Model-Based Design Toolbox

License Installation & Management Manual

An Embedded Target for S32K1xx Family of Processors Version 2018.R1

Target Based Automatic Code Generation Tools

For MATLABTM/SimulinkTM/StateflowTM Models working with Simulink Coder TM and Embedded Coder®



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1 Installation

License generation and installation is an important part of your first steps in getting up and running with the NXP's Model-Based Design Toolbox. Please follow the steps below to obtain a license and install it correctly on your machine. If you encounter issues getting a license, submit a ticket at http://www.nxp.com/support/sales-and-support:SUPPORTHOME describing the issue.

If you have already installed NXP's Model-Based Design Toolbox and need license, then perform the following steps.

NOTE

Guiding screenshots below have been taken for a release candidate of NXP's Model-Based Design supporting S32K1xx processor family since the final version was not yet published on the website at the time when this document was created.

However, the entire license registration and installation process for toolbox revision 2018.R1 will be identical with the one presented below.

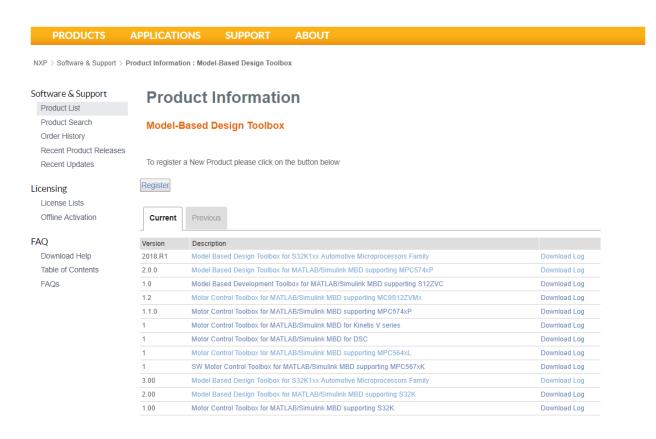
1. Go to www.nxp.com/mbdt

Model-Based Design Toolbox

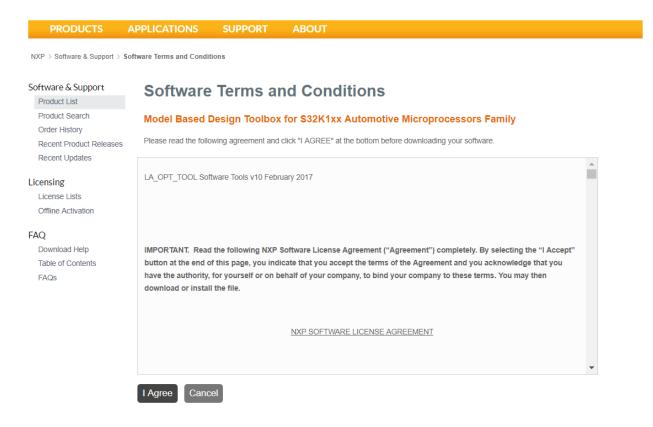
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		DOWNLOADS	DEVEL	OPMENT TOOLS	TRAINING & SUPPORT	
ump To	Overview		Features			
Overview & Features Supported Devices	The NXP's Model-Based Design Toolbox provides an integrated development environment and tool chain for configuring and generating all of the necessary software			 Generate code for standalone application with direct download to target support 		
arget Applications			9			
system Requirements	automatically (including initialization routines and device drivers) to execute complex applications (e.g.: motor			 Optimized motor control library blocks including Park/Clarke transforms, digital filters, and general functions 		
	control algorithms, communication protocols CAN, SPI, I2C, UART and sensor based applications) on NXP MCUs. The toolbox includes integrated Simulink® C embedded				ng CAN, SPI, PIT timer, Sine Wave ter, PWM and A/D.	
			boddod	 On-target profiling 	g of functions and tasks	
	target for NXP MC	MCUs, peripheral device blocks and and Motor Control library set and bit-		 Data acquisition a tool 	and calibration using FreeMASTER	
		on results and provides built-in		 Boot loader utility 	for programming application in flas	
	More ▼					

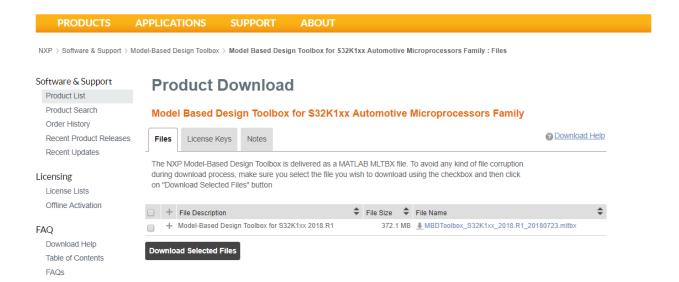
- 2. Click on "Download Eval"
- 3. Login. If not registered yet, click register.



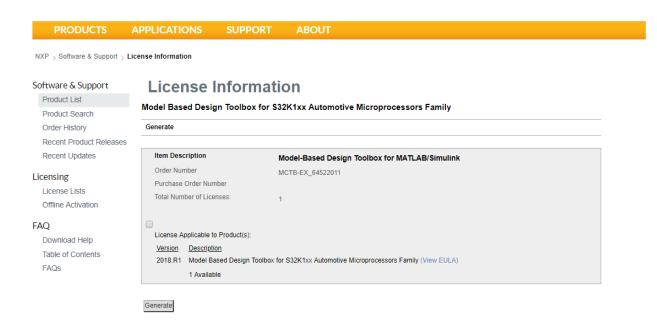
4. In the Product Information page, click on "Model Based Design Toolbox for S32K1xx Automotive Microprocessor Family" version 2018.R1.



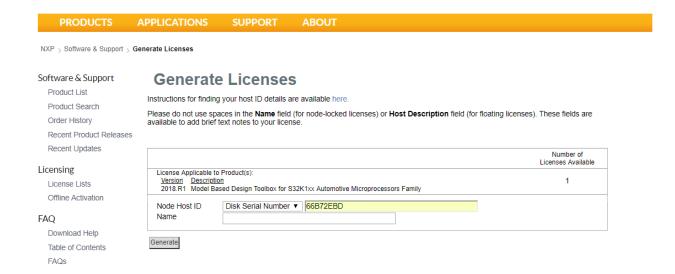
5. Click "I Agree" to consent to the software license agreement.



6. If you need to download the tool, select the checkbox in front of the file and use Download Selected Files button. Otherwise, click on "License Keys" tab.



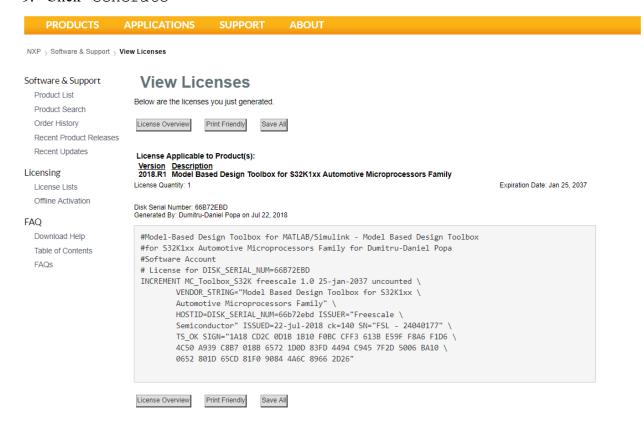
7. Verify if the correct toolbox version is identified and then check the box and click on "Generate" button.



8. Select Disk Serial Number or Ethernet address as the "Node Host ID". If you do not know your Disk Serial Number nor the Ethernet address then go to Locating the Node Host ID to learn how to locate such information, which is needed to generate the license. There is also a link available on this page with details about License Generation.

Enter a name for license to help managing them in case you need to use the Vision Toolbox on multiple computers. (Optional)

9. Click "Generate"

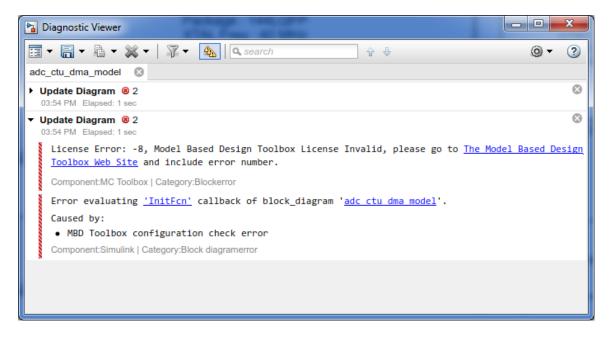


- 10. Either click on "Save All" or copy and paste the file into a text editor, and save the file as "license.lic" or "license.dat" to the "{Toolbox installation directory}\lic" folder.
- 11. License installation is now complete.

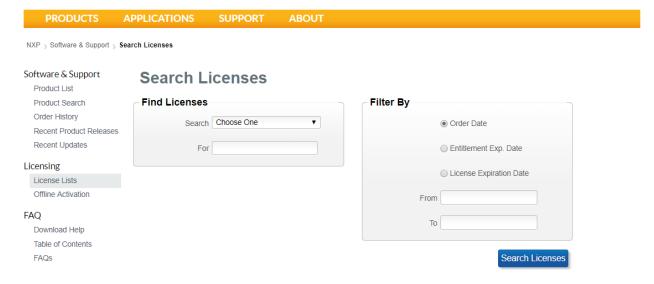
2 License Troubleshooting

A list of most common errors can be found here.

If you get an error while using NXP's Model-Based Design Toolbox indicating a problem with the license, you can try to repair the license at www.nxp.com/mbdt.



- 1. Go to www.nxp.com/mbdt and login.
- 2. Select "Software Licensing and Support\License List" to bring up a listing of your purchased licenses



3. Select the one for which you are experiencing the issue.



- 4. Now you have a choice. If the error was due to incorrect Host ID, click on the "Return" button. If the error was due to a corrupted license file, click the "Details" button.
 - a. If you clicked "Return", then you will have the opportunity to re-register the license for a new Host ID.
 - b. If you clicked "Details" then you will have the opportunity to re-save the license file to your PC.

If this fails to resolve your issue, see License Failure.

3 License Failure

If you followed the steps under <u>License Troubleshooting</u>, and this did not solve your issue, then there is some other problem occurring. Should this happen, submit a ticket at http://www.nxp.com/support/sales-and-support:SUPPORTHOME and provide the Host ID and any license error code that is provided in the error window.

4 Locating the Host ID

If the Disk ID is used for the Node Host ID then, there are some different ways to obtain this:

A. From MATLAB Command

- 1. Open MATLAB
- 2. In Command Window, enter "mbd_s32k_hostid".
- 3. The Host ID is returned in case no valid license was found

B. From DOS Command

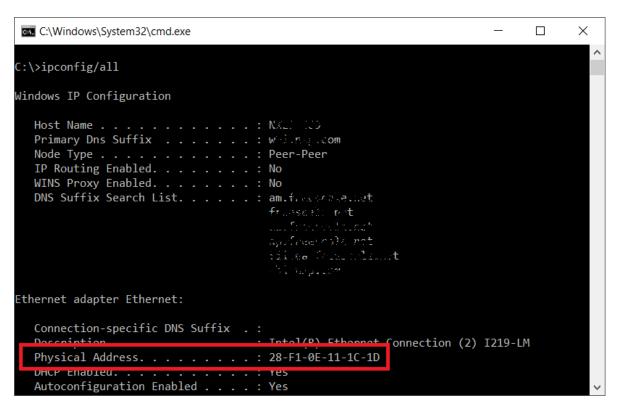
- 1. Open CMD Prompt on the HDD partition the NXP Model-Based Design Toolbox is installed
- 2. In CMD Prompt window, enter "vol c:"
- 3. Host ID is the value that follows Volume Serial Number



In this example, Host ID is: 66b72ebd (not case sensitive)

If the Ethernet address is used for the Node Host ID then follow these steps to obtain it:

- 1. In CMD Prompt window, enter "ipconfig/all"
- 2. Host ID is the value of the first Ethernet adaptor listed



In this example, Host ID is: 28F10E111C1D

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Web Support:

www.nxp.com/support

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