

## Usage Guide

This usage guide explains how to configure the ER diagram merge tool, how to create the ER model instances and then successfully run a merge.

### Pre-requisition:

MMTF is properly setup in your workspace.

### Steps:

1. Import the below projects to your workspace.
  - *edu.toronto.cs.se.modelepedia.erdiagram*
  - *edu.toronto.cs.se.modelepedia.erdiagram.edit*
  - *edu.toronto.cs.se.modelepedia.erdiagram.editor*
2. Run project *edu.toronto.cs.se.modelepedia.erdiagram* as an Eclipse application.
3. In the new Eclipse instance, create two instances of ERDiagram typed model. Construct the two ERDiagram models per your requirement (i.e. build the model by adding entities, relationships and attributes).
4. Create a MMTF mid-diagram, import the two ERDiagram models just constructed into the mid-diagram.
5. Create a binary relationship between the two models in the mid-diagram. Double click the relationship.
6. Based on your requirement, in the relationship-diagram, create binary relationships between elements from the two models that you wish to map.
7. Create file *ERDiagramMergeIn.properties* in the same folder as the two ERDiagram models. Specify true or false for the two flags: *isOpenWorld*, *preferRightModelNaming*. For example:  
*isOpenWorld=true*  
*preferRightModelNaming=false*  
Note this step is optional. If file *ERDiagramMergeIn.properties* is not created, the merge operator will take default values, which is:  
*isOpenWorld=false*  
*preferRightModelNaming=true*
8. Go back to the mid-diagram, select the two models and the relationship, right click on the relationship and then select menu option "Run Operator -> ERDiagramMerge". A merged ERDiagram model should be created and displayed in the mid-diagram.
9. Double click the merged model just created. Verify its elements and see if they're the same as what you expected. They should be!