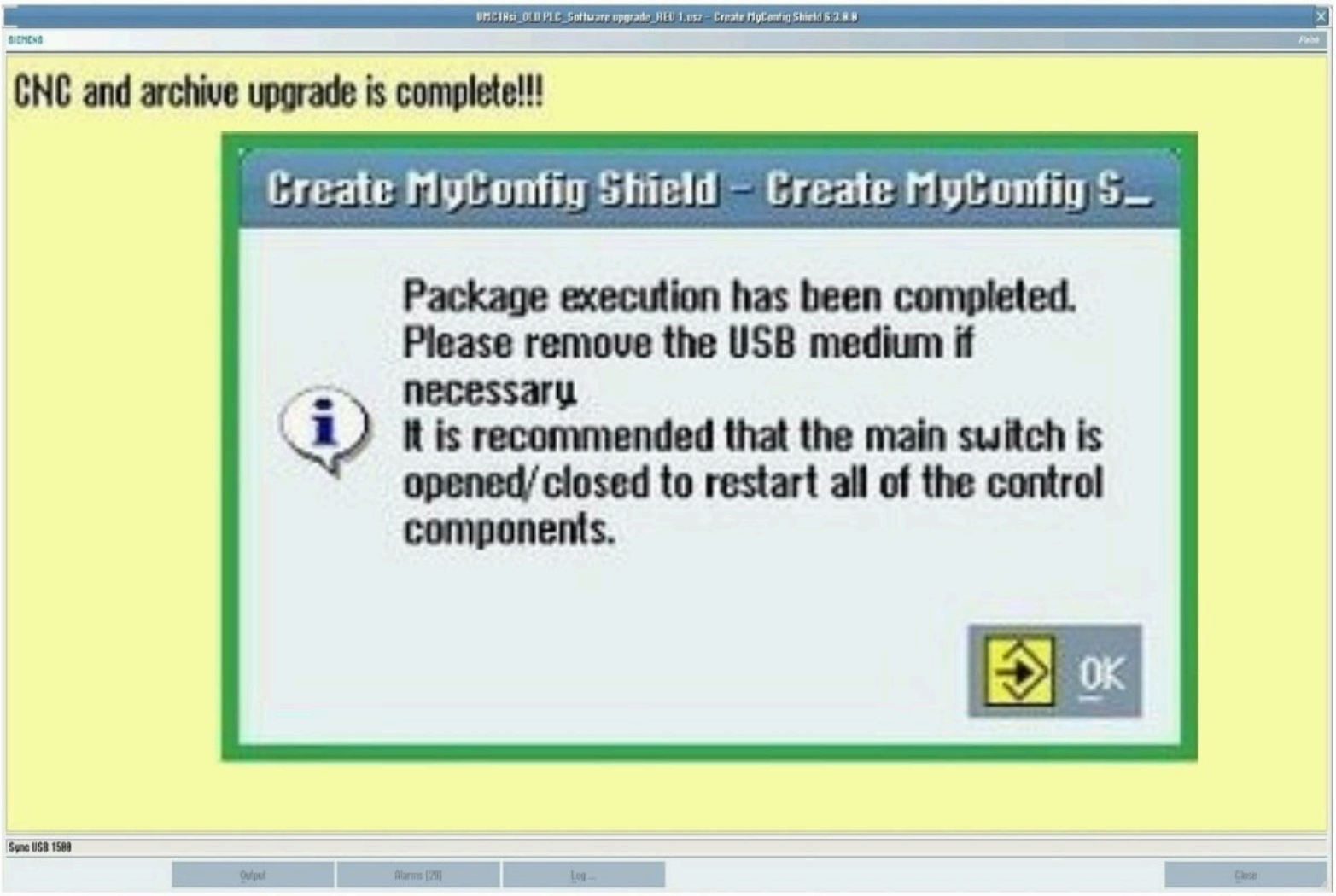
# VMCsi - Create My Config Expert Software Upgrade

Upgrade a VMCsi to the latest PLC user program and machine configuration with the Expert Deployment file.

Written By: Ryan Levrini

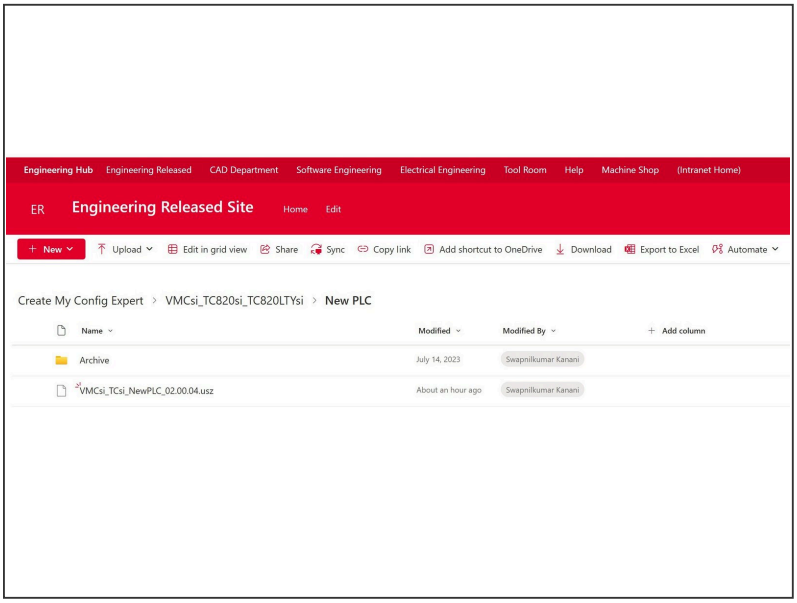

CNC and archive upgrade is complete!!!
Create MyConfig Shield – Create MyConfig S_
Package execution has been completed.
Please remove the USB medium if necessary.
It is recommended that the main switch is opened/closed to restart all of the control components.
OK

## INTRODUCTION

Upgrade a VMCsi to the current PLC user program and machine configuration using the Expert Deployment (Create My Config Expert) file. Read the current version of this guide before every upgrade, because Engineering may add steps with each release.


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## Step 1 — Set Up on Computer




- Start with a **clean** USB drive.

⚠ Starting with deployment file **02.00.14**, the .usz file is about **3 GB** (previously about 1.5 GB).

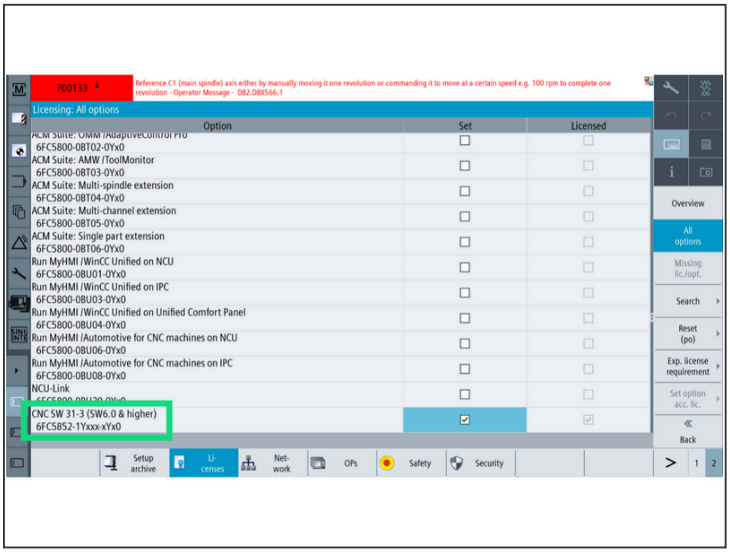
⚠ There should be **no** files on the USB stick other than the deployment '.usz' file. The machine upgrade may fail if the deployment file is not copied to a blank USB.

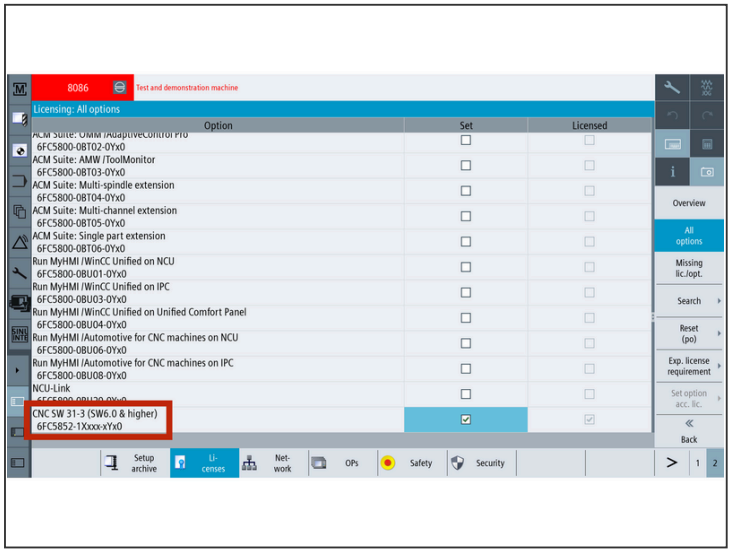
- Locate the master deployment file stored on **SharePoint**:
  - VMCsi

ⓘ Engineering will release a new deployment file (.usz) to fix bugs and add new features, so the version on the hyperlink may differ from the one shown in the picture.

- Copy the "**.usz**" file to your USB drive.

## Step 2 — Check CNC Software Before Upgrade



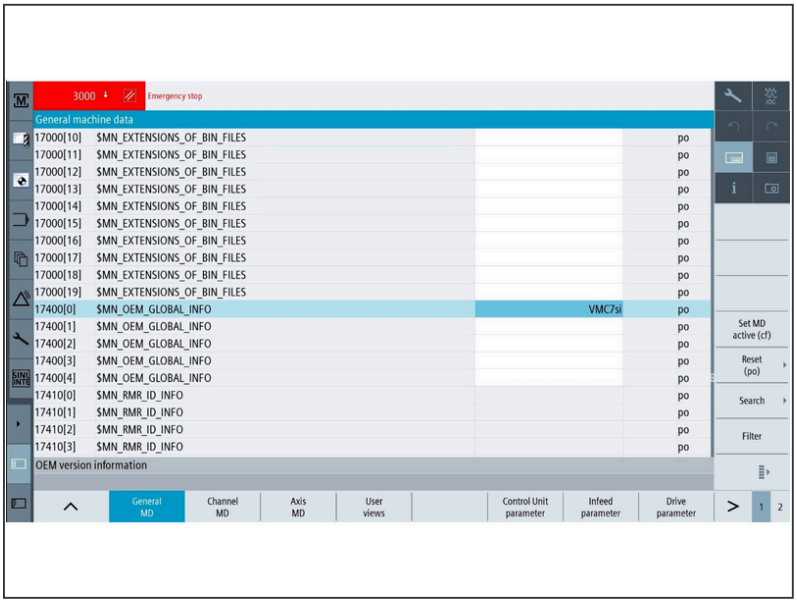

- Set the Manufacturer Password.
- Go to **[Setup]** → **[Page 2]** → **[Licenses]** → **[All options]**. Press **[Search]** and enter **6FC5852**.
- Find **CNC SW 31-3 (SW6.0 & higher)**. Read the part number and check the **Set** and **Licensed** columns:
  - 6FC5852-**1Y**xxx-xYx0, Set and Licensed both checked: **Export** SD card (6FC5852-1YG15-2YA0) with Export CNC software.
  - 6FC5852-**1X**xxx-xYx0, Set and Licensed both checked: **Standard** SD card (6FC5852-1XG15-2YA0) with Standard CNC software.

⚠ If **Set** is checked but **Licensed** is not, the CNC software does not match the SD card. Stop. Before the expert upgrade, upgrade the CNC software to match the SD card with a boot stick: Creating A Siemens Boot Stick and Upgrading CNC Software.

ⓘ If the **CNC SW 31-3 (SW6.0 & higher)** line is not listed, stop and contact TRAK Tech Support.

- Take a screenshot of this screen and name it **CNC_SW_Before_Upgrade**: How to Export a Screenshot. Keep it with the archives; it is uploaded in Step 15.

## Step 3 — VMCsi Machine Identification

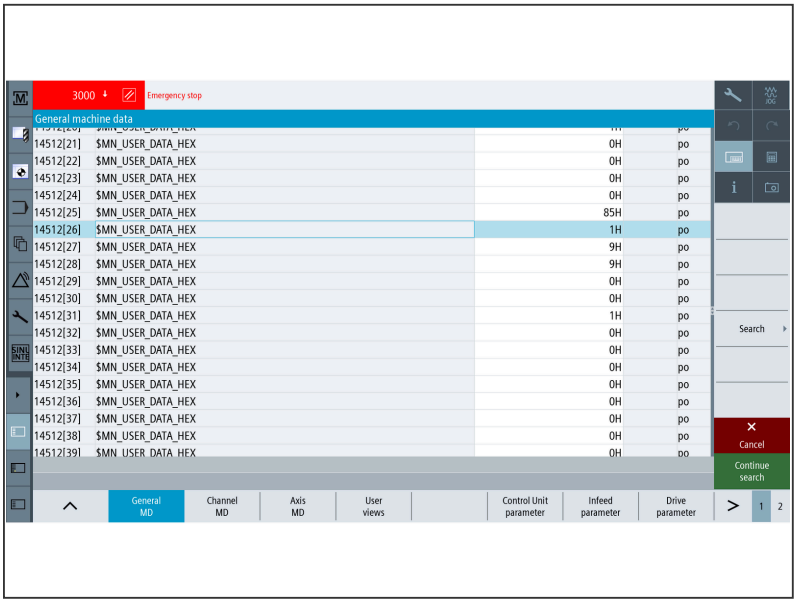



- Set Manufacturer Password.
- To set Machine Identification: go to **[Setup]** → **[Mach. Data]** → **[General MD]** → **[Search]**.
- Enter **17400** and press **[Input]**. Set 17400[0] to the machine model, entered exactly as shown: **VMC7si**, **VMC10si**, **VMC12si** or **VMC14si**.
- If you changed it, press **[Reset (po)]** to apply the change.

⚠ 17400[0] must contain the machine model only. Do not add serial numbers or other information. If it is wrong, custom screens such as the M-code side screen and the diagnostic screen may not work.

ⓘ Earlier versions of this procedure did not follow this rule, so 17400[0] may hold a serial number or other text. If it does, correct it to the model name only.

## Step 4 — Verify Automation Ready Parameters




- If **[Reset (po)]** was pressed in Step 3, reenter the Manufacturer Password.

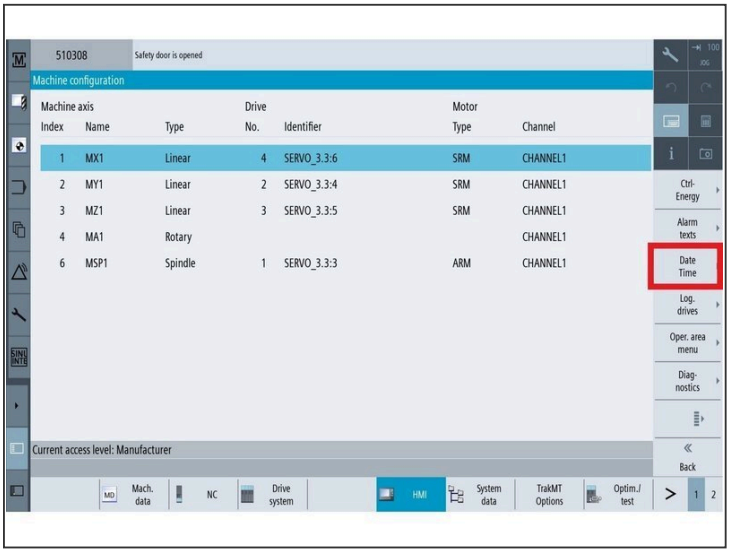
ⓘ Automation Ready uses parameters 14512[26], 14512[27], and 14512[28]. These parameters may contain default values from the factory archive, so they must be verified before and after the upgrade. Expert Deployment does not change these settings.

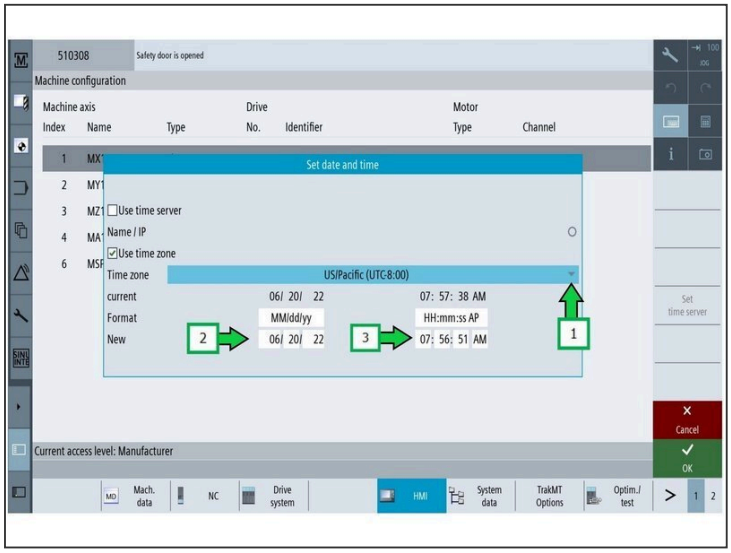
- Go to **[Setup]** → **[Mach. Data]** → **[General MD]** → **[Search]** → 14512 → **[Input]**.
- Check if any automation options are active or if the machine uses automation.
  - If automation is **enabled** and working as expected, record the current values of 14512[26], 14512[27], and 14512[28].
  - If automation is **disabled** and 14512[26], 14512[27], or 14512[28] are non-zero, set them to **0H**.

ⓘ These will be verified again after Expert Deployment.

- Press **[Reset (po)]** if you changed any values.

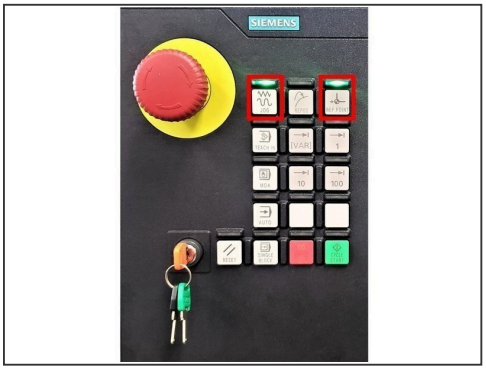
## Step 5 — Set Siemens Control Date and Time

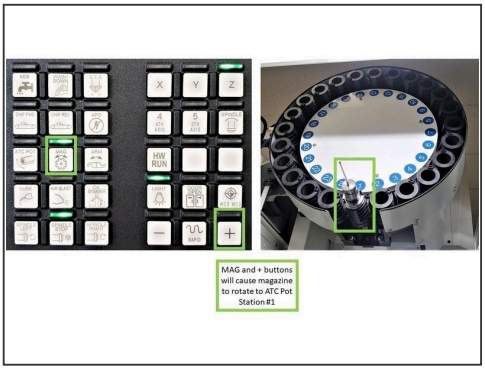


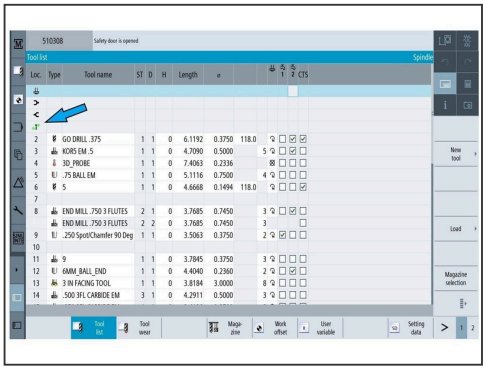




- To set Date and Time: Go to **[Setup]** → **[HMI]** → **[Date time]**.
- Verify date and time.
- If necessary, adjust the time: Update to the correct time, then click **[Accept]** and **[OK]**.

## Step 6 — VMCsi: Reference the Magazine

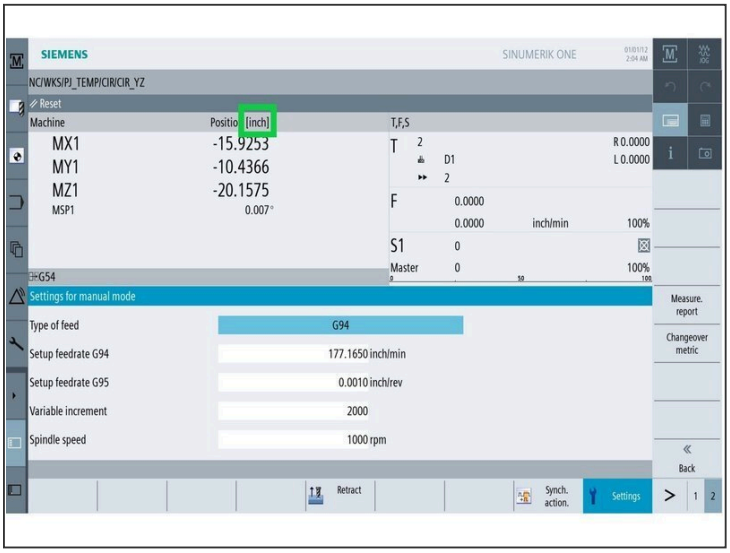


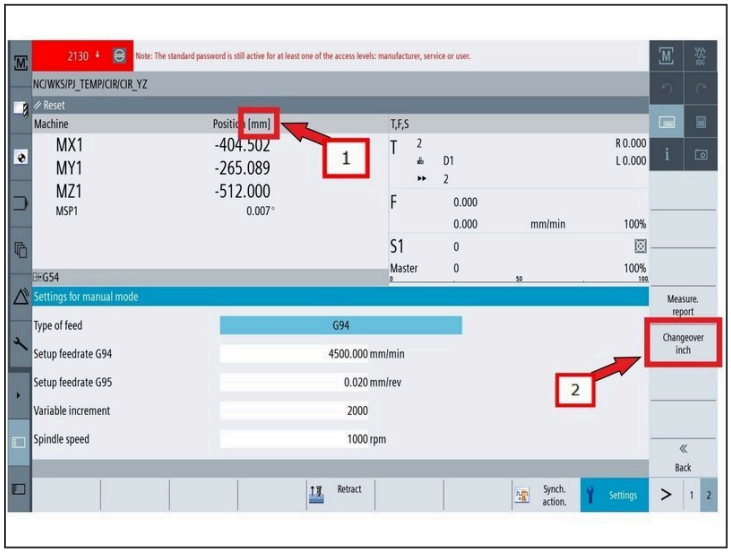



- Close the machine door.
- Turn on both the **[JOG]** and **[REF. POINT]** buttons on the MCP.
- **Press and hold [MAG]**, then press the **[+]** button to reference the tool magazine.
- **Check position**: Go to **[Tool List]**, verify that the green open arrow and pot number match the tool change position in the magazine.
  - ⓘ **Press [JOG]** on the control panel to disable REF mode.
- **Adjust if Necessary**: If the pot position and tool table green arrow do not match, perform a tool change.

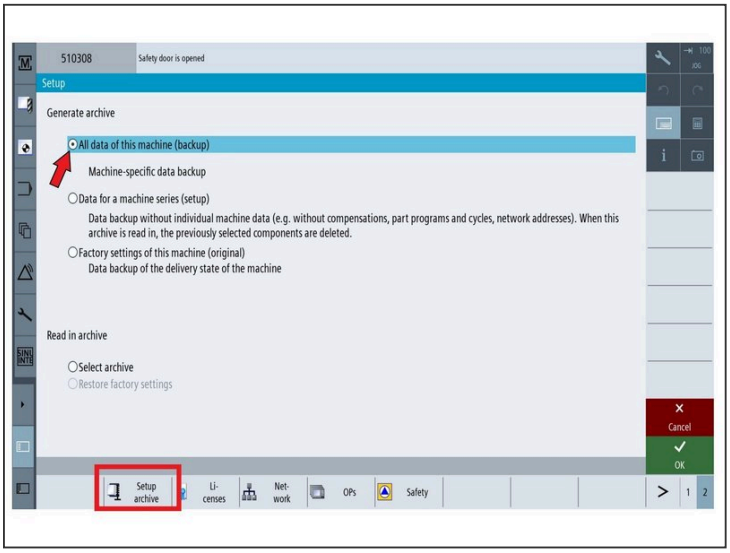
## Step 7 — Set the Control to Inch Mode

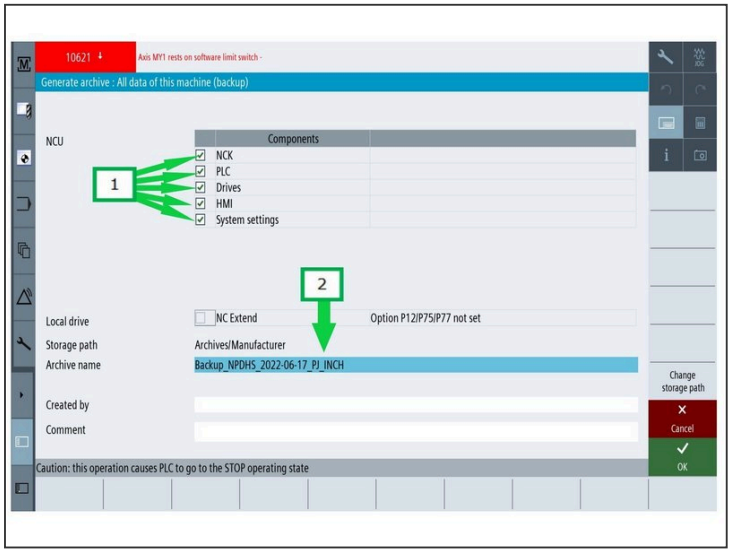



- Go to **[Machine]** and verify that the measurement is in **inch** at the position banner.
- If you need to change the measurement to **inch**: Go to **[Settings]** → **[Page 2]**, then press **[Changeover inch]**.
- Confirm the machine is now set to **[inch]**.

## Step 8 — Backup Manufacturer Archive

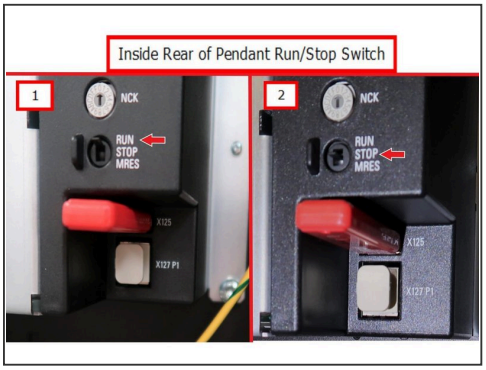


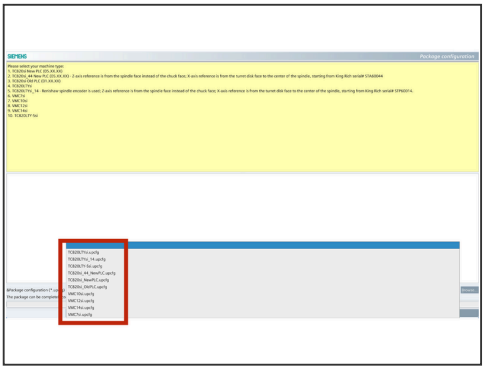



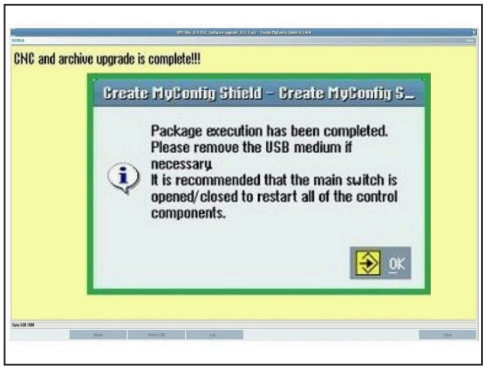

- Press **[E-Stop]**.
- Go to **[Setup]** → **[Page 2]** → **[Setup Archive]** → **[All data of this machine]** → **[OK]**
- **(1)** Make sure all boxes are checked.
- **(2)** Select the **[Archive name]** data field. Name the file: Backup_NPDHS-YYYY-MM-DD_**BEFORE_UPGRADE**. Press **[OK]**.
  - ⓘ Note: YYYY-MM-DD is the current date (e.g., June 26, 2023, is written as 2023-06-26 in the archive name).
- The default storage path should be **[Archives/Manufacturer]**. If the storage path is anything other than the default, change it by pressing **[Change storage path]** → **[Archive/Manufacturer]** → **[OK]**.
  - ⓘ This screen will also give you the option to save the archive to either USB port.

⚠ This archive is your way back if the upgrade goes wrong. Archive Current System before proceeding.

## Step 9 — Upgrade Machine to Latest Software Version





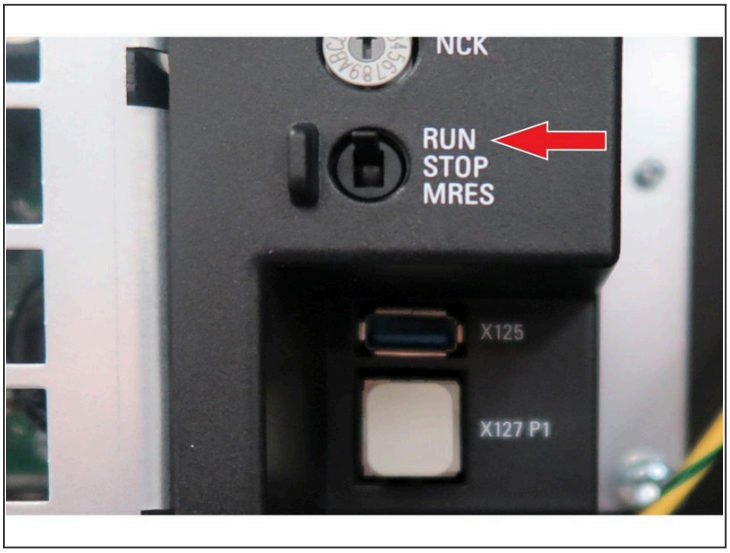

- Power off machine. Remove **pendant rear cover**. Insert USB at the rear of the pendant below the switch. Move the switch from **[RUN]** to **[Stop]**. Power up machine. Click the down arrow and select one based on machine model:
  - VMC7si
  - VMC10si
  - VMC12si
  - VMC14si

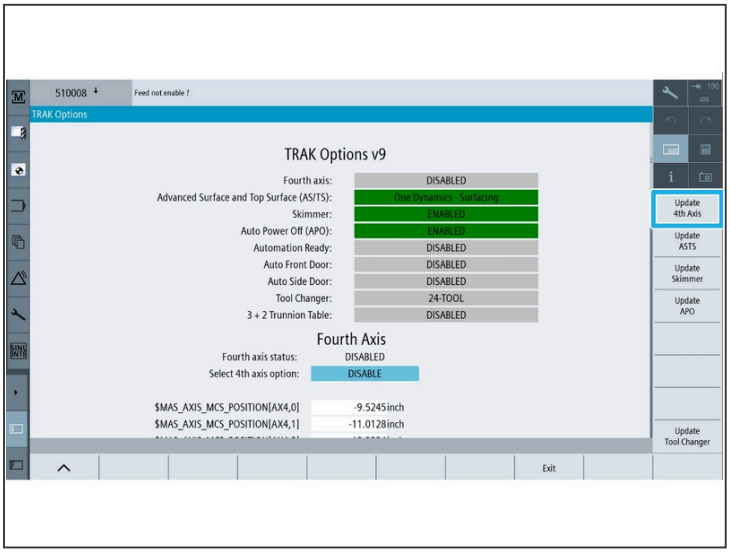
⚠ It is extremely important to select the correct option. If the wrong option is chosen, you'll need to load the original archive saved in Step 8 and repeat the upgrade process.

- After selecting the correct option, press **[Next]**. The upgrade will take approximately **20-25 minutes** if only the deployment file is applied. However, if the CNC software upgrade is also included, the process will take around **45-50 minutes**. When the upgrade is complete, press **[OK]**.

ⓘ If the popup window showing "Package Execution has been Completed" **did not appear**, or if you see a "**Package Canceled**" message in **red** at the top of the screen, then the expert deployment was not executed successfully. **Please contact TRAK Tech Support for assistance.**

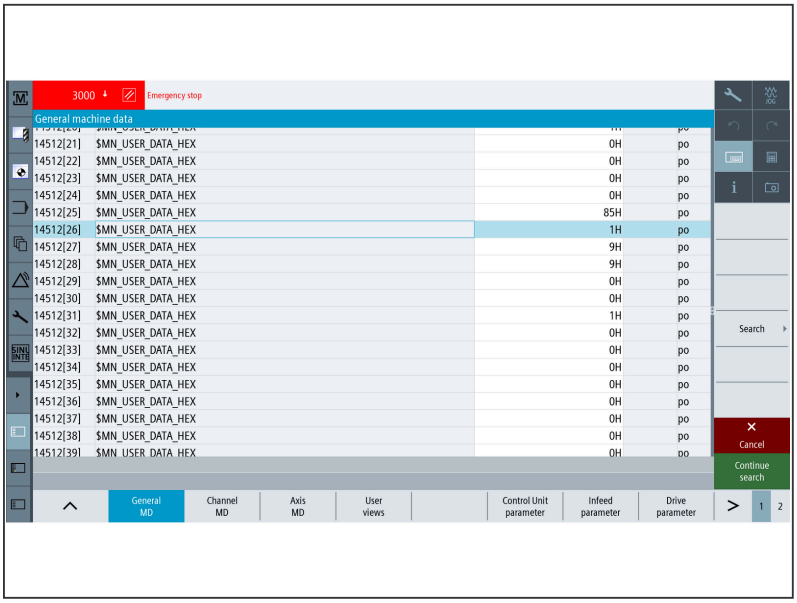
## Step 10 — Restart Machine and Check Settings




- From the rear of the pendant, remove the USB stick. Set the switch to **[RUN]** while the machine is still powered. The machine interior lights come on.
- Power cycle the machine.
- ⚠ If the switch was left in **[STOP]**, the PLC will not start after the power cycle. The screen comes up, but the machine will not run and alarm **2000 "PLC sign-of-life monitoring"** is shown.
  - To recover, with the machine on, move the switch to **[STOP]** and back to **[RUN]**, then power cycle the machine again.
- Set Manufacturer Password.
- Verify date and time. Go to **[Setup]** → **[HMI]** → **[Date time]**. Adjust if necessary.
- Go to **[Tool List]** and verify the ATC is at position 1.

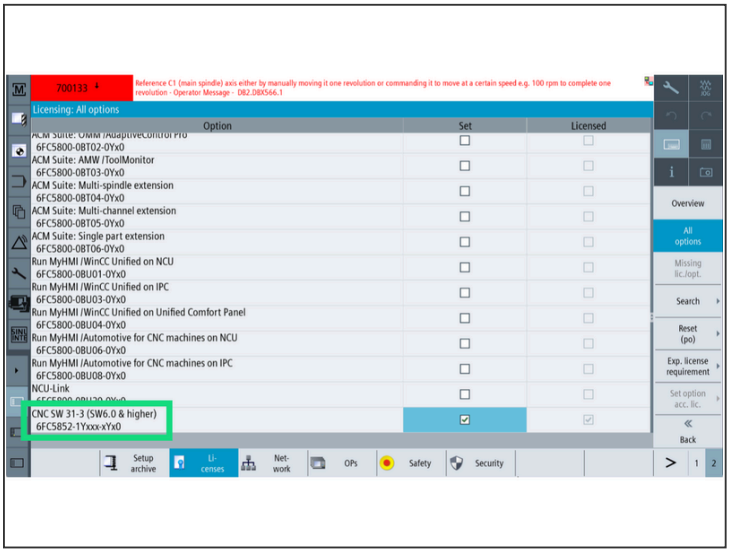
## Step 11 — Verify Automation Ready Parameters

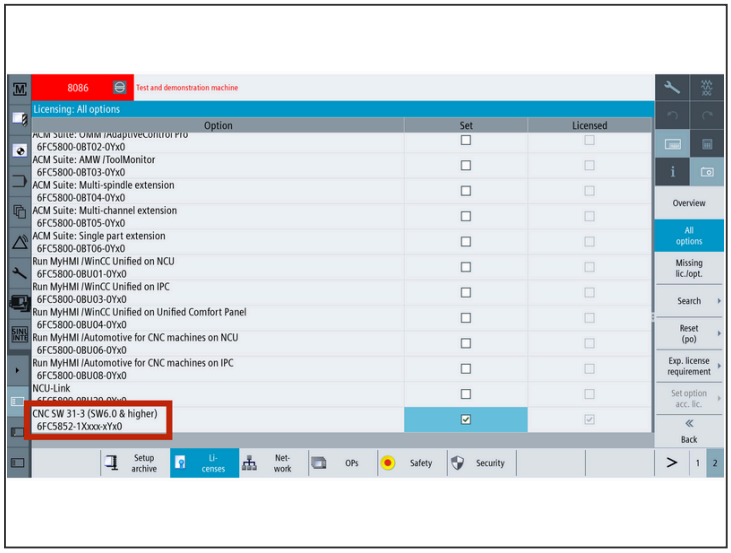



After Expert Deployment, you must confirm that parameters **14512[26]**, **[27]**, and **[28]** match the values recorded before the upgrade. Expert Deployment does not change these parameters, but the machine archive may retain factory default values from Ping Jeng.

- Go to **[Setup]** → **[Mach. Data]** → **[General MD]** → **[Search]** → 14512 → **[Input]**.
- Check the current values for **14512[26]**, **14512[27]**, **14512[28]**.
- Compare these values to the ones you recorded before the upgrade. If the values do not match:
  - If automation is **enabled**, restore the original recorded values.
  - If automation is **disabled**, set all three parameters to 0H.
- Press **[Reset (po)]** if you changed any values.

## Step 12 — Check CNC Software After Upgrade



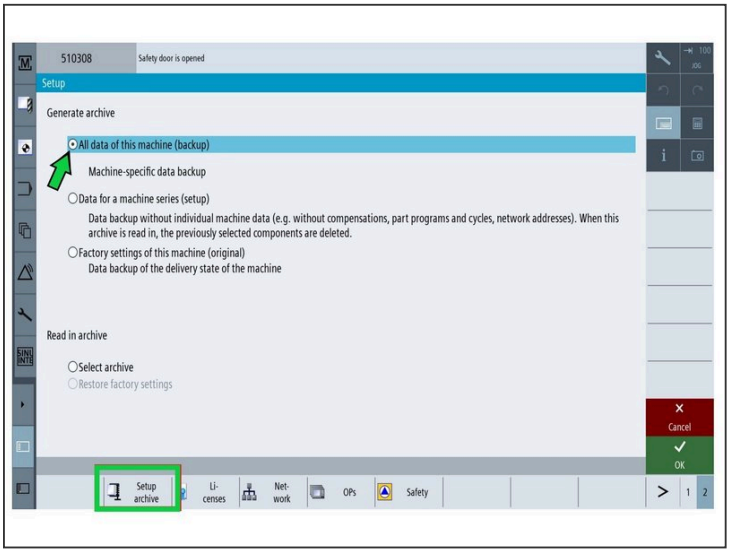

- Set the Manufacturer Password.
- Go to **[Setup]** → **[Page 2]** → **[Licenses]** → **[All options]**. Press **[Search]** and enter **6FC5852**.
- Find **CNC SW 31-3 (SW6.0 & higher)**. Read the part number and check the **Set** and **Licensed** columns:
  - 6FC5852-**1Y**xxx-xYx0, Set and Licensed both checked: **Export** SD card (6FC5852-1YG15-2YA0) with Export CNC software.
  - 6FC5852-**1X**xxx-xYx0, Set and Licensed both checked: **Standard** SD card (6FC5852-1XG15-2YA0) with Standard CNC software.

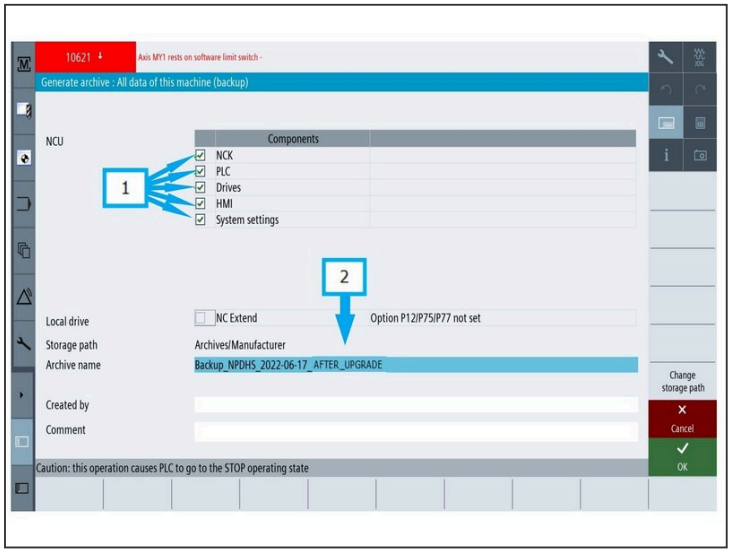
⚠ If **Set** is checked but **Licensed** is not, the CNC software does not match the SD card after the upgrade. Contact TRAK Tech Support.

ⓘ If the **CNC SW 31-3 (SW6.0 & higher)** line is not listed, stop and contact TRAK Tech Support.

- Take a screenshot of this screen and name it **CNC_SW_After_Upgrade**: How to Export a Screenshot. Keep it with the archives; it is uploaded in Step 15.

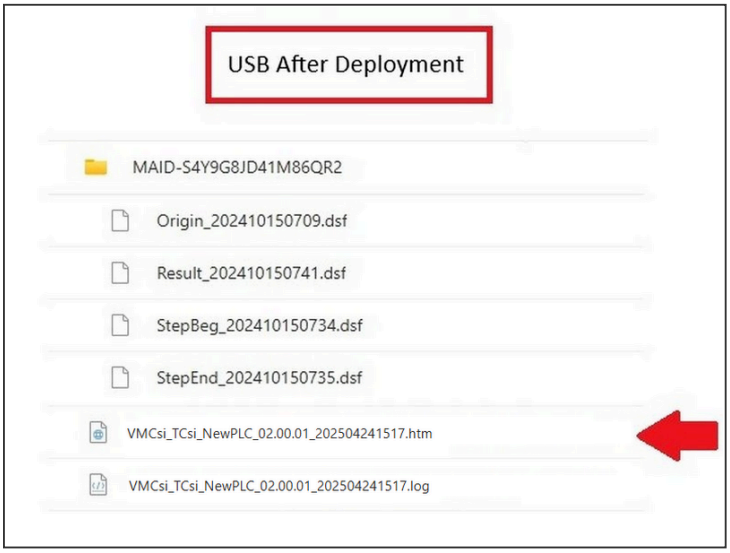
## Step 13 — Archive New System

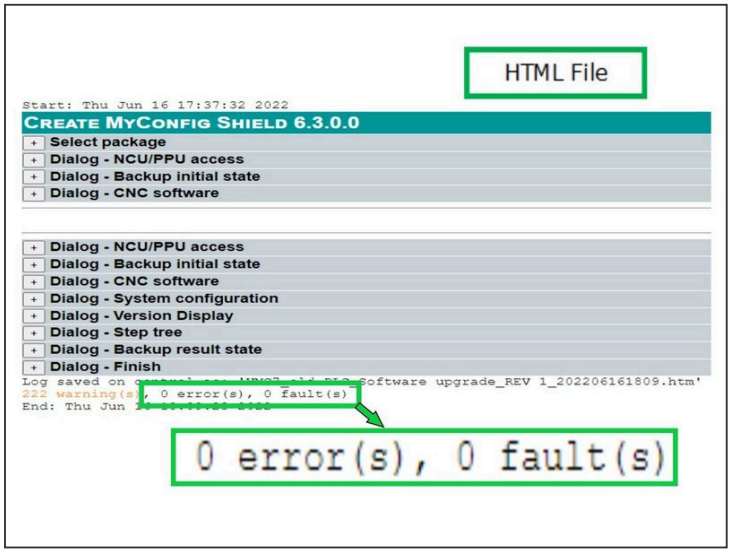



- Go to **[Setup]** → **[Page 2]** → **[Setup Archive]** → **[All data of this machine]**.
- **(1)** Make sure all five components are selected with a check box.
- **(2)** Select the **[Archive name]** data field. Name the file: Backup_NPDHS-YYYY-MM-DD_**AFTER_UPGRADE**. Press **[OK]**.

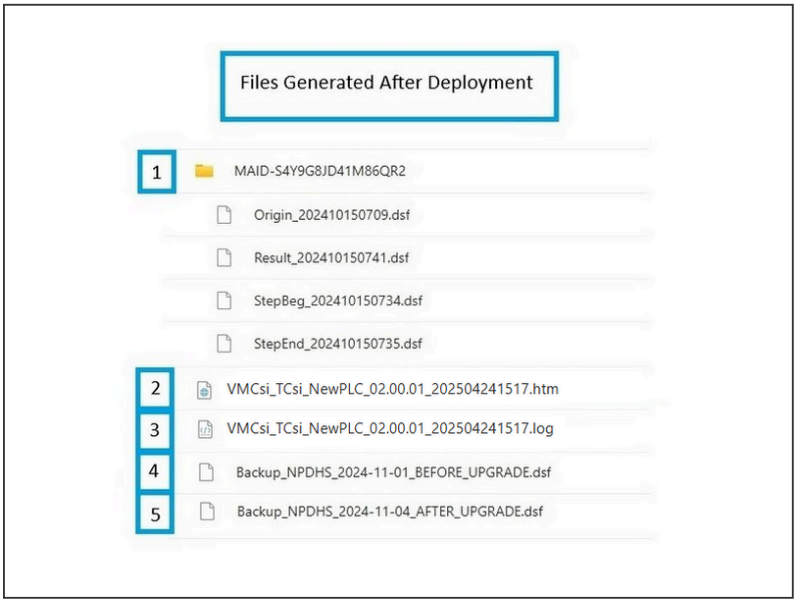
## Step 14 — Check HTML File




- After deployment, the contents of the USB are displayed here, with the HTML file highlighted.
- Open the **HTML file** listed on the USB either on the Siemens control or by opening it in a browser on a computer.
- It is important to look towards the bottom of the file checking for the **[errors]** and **[faults]** fields. They should be **[0]** otherwise report to **engineering**.

## Step 15 — Save Deployment Records to SharePoint




- When the machine leaves the factory, the directory will be created in the machine config folder; FST's loading files only need to locate it by serial number.
  - VMCs Configs
  - Create a new directory within the correct machine folder named ExpertDeployment_Date
  - ⓘ Replace Date with the deployment date (e.g., ExpertDeployment_31NOV24).
- Copy to the new folder: **(1)** complete MAID directory (four files), **(2)** HTML file, **(3)** text document, **(4)** archive from Step 8, **(5)** archive from Step 13.
- Also copy the two screenshots: **(6)** CNC_SW_Before_Upgrade from Step 2 and **(7)** CNC_SW_After_Upgrade from Step 12.

⚠ Please load **all seven** items to the directory.

⚠ If you cannot find the machine's folder or cannot upload the files, **please contact TRAK Tech Support**. Do not skip this step: TRAK needs these files on record for every upgrade, and Tech Support will upload them for you.