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## STM32CubeMonitor release v1.2.0

### Introduction

This release note is updated periodically to keep abreast of the **STM32CubeMonitor** evolution, problems and limitations. Check the product webpage in STMicroelectronics website at [www.st.com](http://www.st.com) for the latest version. For the latest release summary, refer to [Table 1](#).

**Table 1. STM32CubeMonitor v1.2.0 release summary**

Type	Summary
Minor release	Maintenance update to improve performance and fix issues.

### Customer support

For more information or help concerning **STM32CubeMonitor**, contact the nearest STMicroelectronics sales office or use the ST community at [community.st.com](http://community.st.com). 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 support webpage at [www.st.com/stm32cubmonitor](http://www.st.com/stm32cubmonitor).

## 1 General information

### 1.1 Overview

STM32CubeMonitor is a software tool to monitor and visualize real-time data from STM32 devices. Leveraging its graphical flow-based editor for visual programming, users drag and drop nodes representing features and widgets to quickly build custom dashboards with gauges, bar graphs, plots, and much more.

STM32CubeMonitor applies to STM32 microcontrollers, based on Arm® Cortex® cores.

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



### 1.2 Documentation

STM32CubeMonitor documentation is available in wiki format at [wiki.st.com/stm32mcu/wiki/STM32CubeMonitor:STM32CubeMonitor\\_overview](http://wiki.st.com/stm32mcu/wiki/STM32CubeMonitor:STM32CubeMonitor_overview).

### 1.3 Host PC system requirements

#### Supported operating systems and architectures

- Windows® 7, 8, and 10, 64 bits (x64)
- Linux® Ubuntu®, versions 18.04, 20.04
- macOS® (minimum version macOS® Mojave)

*Note:* Linux® is a registered trademark of Linus Torvalds.  
Ubuntu® is a registered trademark of Canonical Ltd.  
macOS® is a trademark of Apple Inc. registered in the U.S. and other countries.  
All other trademarks are the property of their respective owners.

### 1.4 Setup procedure

The installation procedure is described in STM32CubeMonitor wiki pages for Windows®, macOS® and Linux®.

The zip files available from the STM32CubeMonitor webpage on [www.st.com](http://www.st.com) contain the installer for the selected operating system, embedded software for target instrumentation, and licensing information. Please refer to [wiki.st.com/stm32mcu/wiki/STM32CubeMonitor:Installing\\_STM32CubeMonitor](http://wiki.st.com/stm32mcu/wiki/STM32CubeMonitor:Installing_STM32CubeMonitor) for setup details.

### 1.5 Licensing

STM32CubeMonitor is delivered under the SLA0048 software license agreement and its Additional License Terms.

## 2 STM32CubeMonitor v1.2.0 release information

### 2.1 New features / enhancements

- Upgrade Node-RED® to version V1.2.9.
- Ensure STM32CubeMonitor compatibility with macOS® on Apple® M1 chip.
- Make it possible to decrease dashboard size down to 256 × 180 pixels.
- Improve the *single value* sub-flow help tooltip and lock field type.
- Add some functions to improve bitwise post-processing operations.

### 2.2 Fixed issues

**Table 2. Main issues fixed in STM32CubeMonitor v1.2.0**

ID	Summary
80962	Linux® uninstall does not remove the <code>stm32cubemonitor</code> folder when requested.
81730	Tool tip is not showing information for SubFlow Single Value node.
83279	Snapshot acquisition - be able to customize the buffer size ( <code>SNP_TRC_BUFFER_SIZE</code> ).
84740	Copy-paste not working on macOS®.
91528	Libusb not found with macOS®.
92190	Tool takes long time to start with wrong network configuration.
93647	Elf parser stuck at 25% with one <code>.elf</code> file.
94699	Some variables have addresses set to 0.
100418	Snapshot acquisition - improve acquisition when the buffer is overflow.
102635	Add pop up to enable security in dashboard.

### 2.3 Known problems and limitations

- On Ubuntu® 19.10 and Ubuntu® 20.04, the tool used to parse the symbol files is not working properly without library `libncurses5`. To install it, run `$sudo apt install libncurses5`.
- The *single value* sub-flow and default flows are updated. If an old flow is imported, there could be two sub-flow instances in the palette. This is not an issue: the user can still use the old one, or update the flow with the new *single value* (the new sub-flow is blue instead of brown).
- When a flow is imported, Node-RED® is warning the user if some node would be overwritten. This warning is an improvement and does not mean that there is an issue in the flow. Users have better control and can select which node must be imported.
- On some computers, some dashboard with control groups are not properly displayed at initial load. The hidden groups are visible while they should not. The dashboard goes back to normal mode as soon as the user clicks on controls and groups get updated.
- In the snapshot mode, the U32 values greater than 7FFF FFFF are rendered as negative values.

## 3 Previous release information

### 3.1 STM32CubeMonitor v1.1.0 release information

#### 3.1.1 New features / enhancements

- Optimize the access point management in read procedure to improve speed
- Chart:
  - Keep color and order of data lines of variables at each start
  - Autozoom considers only the visible variables to compute the zoom factor
- Add binary operators in post processing
- Support `bool` type from `<stdbool.h>` as `uint8_t`
- Update UI look and feel and STMicroelectronics logo
- Add some nodes in STM32CubeMonitor palette: `node-red-contrib-finite-state-machine` and `node-red-contrib-ui-led`
- Ask the user if the `stm32cubemonitor` folder should be removed when Linux® software is uninstalled
- Add the new STM32 part numbers
- Executable/elf file parser: support of C++ classes
- Avoid displaying variables with undefined type
- The trigger name field indicates `Variable list is empty` when the variable list is empty

#### 3.1.2 Fixed issues

**Table 3. Main issues fixed in STM32CubeMonitor v1.1.0**

ID	Summary
81386	Sometimes, import data raises an exception.
81996	Acquisition out node displays errors in console and in debug Node-RED® console while it should not.
82464	Not able to display dashboard and open online help simultaneously.
82592	Wrong value is read for 16-bit variables when the value is oscillating around overflow from one byte to the other.
82819	STM32CubeMonitor crashes when expanding variable list on executable files containing a big arrays.
84007	The processing node is not detecting linked-variable nodes on import (because of the new node IDs).
84015	STM32CubeMonitor loses some variable selections on edit (issue raised in <a href="https://community.st.com">community.st.com</a> ).
84801	The trigger name field is not updated when there is no executable file.

#### 3.1.3 Known problems and limitations

On Ubuntu® 19.10, the tool used to parse the symbol files is not working properly without the `libncurses5` library. To install it, run `$sudo apt install libncurses5`.

## 3.2 STM32CubeMonitor v1.0.0 release information

### 3.2.1 Features

The version v1.0.0 is the first release of STM32CubeMonitor. The application provides STMicroelectronics nodes and reference flows to perform data acquisition on target.

### 3.2.2 Known problems and limitations

The menu **[Manage Palette]** is not available when `npm` is not installed on the computer. In order to add nodes in the palette, the user must install `nodejs` (with `npm`).

## Revision history

**Table 4. Document revision history**

Date	Revision	Changes
28-Feb-2020	1	Initial release.
7-Sep-2020	2	Added information related to STM32CubeMonitor v1.1.0.
2-Apr-2021	3	Added information related to STM32CubeMonitor v1.2.0.

## Contents

<b>1</b>	<b>General information</b>	<b>2</b>
1.1	Overview	2
1.2	Documentation	2
1.3	Host PC system requirements	2
1.4	Setup procedure	2
1.5	Licensing	2
<b>2</b>	<b>STM32CubeMonitor v1.2.0 release information</b>	<b>3</b>
2.1	New features / enhancements	3
2.2	Fixed issues	3
2.3	Known problems and limitations	3
<b>3</b>	<b>Previous release information</b>	<b>4</b>
3.1	STM32CubeMonitor v1.1.0 release information	4
3.1.1	New features / enhancements	4
3.1.2	Fixed issues	4
3.1.3	Known problems and limitations	4
3.2	STM32CubeMonitor v1.0.0 release information	5
3.2.1	Features	5
3.2.2	Known problems and limitations	5
	<b>Revision history</b>	<b>6</b>
	<b>Contents</b>	<b>7</b>
	<b>List of tables</b>	<b>8</b>

## List of tables

<b>Table 1.</b>	STM32CubeMonitor v1.2.0 release summary . . . . .	1
<b>Table 2.</b>	Main issues fixed in STM32CubeMonitor v1.2.0 . . . . .	3
<b>Table 3.</b>	Main issues fixed in STM32CubeMonitor v1.1.0 . . . . .	4
<b>Table 4.</b>	Document revision history . . . . .	6



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