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## Installation guide for the FSM Designer tool

Rev. 1.01 — 25 October 2010

Application note

### Document information

Info	Content
<b>Keywords</b>	Microcontroller, LPC, State Configurable Timer, SCT, FSM Designer
<b>Abstract</b>	Quick install guide for the graphical design tool for the State Configurable Timer, LPC microcontrollers.

#### Revision history

Rev	Date	Description
00.01	20101014	First draft
1.01	20101025	First release

## Contact information

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## 1. What is provided in the package

Under \Doc directory:

- This quick start guide and the FSM designer user manual

Under \examples:

- Several example projects, templates, and the tutorial (with solution files) for the FSM designer tool

Under \bin:

- fizzim.jar
- fzm2script.pl
- fzmparser.exe
- fsm.bat
- fzm\_install.reg

Under \source:

- source and build scripts for fzmparser.exe

## 2. Package description

### 2.1 Fizzim

The state machine drawing tool FIZZIM can be found on this website: <http://fizzim.com>.

The software is provided in the package as a precompiled Java file, under `\bin\fizzim.jar`

### 2.2 Perl script and C code generator

`\bin\fzm2script.pl` is a Perl interpreter script which is needed to translate the FSM graphical tool output for the C code generator input format.

`\bin\fzmparser.exe` is a C code generator which interprets the output of the FSM graphical tool and generates the corresponding C code for the SCT

### 2.3 FSM batch file

`\bin\fsm.bat` is a batch file which is used by the provided example projects, to create the SCT initialization files by invoking the C code generator on the SCT configuration diagram

### 2.4 FSM tool registry key

`\bin\fzm_install.reg` is a registry entry which is used during the installation process to register (associate) the file extension of the Fizzim tool drawings (.fzm) with the Fizzim tool. In this way it is possible to open the graphical editor by double clicking on any .fzm file you created

### 3. Before you install

#### 3.1 Perl

An installation of Perl is required on the Pc, but the Perl installer is not shipped in the package. You can download and install version 5.12.1 of the “ActiveState Perl community edition” here:

<http://downloads.activestate.com/ActivePerl/releases/5.12.1.1201/ActivePerl-5.12.1.1201-MSWin32-x86-292674.msi>

#### 3.2 Java runtime environment

SUN Java JRE 1.6.0 or later should be installed. Please visit <http://java.com/en/> for more information or to download.

.jar files should be associated with the Java Runtime Environment (normally done during JRE installation)

#### 3.3 Admin rights

You need to have local administrative rights on your Windows computer (needed for new registry entry)

### 4. Installation

#### 4.1 Copy the tools

Please copy all the files included within the *bin* directory to a folder of your choice. Note: it is recommended to use a directory which does not include white spaces in the path, like for example C:\npx\SCT

#### 4.2 Register the “.fzm” file extension in Windows

Open the *fzm\_install.reg* registry entry in an editor of your choice. Examine the [HKEY\_CLASSES\_ROOT\.fzm\shell\open\command] entry in the file and make sure it points to the actual directory path where you have installed the tools. The registry entry has been pre-configured to

```
@="javaw.exe -jar \"%1\"C:\npx\sct\bin\fizzim.jar" \"%1\""
```

Note: escape characters have to be used to specify the path, you need to indicate any directory level by using double slashes (“C:\my\_dir\my\_subdir\fizzim.jar”)

Once you have edited the file, save and close it, then double click on it to execute.

Windows should pop-up a notification message: “are you sure you want to add the information in C:\npx\sct\bin\fsm\_install.reg to the registry”? Press yes to accept.

Now it should be possible to open the fizzim editor by double-clicking on any .fzm file type.

#### 4.3 Done

Installation is complete, now you can start using the tool and have lots of fun!  
For more information on how to use it, please refer to the FSM designer user manual

## 5. Licenses

### 5.1 Fizzim

This is free software. Visit <http://fizzim.com> for details.

### 5.2 Perl

Currently we use a Perl package from ActiveState (<http://www.activestate.com>). The “community” version of this software can be used for free for commercial purposes.

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