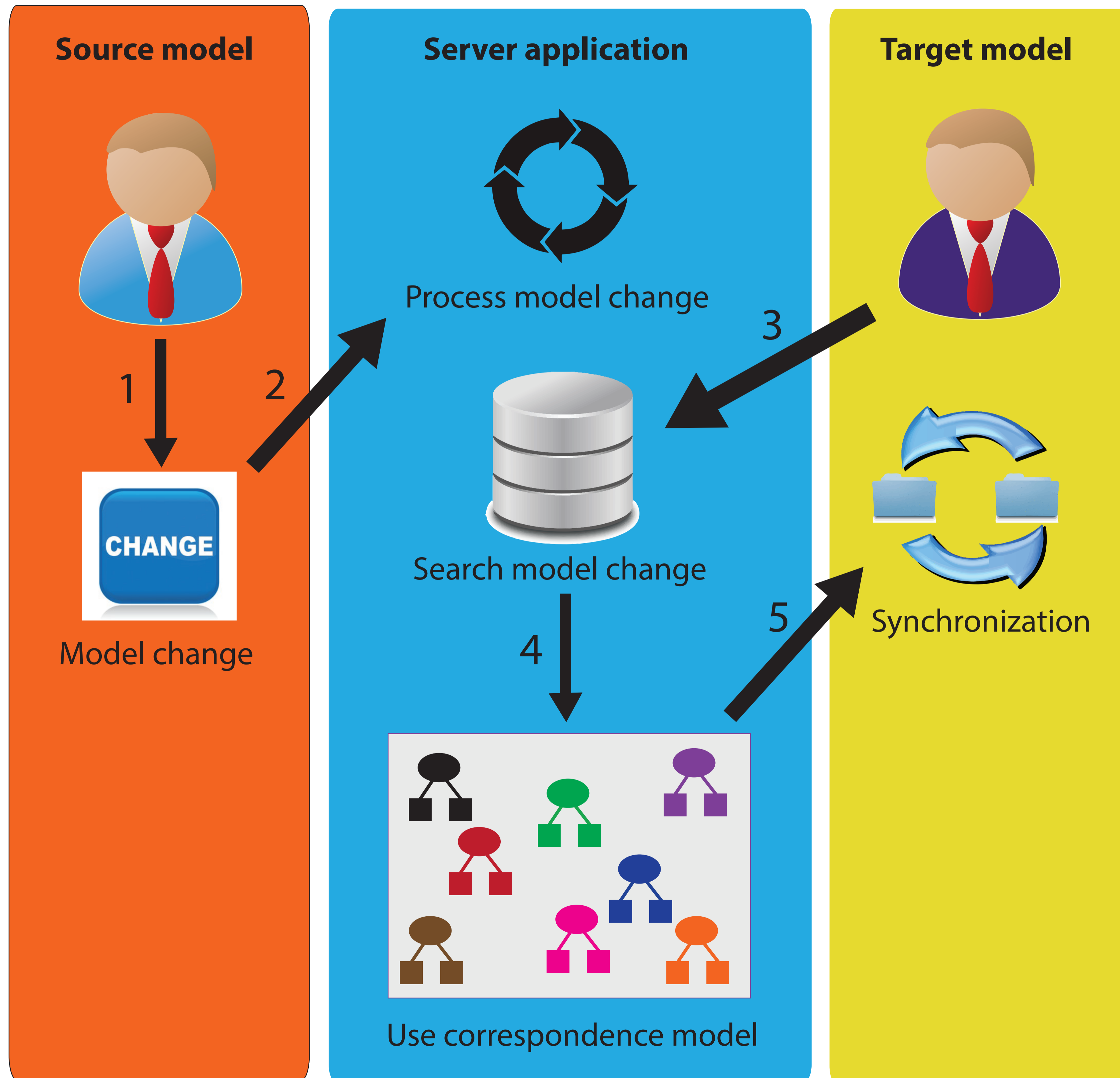




# Software Model Synchronization for Small Teams

Small Teams Helper: Extension for Sparx Enterprise Architect  
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## 1. Model change

- each change in the model is broadcast and sent to the server application

## 2. Process model change

- each change is processed for quicker synchronization
- changes of the same type are merged, e.g. multiple change of name of the same item
- after deletion of the item, all changes of this item that have not been synchronized are removed

## 3. Search model change

- after selecting synchronization option in the target model, all changes that have been made in the source model after last synchronization are searched in the server database

## 4. Use correspondence model

- the correspondence model is used to connect corresponding items in the source and target models
- for each item in the source model, it maintains information about identifier of corresponding item in the target models
- it consists of the nodes with 2 or more parts
- for each searched model change, we look for GUID of item in the target model that corresponds to changed item in the source model

## 5. Synchronization

- required synchronization operation is provided in the target model according to its parameters and identifiers
- after completion of all operations, the whole model is refreshed for a current display of all items
- after each addition of an item, the correspondence model is updated