

Recipients :	Stoneridge Network
Release date :	June 26 th , 2024
Update Purpose :	Improved user interface from Optimo 7.5, and requirement to use slot 1
Object :	SE5000 Smart 2 Field-flash of 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 approval is granted as a preliminary Approval, subject to further review later in 2024.

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 and 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

- a. This procedure covers in-service tachographs, previously activated
- b. This procedure will last 1h10 for each tachograph, but only requires the workshop tool being used for 15 minutes at the start of the procedure, and 2 minutes at the end of the procedure
- c. This procedure does not require a calibration

Technical pre-requisites for the workshop tool

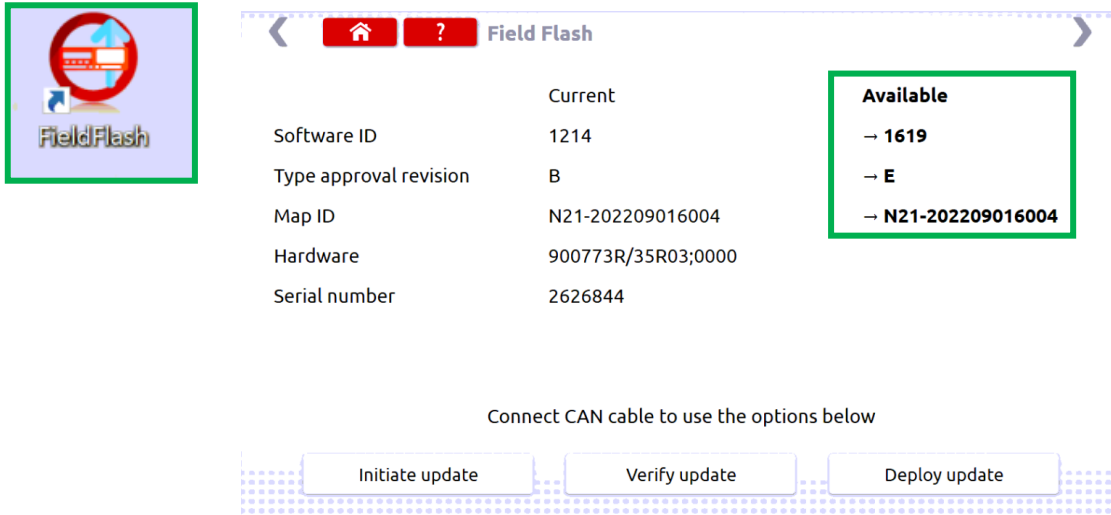
1. Optimo yearly Upgrade Package is paid for
2. Optimo is running software version 7.5 or higher
3. Optimo is connected to internet and registered to the STONERIDGE cloud

Set-up

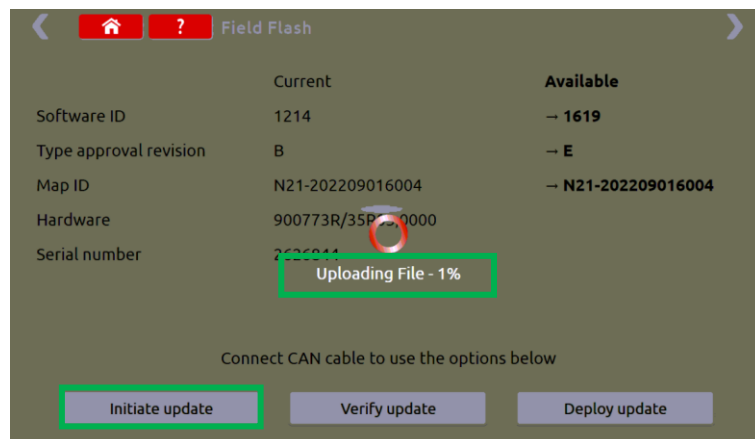
1. VU is installed in the truck
2. VU is already activated
3. For a simple check of the tachograph software versions, connect the Optimo to the VU front connector with the dongle or the cable 7780-810
4. For an actual upgrade, connect the Optimo to the VU CANBus C-connector :
 - a. Use Optimo cable 801833
 - b. Fit CAN Terminator 802016 into the red-receptacle end of the cable
 - c. Insert Workshop Card **in slot 1** before starting the procedure

Procedure

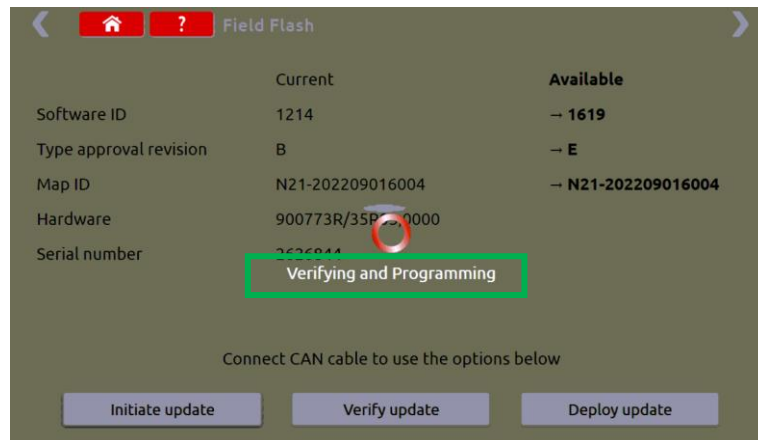
1. Take a first *Technical data* and *Fault & Events* printout
2. On Optimo desktop, press the *Field Flash* icon, this will open the application main screen and it will check for Updates automatically:



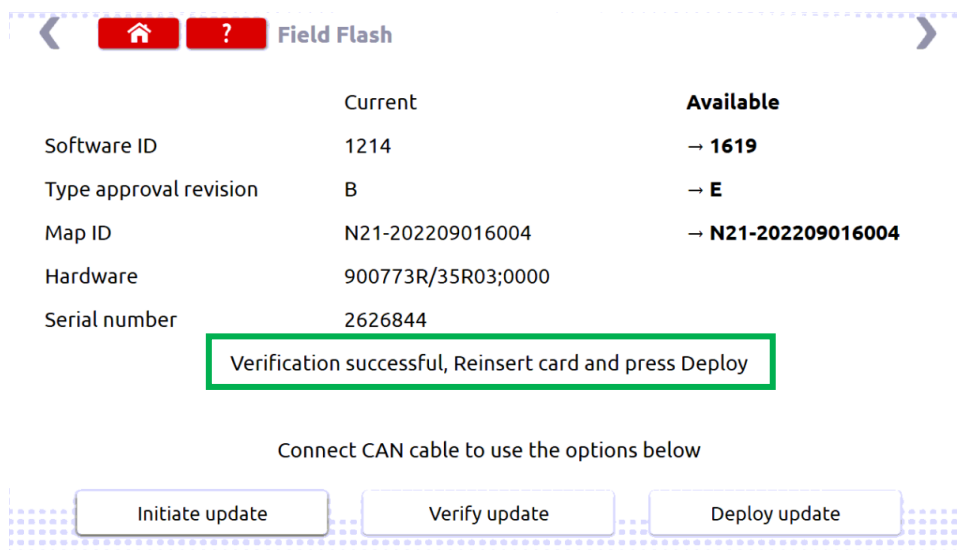
3. Press the **Initiate update** button
 - a. Optimo will transfer the update package from the Stoneridge Cloud. Do not disconnect the Optimo from Tachograph CAN interface during 15 minutes. If necessary, internet connection can be interrupted as soon as the message "Uploading file – XX%" appears



4. At the end of the transfer, Optimo commands the VU to verify the file. Optimo will display the message “Verifying and Programming”
 - a. This verification phase will last 50 minutes for SWID 1619, during which you can press the HOME button once and disconnect Optimo to attend to another tachograph or truck

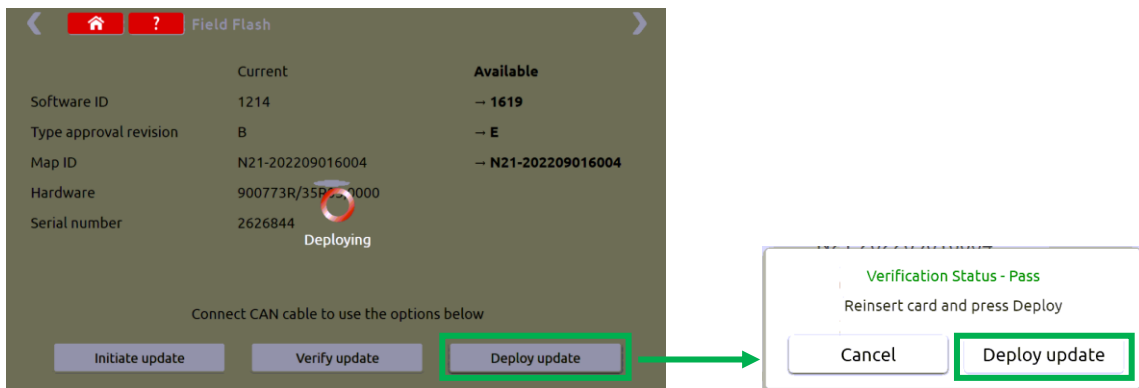


5. At the end of the verification process the Optimo will refresh the display and return the message “Verification successful, Reinsert card and press Deploy”

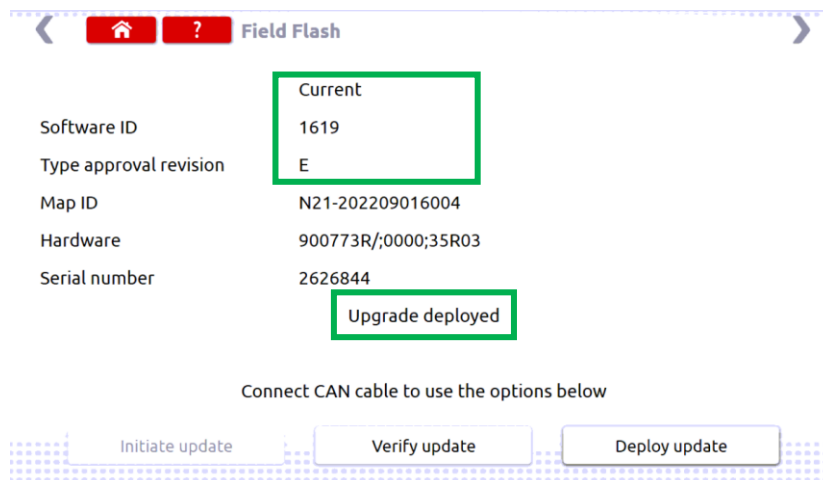


6. Press the **Deploy update** button

- a. **WARNING:** A pop-up will ask for the Workshop card to be reinserted. Eject, reinsert, and verify the Hammer symbol is displayed on the VU to confirm the unit is in Calibration Mode
- b. **WARNING:** The workshop cars **MUST** be inserted in Drawer # 1
- c. 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**



7. After 2 minutes, the Optimo will refresh the presentation page with the new Software references and the message “Upgrade deployed”



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

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▼ 10/08/2023 06:11 (UTC)
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B Stoneridge Electronics
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  900773R/3DR02
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  2023
  GEN2 v2
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  F N21=20220901-6004
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Technical Data printout with SWID, Map ID and Deployment Start / End blocks (8A) & (8B)

Note: 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.