

SINUMERIK ONE/MCSINUMERIK Service System V06.01.03.00

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1 SINUMERIK Service system (formerly „eboot“)

The SINUMERIK Service system is delivered as an image file for a USB stick. With the image you can create a bootable system (Linux) on an USB stick. The SINUMERIK Service system stick allows to boot a SINUMERIK and execute various service tasks in a graphic menu.

The SINUMERIK Service system is based on the Linux operating system located in its own partition on the stick. This partition is not visible under Windows. Further More, the stick also provides a FAT data partition. The data partition can be read and written to under Windows.

Please preferably use a Siemens USB stick, order number 6AV6881-0AS42-0AA0.

2 Create a Service system with Sinumerik Integrate Access MyMachine /P2P

How to create a Service system on a USB memory:

1. Copy the Service system to a local hard disk of your PG/PC.
2. Connect the USB memory to the USB interface of the PG/PC.
3. In Windows Explorer, determine which drive letter has been assigned to the USB memory, e.g. H:.
4. Format the USB memory.
5. Open the program Access MyMachine /P2P.
6. In the menu bar of the program, click on "Tools" → "Write image to CF card...". The dialog "Write image on CF card..." opens.
7. Use the dialog box to select the image file (*.img) and the running letter (e.g., H:\) for the storage media.
8. Click Write. The image is written to the USB memory.
9. Plug USB into NCU/PPU
10. Move rotary switch "NCK" to position <>0, f.e. "F"
11. Run up NCU/PPU system until service menu is displayed, after that, the service system is ready to use

3 Hints und Restrictions

3.1 Hints

- Improvements/changes in V06.01.03.00
 - Internal improvements
- Improvements/changes in V06.00.96.02
 - Bugfix, a system restore point is created correctly and can be read in into an empty system partition (spare part use case).
- Improvements/changes in V06.00.96.00
 - In the menu under "Diagnosis" – "Copy Firmware Readme OSS" the readme OSS of the NCU/PPU hardware can be copied to the FAT partition of the service stick
 - In the menu under "Restore NCU Software and Data" – "Clear SD Card + install empty image from USB stick" an SD blank card image (.img) can be stored to the SD card (prerequisite for being able to restore a previously created SD card backup (.tgz))
 - A SSD backup (.tgz) can now be restored to a brand new NCU/PPU with an empty system partition. To do this, the backup must have been created with a service system >= 06.00.96.00.
 - Increased robustness menu item "Firmware Update" – "FPGA update"
 - The passwords (manufacturer / service / user) are reset to standard by using the following menu Update NCU Software and Data...
"Clear all + reinstall system SW...".
Alternatively, the service command "sc restore -full" can be used.
- Improvements/Changes in V06.00.83.01
 - With the Servicesystem, an additional SD-Card Image (empty) will be delivered for recovering a buggy card.
 - The file names have been changed:
 - Service system: "service.img"
 - SD-Card imag: "sdcard.img"
 - The SD-Card image can be written via the "Service-Shell":
Copy the SD card image to the root directory of the service stick. Boot NCU/PPU with service system, switch to the service shell and install the image with the following SC command.
sc clear sdcard /data/sccard.img
- Improvements in V06.00.78.00
 - System restore on empty system partition possible
- Improvements in V06.00.71.00
 - Enable/Disable internal Operate, waiting time before switching off NCU not necessary anymore.

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- HMI default data, "OEM" data are additional deleted.
- Improvements in V06.00.62.00
 - Support PPU1740
- Improvements in V06.00.51.00
 - In the SD card image, the ext4 journal is missing, which can be used to reconstruct the state of the file system after it has been switched off. This journal is now included.
It is strongly recommended to create the journal later for existing systems (all pilot machines).
=> Boot the NCU with the Service system and perform the "Check Storage Integrity" under Diagnosis.

It applies to SD card deliveries until October 2019.

3.2 Restriction

- Restrictions V06.01.03.00
 - none
- Restrictions V06.00.96.02
 - none
- Restrictions V06.00.96.00
 - none
- Restrictions V06.00.83.01
 - none
- Restrictions V06.00.78.00
 - none
- Restrictions V06.00.71.00
 - none
- Restrictions V06.00.51.00
 - none