Sesi 6 21/6/2025-1 SU:PLC Siemen [SIR SidiQ]

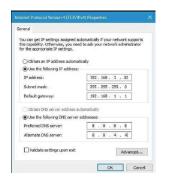
- 1. Ip Configuration
- 2. Choosing a PLC and Software:
- 3. Defining Inputs and Outputs:
- 4. Writing the Program Logic:
- 5. Testing and Debugging:
- 6. Downloading and Running:
- 7. Monitoring and Adjusting:

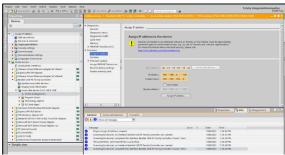
1 Configure IP address Manual

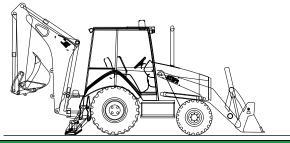
configure the IP address, subnet mask, and potentially the gateway address on your devices

Control Panel\Network and Internet\Network Connections \Ethernet2 Properties\change setting of this connection\

The default IP address for the Siemens S7-1200 PLC is typically 192.168.0.1.



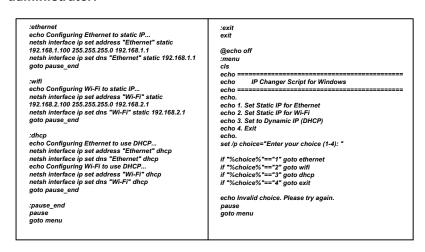




Configure IP Address Auto

Sample Batch Script

The following sample script provides a simple menu-driven approach. Save it as ip_changer.bat and run it as an administrator:



Siemens TIA Portal local project server

```
[Portal] net.tcp://127.0.0.1:9037/Siemens.Automation.Portal.Server/ProjectRepository
            [Portal] AddDefaultUsers method. Default Users list: EXPERTBOOK\fanez,BUILTIN\Administrators
[Portal] AddDefaultUsers method. Fetched Users list from database: S-1-5-21-276004528-1560449861-4124384797-1001
                         net.tcp://localhost:9037/
Starting new instance of access control server
            [Portal
INFO: [Portal] Starting new instance of access control server.

INFO: [AccessControl] No upgrade steps availble for database file [AccessControl.db], current version 13 is latest version INFO: [AccessControl] net.pipe://127.0.0.1/Siemens.Automation.Portal.Server/ProjectRepository/1.1/fanez/AccessControl INFO: [AccessControl] Host opened, listening at:

INFO: [AccessControl] net.pipe://localhost/ (only from this machine)

INFO: [AccessControl] Access Control server started successfully.
 Server started. Press Ctrl+C to exit.
            [Portal] ClientAddress : 127.0.0.1/59782 : GetGroups Completed
[Portal] ClientAddress : 127.0.0.1/59782 : CreateProject Completed
[Portal] ClientAddress : 127.0.0.1/59785 : Starting project service for client using contract version 60
          [Project : Project3] Performance monitoring is enabled for project server [Project3]. [Project : Project3] Reading lock journal, building lock cache. [Project : Project3] Finished reading lock journal. Lock cache is up to date.
INFO:
                             Project3] net.tcp://127.0.0.1:9038/Siemens.Automation.Portal.Server/ProjectRepository/Project3
Project3] Host opened, listening at:
Project3] net.tcp://localhost:9038/ (only from this machine)
           [Project
INFO:
           [Project : Project3]
          [Project :
                             Project3] Project server [Project3] started successfully.
INFO:
                                              EXPERTBOOK\fanez: Started upload for workspace 0 using compression strategy 'NoCompression' and delta version '2'.
          [Project :
                             Project3] Uploading: Transfer finished, 462.41 KB in 00:00:00.3379867, 1.34 MB/s.
                             Project3] EXPERTBOOK\fanez: Finished upload for workspace 0 with change data. Created revision 1.
                          ClientAddress: 127.0.0.1/59782: GetGroups Completed
ClientAddress: 127.0.0.1/59887: Starting project service for client using contract version 60
Project server [6e99d7a7-ac93-49a3-a464-9b348111abb2] is already running.
          [Project : Project3] EXPERTBOOK\fanez: Created workspace 1 for computer EXPERTBOOK.
          [Project : Project3] EXPERTBOOK\fanez: Started download of revision 1 for workspace 1 using compression strategy 'NoCompression' and delta version '2'.
[Project : Project3] Downloading: Transfer finished, 0.00 KB in 00:00:00.1158024, 0.00 KB/s.
          [Project : Project3] EXPERTBOOK\fanez: Finished download for workspace 1. Got revision 1.
            Portal] ClientAddress : 127.0.0.1/59782 : GetGroups Completed
```

Siemens TIA Portal local project server

To manage the Siemens TIA Portal local project server from the command line, you'll use the prjsrv command (for the project server) and the pspt command (for the Power Tools). These tools, along with the musrv command for the multiuser server, allow you to start, stop, configure, and manage server projects and libraries.

Key Commands and Their Functions:

prjsrv:

Used for managing the project server itself.

You can use it to start, stop, or configure the project server.

pspt:

Used to manage server projects, libraries, and local sessions on the project server through the Power Tools.

musrv:

Used for managing the multiuser server, including installation, configuration, and certificate management.

Example Usage:

starting the project server: prjsrv start.

Stopping the project server: prjsrv stop.

Installing the multiuser server: musrv
install -r <repository_path> -p <port_number>
-b https -h <certificate_hash> (requires administrator rights).

Managing server projects using Power Tools: pspt (followed by specific commands for actions like creating, opening,

or deleting projects).
Important Considerations

Administrative Rights:

Some commands, especially those related to installation and configuration of the multiuser server, require administrator privileges.

TIA Portal Installation

The local project server is typically installed by default with TIA Portal.

Power Tools:

The Project Server Power Tools are used for more advanced management tasks and are accessed via the pspt command.