

# CAN chip and FMX150 FW update

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

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

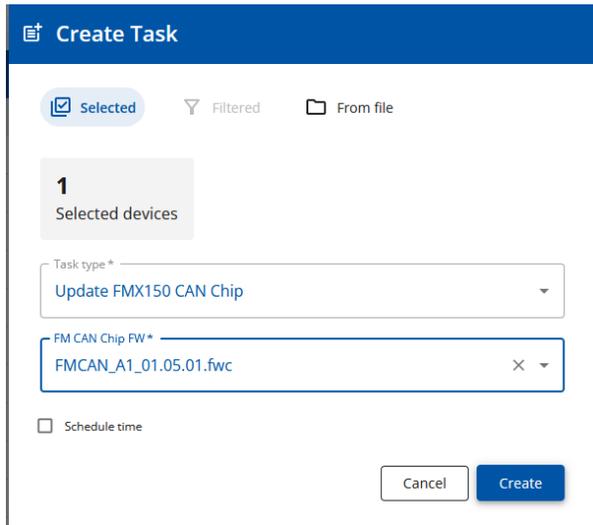
The update procedure is described in the steps bellow.

## 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 the SMS/GPRS command **lvcantgetinfo**.

Example of response: *UniqID: XXXXYYYYZZZZYYYYXXXX, 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 the patch via FOTA, by selecting the “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 'Cancel' and 'Create' buttons.

**Please note!** After the patch CAN LED starts shining continuously instead of blinking periodically. This indicates that the firmware has prepared the device to upgrade to new versions. **Please do not disconnect power until the LED shines, otherwise, the device may become damaged with no possibility of 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: XXYZZXX, 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 the CAN chip firmware to **00\_01.06.00** or a **newer** CAN FW version.

The update process is the same as for Step 1, the only difference is the 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.

**Note: Patching procedure (Step 1) has to be done only once. After that, the FMX150 device can be downgraded back to 01.05.00 or earlier and updated to 00\_01.06.00 without using firmware version A1\_01.05.01 again.**

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