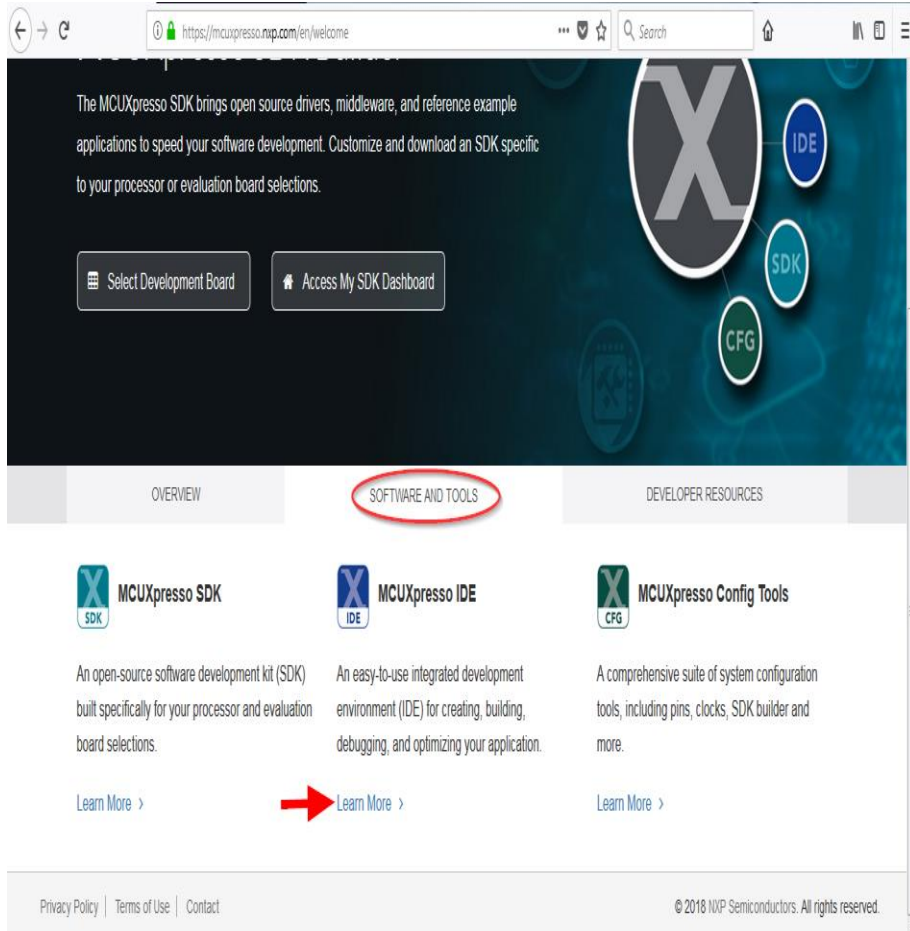


MCUXPRESSO IDE

- Download and Install
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 - Import an MCUXpresso SDK Example
- IAR Download and install



mcuxpresso.nxp.com



The MCUXpresso SDK brings open source drivers, middleware, and reference example applications to speed your software development. Customize and download an SDK specific to your processor or evaluation board selections.

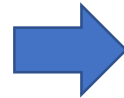
Select Development Board | Access My SDK Dashboard

IDE | SDK | CFG

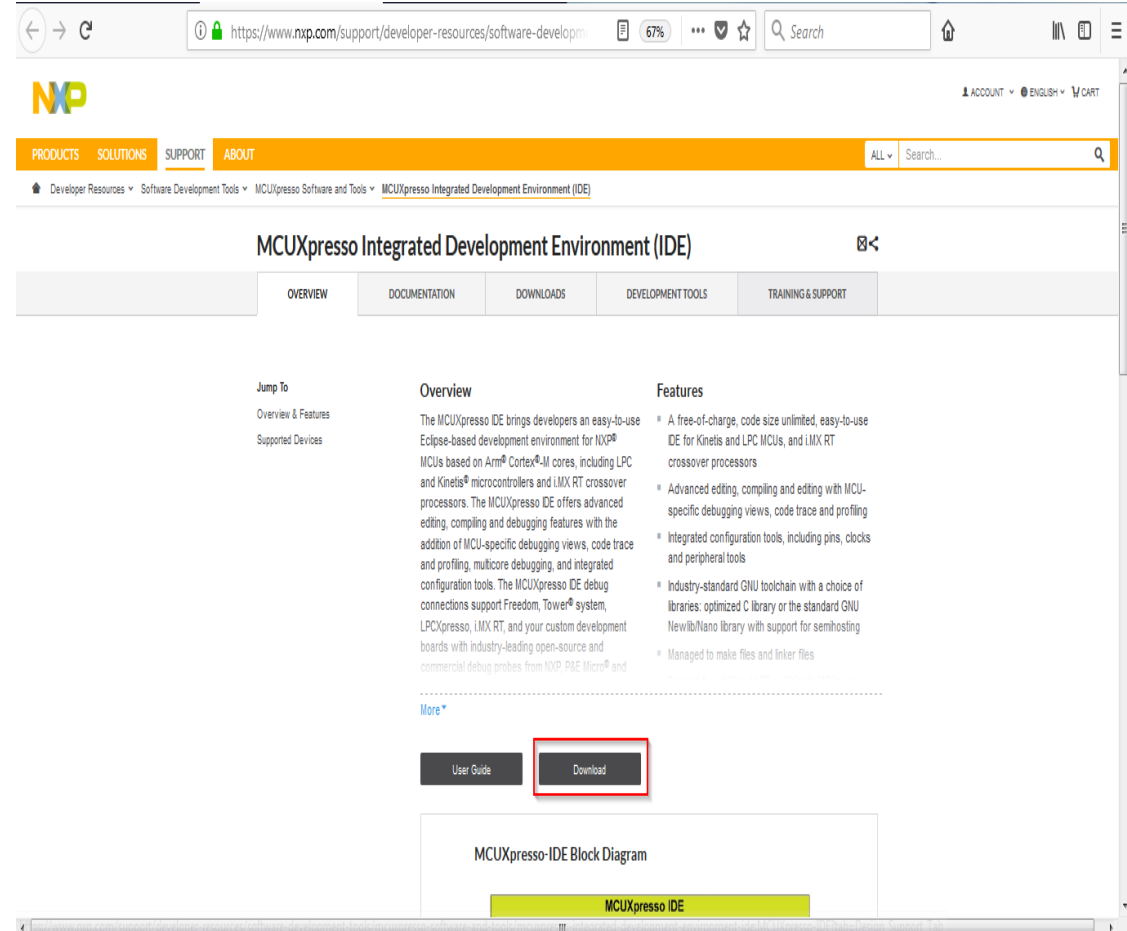
OVERVIEW | **SOFTWARE AND TOOLS** | DEVELOPER RESOURCES

- MCUXpresso SDK**
An open-source software development kit (SDK) built specifically for your processor and evaluation board selections.
Learn More >
- MCUXpresso IDE**
An easy-to-use integrated development environment (IDE) for creating, building, debugging, and optimizing your application.
Learn More >
- MCUXpresso Config Tools**
A comprehensive suite of system configuration tools, including pins, clocks, SDK builder and more.
Learn More >

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www.nxp.com/mcuxpresso/ide



NP

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Developer Resources | Software Development Tools | MCUpresso Software and Tools | **MCUXpresso Integrated Development Environment (IDE)**

MCUXpresso Integrated Development Environment (IDE)

OVERVIEW | DOCUMENTATION | DOWNLOADS | DEVELOPMENT TOOLS | TRAINING & SUPPORT

Jump To
Overview & Features
Supported Devices

Overview
The MCUXpresso IDE brings developers an easy-to-use Eclipse-based development environment for NXP MCUs based on Arm Cortex-M cores, including LPC and Kinetis microcontrollers and iMX RT crossover processors. The MCUXpresso IDE offers advanced editing, compiling and debugging features with the addition of MCU-specific debugging views, code trace and profiling, multicore debugging, and integrated configuration tools. The MCUXpresso IDE debug connections support Freedom, Tower system, LPCpresso, iMX RT, and your custom development boards with industry-leading open-source and commercial debug probes from NXP, PSE Micro and

Features

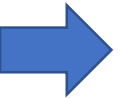
- A free-of-charge, code size unlimited, easy-to-use IDE for Kinetis and LPC MCUs, and iMX RT crossover processors
- Advanced editing, compiling and editing with MCU-specific debugging views, code trace and profiling
- Integrated configuration tools, including pins, clocks and peripheral tools
- Industry-standard GNU toolchain with a choice of libraries: optimized C library or the standard GNU Newlib/Nano library with support for semhosting
- Managed to make files and linker files

More *

User Guide | **Download**

MCUXpresso-IDE Block Diagram

MCUXpresso IDE



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<input type="checkbox"/>	+	MCUXpresso IDE 10.2.0 759 - Mac	719.6 MB	MCUXpressoIDE_10.2.0_759.pkg
<input type="checkbox"/>	+	MCUXpresso IDE 10.2.0 759 x86-64 - Linux	752.1 MB	mcuxpressoide-10.2.0_759.x86_64.deb.bin

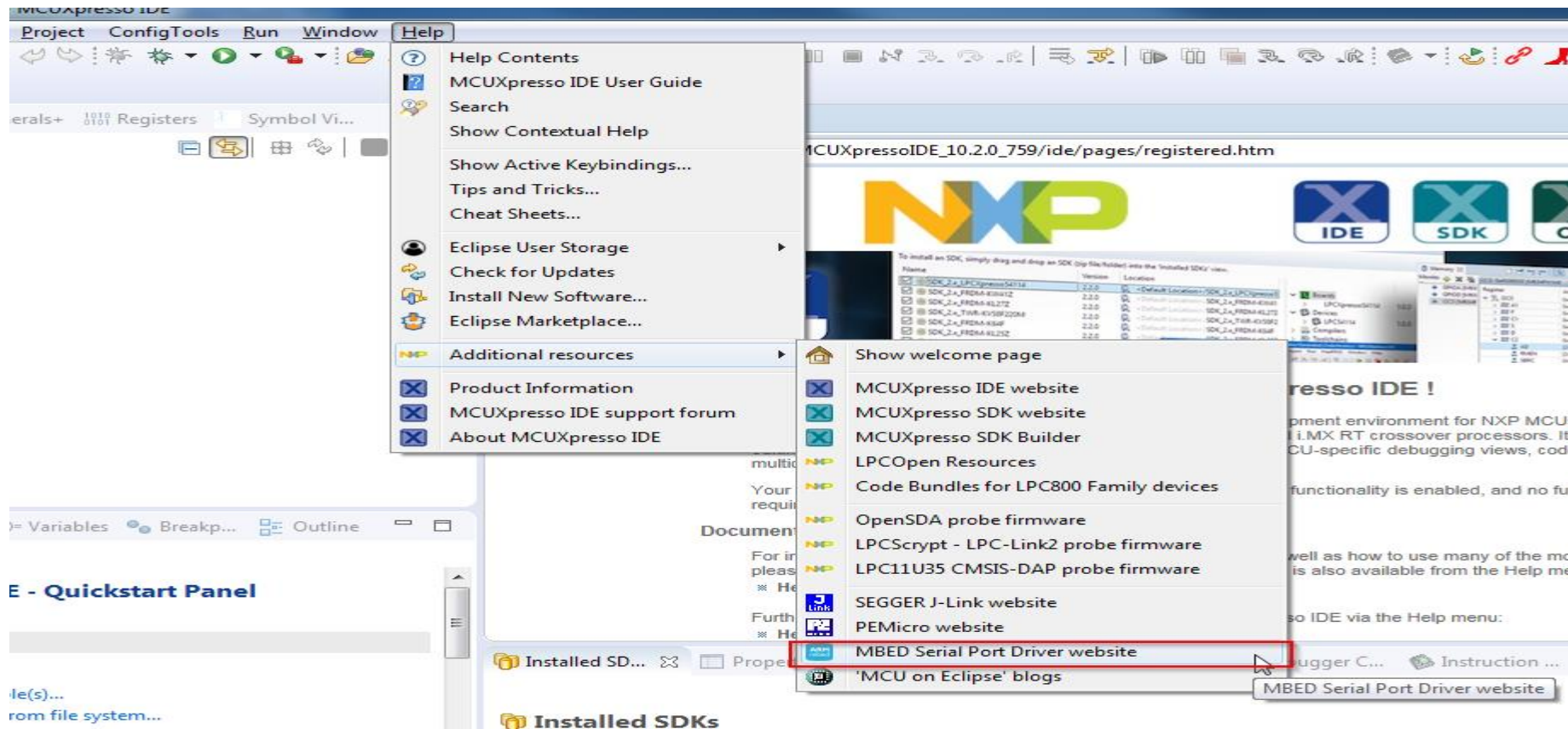
Download Selected Files

- After downloading the installer, install the MCUXpresso IDE on your PC which is similar to install other programs on the OS.



- After the installation has completed, in order to use i.MX RT1050 boards with OpenSDA mbed CMSIS-DAP debug connection and LPCXpresso Max boards, an mbed Serial Port driver is required. This can be downloaded via the IDE link at:

Help -> Additional Resources -> MBED Serial Port Driver Website



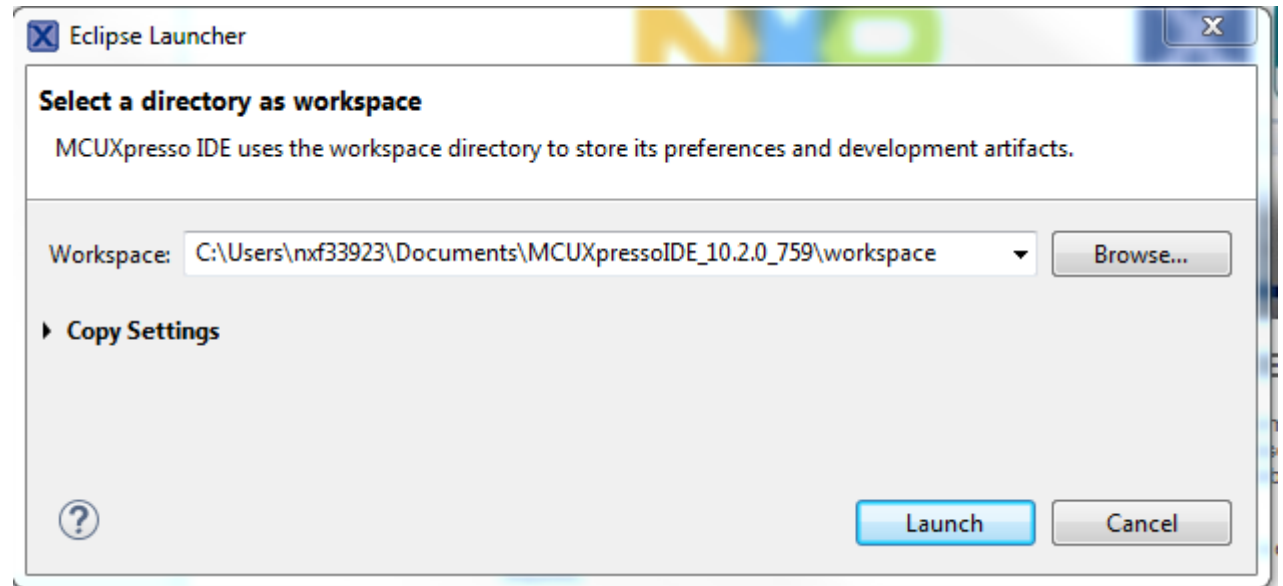
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Lunch MCUXpresso IDE

- Launch MCUXpresso IDE on your system.
- At the Launching dialog box, enter a location for your workspace or use the default location:
 - C:\Users\“user_name”\Documents\MCUXpressoIDE_10.2.0_759\workspace
- Then click Launch
- Note: A workspace is a directory used to store projects that you want to actively work on during the IDE session



Develop Perspective

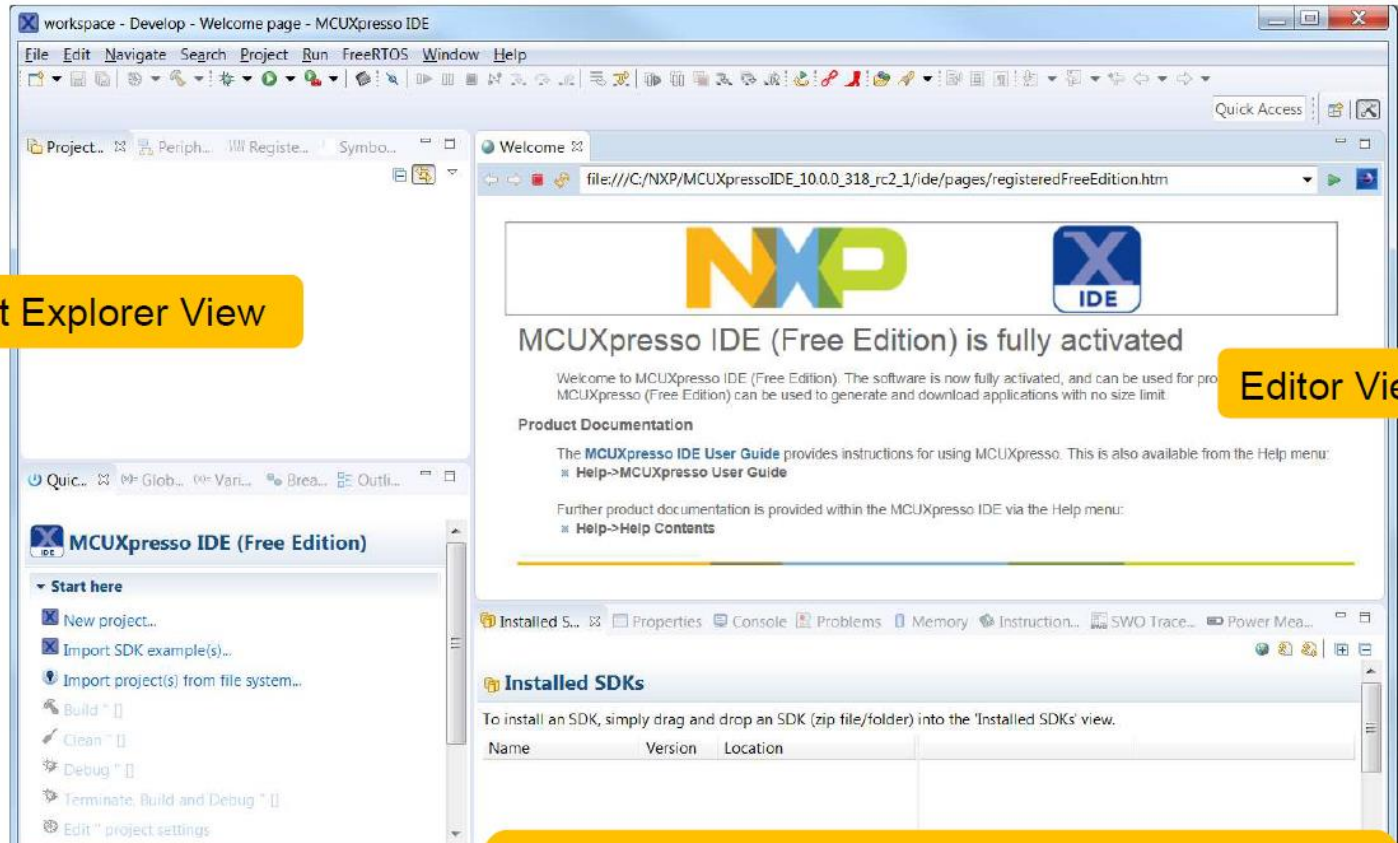
- MCUXpresso IDE will startup in a new workspace with no projects in the Develop Perspective for the first time.
- A “perspective” is a collection of different “views”
- The Develop perspective provides a single combined project management and debugging view

Project Explorer View

Editor View

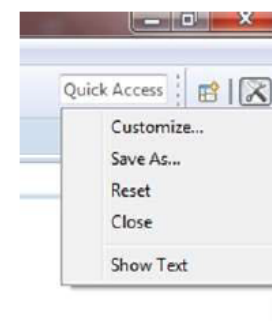
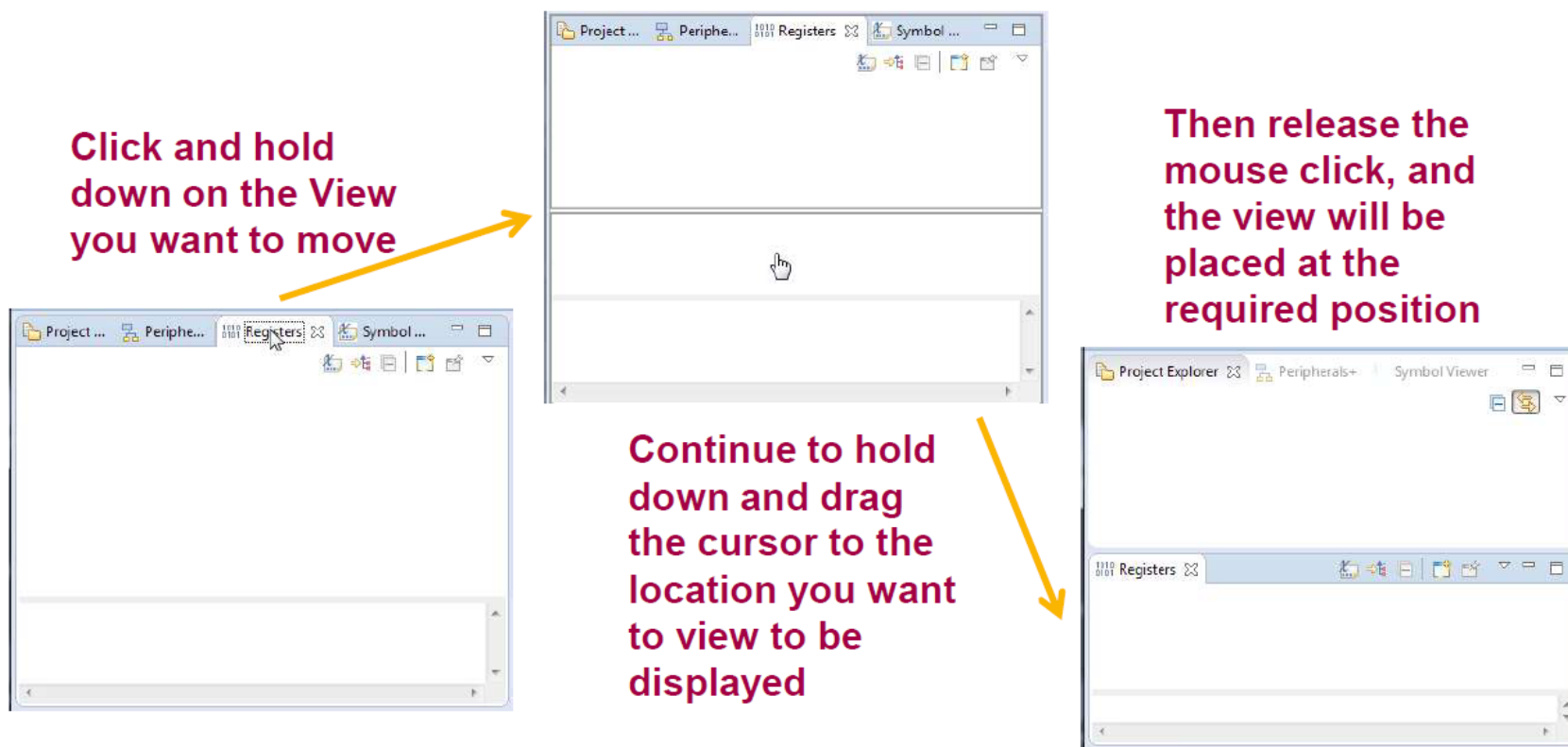
Quickstart Panel View

Installed SDK / Properties / Console / Problems / Memory / Trace Views / Power Measurement ...



Changing the Layout of the Develop Perspective

- Layout of views within a perspective can be tailored to meet your personal needs
- For example, if we wanted to have the Registers view always visible...

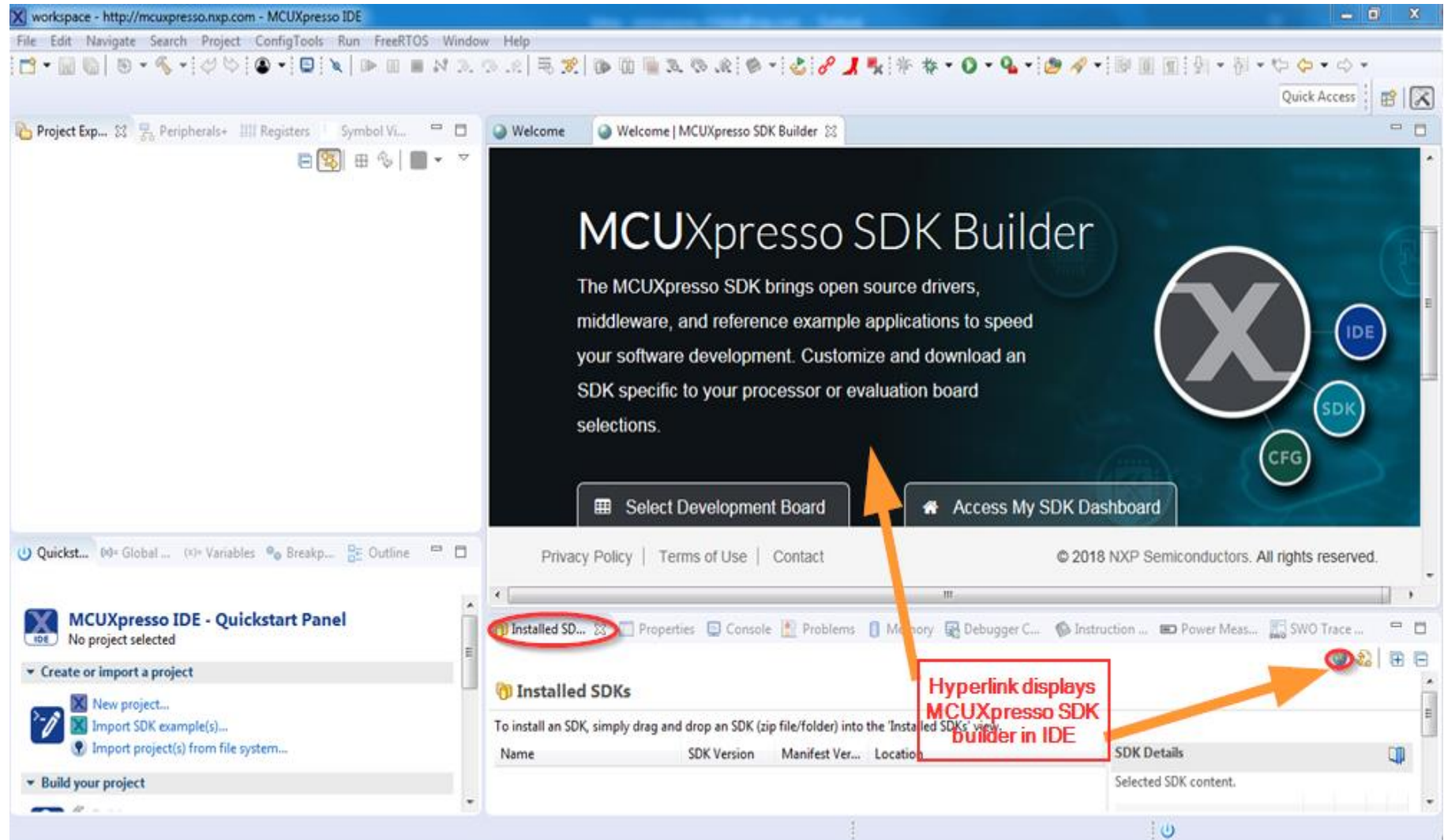


Right click on the Perspective button (top right of IDE window) to reset the layout back to the default



Install an SDK into the IDE

- Part support is added by installing MCUXpresso SDKs into the IDE
- Allows example projects and driver examples from SDK to be easily imported
- New project generation based on board or processor in SDK
- The IDE is only compatible with SDKs built for MCUXpresso

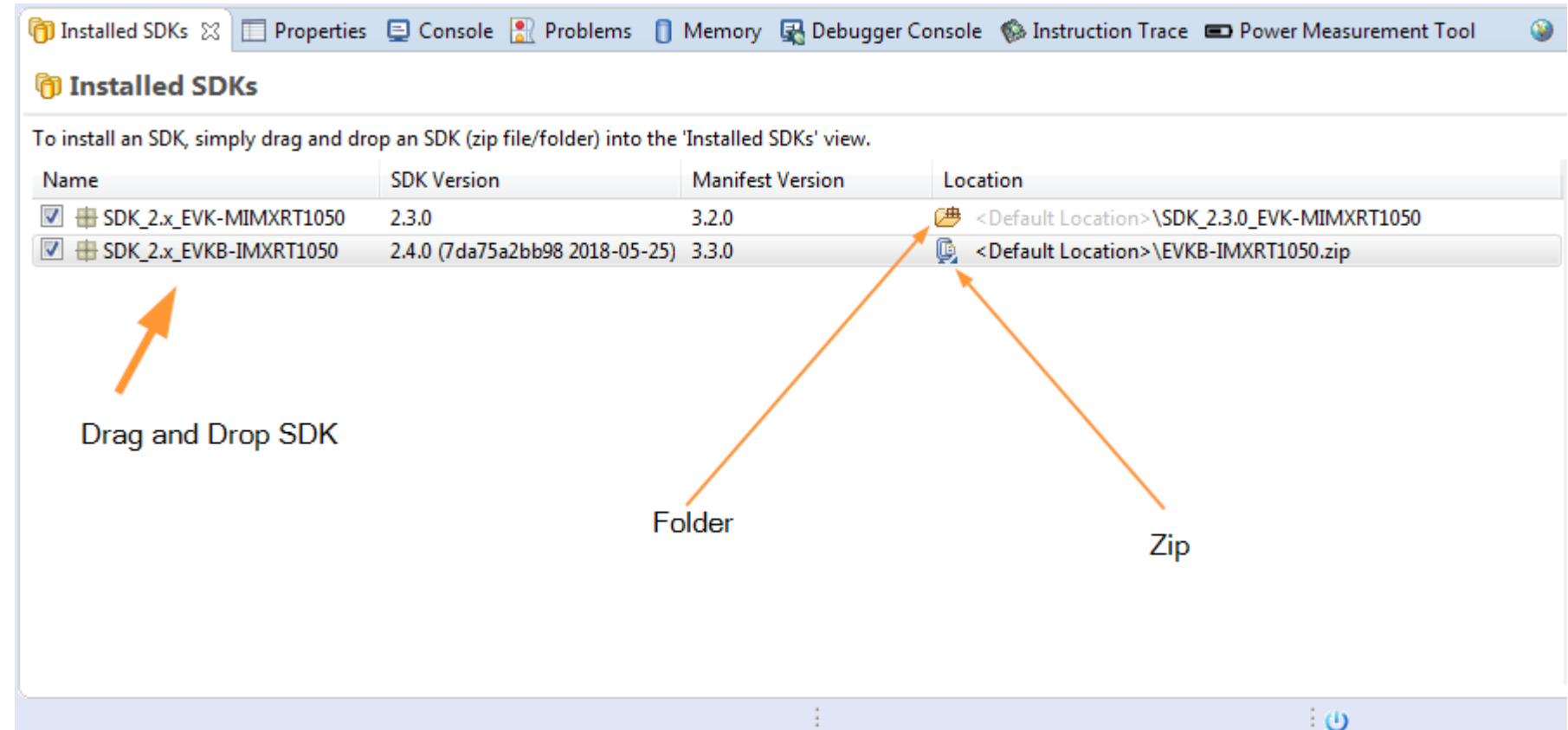


- Drag/Drop SDK packages directly into the IDE in the Installed SDKs view.

- Or right click in the Installed SDKs view, then click on the “Import archive”/ “Import folder” in the pop up menu.

- Can install SDK as folder or zip (archive). IDE uses separate icon for each type

- SDK is installed in the default location are shared across workspaces.



Zip or Unzip an SDK package

- SDK packages are downloaded as .zip files
- When using 3rd party IDEs, the SDK package must be unzipped
- For SDK support in the MCUXpresso Config Tools, the SDK package must also be unzipped

- MCUXpresso IDE can import SDK packages in either zipped or unzipped format.
 - Zipped SDKs:
 - When creating new projects or importing example projects, SDK source files are copied into the workspace (no linked references).

 - Unzipped SDKs:
 - When creating new projects or importing example projects, SDK source files can be copied into the workspace or referenced directly (linked references).
 - Requires additional time to unzip (one-time).
 - Provides speed improvement when many examples are imported to the workspace.



Copy of SDK made in default path

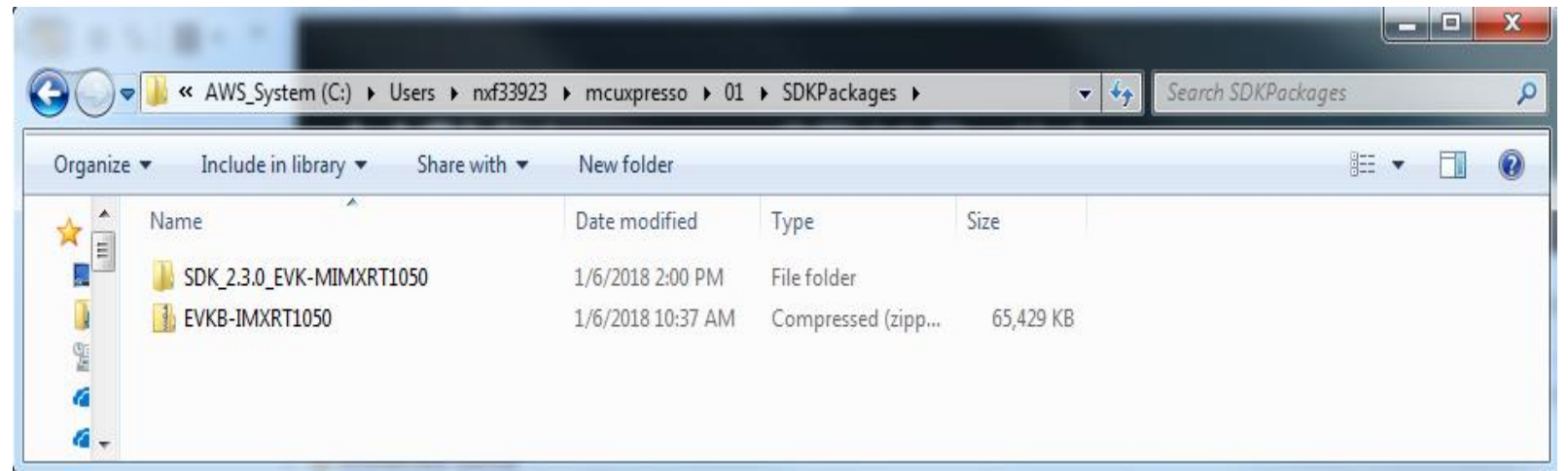
- What happens when an SDK is dragged/dropped into the IDE?

- The installation operation creates a copy of the SDK located at default path:
C:\Users\“user_name”\mcuxpresso\01\SDKPackages

Installed SDKs

To install an SDK, simply drag and drop an SDK (zip file/folder) into the 'Installed SDKs' view.

Name	SDK Version	Manifest Version	Location
<input checked="" type="checkbox"/> SDK_2.x_EVK-MIMXRT1050	2.3.0	3.2.0	<Default Location>\SDK_2.3.0_EVK-MIMXRT1050
<input checked="" type="checkbox"/> SDK_2.x_EVKB-IMXRT1050	2.4.0 (7da75a2bb98 2018-05-25)	3.3.0	<Default Location>\EVKB-IMXRT1050.zip



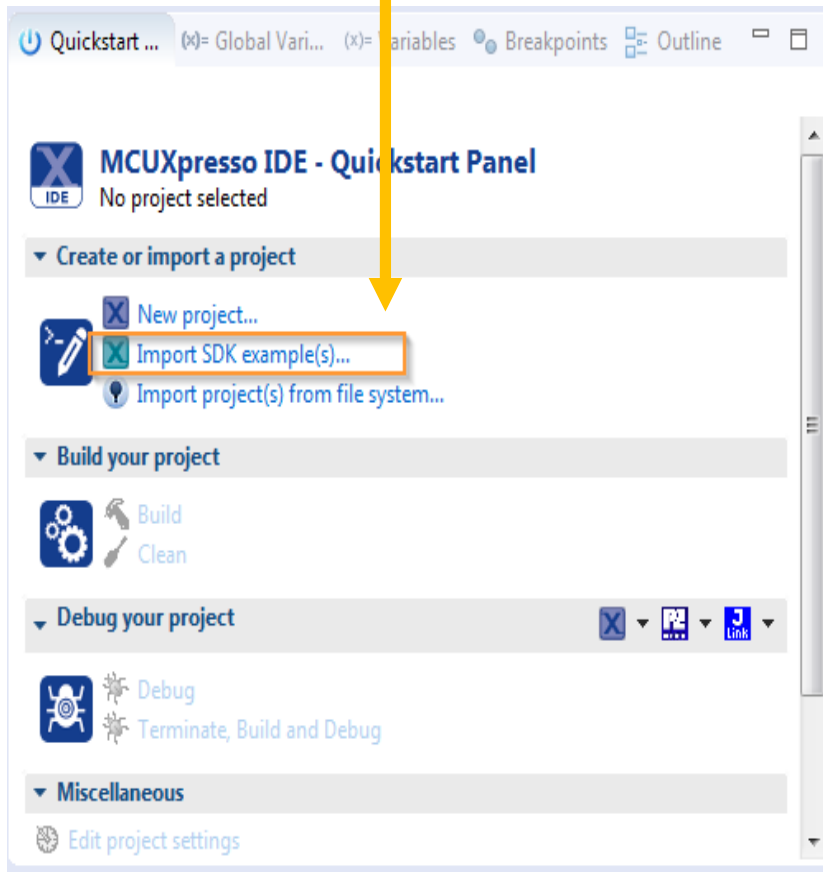
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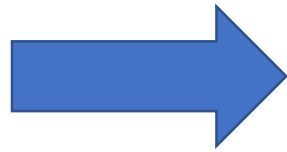


Import an MCUXpresso SDK Example into the workspace

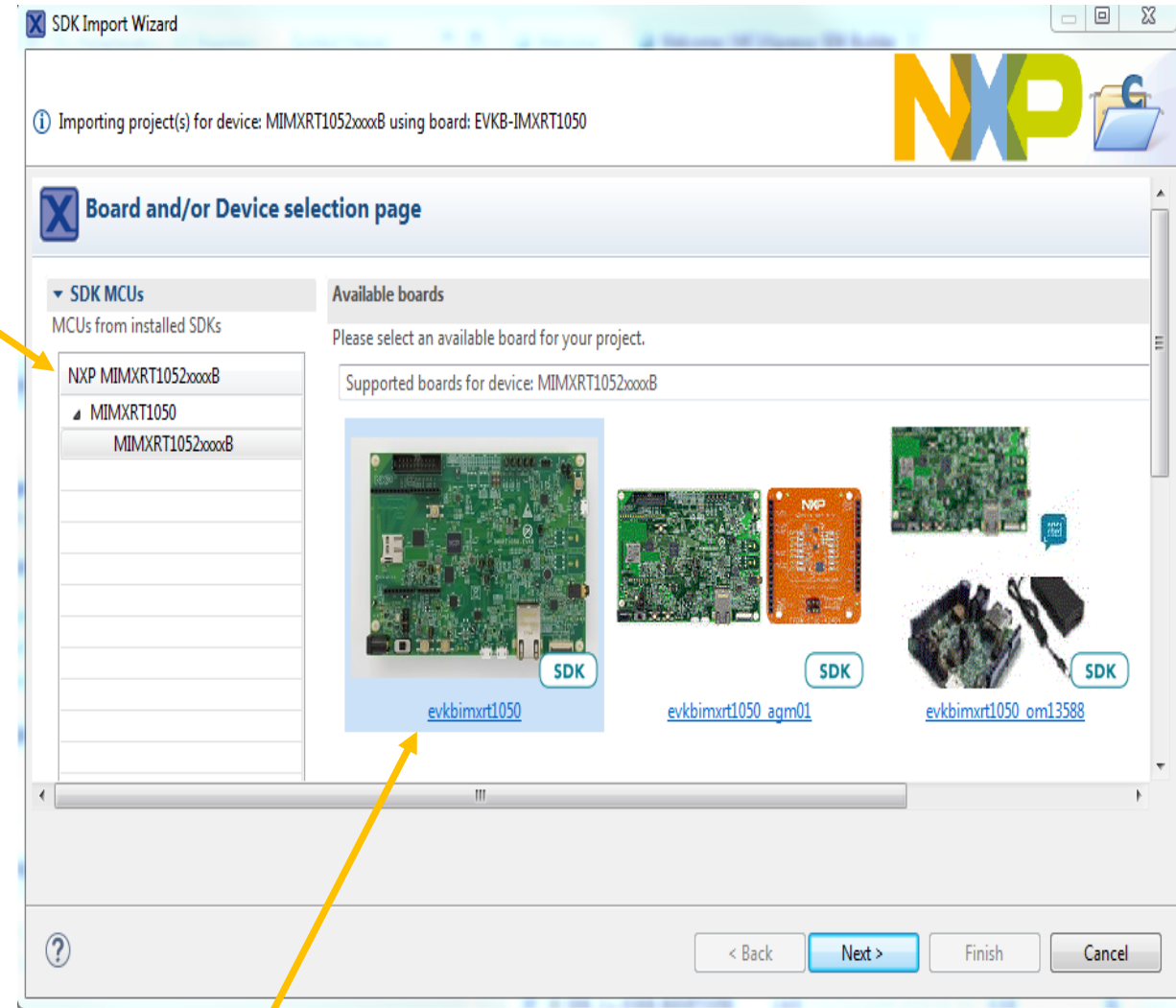
1. Click "Import SDK examples..." from Quickstart panel



Processors from installed SDKs



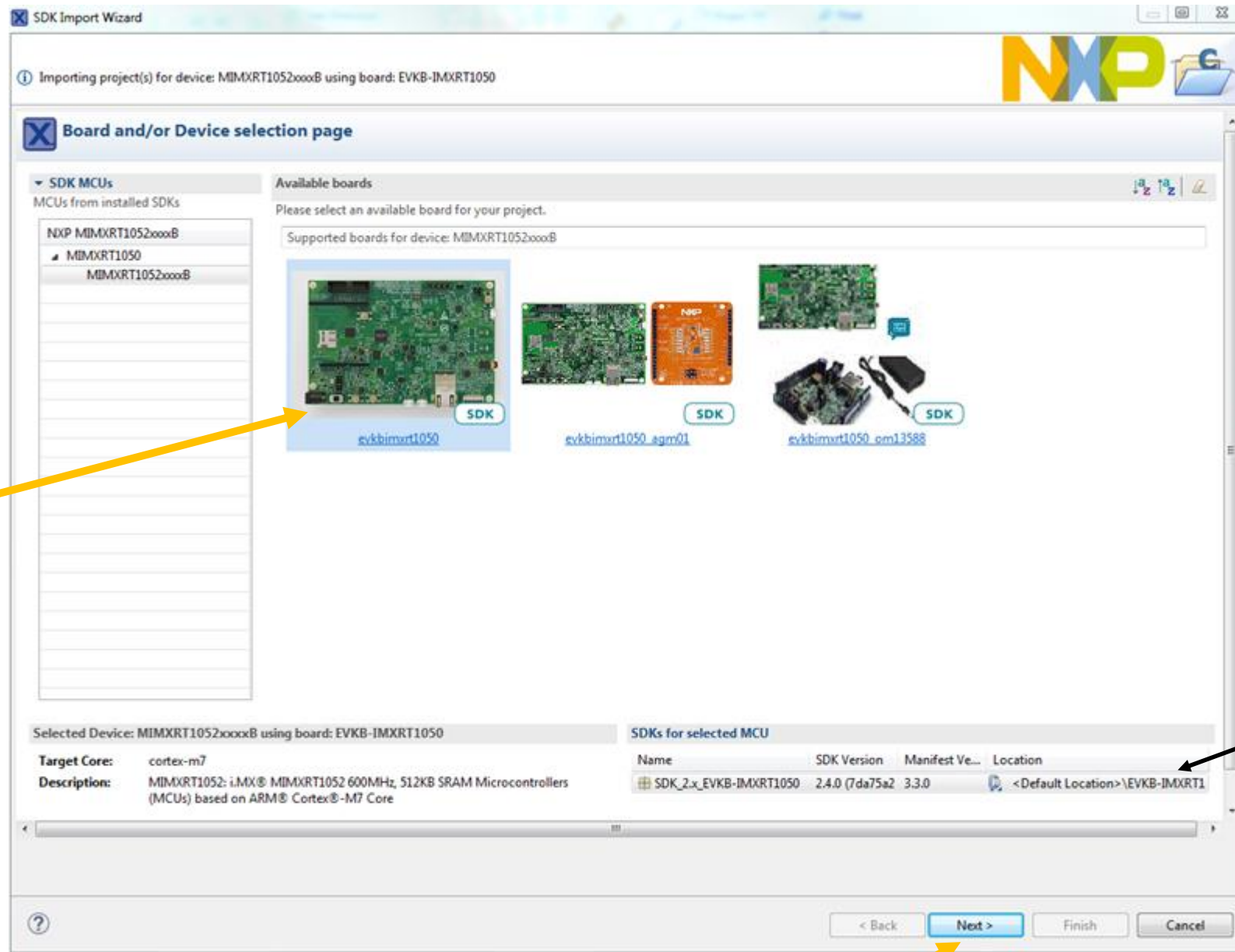
Opens SDK Import Wizard



Boards from installed SDKs and preinstalled i.MX RT1050 boards

Note: SDK examples are board specific





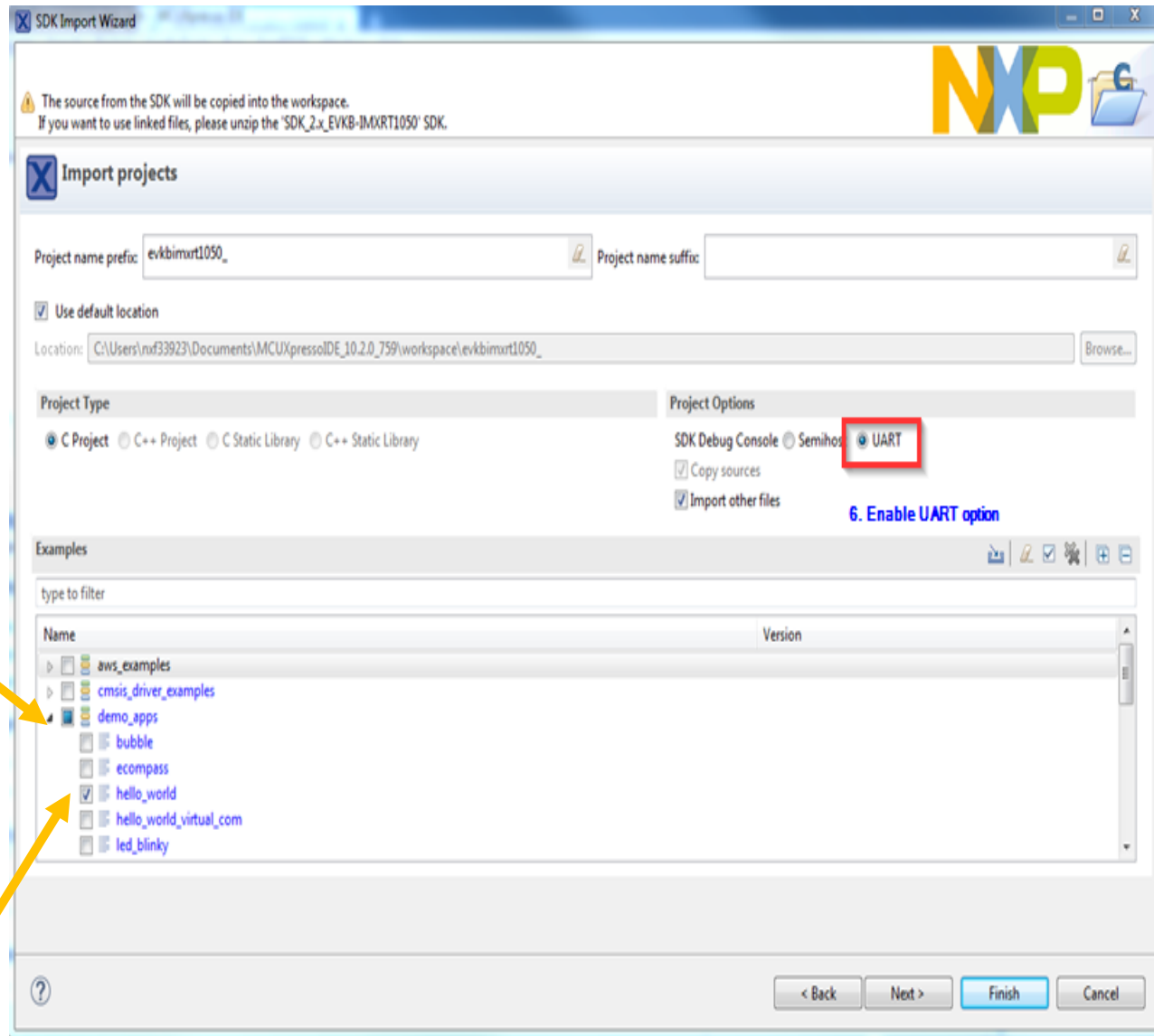
2. Click on board image to import an SDK example

Installed SDK for selected board

3. Select Next to continue



SDK Example Import Wizard

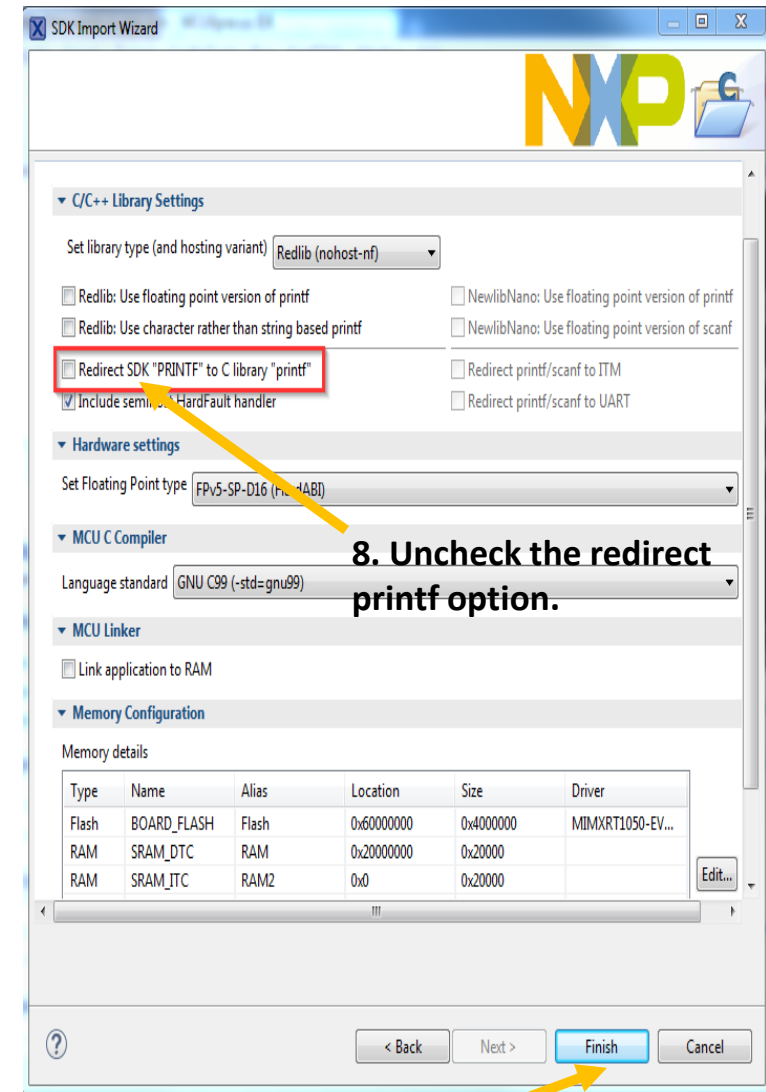
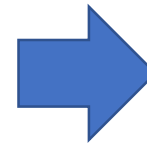


4. Expand examples

5. Select hello_world project

7. Click Next

6. Enable UART option



8. Uncheck the redirect printf option.

9. Click Finish



Download and install Tera Term and mbed serial driver for Serial Port(UART) Connection

Download links :

<https://osdn.net/projects/ttssh2/releases/>

http://developer.mbed.org/media/downloads/drivers/mbedWinSerial_16466.exe

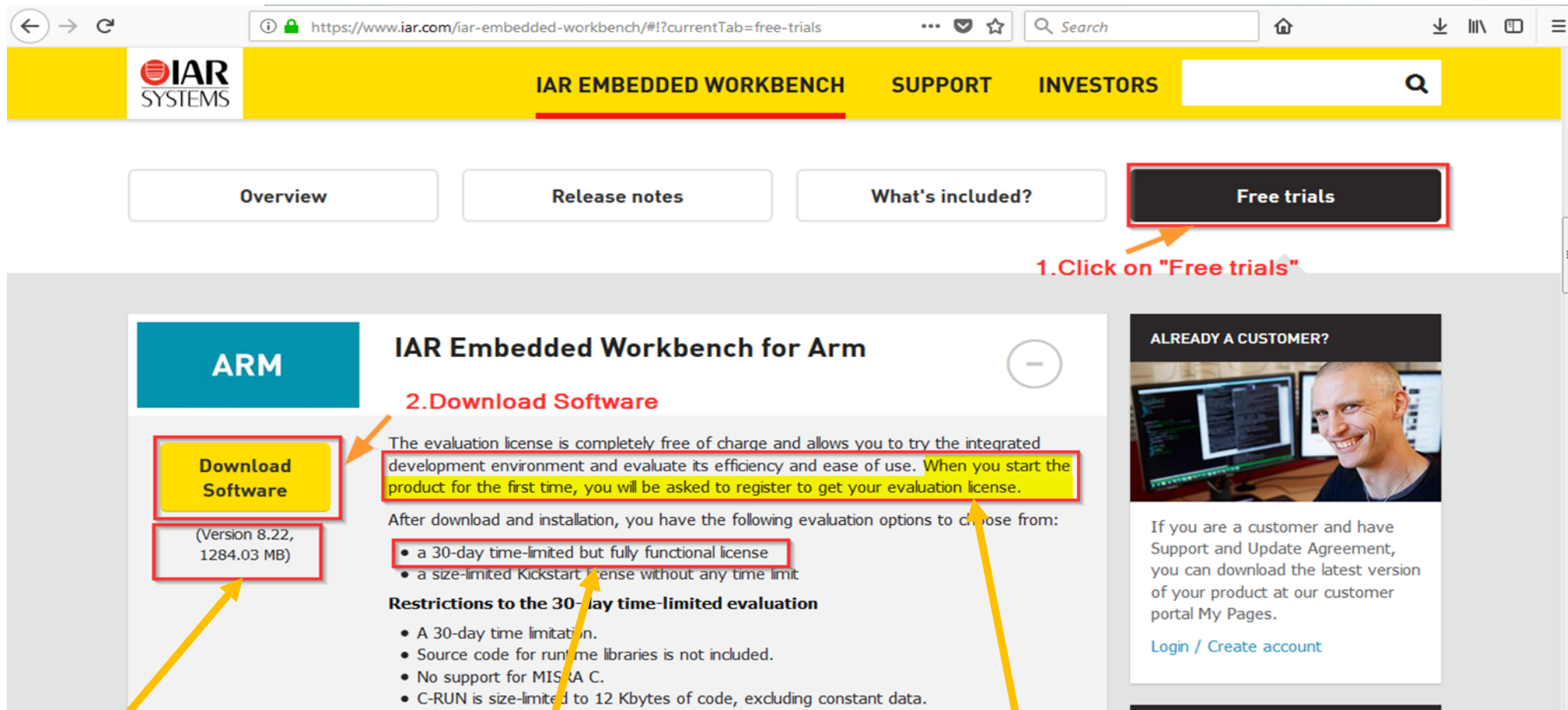


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Go to this link <https://www.iar.com/iar-embedded-workbench/#!?currentTab=free-trials>



Look for version 8.22

Choose 30-day license

Register to get your evaluation license, active this license on IAR IDE after installation



NOTE:

- IAR works on Windows version only, So I would like to request you to bring Windows laptops for training.
- Please install IAR 8.22 and activate the evaluation license on or after 20th June, It avoids license expire before training.
- To get your IAR evaluation license, Please use the new email id to register if you used it before.

