Using the MATLAB Distribution

This page provides important information for users of the Ice for MATLAB distribution.

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Overview of the Ice for MATLAB Distribution

Ice for MATLAB is available as a toolbox for MATLAB versions R2016a and R2017a. Each toolbox provides the following components:

- Ice library for MATLAB
- Standard Slice files
- Slice-to-MATLAB compiler (`slice2matlab`)

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Installing the Ice for MATLAB Distribution

Download the toolbox for your MATLAB version:

- Ice for MATLAB R2016a
- Ice for MATLAB R2017a

Now open MATLAB and navigate to the directory that contains the toolbox file. Double-click on the toolbox file to begin the installation.

Upon completion, MATLAB places the toolbox files in the Add-Ons directory specified in your Preferences settings. By default, this is a directory in your Documents folder.

You can manage the toolbox by choosing *Add-Ons / Manage Add-Ons*.

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Using Ice for MATLAB

The installation process automatically appends the add-on directories to your MATLAB path. The installation includes a MATLAB script named `slice2matlab` that you can use to easily run the Slice-to-MATLAB compiler from the MATLAB console. To verify that Ice is installed, try running the script:

```
>> slice2matlab -h
```

The Ice manual provides a complete description of the MATLAB mapping, including the options for generating MATLAB code from Slice definitions.

At a minimum, your application will need to load the Ice library by calling `loadlibrary` as follows:

MATLAB
`loadlibrary('ice', @iceproto)`

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Using the Sample Programs

Sample programs are provided in a separate GitHub repository. You can browse this repository to see build and usage instructions for all supported programming languages. Simply clone this repository:

```
git clone -b matlab https://github.com/zeroc-ice/ice-demos.git
cd ice-demos
```