How to install the Yocto Project SDK in STM32CubeIDE

Contents

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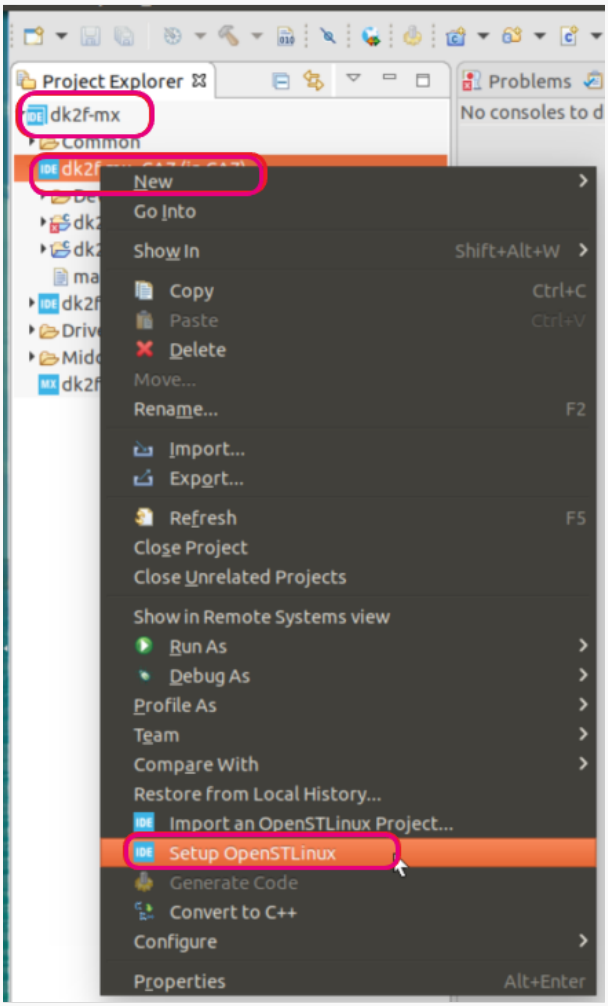
A quality version of this page, approved on *23 November 2021*, was based off this revision.

This article explains the way STM32CubeIDE is managing the Yocto Project® SDK provided by OpenSTLinux.

1 Overview

From STM32CubeIDE release 1.4.0 on **Linux® host ONLY**, STM32CubeIDE supports OpenSTLinux projects and its associated Yocto Project® SDK. Inside STM32CubeIDE, this support means two new Eclipse® plugins (SDK & Sources) to be installed, directly from the embedded CA7 project menu context:

- *Setup OpenSTLinux*
- *Import an OpenSTLinux Project...*

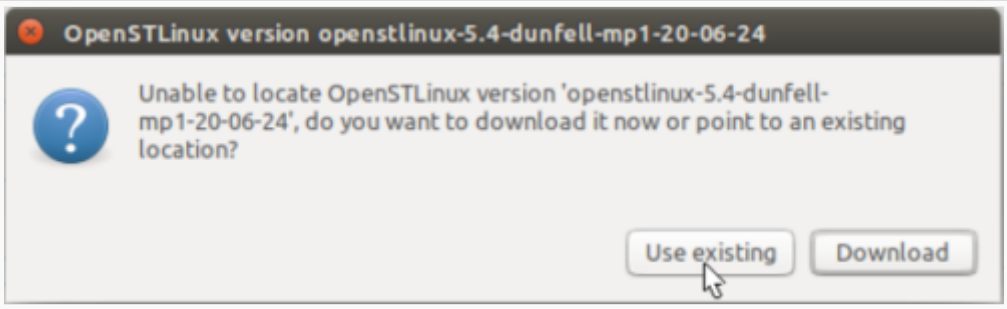


OpenSTLinux Contextual Menu

Two flavors are proposed for installing the Yocto Project® SDK:

- Yocto SDK is already installed on the host workstation, typically after a download of the STM32MP1 OpenSTLinux Developer Package. In that case, only a setup is needed for STM32CubeIDE to use it.
- Yocto SDK is not present on the host workstation. It can be installed via STM32CubeIDE.

The choice is proposed after the ***Setup OpenSTLinux*** menu, selecting *Use existing*.

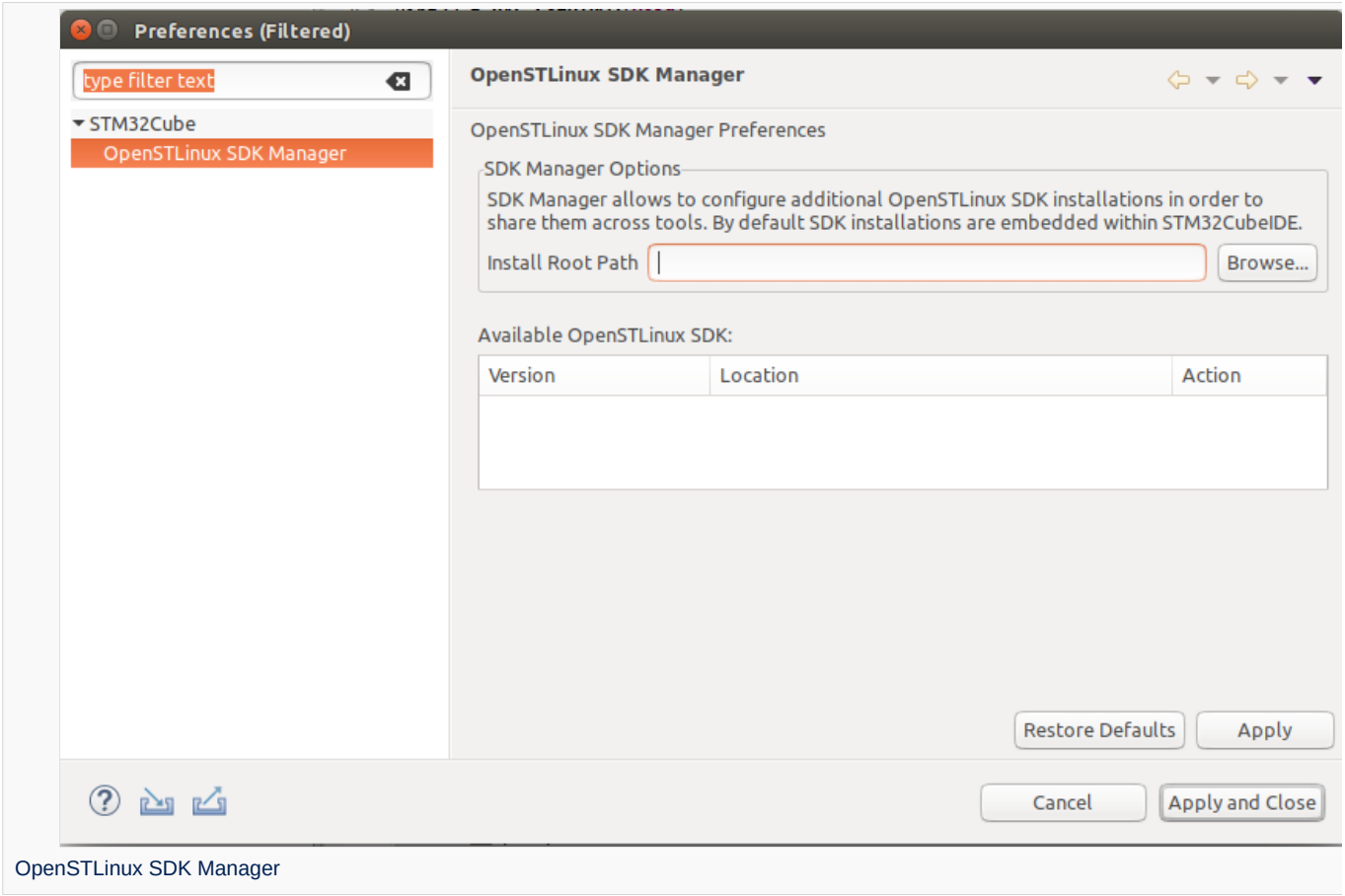


OpenSTLinux SDK Installation Menu

Note that setup OpenSTLinux phase includes also download and installation of **OpenSTLinux Sources** plugin.

2 Using already installed Yocto Project® SDK

You must provide the Yocto Project® SDK *Install Root Path* in the STM32Cube Preferences. Typically if using the default Developper pakage directory tree under : <working root directory >/Developer-Package/SDK.



OpenSTLinux SDK Manager

3 Installing Yocto Project® SDK via STM32CubeIDE

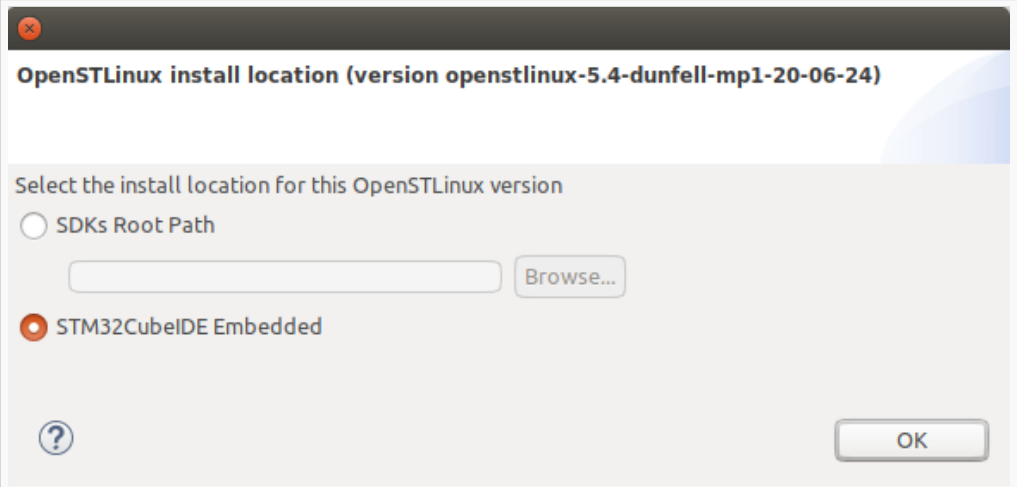
This corresponds to the *Download* choice where **OpenSTLinux SDK** plugin is installed. Note that missing OpenSTLinux required packages leads to unpredictable Yocto Project® SDK usage.

Warning

OpenSTLinux development requires specific packages on the host workstation. See PC_prerequisites.

It is then possible to install the Yocto Project® SDK as:

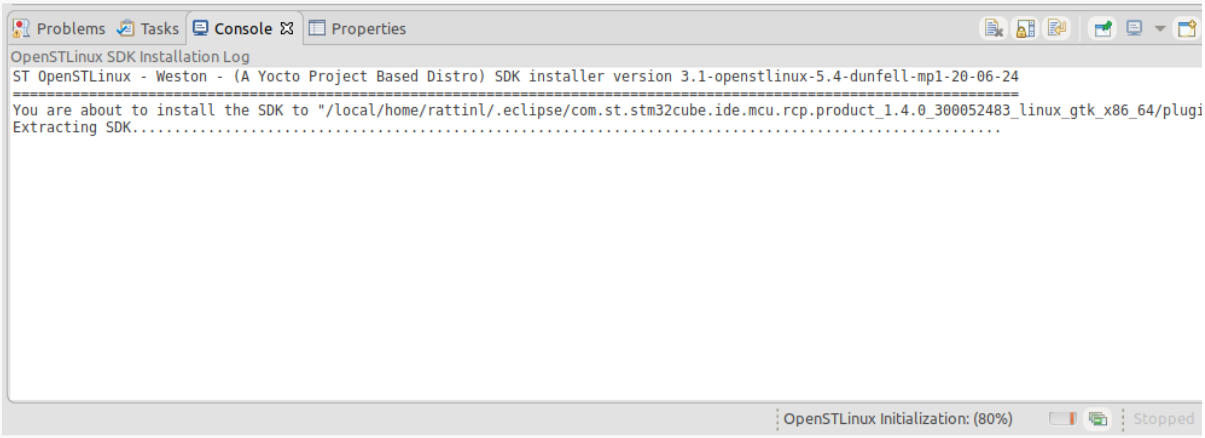
- ***external***, on the host workstation disk, outside STM32CubeIDE scope; Yocto SDK removal is under final user responsibility
- ***embedded*** inside the STM32CubeIDE; Yocto SDK removal is managed by STM32CubeIDE via plugin **OpenSTLinux SDK**



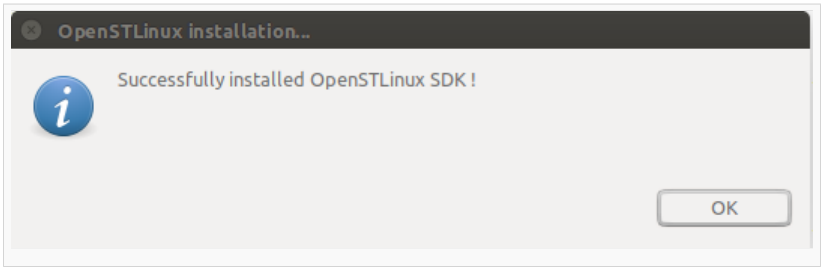
OpenSTLinux SDK Install Location

After accepting unsigned content installation warning, the Yocto Project® SDK installation script is launched and appears in an STM32CubeIDE console.

Installation Security Warning



OSTL SDK Install Script



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