

Recipients :	Stoneridge Network
Release date :	04 September, 2025
Update Purpose :	Supersedes SIL24_006E
Object :	SE5000 Smart 2 Field-flash for in-service units

As per Annex 1C requirement (429), Smart 2 tachographs can be upgraded after production, via a procedure validated by the Type-Approval authority of the tachograph: the Swedish Transport Authority (STA) for the SE5000 Smart 2.

This new SIL is approved under STA Approval reference TSV 2025-9211 dated September 2nd, 2025.

SE5000 Smart 2 Field-flash for in-service units

During workshop inspection, technicians must verify the Software and Maps version on the tachograph Technical Data printout. If an upgrade is required, the Optimo must be used to field flash the tachograph.

A tachograph update may also be requested by Fleets or drivers outside of the bi-yearly inspection, to benefit immediately from product improvements brought by new software or new maps released by STONERIDGE under STA Type Approval.

Overall Scope

- This procedure covers in-service tachographs, previously activated
- For tachographs with SWID2424 or up, this procedure will last 36 minutes for each tachograph but only requires the workshop tool being used for 18 minutes at the start of the procedure, and 2 minutes at the end of the procedure. Tachographs with SWID 1214 or 1619 will require 65 minutes total.
- This procedure **does not require a calibration**

Technical pre-requisites for the workshop tool

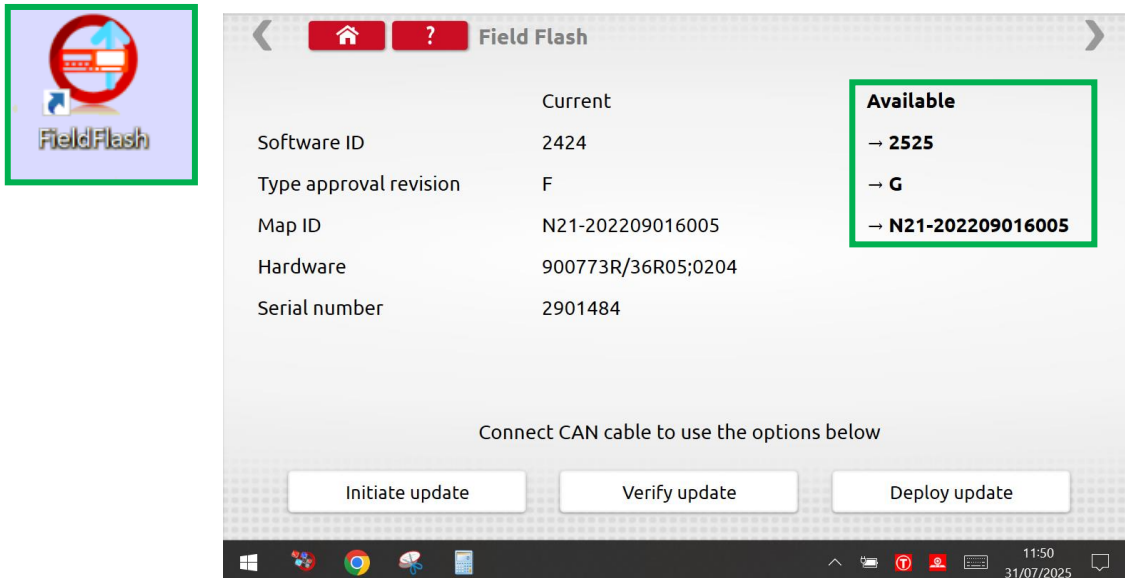
- Optimo yearly Upgrade Package is paid for
- Optimo is running software version 7.9 or higher
- Optimo is connected to internet and registered to the STONERIDGE cloud

Set-up

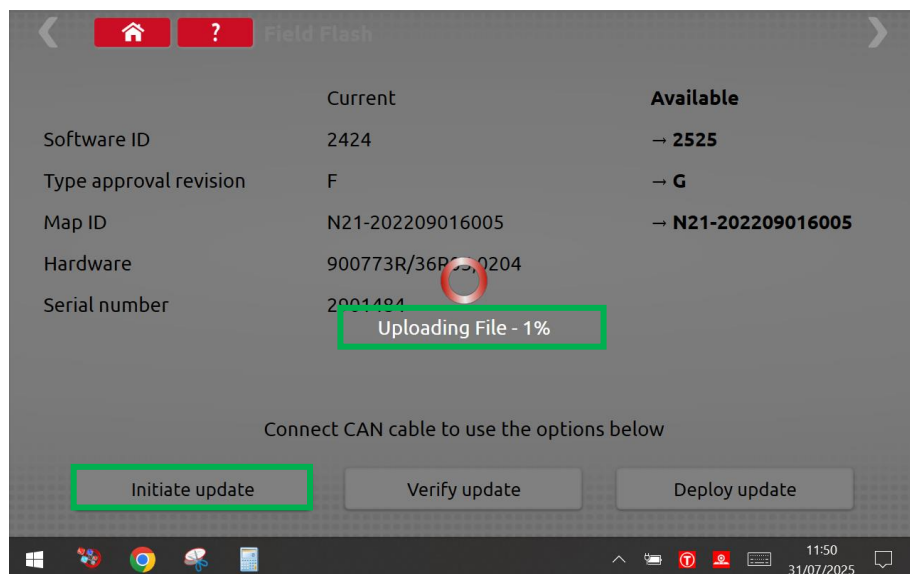
- VU is installed in the truck
- VU is already activated
- Connect the Optimo to the VU CANBus C-connector:
 - Use Optimo cable 801833
 - Fit CAN Terminator 802016 into the red-receptacle end of the cable
- For tachographs with **SWID 1214 or 1619 only**, insert Workshop Card in slot 1
- Turn **ignition OFF** for the duration of the procedure

Procedure

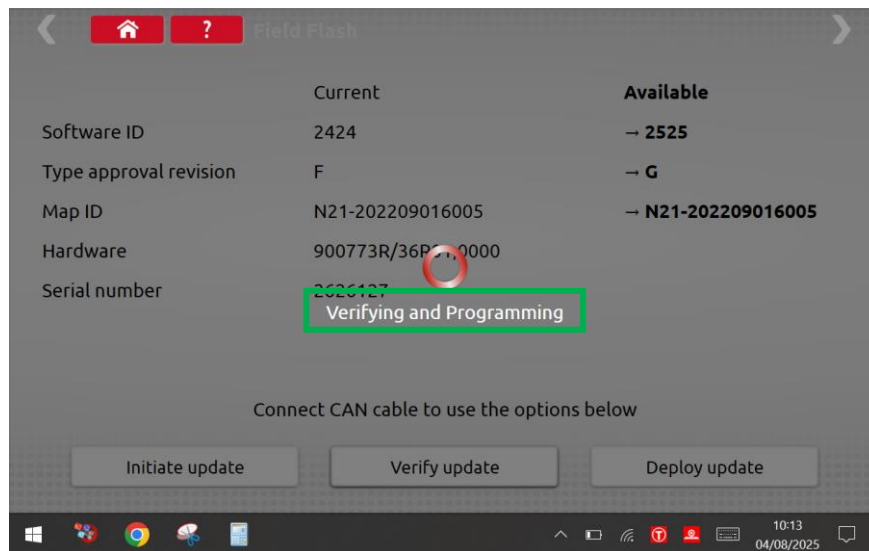
1. Take a first *Technical data* and *Fault & Events* printout.
2. On Optimo desktop, press the *Field Flash* icon, this will open the application main screen and it will check for Updates automatically:



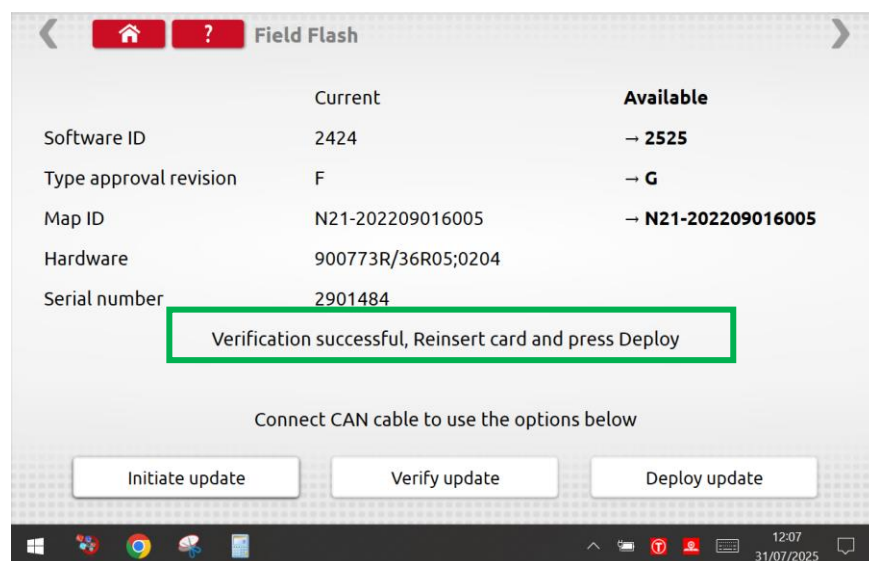
- a. Note: update to a new SWID is possible from any tachographs running a lower SWID, but **for tachographs running SWID 1214 & 1619 it is mandatory to first insert Workshop Card in slot 1.**
3. Press the **Initiate update** button
 - a. Optimo will transfer the update package from the Stoneridge Cloud. Do not disconnect the Optimo from Tachograph CAN interface for 18 minutes. The message "Uploading file – XX%" will show progress.



- At the end of the transfer, Optimo commands the VU to verify the file. Optimo will display the message “Verifying and Programming”. This verification phase will last 18 minutes for updates from SWID 2424 to 2525 or up, during which you can press the HOME button once and disconnect Optimo to attend to another tachograph or truck.



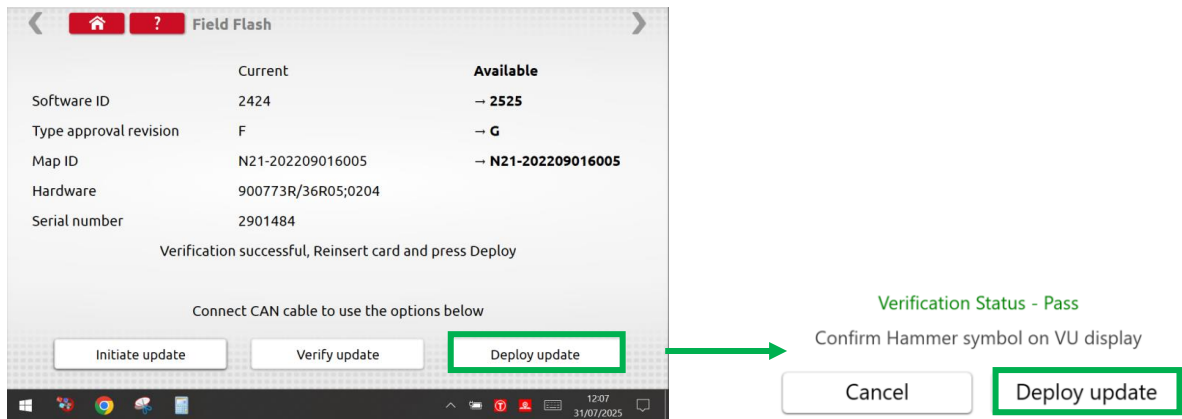
- At the end of the verification process the Optimo will refresh the display and return the message “Verification successful, reinsert card and press Deploy” :



- Insert Workshop Card and PIN code, then verify the VU is in Calibration mode.

7. Press the **Deploy update** button.

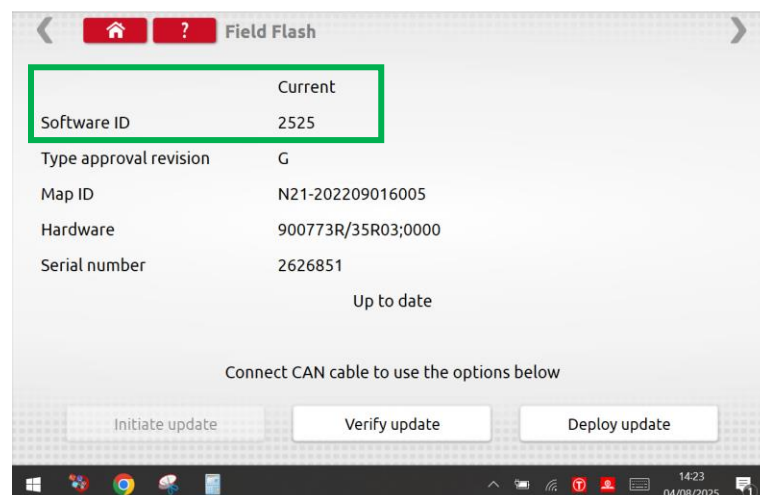
- a. **WARNING:** The workshop card **MUST** be inserted in slot 1. Verify the Hammer symbol is displayed on the VU display to confirm the unit is in Calibration Mode.
- b. The message “Illegal mode of operation, please contact Stoneridge Workshop Support” indicates the tachograph was not in calibration mode when “Deploy Update” was confirmed, and procedure would need to be **restarted from Step 1**.



- c. The Tachograph show a progress bar indicating the VU is updating and then reboots before displaying a message “Update complete”. If initial SWID is 1214 or 1619, the “Updating VU” message will not show, this is normal.



- d. In parallel the Optimo will refresh the presentation page with the new SWID 2525. This will take about 20 seconds. Wait for the Optimo screen to refresh before you proceed further.

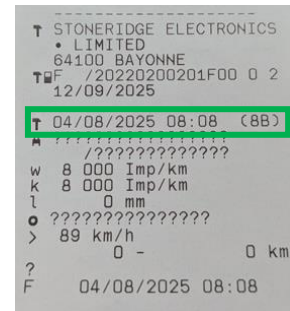
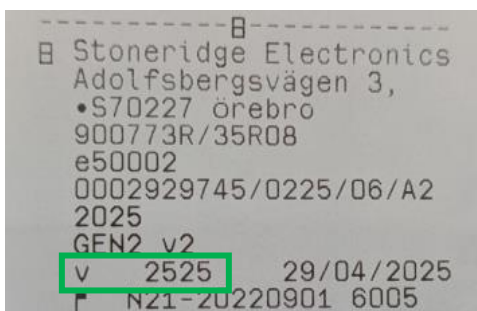


- e. Press the Tachograph OK button to trigger the Tachograph final reboot. This will last 90 seconds.

8. The tachograph is now up to date.

- a. Eject Workshop Card.

9. Take a second *Technical data* and *Fault & Events* printout.
10. Issue to the end-user and keep a copy of a *software update* report indicating:
 - a. Time of truck entering the workshop.
 - b. Time of truck leaving the workshop.
 - c. *Technical data* and *Fault & Events* printout **at start of work**, taken at step 1.
 - d. *Technical data* and *Fault & Events* printout **at end of work**, taken at step 9.



Technical Data printout with SWID and Deployment Start (8A) & End blocks (8B)

Note 1: the Odometer may be rounded up when block (8B) is created. So, a difference of +1 km in block (8B) must be considered as normal. Also, block 8A odometer may reflect an older value, which can be ignored, if 8B odometer is correct.

Note 2: the GNSS Fix timestamp for block (8B) may be out of sync. You can disregard this as long as the timestamps next to block (8A) and (8B) match or are within 2 minutes from each other's.

11. Process Summary:

