

SimMerge, SimDiff Pro, and SimDiff LT Product Comparison

EnSoft makes three products that can difference Simulink models. SimMerge, SimDiff Pro, and SimDiff LT. The figure below gives a summary of each one. Followed by a detailed feature comparison table. Finally we have included a short discussion of 3-way vs 2-way merging and pricing information.

SimMerge	SimDiff Pro	SimDiff LT
<p>Diff Models</p>	<p>Diff Models</p>	<p>Diff Models</p>
<p>Merge Changes</p>	<p>Audit Changes</p> <p>Record user name, time, and comments for each change during an audit.</p> <p>Create audit receipt for regulatory or process compliance.</p>	<p>Essential and Inexpensive</p> <p>Same fast and accurate diff engine as SimDiff.</p> <p>Essential features only.</p>

Features	SimMerge	SimDiff Pro	SimDiff LT
Diff			
Simulink Diff	Yes	Yes	Yes
Stateflow Diff	Yes	Yes	Yes
TargetLink Support	Yes	Yes	Yes
Support for other Third Party Block Sets	Yes	Yes	Yes
List View	No	Yes	Yes
Tree View	Yes	Yes	Yes
2-way Diff	Yes	Yes	Yes
Subsystem Diff	No	Yes	Yes
Break Links	No	Yes	Yes

Features	SimMerge	SimDiff Pro	SimDiff LT
Merge			
Simulink Merge	Yes	No	No
Stateflow Merge	Yes	No	No
2-way Merge	Yes	No	No
3-way Merge	Yes	No	No
Conflict Detection	Yes	No	No
Dependency Aware	Yes	No	No
View Differences			
Highlight Colors	No	Yes	Yes
Flash Colors	Yes	Yes	Yes
Clear Colors	No	Yes	Yes
Window Management	Yes	Yes	Yes
Filtering			
Filtering Attributes	No	Yes	Yes
Live Search	Yes	Yes	Yes
Auditing			
Saving and Loading Diff File	No	Yes	No
Audit Number	No	Yes	No
Check-off	No	Yes	No
User/Date	No	Yes	No
Comment	No	Yes	No
Reporting			
XML Report	No	Yes	No
HTML Report	No	Yes	No
Highlighted Model Export	No	Yes	No
Repository			
Repository Command-Line API	Yes	Yes	Yes
ClearCase Integration Tool	Yes	Yes	Yes
ClearCase Version Selection	Yes	Yes	Yes
Other			
64-bit MATLAB Integration	No	Yes	No

Features	SimMerge	SimDiff Pro	SimDiff LT
Batch Processing API (not repository)	No	Yes	No
Auto detection of MATLAB Installations	Yes	No	No

3-way Merge vs 2-way Merge

A 3-way merge is more reliable than a 2-way merge because it tells the user how models were changed, not just how they differ.

For example, suppose the model to the right was modified by two users resulting in the two models below.

Original Model
A
B

A 2-way merge of the models just tells us what elements are the same and what element are different. Without examining the original there is no way of knowing if D was added to Model 1 or if D was deleted from Model 2. A user merging the two models may erroneously decide that user 2 deleted D and omit from the merged model.

Model 1	Model 2	
A	A	← same
B		← different
	C	← different
D		← different

In contrast a 3-way merge will examine the original model along with the two models to be merged to tell us how the models were changed.

Model 1	Model 2	
A	A	← same
B		← deleted
	C	← added
D		← added →

With this information it is straightforward to produce the merged model to the right.

Merged Model
A
C
D

Pricing

You can buy all of our products as either a named user or a node-locked perpetual license. A named user license allows a single user to install and use SimDiff on multiple computers. A node-locked license allows the software to run on a single computer.

The license includes one year of complimentary maintenance starting at the beginning of the next month. During the maintenance or subscription period you are entitled to all major and minor updates as well as e-mail support.

	Cost	Maintenance
SimMerge	\$1850	\$370/year
SimDiff Pro	\$1850	\$370/year
SimMerge + SimDiff Pro	\$2,775	\$555/year
SimDiff LT	\$1200	\$240/year
SimDiff LT 5-Pack	\$3750	\$1200/year

About EnSoft

EnSoft's products are used by over 90 companies in North America, Europe, and Asia. EnSoft also designs and develops custom tools for aerospace and automobile companies. EnSoft services include analysis of large legacy software, as well as program comprehension training. EnSoft's customers include Boeing, Rockwell-Collins, Honeywell, General Motors, Ford, Chrysler, Toyota, Honda, Suzuki, Daimler, Volkswagen, Jaguar, and many others.