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## STM32CubeMonitor-UCPD release 1.2.0

### 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 1.2.0 release summary**

Type	Summary
Major release	<ul style="list-style-type: none"><li>Update of JSCC 2.8.0 to JSCC 2.9.2 (Compatibility with JDK11)</li><li>Java® bundle Liberica 265</li></ul>

### Customer support

Check the ST support website at [www.st.com/stm32softwaretools](http://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](http://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](http://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® 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®, JRE™ (Java® runtime environment) 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](http://www.st.com))

## 1.4 Setup procedure

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

## 1.5 Licensing

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

The software components used in the development of STM32CubeMonitor-UCPD and their licenses are listed in Table 2.

**Table 2. List of software component licenses**

Name	Version	Copyright	License	Details
commons-io	2.5	The Apache Software Foundation	Apache License 2.0	<a href="https://mvnrepository.com/artifact/commons-io/commons-io/2.5">https://mvnrepository.com/artifact/commons-io/commons-io/2.5</a>
commons-lang	2.6			<a href="https://mvnrepository.com/artifact/commons-lang/commons-lang/2.6">https://mvnrepository.com/artifact/commons-lang/commons-lang/2.6</a>
fontawesomefx	8.9			<a href="https://mvnrepository.com/artifact/de.jensd/fontawesomefx/8.9">https://mvnrepository.com/artifact/de.jensd/fontawesomefx/8.9</a>
log4j-api	2.8.1			<a href="https://mvnrepository.com/artifact/org.apache.logging.log4j/log4j-api/2.8.1">https://mvnrepository.com/artifact/org.apache.logging.log4j/log4j-api/2.8.1</a>
log4j-core	2.8.1			
controlsfx	8.40.13	Free Software Foundation, Inc.	BSD-3-Clause	<a href="https://mvnrepository.com/artifact/org.controlsfx/controlsfx/8.40.13">https://mvnrepository.com/artifact/org.controlsfx/controlsfx/8.40.13</a>
jssc	2.9.2		LGPL-3.0-only	<a href="https://mvnrepository.com/artifact/org.scream3r/jssc/2.9.2">https://mvnrepository.com/artifact/org.scream3r/jssc/2.9.2</a>
izpack	5.1.3	Julien Ponge, René Krell and the IzPack contributors	Apache License 2.0	<a href="https://mvnrepository.com/artifact/org.codehaus.izpack/izpack-maven-plugin/5.1.3">https://mvnrepository.com/artifact/org.codehaus.izpack/izpack-maven-plugin/5.1.3</a>
jfreechart	1.5.0	Free Software Foundation, Inc.	LGPL-3.0-only	<a href="https://mvnrepository.com/artifact/org.jfree/jfreechart/1.5.0">https://mvnrepository.com/artifact/org.jfree/jfreechart/1.5.0</a>
jfreechart-fx	1.0.1			<a href="https://mvnrepository.com/artifact/org.jfree/jfreechart-fx/1.0.0">https://mvnrepository.com/artifact/org.jfree/jfreechart-fx/1.0.0</a>
commons-codec	1.3	The Apache Software Foundation	Apache License 2.0	<a href="https://mvnrepository.com/artifact/commons-codec/commons-codec/1.3">https://mvnrepository.com/artifact/commons-codec/commons-codec/1.3</a>
fxgraphics2d	1.6	Free Software Foundation, Inc.	BSD-3-Clause	<a href="https://mvnrepository.com/artifact/org.jfree/fxgraphics2d/1.6">https://mvnrepository.com/artifact/org.jfree/fxgraphics2d/1.6</a>
jSerialComm	2.0.2		LGPL-3.0-only	<a href="https://mvnrepository.com/artifact/com.fazecast/jSerialComm/2.0.2">https://mvnrepository.com/artifact/com.fazecast/jSerialComm/2.0.2</a>

The software bundled with STM32CubeMonitor-UCPD and their licenses are listed in Table 3.

**Table 3. List of software bundled with the tool**

Name	Version	Copyright	License	Details
Java® SE and JavaFX	1.8.0_265	Oracle®	Oracle® Binary Code License Agreement	Copy of license is in "License" folder. <a href="http://www.oracle.com">http://www.oracle.com</a> (1)
Inno setup	6.0.2	Jordan Russell	Inno Setup license	Windows installer. Copy of license is in "License" folder. <a href="http://www.innosetup.com">http://www.innosetup.com</a>

1. Search for Java® SE on the Oracle® website.

## 2 STM32CubeMonitor-UCPD 1.2.0 release information

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### 2.1 New features

- Save trace feature added
- GUI messages removed (Live and replay)
- Correction of decoding of Discovery\_identity ACK
- Decoding of ProductTypeUFPorCP
- Removal of trace information in the tooltip
- Name of the trace added in the tooltip
- New presentation of Display\_Configure\_REQ and Display\_Configure\_ACK
- Decoding of IBusVBus messages
- Decoding of SRC\_CAPA\_EXT messages
- Decoding of No Forward cable messages
- Decoding of VDM Disco identity messages
- Decoding of SINK\_CAPA\_EXT messages
- Decoding of GET\_SINK\_CAPA\_EXTENDED messages
- Decoding of GET\_STATUS, STATUS messages
- Decoding of GET\_BATTERY, BATTERY messages
- Decoding of GET\_MANU\_INFO and MANU\_INFO messages
- Decoding of UCSI messages
- Decoding of REVISION, GET\_REVISION messages
- Trace Live versus Replay activation
- Trace Sorting

### 2.2 Solved issues in this version

The following issues are corrected in this software version:

- Cannot copy trace if too many debug messages
- Firmware and stack versions are inverted in the board selection window
- Cannot save parameters in Flash memory because of a wrong parameter
- Default timing for measurement cannot be zero
- Graph may disappear if we zoom in or out
- Change comments and min PDO settings
- Wrong default value for PPS request
- Change default parameter for Port configuration page saving
- Power request automatically sent on double click
- Optimize space under measurement graph

## 3 STM32CubeMonitor-UCPD 1.1.1 release information

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### 3.1 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

## 4 STM32CubeMonitor-UCPD 1.1.0 release information

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### 4.1 New features

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

### 4.2 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.

### 4.3 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 is raised 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

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### 5.1 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 4. 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>STM32CubeMonitor-UCPD 1.1.0 release information</i>
1-Sep-2020	3	Updated: <ul style="list-style-type: none"> <li>• document title</li> <li>• <i>Table 1</i> switch to 1.1.1 minor revision</li> <li>• <i>Section 1.2 Host PC system requirements</i></li> <li>• <i>Table2. List of software component licenses</i></li> </ul> Added <i>STM32CubeMonitor-UCPD 1.1.1 release information..</i>
15-Nov-2021	4	Updated: <ul style="list-style-type: none"> <li>• Document title</li> <li>• <i>Table 1. Switch to 1.2.0 major revision</i></li> <li>• <i>Table 2. List of software component licenses</i></li> </ul> Added: <ul style="list-style-type: none"> <li>• <i>Table 3. List of software bundled with the tool</i></li> <li>• <i>STM32CubeMonitor-UCPD 1.2.0 release information</i></li> </ul>



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