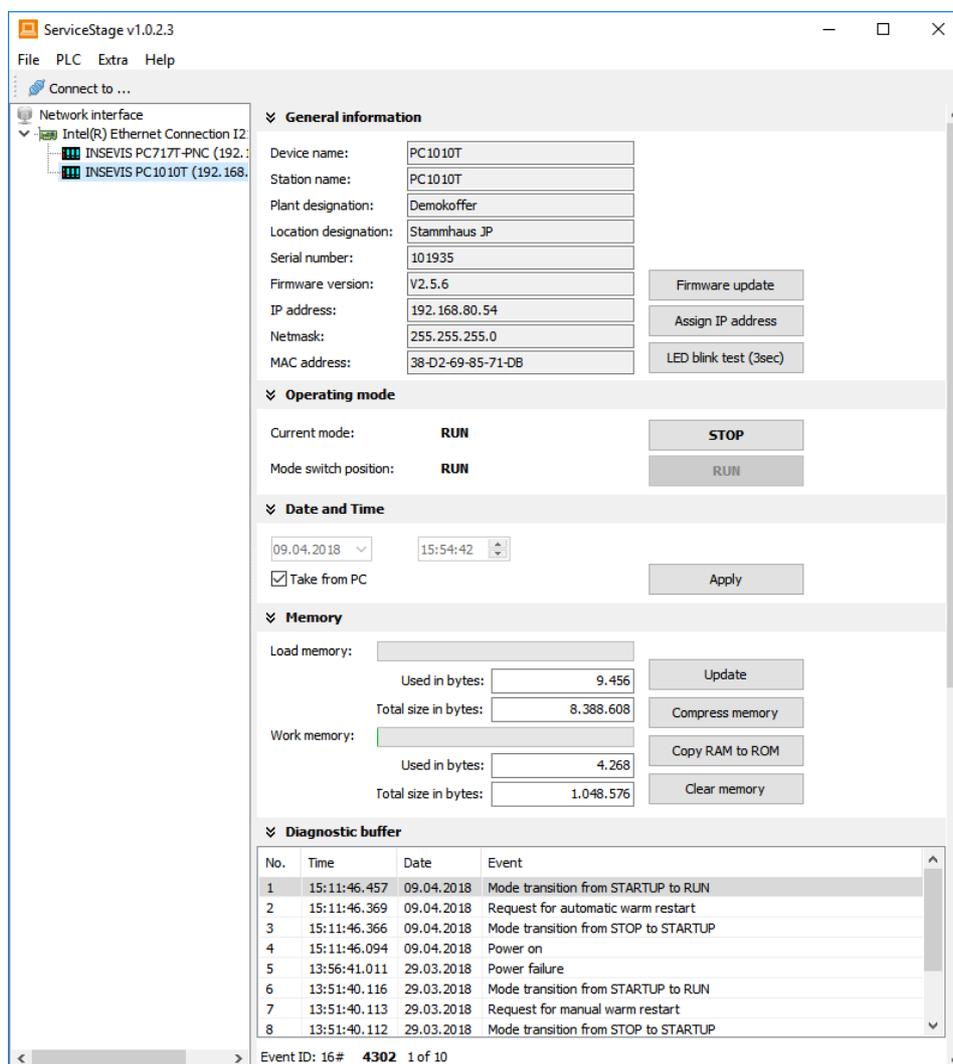


# Product information

## Maintenance software

# ServiceStage



(valid from 02/2014)

### Changes to older versions of this document

- Changed in Rev. 1:** complete new document from ServiceStage 1.0.1.2
- Changed in Rev. 2:** new design line, backups integrated
- Changed in Rev. 3:** adapted to newest software release and manual revision

## General features of ServiceStage

Freeware



The „ServiceStage“ is made to have easy service access to the PLCs. It allows to identify a S7-CPU by its IP-address and to analyze it by diagnostic buffer, to update the user-programs and to set the protection levels. This software is free of licenses, offers lots of service functions easily to be found even if you are not working every day with this software tool. Installed in a minute, useful service functions, absolutely easy to understand.

These functions can be solved with the **freeware** „ServiceStage“

- Device specific data like (ser-no., firmware version, IP-address, MAC-address, etc.),
- Change IP-address directly, Download firmware (for CPU-T-devices)
- Changing of the operation mode RUN ↔ STOP,
- Set and synchronize date and time,
- Memory diagnostic and comprimation,
- Read out, show and store CPU-diagnostic buffer,
- Download of S7-program (as wld-file), visualization- and configurations binary,
- Create backup files and directory on Micro-SD-card
- Assign the know-how-protection levels (Read and/or Write protection)

## Function overview of ServiceStage

Freeware

### General information

Displays the system data to inform only (like serial number, firmware version, MAC-address). Shows editable data like

- IP-address,
- Net mask and
- Router-IP-address

as well as a blink test button to identify your CPU again.

#### Only for CPU-T:

Firmwareupdate possible by Ethernet

#### General information

Device name:	PC717T-PNC	
Station name:	F65 PC717-PNC	
Plant designation:		
Location designation:		
Serial number:	1234	
Firmware version:	T2.3.0	Firmware update
IP address:	192.168.80.73	Assign IP address
Netmask:	255.255.255.0	
MAC address:	1C-BA-8C-95-AB-D1	LED blink test (3sec)

### Operating mode

Here you can change the operating mode of you CPU between RUN and STOP (not for Panel-HMI). This change must be confirmed in an extra window.

#### Operating mode

Current mode:	RUN	STOP
Mode switch position:	RUN	RUN

### Date and time

For manual adustment of system date and time. By checking the box „**Take from PC**“ these data will be taken over from your PC after pressing „**Apply**“.

#### Date and Time

12.02.2013	08:48:32	
<input checked="" type="checkbox"/> Take from PC		Apply

### Memory

Shows the workload of the load- and work-memory (not for Panels-HMI).

The function „**Compress memory**“ should be used manually after multiple download of S7-programs to clear the memory.

The function „**Copy RAM to ROM**“ copies the battery buffered load memory content (like process data) to the onboard flash, to prevent a loss of data.

The function „**Clear Memory**“ deletes all user and process data in the CPU, only the firmware (operating system) remains.

### Diagnostic buffer

It displays the last 100 entries of the diagnostic buffer listed by date and time (not at Panels-HMI).

By checking the function „**Information in hexadecimal format**“ it is shown in an hexadecimal system.

By pressing „**Update**“ new events will be displayed, what happened meanwhile.

With „**Save as**“ the displayed entries will be saved into a text file (\*.txt).

No.	Time	Date	Event
1	09:40:19	05.02.2013	Mode transition from STARTUP to RUN
2	09:40:19	05.02.2013	Request for automatic warm restart
3	09:40:19	05.02.2013	Mode transition from STOP to STARTUP
4	09:40:19	05.02.2013	Power on
5	19:09:08	04.02.2013	Power failure
6	18:26:23	04.02.2013	Mode transition from STARTUP to RUN
7	18:26:23	04.02.2013	Request for automatic warm restart
8	18:26:23	04.02.2013	Mode transition from STOP to STARTUP
9	18:26:23	04.02.2013	Power on
10	16:30:59	04.02.2013	Power failure

### Know-how-protection

With version 1.0.1.1 can be set different levels of to protect the S7-program against unauthorized reading or writing. Therefore the PLC will be switched to STOP-mode.

Protection level	Read access	Write access
<input type="radio"/> No protection	✓	✓
<input checked="" type="radio"/> Read protection	✗	✓
<input type="radio"/> Write protection	✓	✗
<input type="radio"/> Read write protection	✗	✗

### Block Update

This function makes it possible to download

- the S7-user program as MemoryCard-file \*.wld
- the INSEVIS-binary for visualization file as \*.vsbin and
- the INSEVIS-configuration file as \*.csbin

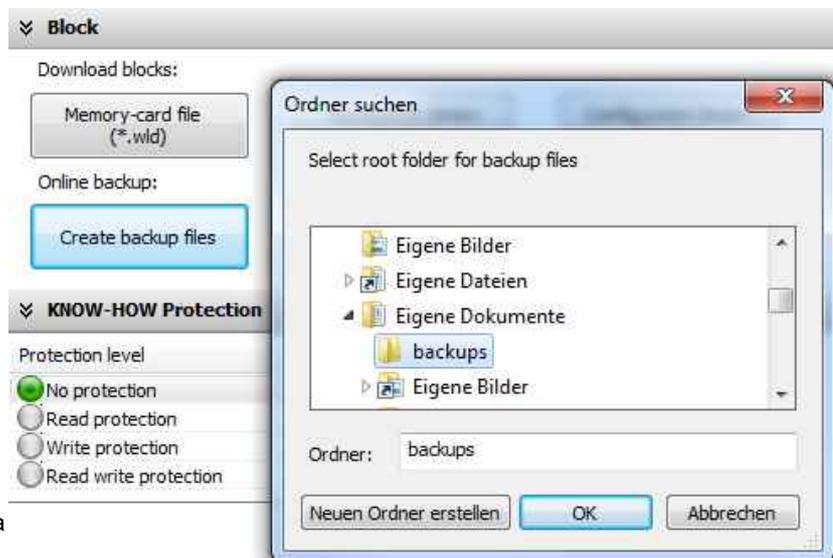
via the network into the CPU

## Online Backup

This function creates an WLD-file with all the S7-system data and all OB, DB, FB, SFB and SFC and copies this file with the visualization binary file into a folder „backups“.



With these data S7-programs and visualizations can be updated by a Micro-SD-card only – complete without any PC. (more at „System functions“, chapter „Data backup and restore“)



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