

Description of

Firmware Update

for

IS1+ CPU 9442

Firmware Update IS1+ CPU 9442

Warning:

Do not switch off power from the IS1+ CPU & Power Module and do not disconnect the Ethernet cable between PC and CPU during a firmware update.

Read information about the new features of the firmware carefully. A new firmware may have a different behaviour. Interruption of the firmware update procedure may result in a malfunction or loss of function of the IS1+ CPU. If there is any problem or question related to the firmware download procedure, please contact your nearest R. STAHL contact or our support team at support.automation@r-stahl.com

Preparation

Make sure the IS1+ CPU 9442 is running, connected via Ethernet cable to your PC and accessible by a web browser.

A CPU which is active and in DataExchange can not be updated. CPU must be set out of DataExchange prior to start firmware update.

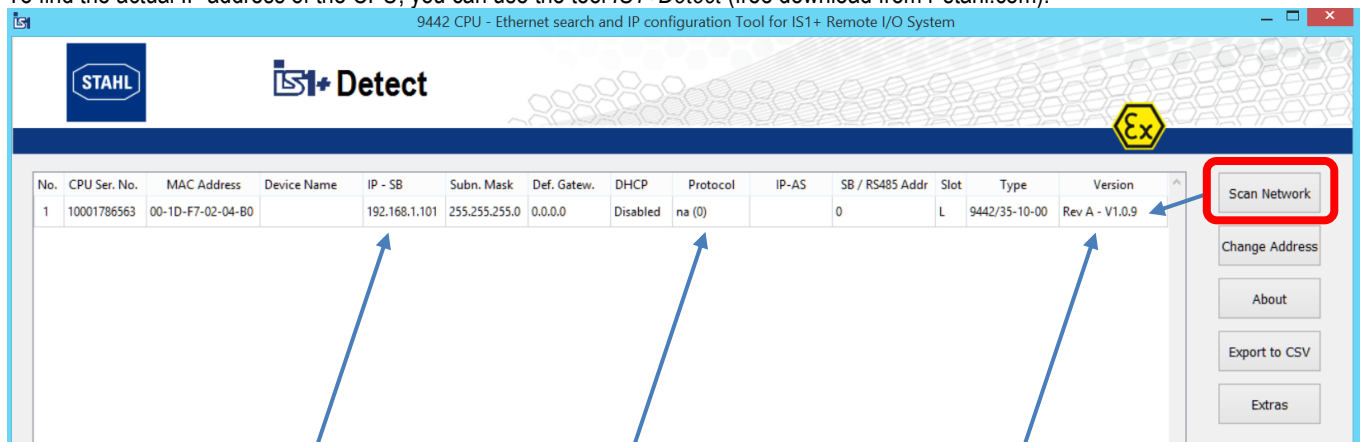
If the current firmware version is V1.0.22 or higher, an inactive redundant CPU can be updated while the active redundant CPU continues to operate. Afterwards, the other CPU should be updated to the same firmware version.

If the current firmware version is V1.0.21 or lower, redundant CPU should be updated to the same firmware version before going to DataExchange again.



Important: Connect Ethernet cable to the upper port **X2.P1** of the IS1+ CPU to do a firmware update!

To find the actual IP address of the CPU, you can use the tool *IS1+Detect* (free download from r-stahl.com):



IP-SB address (service bus)

selected protocol (switch on socket)

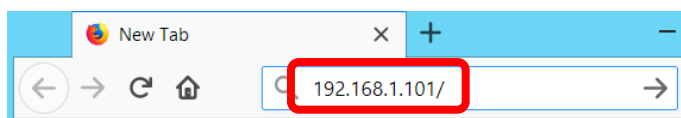
installed firmware version

IP-Address is **192.168.1.101** (subnet mask 255.255.255.0) is the factory default IP address of the CPU.

If the *IS1+Detect* tool shows multiple CPUs with the same IP address, the address of the CPU to be updated must be set to a unique IP address before starting the update. See CPU user manual for more information about setting the IP address.

The following steps are required to update the firmware:

1. Unzip Firmware-Update ZIP-file (e.g. "IS1+9442CPU FW V1.0.9-0004.ZIP") into a local folder on your PC.
Extracted file has the same name as the ZIP file "IS1+9442CPU FW V1.0.24-0005.swu" with suffix "swu".
2. Start your web browser (Firefox recommended)
3. Enter the IP-SB address of CPU in web browser and press "return"

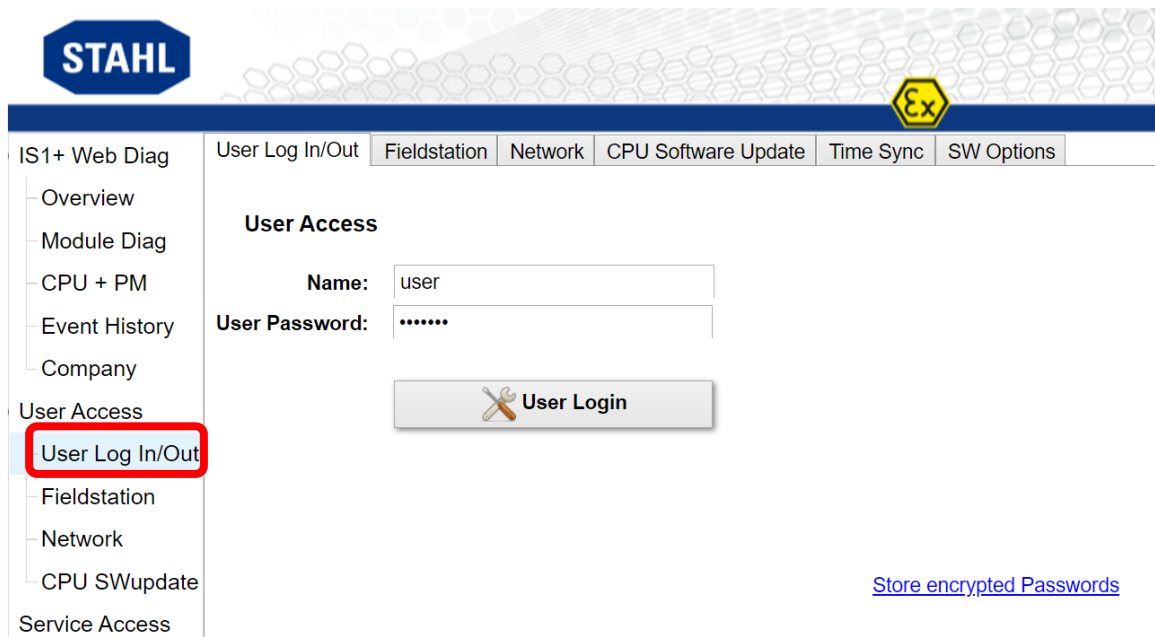


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4. The main page of the CPU's webserver appears



5. Click onto "User Log In/Out"
1. Type User Password, as set by user. Factory default password is: "R.STAHL" (without the "). If password is not known, please read user manual or contact R. STAHL support team.
 2. Click onto "User Login"



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6. Log In successful

STAHL

IS1+ Web Diag | User Log In/Out | Fieldstation | Network | CPU Software Update | Time Sync | SW Options

Overview
Module Diag
CPU + PM
Event History
Company
User Access
User Log In/Out
Fieldstation
Network
CPU SWupdate
Service Access

User Access

Name: user

User Password:

User Logout

New Password:

Change User Password

Store encrypted Passwords

User logged in!
Caution!
Access for authorized personal only !

7. Click onto register "CPU Software Update"

STAHL

IS1+ Web Diag | User Log In/Out | Fieldstation | Network | CPU Software Update | Time Sync | SW Options

Overview
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IS1+ 9442 CPU - Software Update

Name: user

User Password:

Reboot System and enter Software Update Mode

Attention!!
System operation will be stopped and System will reboot to Software Update Mode.
CPU LEDs PWR and MT = flashing
Software Update sequence has to be started in this mode via separate Webserver application. Start IPAddr http://xxx.xxx.xxx.xxx
A valid .swu file has to be selected.
Do not start the Software Update Mode without having a valid IS1+ CPU Firmware File (.swu) available for update.
After finishing Software Update sequence, system will reboot again and reenter standard operation mode.
CPU LED PWR = On
SW Update of active CPU is disabled during Data Exchange with Automation System!

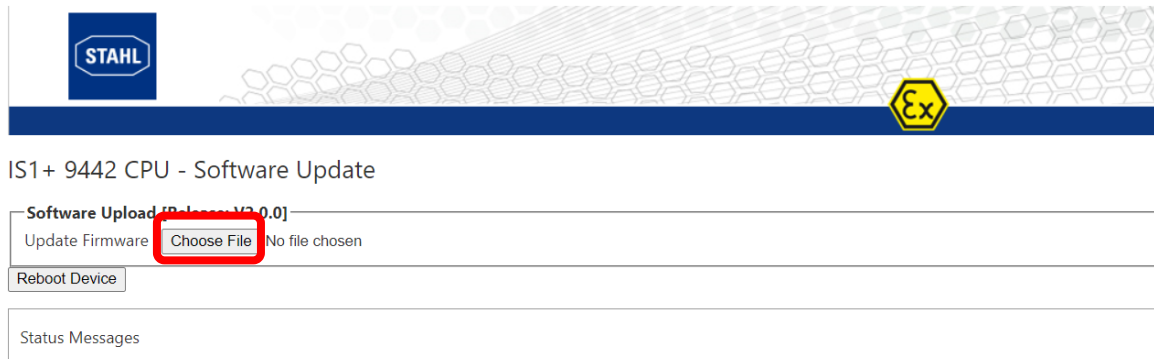
IMPORTANT: before entering update mode, make sure you have access to the correct software update file ".swu".

8. Enter Name: "user" and User Password again and click onto "Reboot System and enter Software Update Mode". The CPU will reboot and start in update mode. Normal operation is not possible while in update mode. To leave update mode the firmware update must be finished or the download must be aborted. See CPU manual for further information.
9. Acknowledge message window with "OK" and refresh / reload webpage in browser after a few seconds.

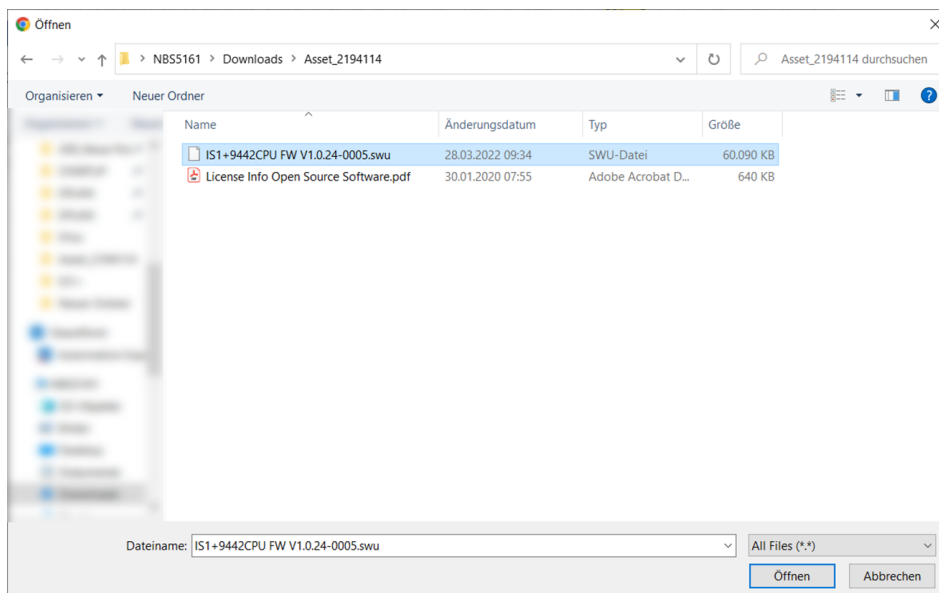


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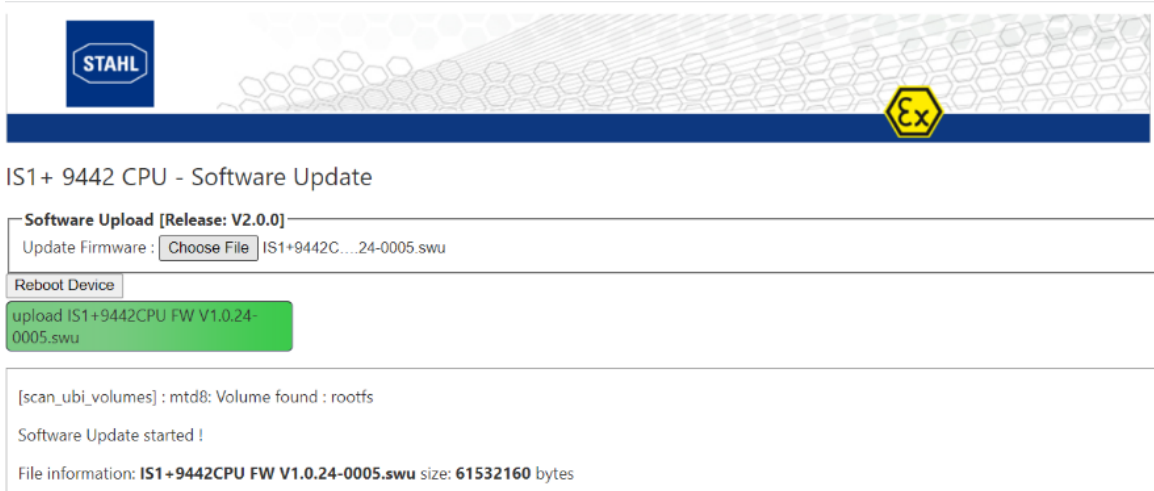
10. The webpage of the firmware update mode is shown.



11. Click onto "Choose File..."
 12. Select the firmware file (e.g. IS1+9442CPU FW V1.0.24-0005.swu) and press "Open".

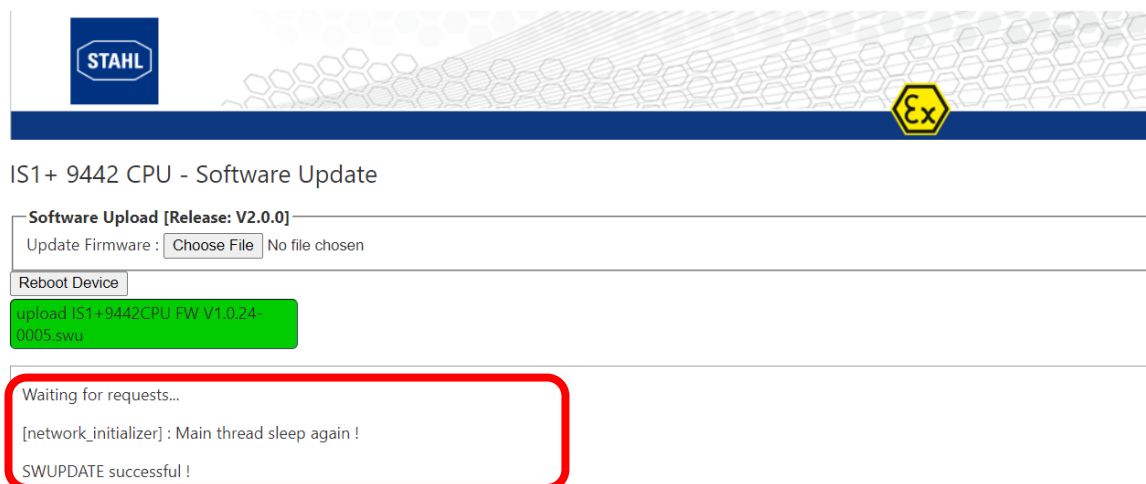


13. Update will start. Webpage shows progress during firmware update.

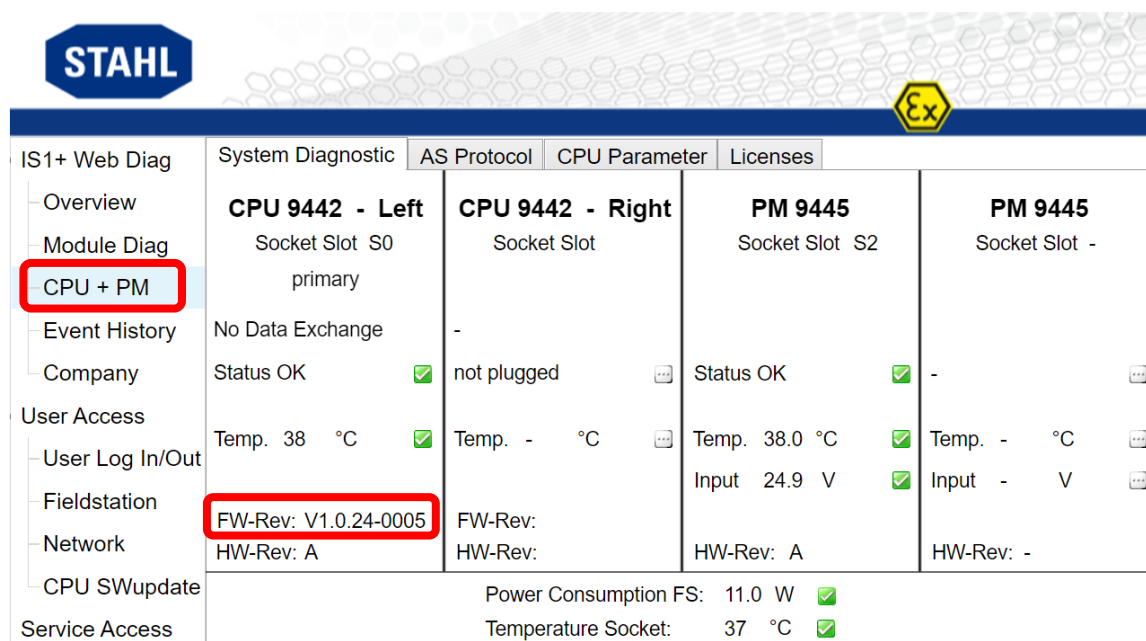


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14. Wait approx. 5 minutes for the update to finish. Do not interrupt the firmware update!
If the update is not finished after 15 minutes, please contact our support.
15. Firmware update is finished if following information is shown:



16. CPU will reboot automatically after successful firmware update (not required to use "Reboot Device" button)
17. Refresh/reload webpage in browser and the IS1+ web server main page will be shown
18. You can check the firmware version by opening the menu "CPU + PM" .



System is ready for operation. If the system had a valid configuration, the configuration data will be loaded automatically.

Support address

R. STAHL Schaltgeraete GmbH
Business Unit Automation Interface and Solutions

eMail: support.automation@r-stahl.com
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