

Perform software update Agile Production Simulation 24V (APS, art. no. 569289)

This document describes how to carry out a software update for the "Agile Production Simulation 24V" (item no. 569289). Please note that it may not always be necessary to update all components. Which components are affected by the update depends on the update.

APS software versions and release notes can be viewed under the following link:

www.fischertechnik.de/agile-production-simulation/update-blog

As the software is distributed across various components in APS, the components affected by the update must be updated manually. A special software tool is required for the respective controller to update the software. This tool must be installed.

The programs can be downloaded from GitHub:

https://github.com/fischertechnik/Agile-Production-Simulation-24V

| Controller | Numb er in APS | Software tool | Required components |
|---|----------------------|---|---|
| Central Control Unit (CCU), Raspberry Pi 4B | 1 | USBImager (recommended from https://bztsrc.gitlab.io/usbimager/, Windows, MacOS and Linux) | Computer microSD card (32 GB or larger) microSD card reader/writer |
| PLC Siemens SIMATIC S7-1200 | 5 | Siemens TIA Portal (Windows) | Computer |
| TXT 4.0 Controller | 4 | fischertechnik ROBO Pro Coding App (Windows, MacOS, Linux, IOS, Android) | Computer or tablet |

The following tools are required to update the respective controllers:

Please follow the instructions in the respective chapters step by step. If you have any questions, please contact fischertechnik-technik@fischer.de.

Software update central control unit (CCU)

The microSD card in the Raspberry Pi 4B must be reflashed for the update process. You can either use your own or the existing microSD card with at least 32GB or more. If the existing microSD card is to be overwritten, first remove it as described at the end of the chapter.

Please carry out the following steps on a computer:

1. Download USBImager:

Visit the official USBImager website at https://bztsrc.gitlab.io/usbimager/

Download the version of USBImager that is compatible with your operating system (Windows, macOS or Linux).

2. Install USBImager:

USBImager is normally provided as a portable application, i.e. no installation is required. Simply extract the downloaded archive and run the executable file.

3. Prepare your microSD card:

Insert the microSD card into your computer using a card reader.

Make sure that you back up all important data on the microSD card, as all existing data on the card will be deleted during this process.

4. Start USBImager:

Open the USBImager application that you have downloaded and extracted.

5. Select the Raspberry Pi image file:

Click on the "Browse" button to open a file dialog.

Navigate to the location of your Raspberry Pi image file and select it.

The current image can be downloaded from GitHub:

https://github.com/fischertechnik/Agile-Production-Simulation-24V?tab=readmeov-file#raspberry-pi-image

6. Select the target drive:

In this step, select your microSD card from the list of available drives.

Make sure that you have selected the correct drive, as selecting the wrong drive could result in data being deleted on another device.

7. Write the image:

Click on the "Write" button to write the Raspberry Pi image to the microSD card.

Wait until the process is complete. This may take a few minutes, depending on the size of the image and the speed of your microSD card.

8. Safely eject the microSD card

As soon as the write process is complete, close USBImager.

Safely eject the microSD card from your computer.

9. Insert the microSD card into your Raspberry Pi

Remove the microSD card from the card reader and insert it into the microSD card slot of your Raspberry Pi.

At the end of the chapter, it is shown how the microSD card can be reinstalled in the central control unit.

10. Switch on your Raspberry Pi

Connect the power supply unit in the APS.

Your Raspberry Pi should boot from the microSD card that you have just prepared.

The microSD card can be installed and removed as follows:



Please note that after reloading the microSD card, all settings in the APS dashboard <u>http://192.168.0.100/</u> will be reset. If you have made changes under "**Configuration**", these must be carried out again.



To do this, you can restore the standard layout in the APS as follows:



The layout in the dashboard should then look like this:



Please reset the APS afterwards:



After starting the dashboard for the first time, it may be necessary to delete the unrecognized modules from the module view:

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|--|--------------------------|----------------------|---------------|--------|-----------|-----------|----------------------|--------|--|
| Agile Pro | duction Simulation (APS) | | | | | | | | |
| Übersic | ht Aufträge | Abläufe | Konfiguration | Module | Planspiel | Meldungen | DE 🕶 | | |
| Moduleüb | ersicht | | | | | | | | |
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At the end, all modules should be available:

| A | gile Pro | duction Simulation (APS) | | | | | | | | |
|---|------------|--------------------------|----------------|----------------|--------|-----------|-----------|----------------------|-----------------------|--|
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Finally, please restart the APS and check the version of the central control unit via the Info button.

PLC software update

The Siemens SIMATIC S7-1200 PLC controllers are updated with the TIA Portal software. If TIA Portal is not yet installed, please install this software first.

The PLC programs can be downloaded from GitHub via the following link: <u>https:</u>//github.com/fischertechnik/Agile-Production-Simulation-24V/tree/main/PLC-programs/S7_1200_TIAv18

To update the PLC software, start the TIA Portal and connect to the respective PLC that is to be updated.

Open the project file for the respective module in the Siemens TIA Portal:

| | | | Totally Integrated Automation PORTAL |
|----------------------|---|--|---|
| Start 🦓 | | First steps | |
| Devices & | Open existing project Create new project | Project: "drill" was opened successfully. Please select the next step: | |
| PLC programming | Migrate project Close project | | |
| technology | | Devices & Configure a device | |
| Online & Diagnostics | Welcome Tour | PLC programming Write PLC program | |
| | 🧼 First steps | Motion & Configure technology dbjects | |
| | | Visualization Configure an HMI screen | |
| | Installed software Help | | |
| | 🚱 User interface language | Project view Open the project view | |

Select the PLC program and connect to the PLC:

| Project Edit View Insert Online Options Tools | Window Help | | | Totally Integrated Automatio | n |
|---|---|--|--------------------------|---|----------|
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| ▼ 🖪 drill | | | | Find and replace | |
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| S Devices Controls | | | | | - 5 |
| DRILL [CPU 1215C DC/DC/DC] | | | | Whole words only | rari |
| | | | | Match case | es |
| Cross device functions | | | | Eind in substructures | - |
| Common data | | | | Find in substructures | 3 |
| Documentation settings | | | | | dd |
| Languages & resources | | | | Use wildcards | sul- |
| ▶ 🔀 Version control interface | | | | Use regular expressions | |
| Good Booded/USB manager | | | | Down | |
| Card Readenoss memory | | | | Oup | |
| | | | | Find | |
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| | | | | Whole document | |
| | | | | O From current position | |
| | | | | O Selection | |
| | | Properties | s 🛐 Info 🚺 🙆 Diagnostics | Replace Replace | |
| Device | e information Connection information | Alarm display | | | |
| ✓ Details view All details view | evices offline | | | Languages & resources | |
| Module Y Onlin | To Opera Device/module Connection estab | lis Message Details | Help | Editing language: | ^ |
| | | | | v | |
| Name | | | | | - |
| Device configuration | | | | Reference language: | |
| 😨 Online & diagnostics 📃 | | | | | |
| Program blocks | | | | | |
| Technology objects | | | | | ~ |
| External source files | | | | < | > |

To do this, you must select the network and search for devices:

| Go online | | | | | | × |
|---------------------------|-----------------------|------------------------|----------|---------------------|---------------------|---|
| | Configured access nod | es of "DRILL" | | | | |
| | Device | Device type | Slot | Interface type | Address | Subnet |
| | DRILL | CPU 1215C DC/D | 1 X1 | PN/IE | 192.168.0.50 | |
| | | | | | | |
| | | | | | | |
| | | | _ | | | |
| | ٦ | Type of the PG/PC inte | rface: | PN/IE | | - |
| | | PG/PC inte | rface: | 💹 Intel(R) Wi-Fi 6 | AX201 160MHz | Image: Contract of the second seco |
| | Conne | ection to interface/su | ibnet: | Direct at slot '1 > | (1' | ▼ 💎 |
| | | 1st gat | eway: | | | - 💎 |
| | | | | | | |
| | Select target device: | | | [| Show devices with t | he same addresses 💌 |
| | Device | Device type | Interfac | e type Add | lress | Target device |
| | - | - | PN/IE | Ent | er address here | - |
| P | | | | | | |
| 85 | | | | | | |
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| Flash LED | | | | | | |
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| | | | | | | <u>Start search</u> |
| O all'an anna istanadian | | | | - | | |
| Online status information | | | | Ŀ | Display only error | messages |
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If the appropriate PLC has been found in the network, a connection can be established with the PLC using "GoOnline":

| | Device | Device type | Slot | Interface type | Address | Subnet |
|--------------|--|---|------------------------------|---------------------------|--|----------------------------------|
| | DRILL | CPU 1215C DC/D | 1 X1 | PN/IE | 192.168.0.50 | |
| | | | | | | |
| | | Type of the PG/PC inte | rface: | PN/IE | | |
| | PG/PC interface: 📓 Intel(R) Wi-Fi 6 AX201 160MHz | | | | | |
| | | Connection to interface/su | ibnet: [| Direct at slot '1) | | - 💎 🐨 |
| | | 1st gat | eway: [| | | |
| | Device | Device type | Interfac | e type Add | ress | Target device |
| | Device | CPU 1215C DC/D. | Interfac . PN/IE | te type Add | ress .168.0.50 | Target device DRILL |
| a | DRILL — | CPU 1215C DC/D | Interfac . PN/IE PN/IE | e type Add 192 Ent | ress 2.168.0.50 er address here | Target device DRILL |
| | Device DRILL | CPU 1215C DC/D | Interfac . PN/IE PN/IE | te type Add 192 Ent | iress 2.168.0.50 er address here | Target device DRILL - |
| st Flash LED | DRILL - | Device type CPU 1215C DC/D | Interfac PN/IE PN/IE | etype Add 191 Ent | Iress 168.0.50 er address here | Target device DRILL |
| ar Flash LED | DRILL | Device type CPU 1215C DC/D — | PN/IE PN/IE PN/IE | e type Add 192 Ent | Iress 168.0.50 er address here | Target device DRILL Start search |
| Flash LED | DRILL - | Device type CPU 1215C DC/D | Interfac PN/IE PN/IE | e type Add 192 Ent | Iress 168.0.50 er address here Display only error | Target device DRILL |
| Flash LED | Device DRILL | Device type CPU 1215C DC/D es of 1 accessible devices for | Interfac PN/IE PN/IE | re type Add 192 Ent | Iress 168.0.50 er address here | Target device DRILL |
| Flash LED | ion: 1 compatible device information | Device type CPU 1215C DC/D. es of 1 accessible devices for | Interfac | :e type Add 192 Ent | Iress 2.168.0.50 er address here Display only error | Target device DRILL |
| Flash LED | tion: 1 compatible device information tion retrieval completion | Device type CPU 1215C DC/D. es of 1 accessible devices fou eted. | Interfac | re type Add 192 Ent | Iress 2.168.0.50 er address here Display only error | Target device DRILL |

If the installed PLC program differs from the PLC program opened in the TIA Portal, you will see an orange exclamation mark. You should then carry out an update.

If there is no exclamation mark and the status is highlighted in green, the program is correct and it is not necessary to load the PLC program onto the PLC.

To be able to load the open PLC program onto the PLC, first disconnect the TIA Portal from the PLC again by clicking "Go offline".

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| Project Edit View Insert Online Options Tools Window Help | Totally Integrated Automation |
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| Project tree | Tasks 🖬 🗈 🕨 |
| Devices | Options |
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| | ✓ Find and replace |
| T Add new device | Find: |
| E Devices & networks | |
| DRILL [CPU 1215C DC/DC/DC] 2 0 | |
| Example devices | Whole words only |
| ► 🛱 Security settings | Match case |
| X Cross-device functions | Find in substructures |
| Common data | Find in hidden texts |
| In Documentation settings | Use wildcards |
| Languages & resources | Use regular expressions |
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| The Unite Baddell'SE memory | Down |
| | Oup |
| | Find |
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| | Replace with: |
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| Device information Connection information Alarm display | Replace Replace all |
| No devices with problems | ✓ Languages & resources |
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| Name | |
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| V. Online & diagnostics | |
| 🙀 Program blocks | |
| 🙀 Technology objects | ~ |
| External source files | < III > |

Continue by clicking "Download to device" and then confirm the dialog.





| Project Edit View Insert Online O | ptions Tools Window | Help | | | | | Totally | / Integrated Auto | omation |
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| - Frank | | | | | | | × | Find and replace | e |
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| Add new device Add new device | Softwar | e synchronization before loadin | g to a device | | | × | F | ina: | |
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| Security settings | ! So | oftware synchronization | Status | Action | | | Loona con E | Match case | |
| Cross-device functions | <u>A</u> • | DRILL | | | | | | Find in substructu | ires |
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| Documentation settings | 4 | Main [OB1] | • | Manual synchronization required | | | | Ji ind in fildden tex | |
| Languages & resources | <u> </u> | LOOP_DB [DB2] | • | Manual synchronization required | | | | Use wildcards | |
| Version control interface | | | | | | | | Use regular expres | ssions |
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| Card Reader/USB memory | | | | | | | | Down | |
| | | | | | | | |) Up | |
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| | × × | Company ansa | ea (enois: 0, warnings: | , | | 10.45.15 AM | ~ < | | > |

The PLC program can then be transferred to the PLC by clicking on "Load" and "Finish":

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| Devices | | | | | | | | Options |
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| | | | | | | | | ✓ Find and replace |
| • 🔄 drill | | | | | | | | |
| Add new device | | Load pr | eview | | | | × | Find: |
| Devices & networks | | 0 | | | | | | |
| DRILL [CPU 1215C DC/DC/DC] | | 9 | sheck be | tore loading | | | | Whole words only |
| Ungrouped devices | | Centur | | aroat | Marrana | Artion | | Match case |
| Security settings | | J | | | Peady for loading | Load 'DBILL' | | |
| Common data | | | a. | Crock | in any in reading. | LUBU DALL | | |
| Documentation settings | | | 0 | Online is up-to-da | The hardware configuration will not be loaded, because the onli | n. | | Find in hidden texts |
| languages & resources | | | - | | | 1073 | | Use wildcards |
| Version control interface | | | 0 | Software | Download software to device | Consistent downloa | d Distance of the | Use regular expressions |
| Online access | | | - | | | | | |
| Card Reader/USB memory | | | | OPC UA server | The OPC UA server will be restarted due to data changes. | Restart the OPC UA | and the second second | (e) Down |
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| Details view | | | | | Finish | Load Canc | 21 | Languages & resource |
| Madula | _ | - | | | | | <u>i</u> | Editing language |
| Module | I Path | h | | Description | Go to ? | Errors Warnings | Time | cutting tenguege. |
| | 0 | · Program | h blocks | | 7 | 0 0 | 10:43:11 AM | A |
| Name | 0 | Main | (OB1) | Block was su | ccessfully compiled. | | 10:43:11 AM | |
| Device configuration | ^ 📀 | LOO | P_DB (D | Block was su | iccessfully compiled. 🥕 | | 10:43:11 AM | Reference language: |
| Online & diagnostics | = 📀 | · OPC UA | commu | nication | 7 | 0 0 | 10:43:13 AM | |
| Program blocks | 0 | ▼ Serv | er interf | aces | 7 | 0 0 | 10:43:13 AM | |
| Technology objects | 0 | D | RILL | | 7 | | 10:43:13 AM | |
| C. Annual and the first | | | | Compiling for | hished (errors: 0: warnings: 0) | | 10:43:13 AM | |





Finally, check that the PLC program has been correctly transferred to the PLC. To do this, click "Go Online" again. If the program matches the project, you should see a green status symbol next to the project.



Repeat the steps for the other PLC programs.

Software update TXT 4.0 Controller

TXT 4.0 controller firmware (optional)

The firmware of the TXT 4.0 controller can optionally be updated if a newer firmware version is available. Please follow the installation steps as described in the instructions for the TXT 4.0 controller, see https://www.fischertechnik.de/txt40controller.

CAUTION: DO NOT interrupt the power supply during the update process, otherwise the TXT 4.0 controller could be damaged.

TXT 4.0 Controller APS programs

The programs for the TXT 4.0 controllers can be downloaded from GitHub via the following link: <u>https:</u>//github.com/fischertechnik/Agile-Production-Simulation-24V/tree/main/TXT4.0-programs

The ROBO Pro Coding app from fischertechnik is required to install the APS programs. The project files for ROBO Pro Coding have the file extension *. ft.

The latest version of the APS program can also be opened directly via ROBO Pro Coding as an alternative to GitHub. This requires an internet connection on the device on which ROBO Pro Coding is running.

Import the program as follows:





ROBO Pro Coding ٥ × ≡ fischertechnik 📼 ROBO Pro Coding Preferences > Settings Project > New > Import > Recently used projects View > New window Help > Documentation > Privacy policy > Imprint Version: 6.2.3





Import a project from fischertechnik GitLab

| Personal Access | Token | | | | _ | | | | | | |
|--|--|--|---|-------------------------------------|--------|---|---|---|---|--|---|
| To see private rep 1. Log in to fisch 2. In the upper-ri 3. On the User St 4. Choose a nam 5. Choose the de 6. Click the Creat 7. Save the personable to access | ositories you need a <u>ertechnik GitLab</u> , ght corner, click you ttings menu, select te and optional expi sisred scopes. te personal access onal access token s i t again. | a Personal Access Toker ur avatar and select Setti t Access Tokens. ry date for the token. token button. omewhere safe. Once yc | n with access right fo ings. pu leave or refresh th | or the API. Ie page, you won't b | De | | | | | | |
| CANCEL | | | | PREVIOUS | NEXT | | | | | | |
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| Agile Produc | tion Simulation 24V | / / fts_main | | | | | | | | | |
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| Agile Produc | tion Simulation 24V | / / FF_DPS_24V | | | | | | | | | |
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| Agile Produc | tion Simulation 24V | //FF_DPS_24V | | | | | | | | | |
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| Agile Produc | ROBO Pro Co Main Program × Search Q Actuators • Output Motor Sound • Display Sensors • Input Coansole Console | //FF_DPS_24V | | | | | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 17 18 19 20 21 22 23 | Import math Import on Import threading Import threading Import threading Import threading Import threading Import threading Import the International Import Import Import Import Import Import Import Import Import Import Import Import | brolles Adotor in Multilent in mapor 1 * * * * * * * * * * * * * * * * * * * | - Q sport Motor port MetrClent | × |



If the program has been loaded in ROBO Pro Coding, it can be transferred to the TXT 4.0 controller when a connection is established with the respective TXT 4.0 controller.



Please enter the IP address of the TXT 4.0 controller and read the API key on the TXT 4.0 controller and enter it accordingly in the dialog.

| Connect controller | 0 |
|--------------------|---------|
| 192.168.0.103 | ~ |
| UFJnHH | |
| | |
| CANCEL | CONNECT |

Finally, the program can be transferred to the TXT 4.0 controller using the following symbol:

