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System update using MfgTool2 on CCpilot VS

CC Linux application note

1. Introduction

This document covers the update procedure of the system of CCpliot VS display using the MfgTool2.

The MfgTool2 method is used to update the entire system at once (bootloader, main + rescue Linux kernels, and main + rescue filesystems). Such updates are released as .zip archives on the following format:

`mfgtools-CCpilot-VS-v1.1.0.0_release_image.zip`

(Observe that the name and version my differ)

This method uses the third-party software MfgTool2 which is runs on a Windows host PC. The program is freely provided by NXP and is included in the above mentioned .zip.

2. Download

For downloading the latest OS mfgTool image available for the considered display head to CrossControl website [Display computer | CrossControl] and chose the display that you want the image for. After choosing the display, scroll down and click on the DOWNLOAD then navigate to:

DOWNLOAD → DEVICE DOWNLOADS → CC LINUX → OPERATING SYSTEM IMAGES

MfgTool OS image for VS

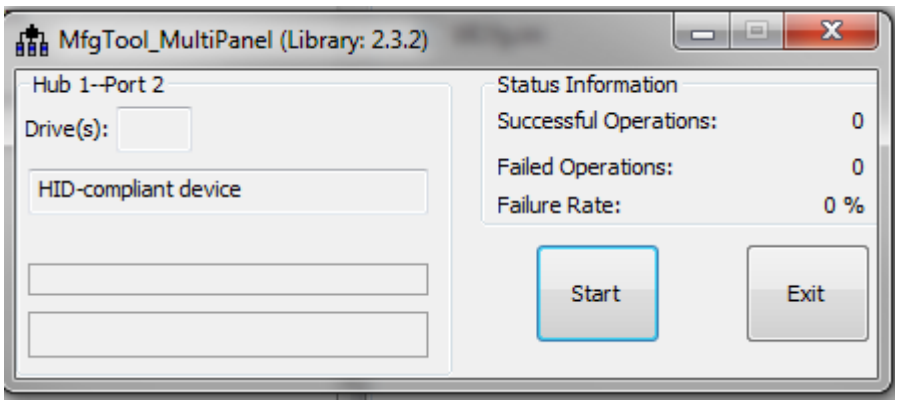
3. Update procedure

3.1. Start by unpacking the ZIP-file with mfgtool Linux image on your Windows PC. Run MfgTools2.exe as administrator on your Windows PC. Now get the display ready for installation.

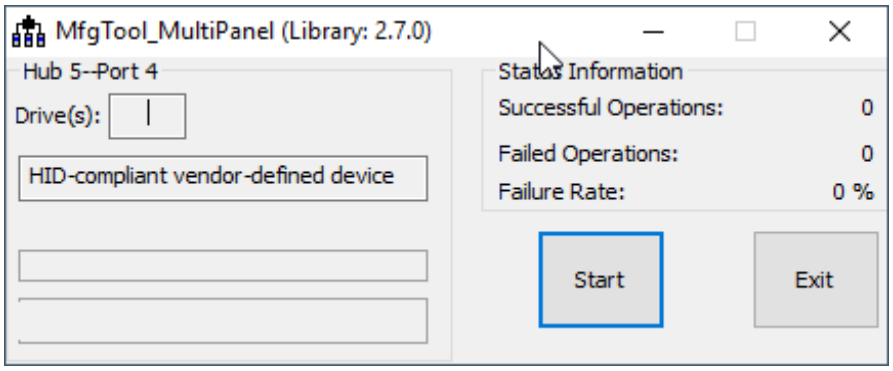
3.2. Reset VS-unit in OTG-mode
- Press ”Start” button for at least 30 sec.
- The unit will beep twice (first there is one short beep and after a few seconds there is a long beep, ignore both these and continue pressing!)

3.3. Connect USB
- Use an USB 2 male-male cable
- Insert in USB port 1 on VS first and then to your PC

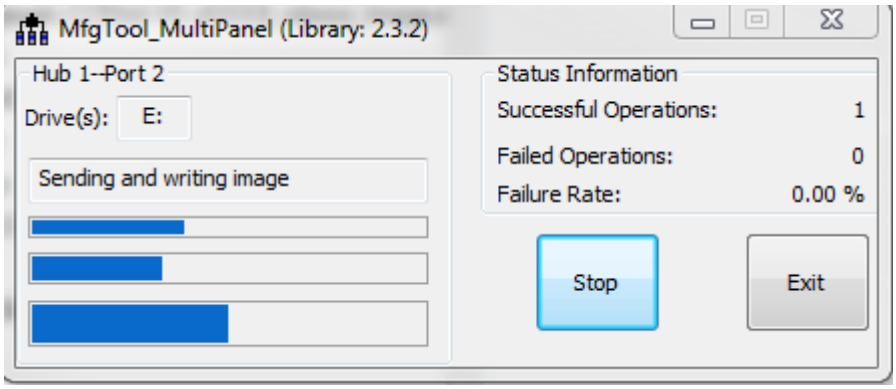
3.4. Start MfgTool
- Start MfgTool.exe
- The following tool window should appear. Make sure that the VS unit has been found! (The text “HID-compliant device” should be seen in the tool-window!)



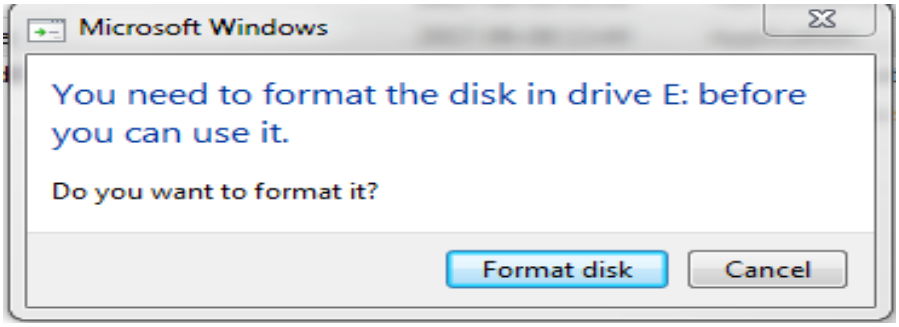
Or like this (newer version of the MfgTool):



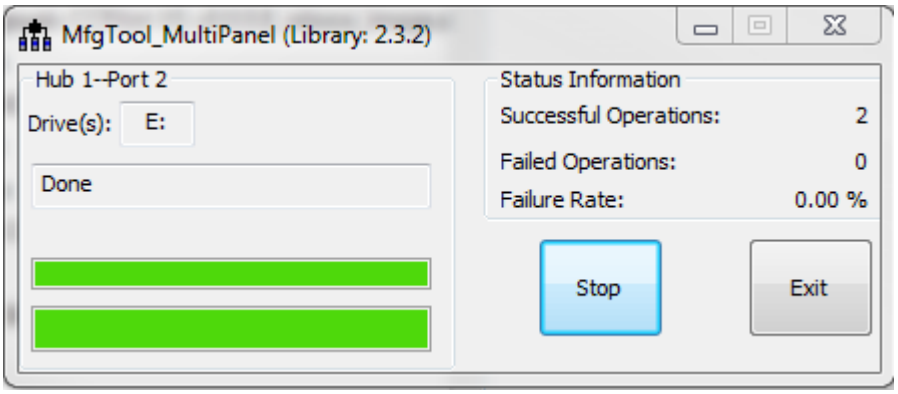
- Press 'Start' and the download of the new image starts.



- During the download/installation the following popup **may** appear:



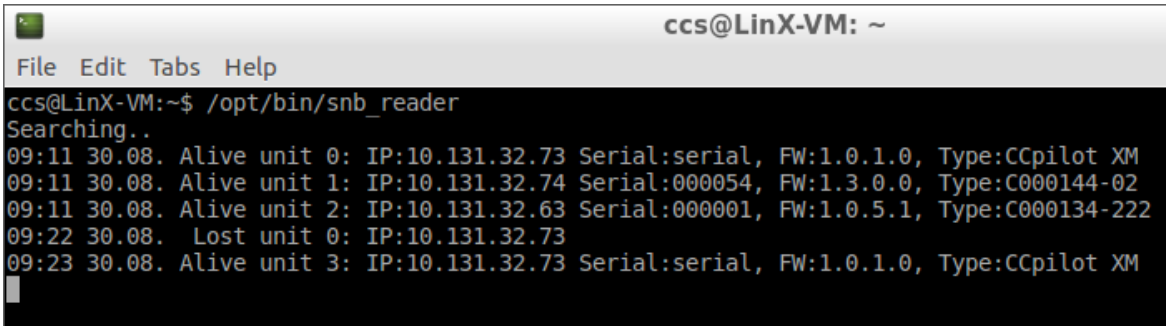
- **NOTE! DO NOT CLICK "FORMAT DISK"!!!** It is the Windows PC that has detected the VS and it should NOT format the VS memory!



- Press 'Stop' then 'Exit'!
- You are good to go!
- Break power to the display, remove USB cable and start up!

3.5. Disconnect power to the VS unit and remove USB cable

3.6. Connect power and let the unit start up.
You should be able to find the VS with the "**`snb_reader`**" command in VM:



(Type: C000139-212 is the article nbr for the VS!)

Trademarks