


Configuring IBM Rational CM Synergy to use SimDiff

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Instructions

There are two high-level steps to configuring CM Synergy to use SimDiff:

1. Configure a CM Synergy file type for Simulink model files (`.mdl` files)
2. Configure `ccm.properties` to use SimDiff as the comparison and/or merge tool  for the Simulink model file type

These steps are detailed in separate sections below.

Please note - the instructions in this document are tailored toward CM Synergy version 7.2. Some steps may require a slightly different approach than other versions. In particular, the `ccm typedef` command and its options may be different.

Configuring a Simulink model file type

CM Synergy supports the creation of `file types` that enable type-specific behavior. To use SimDiff as a diff/merge tool for Simulink model files, a Simulink model file type must first be configured in CM Synergy. Below are our recommendations for the properties for the file type.

Property	Recommended Value	Notes
<code>name</code>	<code>mdl</code>	
<code>description</code>	Simulink model file	
<code>super_type</code>	<code>binary</code>	We recommend <code>binary</code> instead of <code>ascii</code> for the supertype because while <code>mdl</code> files are primarily ASCII encoding, they can contain binary data in some cases
<code>match_expression</code>	<code>^.*\.mdl\$</code>	This is a regular expression to match any file ending in <code>.mdl</code> . It may need to be altered depending on your needs. Files that match the regular expression will use this type by default when created. From the UI, this is specified using the <i>Modify Migrate Rules</i> option

Notes

*the user must be `ccm_admin` to create the `mdl` type

*to support the `slx` file format, simply repeat the instructions replacing `mdl` with `slx`

General information on creating file types can be found in the CM Synergy online documentation:

<https://www.ibm.com/docs/en/rational-synergy/7.2.1?topic=command-creating-type>

Information on regular expressions can also be found in the online documentation:

<https://www.ibm.com/docs/en/rational-synergy/7.2.1?topic=reference-regular-expressions>

Configuring ccm.properties

The sections below show how to configure `ccm.properties` to use SimDiff as a diff/merge tool. The instructions below assume a file type named `mdl`. Please substitute your own file type name if it is different. Also, the default installation location is assumed. Please substitute the installation location for your install of SimDiff if it is different. Note - at most one comparison tool and one merge tool can be configured for the file type. Possible combinations of the configurations below include:

- Configure SimDiff for comparison only
- Configure SimDiff for comparison and merge

Configuring SimDiff as a comparison tool

Add the following line to `ccm.properties`:

```
windows.tool.compare.mdl = "C:\\Program Files\\EnSoft\\SimDiff\\simdiff4.exe" -l "%file1" -r "%file2"
```

Configuring SimDiff as a merge tool

Add the following line to `ccm.properties`:

```
windows.tool.merge.mdl = "C:\\Program Files\\EnSoft\\SimDiff\\simdiff4.exe" -b "%ancestor" -l "%file1" -r "%file2" -o "%outfile"
```