

CAN chip and FMX150 FW update

Before updating FMX150 device to firmware 03.28.07.Rev.152 or newer and ensure new features work, **CAN chip bootloader must be patched.**

Following procedure describes FMX150 update if bootloader version is **00000300** or older. If your FMX150 devices has newer versions, patching procedure can be skipped. Instructions how to check bootloader version are in **Step 1**

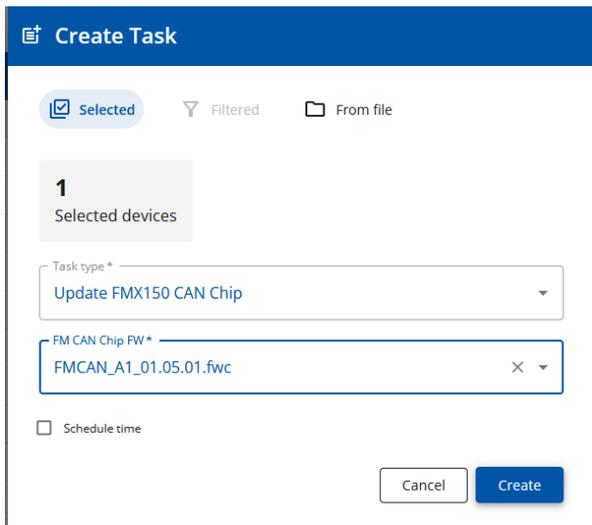
Update procedure is described in steps bellow.

Step 1.

Before updating FMX150 to firmware 03.28.07.Rev.152 or newer, CAN chip FW and Bootloader version must be checked and patched if needed. Before updating FMX150 devices check **FWVer and **BLVer** first with SMS/GPRS command **lvcangetinfo**.**

Example of response: *UniqID: XXXXYYYYYZZZZYYYYXXXX, FWVer: 00010500, BLVer: 00000300, GIT-SHA1: XXXYYZZ, Rev: 0, FW date: 2023-YY-XX, Kernel: 473, Option: 01*

If both versions are as listed above or lower, you need to apply patch via FOTA, by selecting “Update FMX150 CAN chip” job, and selecting “FMCAN_A1_01.05.01.fwc: firmware version



The screenshot shows a 'Create Task' dialog box. At the top, there are three tabs: 'Selected' (active), 'Filtered', and 'From file'. Below the tabs, there is a section labeled '1 Selected devices'. The 'Task type*' dropdown menu is set to 'Update FMX150 CAN Chip'. The 'FM CAN Chip FW*' dropdown menu is set to 'FMCAN_A1_01.05.01.fwc'. There is a checkbox for 'Schedule time' which is currently unchecked. At the bottom right, there are two buttons: 'Cancel' and 'Create'.

Please note! After patch CAN LED start shining continuously instead of blinking periodically. This indicates that the firmware has prepared the device for upgrade to new firmware versions. **Please do not disconnect power until the LED shines, otherwise the device may become damaged with no possibility to recover.**

It's recommended to check LED, but if visual check is not possible, proceed to step 2.

Step 2

Check with SMS/GPRS command **lvcangetinfo**. BLVer must be **0000400**.

Example: *UniqID: XXXXYYYYZZZZYYYYXXXX, FWVer: XXYZZZX, BLVer: 0000400, GIT-SHA1: XXXYYZZ, Rev: 0, FW date: 2023-YY-XX, Kernel: 473, Option: 01*

Step 3

After **BLVer** confirmation, you need to Update CAN chip firmware to **00_01.06.00 or newer** CAN FW version.

Update process is same as for Step 1, only difference is selected CAN FW version.

Step 4

Update FMX150 to FW version 03.28.07.Rev.152 or newer. Same as any regular FW update via FOTA.

Step 5

Upload CAN configuration for needed vehicle via FOTA.

Note: Patching procedure (Step 1) has to be done only once. After it, the FMX150 device can be downgraded back to 01.05.00 or earlier and also updated to 00_01.06.00 without using firmware version A1_01.05.01 again.

If FMX150 device has already been updated to 00_01.06.00 without patching and device is not working correctly, patching procedure can still be used for making the device work with newer firmwares.