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S7-1200 CPU 12xx -- Setting up and parameterizing hardware -- Initializing and parameterizing modules

- How does startup work in an S7-1200?
- What is the connection between subnet masks and IP addresses with regard to subnetting and supernetting (classless inter domain routing CIDR)?
- How can you prevent data loss of runtime-generated parameters when updating your S7-1200 PLC program?
- How can you share runtime-generated parameters between several S7-1200 PLCs with a KTP Basic Panel?
- How can you change the IP address of an S7-1200 without using STEP 7 Basic?
- How can you erase the IP address and set your S7-1200 PLC back to factory settings, using the SIMATIC MC memory card (2MB or 24MB)?
- How can you download to a network of several S7-1200 PLCs with the same IP address?
- **How can you reset the IP address of your S7-1200 PLC using STEP 7 Basic software?**

How can you reset the IP address of your S7-1200 PLC using STEP 7 Basic software?

Description

You can reset the IP address of your S7-1200 PLC using the function "Reset to factory settings" of the STEP 7 Basic software. Therefore you need online access to your S7-1200 PLC. This means the IP address of your S7-1200 PLC needs to be the same as the IP address in your STEP 7 Basic project. Otherwise you cannot go online.

Adjusting the IP address

1. To figure out the IP address of your S7-1200 PLC, highlight your S7-1200 PLC in the project tree. Browse the menu bar for "Online > Extended download to device..." and check the "Show all accessible devices" check box. The IP address of your S7-1200 PLC is listed in the "address" column.
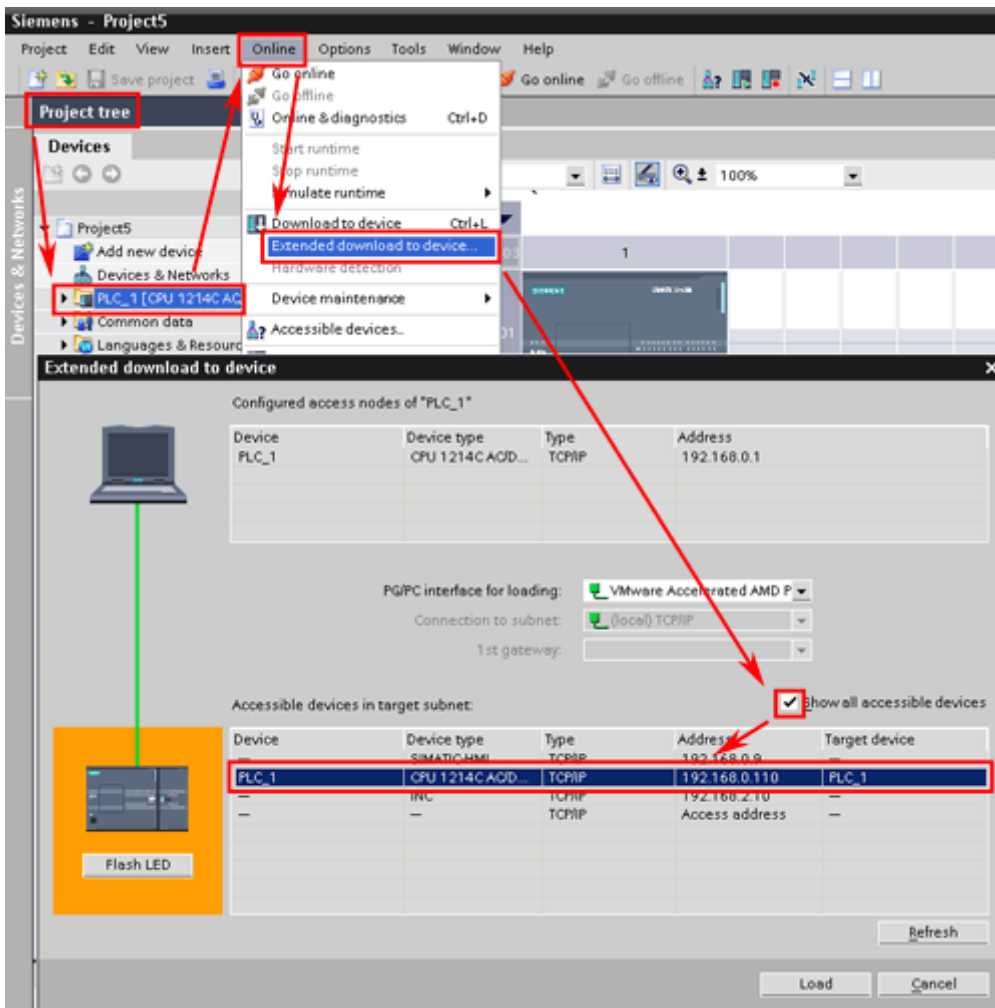
Figure 01

2. Change the IP address of the S7-1200 PLC in your project. Browse the project tree for the "Device configuration" of your S7-1200 PLC and click the Ethernet port in the work area. Open the "Ethernet addresses" properties and enter the IP address which you figured out in step 1.
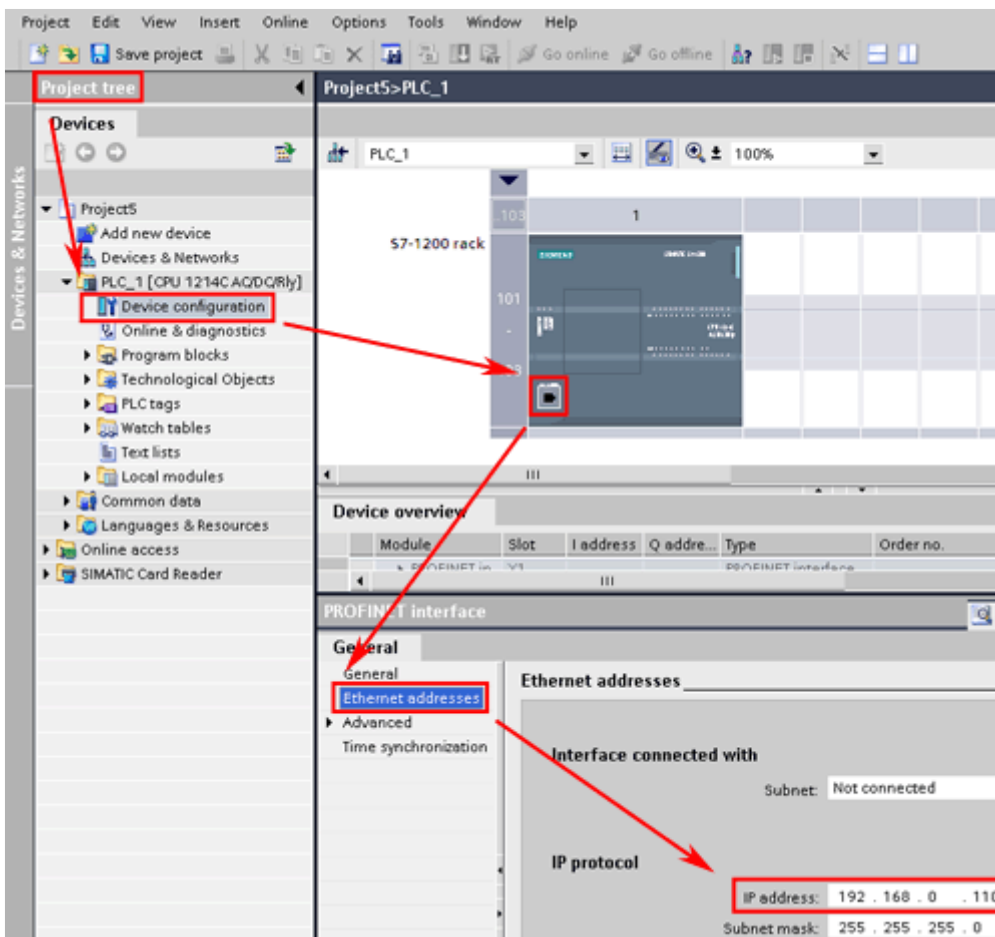
Figure 02

Resetting the IP address

1. Launch STEP 7 Basic, and open the project containing the S7-1200 PLC whose IP address you want to reset.
2. In the project tree, browse for the S7-1200 PLC and highlight it.
3. Click the toolbar command "Go online". The title bar changes to orange. You have online access to the S7-1200 PLC now.
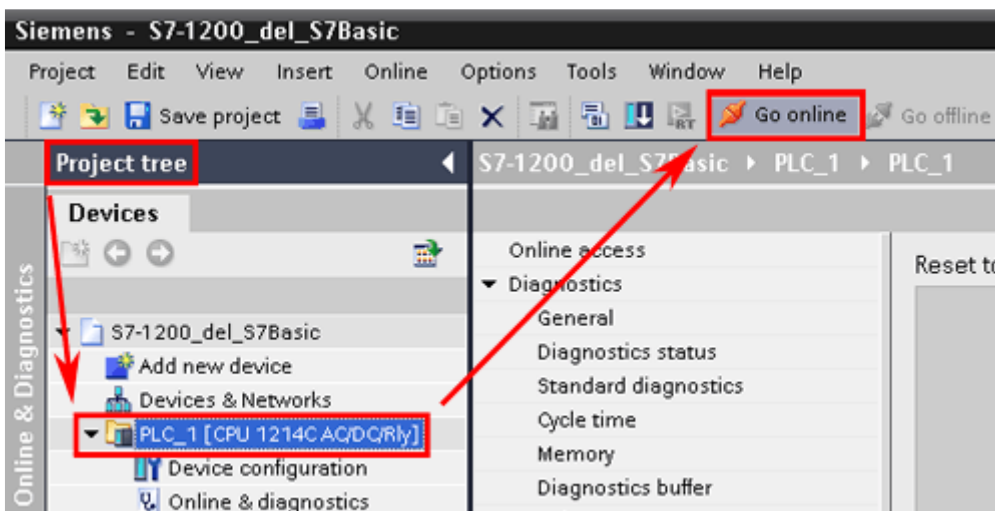
Figure 03

4. Double-click item "Online & Diagnostics" in the PLC folder in the project tree. The "Online

access" dialog window of your PLC opens.

5.   In the Navigation area, browse for "Functions > Reset to factory settings".

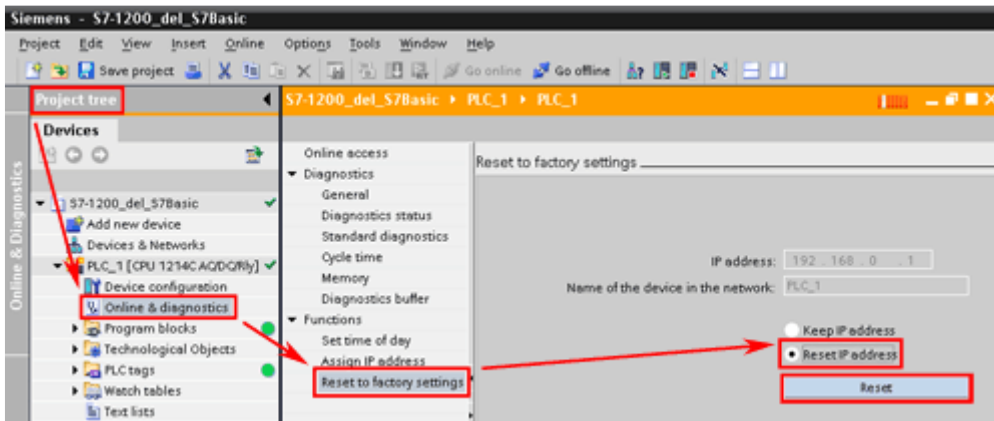6.   Select the radio button "Reset IP address" in the work area, and click the "Reset" button.

Figure 04

7.   A "Reset to factory settings" dialog box opens. Click the "OK" button.

The IP address is erased.

Note
Make sure that no SIMATIC MC memory card is inserted in your S7-1200 PLC while deleting the IP address.

Keywords
CPU