

# STM32 ASEAN Workshop

Pre-workshop Installations

# System Requirement 2

- Laptop
  - Administrative privileges needed for driver/software install and later during the workshop for compiling codes.
- Windows Operating System
  - Vista/Win7/Win8
- Please bring your own USB A to Micro-B cable



# Step 1: Download the following files

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- Register & download the following software from the links provided. Refer to the installation procedures in the following pages.
- Software Development Environment:
  - Atollic TrueSTUDIO for STM32: <https://atollic.com/resources/download/windows/>
- STLink USB driver (STSW-LINK009) : [www.st.com/stlinkv2](http://www.st.com/stlinkv2)
- STM32 STLink Utility (STSW-LINK004) : [www.st.com/stlinkv2](http://www.st.com/stlinkv2)
- STM32CubeMX: [www.st.com/stm32cube](http://www.st.com/stm32cube)
  - Important: The STM32CubeMX requires Java Run Time Environment 1.8 (JRE version 1.8.0\_45 or newer) <https://java.com/download>
  - STM32CubeL4 firmware package: [www.st.com/content/st\\_com/en/products/embedded-software/mcus-embedded-software/stm32-embedded-software/stm32cube-embedded-software/stm32cubel4.html](http://www.st.com/content/st_com/en/products/embedded-software/mcus-embedded-software/stm32-embedded-software/stm32cube-embedded-software/stm32cubel4.html)

# Step 2: Atollic TrueSTUDIO Installation 4

- We will be using Atollic TrueSTUDIO for this workshop.
- Atollic TrueSTUDIO for STM32 is a commercially enhanced C/C++ IDE based on Eclipse with
  - Extensive supports for all STM32 devices
  - GCC-based full fledged toolchain, no code size limitation
  - Advance debugging features
- The STM32 peripherals can be configured using STM32CubeMX and the resulting project then exported to Atollic TrueSTUDIO

# Step 2: Atollic TrueSTUDIO Download 5

- Download Atollic TrueSTUDIO for STM32

<https://atollic.com/resources/download/windows/>

- Fill in the required information and click [Download installer – Window Version]

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## Downloads for Windows

Home / Resources / Download / Downloads for Windows

Only a few simple questions and you are on your way to using the new TrueSTUDIO for STM32.

Enter a valid business e-mail address

We use your registration to notify you about new versions, bug fixes, new features and target support updates. We also share tips and tricks and invite you to attend free training webinars.

We do not sell your information to any third parties. You can opt out of these communications at any time.

I am looking for a:

- ☐ Professional development tool and will evaluate TrueSTUDIO against other commercial tools
- ☐ Basic free tool
- ☐ Not looking. I am already a customer

First Name\* Last Name\*

Email\* Country\*

What best describes you?\*

- ☐ Non-commercial
- ☐ Contractor
- ☐ Small business
- ☐ Large business

Device family of interest

☐ I want information about beta versions

Download installer - Windows versions

The partner form allows qualified FAEs and other partner employees to request a free TrueSTUDIO Pro license.

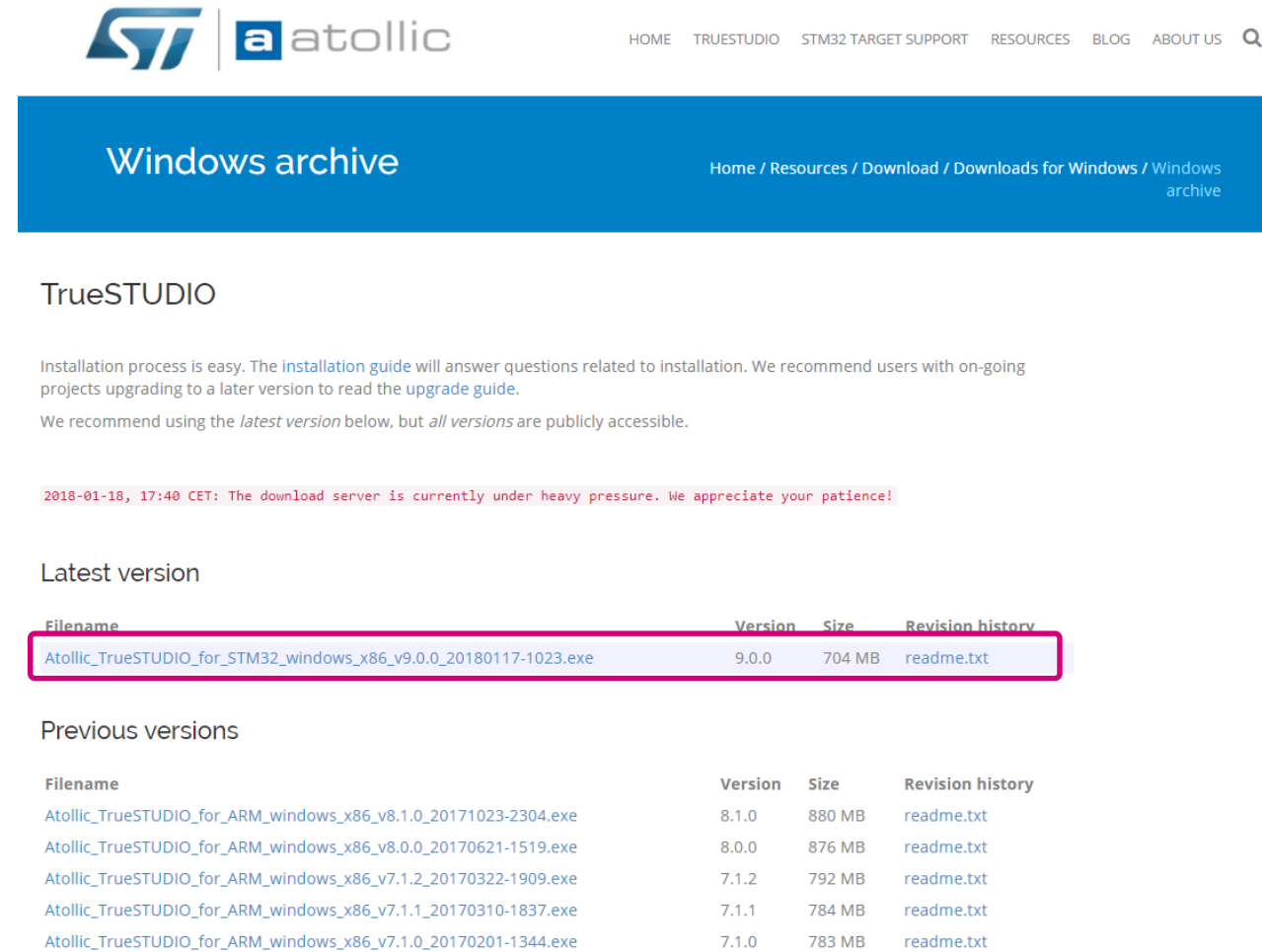
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# Step 2: Atollic TrueSTUDIO Download

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- Download the TrueSTUDIO v9.0.0
  - [Atollic TrueSTUDIO for STM32 windows x86 v9.0.0 20180117-1023.exe](#)
- You may refer to the installation guide for first time user
  - [http://gotland.atollic.com/resources/manuals/9.0.0/install\\_guide.pdf](#)
- For existing user, download the upgrade guide
  - [http://gotland.atollic.com/resources/manuals/9.0.0/AtollicTrueSTUDIO\\_UpgradeGuide.pdf](#)



The screenshot shows the Atollic website's 'Windows archive' page. The header includes the Atollic logo and navigation links: HOME, TRUESTUDIO, STM32 TARGET SUPPORT, RESOURCES, BLOG, ABOUT US, and a search icon. The main heading is 'Windows archive', with a breadcrumb trail: Home / Resources / Download / Downloads for Windows / Windows archive. The section is titled 'TrueSTUDIO' and contains text about the installation process, a link to the installation guide, and a note about using the latest version. A red alert message states: '2018-01-18, 17:40 CET: The download server is currently under heavy pressure. We appreciate your patience!'. Below this, the 'Latest version' section features a table with one entry highlighted in a red box:

Filename	Version	Size	Revision history
Atollic_TrueSTUDIO_for_STM32_windows_x86_v9.0.0_20180117-1023.exe	9.0.0	704 MB	readme.txt

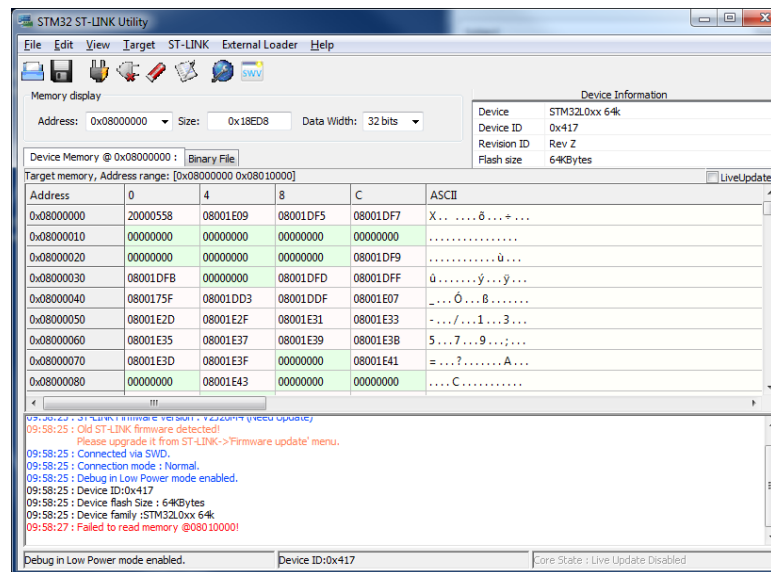
The 'Previous versions' section contains another table with five entries:

Filename	Version	Size	Revision history
Atollic_TrueSTUDIO_for_ARM_windows_x86_v8.1.0_20171023-2304.exe	8.1.0	880 MB	readme.txt
Atollic_TrueSTUDIO_for_ARM_windows_x86_v8.0.0_20170621-1519.exe	8.0.0	876 MB	readme.txt
Atollic_TrueSTUDIO_for_ARM_windows_x86_v7.1.2_20170322-1909.exe	7.1.2	792 MB	readme.txt
Atollic_TrueSTUDIO_for_ARM_windows_x86_v7.1.1_20170310-1837.exe	7.1.1	784 MB	readme.txt
Atollic_TrueSTUDIO_for_ARM_windows_x86_v7.1.0_20170201-1344.exe	7.1.0	783 MB	readme.txt

# Step 3: ST-Link USB driver and ST-Link Utility

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- Download the ST-Link USB drivers from [www.st.com/stlinkv2](http://www.st.com/stlinkv2) (STSW-LINK009) and install the drivers.
- Also download the STM32 ST-Link Utility from [www.st.com/stlinkv2](http://www.st.com/stlinkv2) (STSW-LINK004) and install the utility.
  - The STM32 ST-Link Utility is an STM32 programming software using the ST-Link programmer/debugger tool.
  - Besides programming capability, the tool can also be used to verify the ST-Link driver installation and connection to the target MCU.



# Step 4: STM32CubeMX Installation 8

- Download the STM32CubeMX from [www.st.com/stm32cube](http://www.st.com/stm32cube) and install
- Important: The STM32CubeMX requires Java Run Time Environment 1.8 (JRE version 1.8.0\_45 or newer). Download from <https://java.com/download> and install.

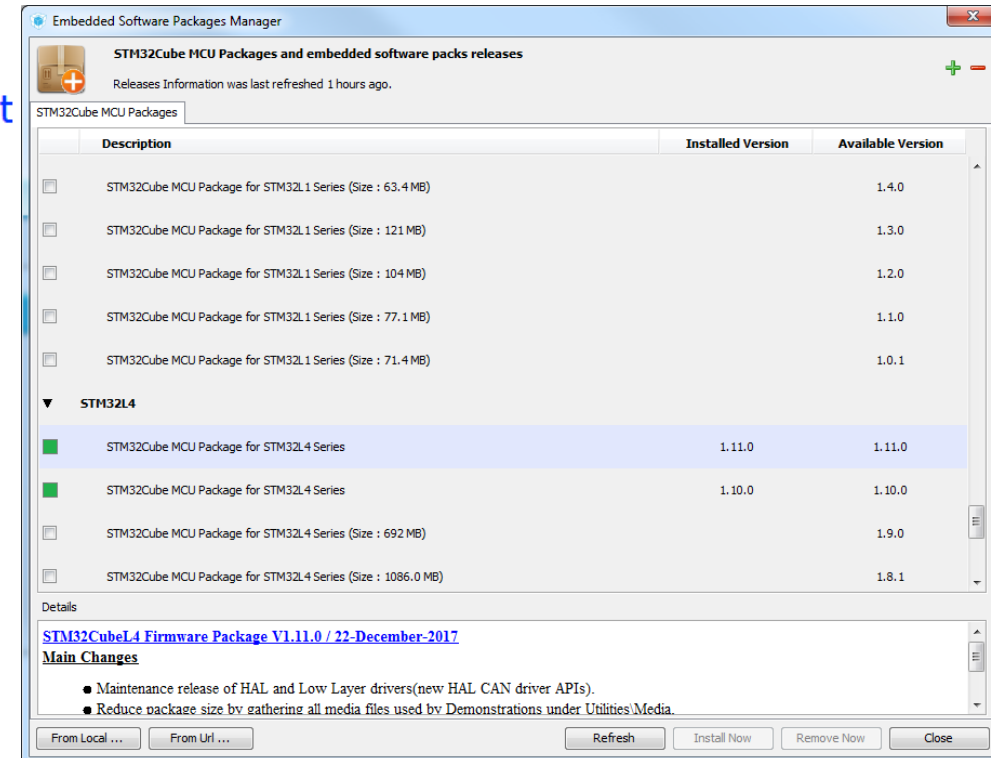
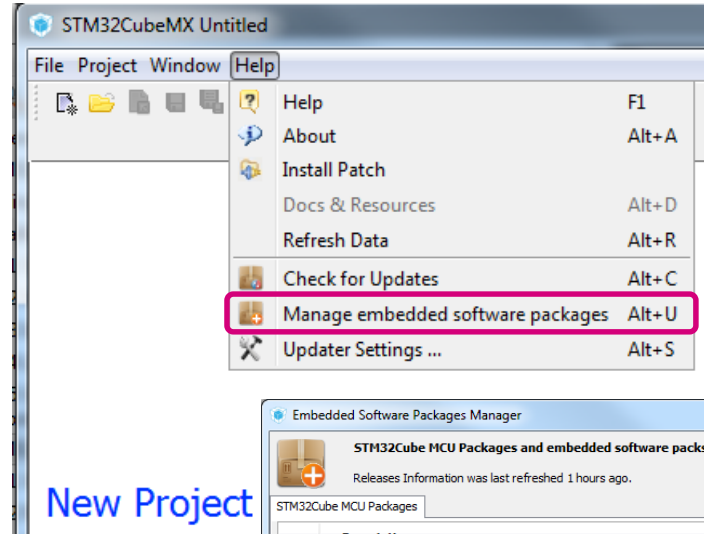




# Step 4: STM32CubeMX Installation

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- Important: The STM32CubeMX tool requires the latest STM32Cube MCU packages to be downloaded.
  - Download latest firmware library packages by launching STM32CubeMX and selecting Help -> Manage embedded software packages
  - Make sure to download and install the latest "STM32Cube MCU Package for STM32L4".
- Confirm that the libraries are downloaded. Files should be in the Repository folder.
  - Help->Updater Settings->Repository folder:  
Default:  
C:/Users/"username"/STM32Cube/Repository



- ☐ Download, install Atollic TrueSTUDIO
- ☐ Download and install STM32CubeMX
- ☐ Download and install STM32Cube MCU Package for STM32L4
- ☐ Download and install STM32 STLink Utility
- ☐ Download and install ST-Link V2.1 drivers