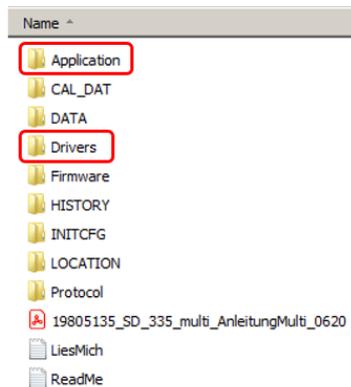


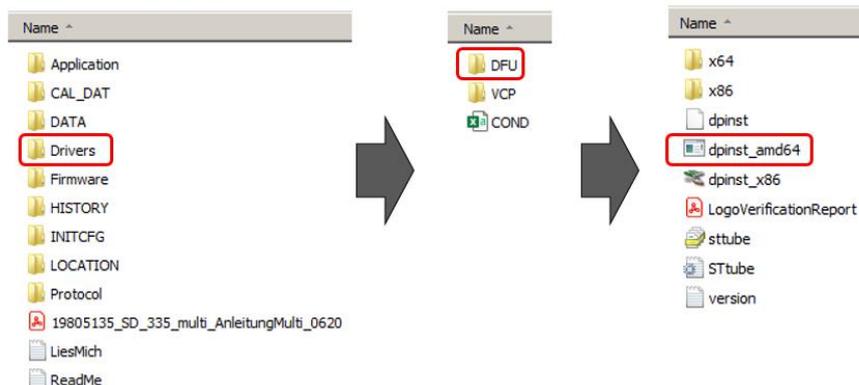
Manual firmware update for the SD 335 Multi

1. Copy driver and software from the instrument to the PC

- 1.1 Turn on the device. Enter the instrument setting by long press of the gear key . Change the *USB mode* to mass storage.
- 1.2 Connect the instrument to your PC via the micro-USB cable. The device should now be recognized as mass storage "SD 335".
- 1.3 In the main directory of the mass storage copy the two folders "Application" (contains the software for the firmware update) and "Drivers" (contains all necessary drivers for the SD 335 Multi) and save them locally on your PC (e.g. to my documents).

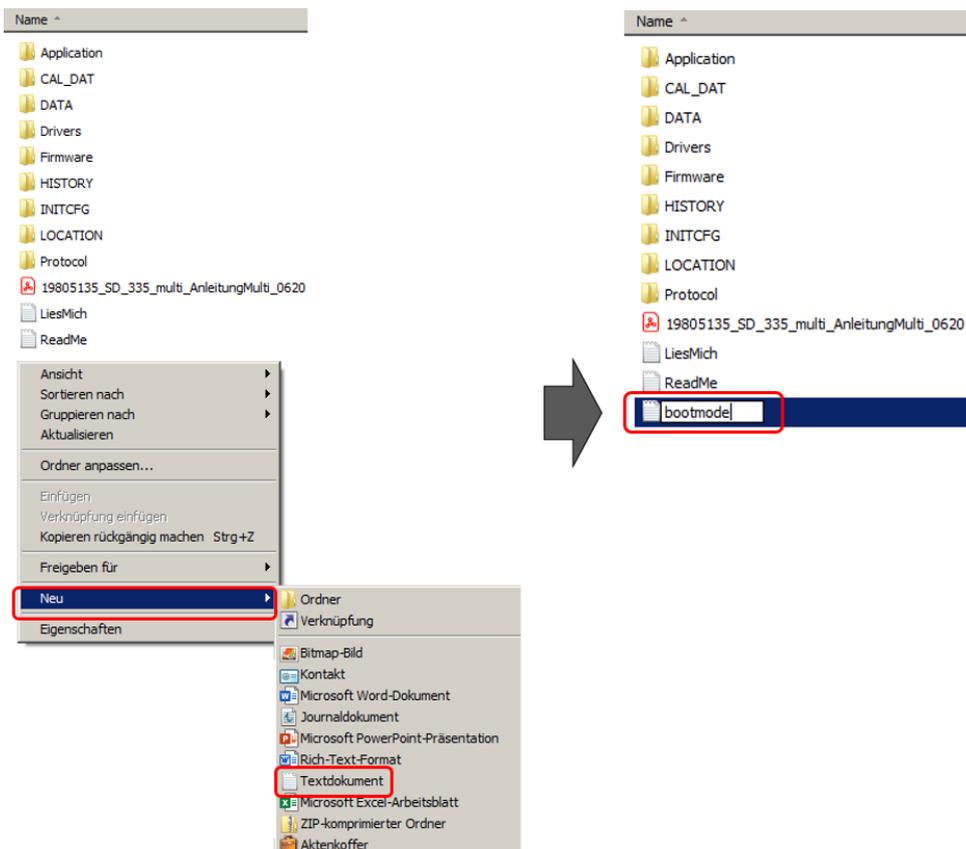


- 1.4 Open the copied "DFU" folder in the "Drivers" folder and execute the file "dpinst_amd64" when logged in as administrator. This will install the driver required for the firmware update. (**Note:** No additional window will open, the installation is done in the background)



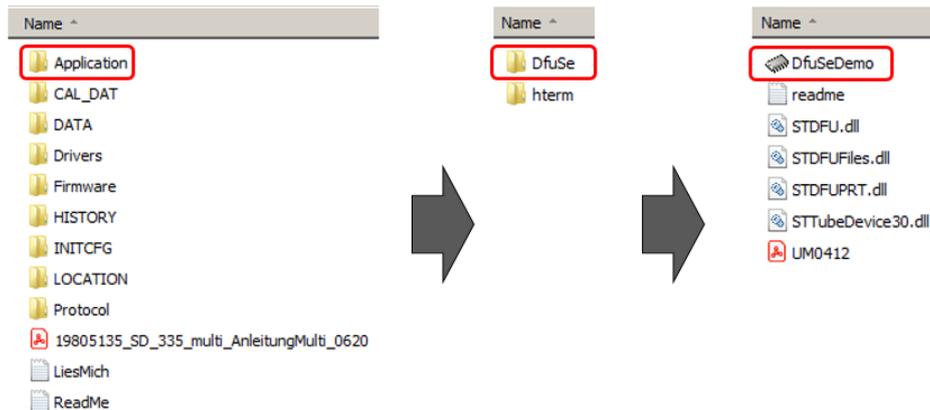
2. Perform firmware update

- 2.1 Turn on the device. Enter the instrument setting by long press of the gear key . Change the *USB mode* to mass storage.
- 2.2 Connect the instrument to your PC via the micro-USB cable. The device should now be recognized as mass storage "SD 335".
- 2.3 Create a text file (.txt) with the name "bootmode" in the main directory of the mass storage.

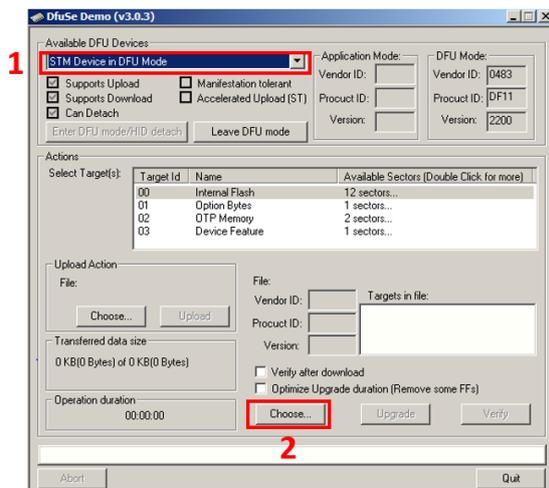


- 2.4 Restart the instrument. When restarting in "bootmode" the display screen will appear briefly and then disappears again. The display screen will now remain off. The instrument is now in firmware upgrade mode.

2.5 Open the folder "DfuSe" in the folder "Application" that has been copied beforehand (chapter 1.3) and run the software "DfuSeDemo".



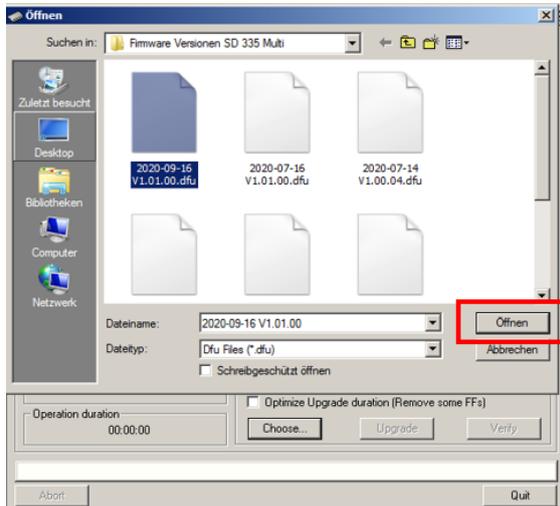
2.6 The software to upload a new firmware opens. Proceed as follows:



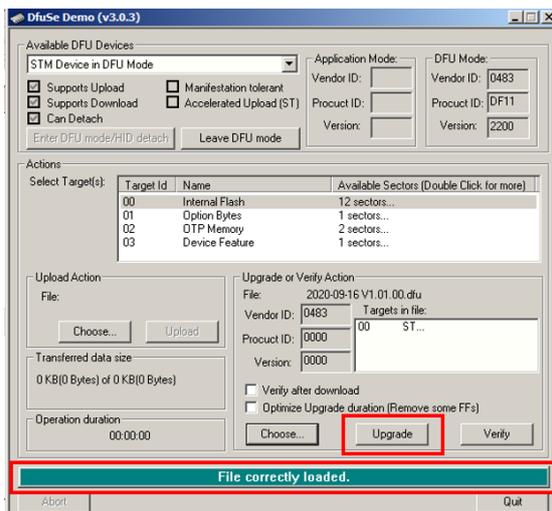
a) If the device is recognized, the name "STM Device in DFU Mode" appears in the upper left corner of the selection field.

(Note: If "STM Device in DFU Mode" is not recognized automatically, the driver described in 1.4 has to be manually assigned to the mass storage via the Windows device manager, see 3.2 trouble shooting)

b) Use the "Choose..." button to select the corresponding dfu file for the firmware update.

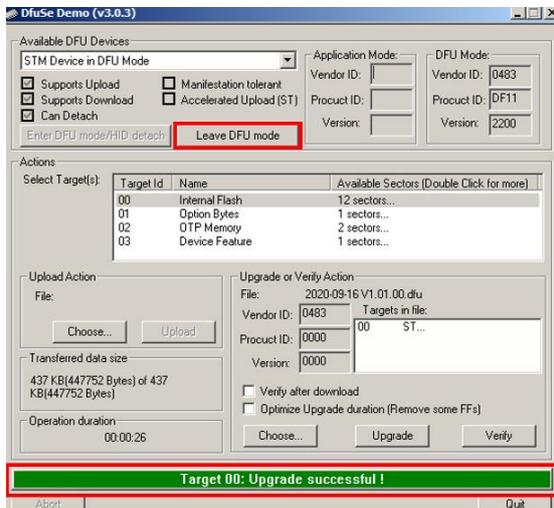


c) Select the firmware you want to upload to the device and confirm your selection with "Open".



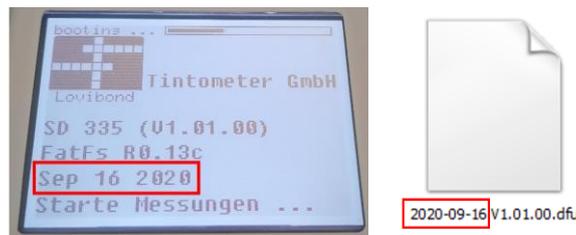
d) When the file has been successfully uploaded, the message "File correctly loaded" appears.

e) The new firmware can now be transferred to the instrument using the "Upgrade" button.



- f) After successful upgrade the message "Upgrade successful!" appears.
- g) To finish the firmware update correctly, leave the DFU mode via the button "Leave DFU mode".
- h) Close the software.
- i) The device can now be restarted.

2.7 The current software status can be checked while the device is booting. Compare the date displayed on the start screen with the date of the dfu file used for the firmware update:



3. Trouble shooting

3.1 Device can no longer be switched on

If the device cannot be switched on, the button "Leave DFU mode" in step 2.6 was forgotten to click before the software was closed. The device is still in boot mode. Repeat the firmware update or remove the batteries and then reinsert them to bring the device back into operation mode.

3.2 „STM Device in DFU mode“ is not recognized by the software

If your device is not recognized by the software, the driver from 1.4 must be assigned to the instrument manually. Therefore, open the Windows device manager and check first if your instrument is recognized via the USB interface. If the instrument is recognized, use right mouse click to open "properties" of the mass storage. Here the driver can be assigned.