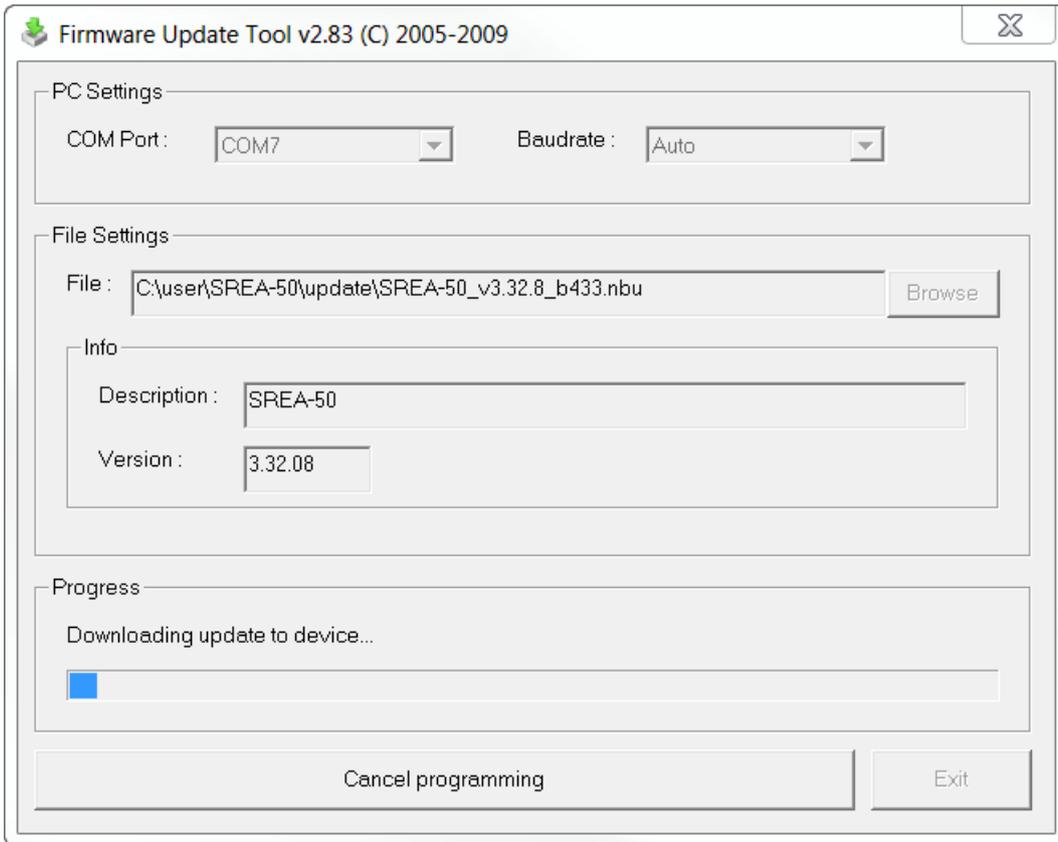
**Firmware Update Tool v2.83 (C) 2005-2009**

**PC Settings**  
COM Port:  Baudrate:

**File Settings**  
File:

**Info**  
Description:   
Version:

**Progress**  
Power on device now!



## Troubleshooting

### Lost IP address

In case of lost IP address of the SREA-50, use IP configuration tool to discover IP address of the SREA-50 adapter.

**Note!** *Firewalls may block IP configuration tool to operate normally. Disable firewall and use IP configuration tool only in local Ethernet networks.*