
STM32CubeMonitor-UCPD release 1.1.1

Introduction

This release note is updated periodically to keep abreast of the STM32CubeMonitor-UCPD (STM32CubeMonUCPD) evolutions, problems, and limitations. Refer to the table below for the latest release summary.

Table 1. STM32CubeMonitor-UCPD 1.1.1 release summary

Type	Summary
Minor release	Bugfix: bundle the JRE with STM32CubeMonitor-UCPD to avoid future incompatibilities

Customer support

Check the ST support website at www.st.com/stm32softwaretools for the latest version. For more information or help concerning STM32CubeMonitor-UCPD, contact the nearest STMicroelectronics sales office. For a complete list of STMicroelectronics offices and distributors, refer to the www.st.com webpage.

Software updates

Software updates and all the latest documentation can be downloaded from the STMicroelectronics microcontroller support webpage at www.st.com/stm32softwaretools.

1 General Information

1.1 Overview

The main features of the STM32CubeMonitor-UCPD software tool are the following:

- Configures and monitors USB Type-C™ Power Delivery (PD) ports of STMicroelectronics USB Type-C™ PD boards.
- Sends device policy manager (DPM) messages to distant USB Type-C™ PD port.

This software applies to STM32 Arm®-based microcontrollers.

Note: Arm is a registered trademark of Arm Limited (or its subsidiaries) in the US and/or elsewhere.



1.2 Host PC system requirements

Supported operations systems and architectures

- Windows® 7, 8 and 10: 64-bit (x64)
- Linux® (tested on Red Hat®, Fedora®, and Ubuntu®, 64-bit)
- macOS® (minimum version OS X® Yosemite)

Note: Red Hat® is a registered trademark of Red Hat, Inc.

Fedora® is a trademark of Red Hat, Inc.

Ubuntu® is a registered trademark of Canonical Ltd.

macOS® is a trademark of Apple Inc. registered in the U.S. and other countries.

Software requirements

- For Linux®, Java™ runtime is required by the installer.

Note: Oracle and Java are registered trademarks of Oracle and/or its affiliates.

Hardware requirements

- One free USB2 or USB3 host port
- USB Type-A or USB Type-C™ to Micro-B or Mini-B cable depending on target board
- ST target board with USB Type-C™ with firmware (TRACE or GUI capable) latest version:
 - Downloaded for STM32G0 Discovery kit from [STM32G071B-DISCO](#)
 - Downloaded for STM32G4 Evaluation board from [STM32G474E-EVAL](#)
 - Or built through STM32CubeMX, from the sources available in firmware packages under EWARM, Keil®, and STM32CubeIDE.

1.3 ST-LINK STM32 Virtual COM port driver

Before the first connection, the ST-LINK USB driver must be installed (it can be downloaded from the dedicated page on www.st.com)

1.4 Setup procedure

Refer to the *STM32CubeMonitor-UCPD User manual* (UM2468) available at the www.st.com/stm32softwaretools webpage.

1.5 Licensing

STM32CubeMonUCPD is delivered under the *Mix Ultimate Liberty+OSS+3rd-party V1* software license agreement (SLA0048).

Table 2. List of software component licenses

Name	Version	License type	Details
commons-io	2.5	Apache License, Version 2.0	https://mvnrepository.com/artifact/commons-io/commons-io/2.5
commons-lang	2.6		https://mvnrepository.com/artifact/commons-lang/commons-lang/2.6
fontawesomefx	8.9		https://mvnrepository.com/artifact/de.jensd/fontawesomefx/8.9
log4j-api	2.8.1		https://mvnrepository.com/artifact/org.apache.logging.log4j/log4j-api/2.8.1
log4j-core	2.8.1		
controlsfx	8.40.13	The 3-Clause BSD License	https://mvnrepository.com/artifact/org.controlsfx/controlsfx/8.40.13
jssc	2.8.0	GNU Lesser General Public License 3.0	https://mvnrepository.com/artifact/org.scream3r/jssc/2.8.0
izpack	5.1.1	Apache License, Version 2.0	https://mvnrepository.com/artifact/org.codehaus.izpack/izpack-mavenplugin/5.1.1
jfreechart	1.5.0	GNU Lesser General Public License 3.0	https://mvnrepository.com/artifact/org.jfree/jfreechart/1.5.0
jfreechart-fx	1.0.0		https://mvnrepository.com/artifact/org.jfree/jfreechart-fx/1.0.0
commons-codec	1.3	Apache License, Version 2.0	https://mvnrepository.com/artifact/commons-codec/commons-codec/1.3
fxgraphics2d	1.6	BSD 3-clause	https://mvnrepository.com/artifact/org.jfree/fxgraphics2d/1.6
jSerialComm	2.0.2	GNU Lesser General Public License 3.0	https://mvnrepository.com/artifact/com.fazecast/jSerialComm/2.0.2
Java SE and JavaFX	1.8.0_192	Oracle® Binary Code LicenseAgreement	License copy in "License" folder. http://www.oracle.com(1)
Inno setup	6.0.2	Jordan Russell Inno Setup license	Windows installerCopy of license in "License" folder. http://www.innosetup.com/

2 STM32CubeMonitor-UCPD 1.1.1 release information

2.1 Solved issues in this version

The following issue is corrected in this software version:

- Crash of the application with the latest version of Oracle® JRE

3 STM32CubeMonitor-UCPD 1.1.0 release information

3.1 New features

- Add the possibility to send a free text in the command list
- Fill default requested voltage for request power profile

3.2 Known problems and limitations

Board not detected:

- If the board is not detected after a couple of seconds, disconnect it, wait for another couple of seconds and connect it again, or click on Board Selection again to refresh.

3.3 Solved issues in this version

The following issues are corrected in this software version:

- Exception raised when coming back to "Board selection" tab from any other tab
- Traces not available
- Display issue on measurement panel
- Issues detected when changing rapidly from one port to another
- Tool is not recognized by Symantec™ as a trusted source after installation
- Time of splash screen is not enough (disappear before the application is running)
- Tool does not respond and an exception raises when sending some Messages
- Exception raised when clicking on some messages
- SRC/SINK Capabilities tab must be removed if the imported configuration do not have SINK/SRC PDO defined
- [Internationalization] language list must not be translated
- Cannot install STM32CubeMonUCPD on windows 10

4 STM32CubeMonitor-UCPD 1.0.0 release information

4.1 Features

STM32CubeMonitor-UCPD has the following key features:

- Detect board with cubemon_ucpd_emb module
- Select UCPD Ports available on the board
- Visualize current port status (Contract, Power Role, IBus, VBus ...)
- Visualize capabilities of the distant device port (if any)
- Start & Stop graphical monitoring of IBus & Vbus values
- Send messages to the distant device port
- Trace debug information
- Save debug information trace into a file
- Replay previously saved debug information traces from file
- Configure PD settings
- Configure VDM SOP
- Configure Source Capabilities
- Configure Sink Capabilities
- Send current configuration into the board
- Save current configuration into the board
- Save current port Type-C configuration into a file
- Load previously saved port Type-C configuration from file

Revision history

Table 3. Document revision history

Date	Version	Changes
8-Nov-2018	1	Initial release.
25-Mar-2019	2	Updated title and <i>Table 1</i> switch to 1.1.0 minor revision Added <i>Section 2 STM32CubeMonitor-UCPD 1.1.0 release information</i>
1-Sep-2020	3	Updated: <ul style="list-style-type: none"> • document title • <i>Table 1</i> switch to 1.1.1 minor revision • <i>Table 2. List of software component licenses</i> • <i>Section 1.2 Host PC system requirements</i> Added <i>Section 2 STM32CubeMonitor-UCPD 1.1.1 release information.</i>

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