

Controller Firmware (FW) Update Operation Manual



This function updates the controller firmware (FW) from the SMART CONSTRUCTION Pilot app.

Previously, updating the controller FW required a dedicated app (“SMART CONSTRUCTION Pilot UPD”), but this function lets you update it directly from the Pilot app.

There are two ways to update the FW:

- Automatic update: When the app starts, it checks the FW version and updates it automatically.
- Manual update: You can update it from the System Configuration > Controller Firmware Update screen.

Note

- While the FW is updating, do not close the app, turn the machine's key switch OFF (which powers off the controller), or disconnect the communication link.
- This function requires an internet connection. FW files are downloaded from the server.
- If a FW update fails, the automatic update runs again the next time the app starts.
- If updates repeatedly fail, check the network and controller connection. If the problem persists, contact us via the support site.

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Chapter

How to Use the Controller FW Update Function

1.1 Preparation and Requirements

Before using this function, please check the following:

- SMART CONSTRUCTION Pilot app, v1.0.14 or later.
- Network connection (online): FW files are downloaded from the server.
- The tablet is connected to the machine's controller.
- This function works even if the dedicated app “SMART CONSTRUCTION Pilot UPD” is not installed.

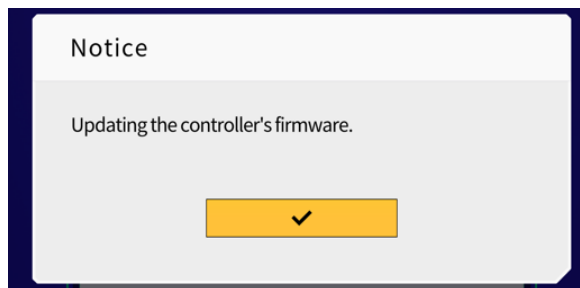
Note

If the controller is located in an offline environment, you can still update automatically by downloading the latest FW file to the tablet in advance.

- Take the tablet to a location with internet access and connect it to the internet.
- When you start the SMART CONSTRUCTION Pilot app, the latest FW file is downloaded automatically. The tablet does not need to be connected to the controller at this stage.
- Return the tablet to the controller's location and connect it to the controller. The update will then start automatically.

1.2 Automatic FW Update Flow

1. Start the Pilot app on the tablet.
2. When the app connects to the controller, it automatically checks whether the controller's FW is up to date.
3. If it is not up to date, the update starts automatically.
4. When the update starts, a confirmation screen is displayed. Follow the on-screen instructions and wait until the update is complete.



5. After the update, check the updated FW version in System Configuration > Controller Info.

Note

While the FW is updating, do not close the app, turn the machine's key switch OFF (which powers off the controller), or disconnect the communication link.

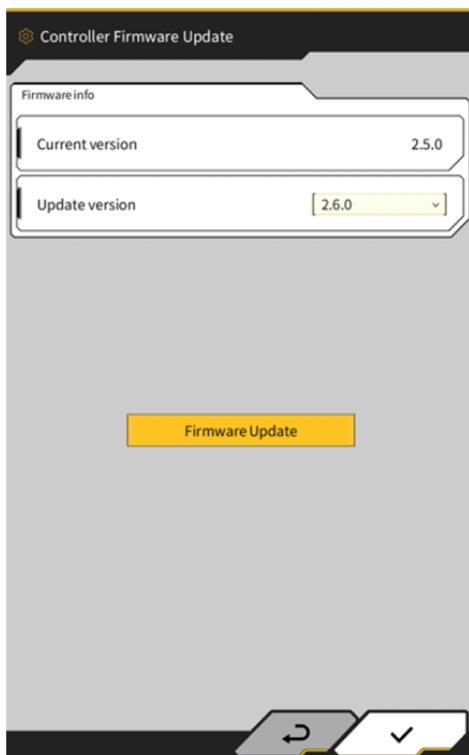
When the controller is not connected, the automatic update is not performed. If the controller was not connected at startup, connect the controller and then restart the app.

If the controller is located in an offline environment, see “1.1 Preparation and Requirements.”

1.3 Manual FW Update

If you want to update at any time, you can perform a manual update through on-screen operation.

1. Open System Configuration > Controller Firmware Update.
2. Check “Current version” and “Update version.” For the update version, you can choose from the latest version and the one before it.
3. Tap the “Firmware Update” button. (When the controller is not connected, the button is grayed out and cannot be tapped.)
4. After the update, check the updated FW version in System Configuration > Controller Info.



Note

When the controller is not connected, the current version is shown as “—” (a hyphen).

When there is no FW file on the tablet, the update version is shown as “—” (a hyphen).

Contact Information



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