

# Chapter 1

## Change Patterns Set

### 1.1 Insert Process Fragment

The change pattern **Insert Process Fragment** allows to add new process fragments to an existing process schema, offering means to insert activities either serially or in parallel.

#### 1.1.1 Serial Insert

When applying the **Serial Insert** change pattern a single activity can be inserted anywhere in the process schema between the start and end event. Preceding the application of this pattern, it is necessary to mark the start and end point in between which the new activity should be inserted.

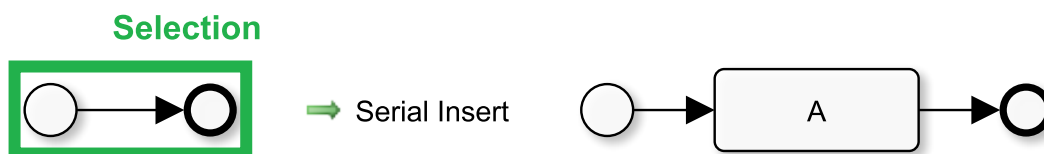


Figure 1.1: Serial Insert Change Pattern

#### 1.1.2 Parallel Insert

When applying the **Parallel Insert** change pattern a single activity can be inserted in parallel to an existing process fragment. Preceding the application of this pattern, it is necessary to either mark a single activity or a whole process fragment.

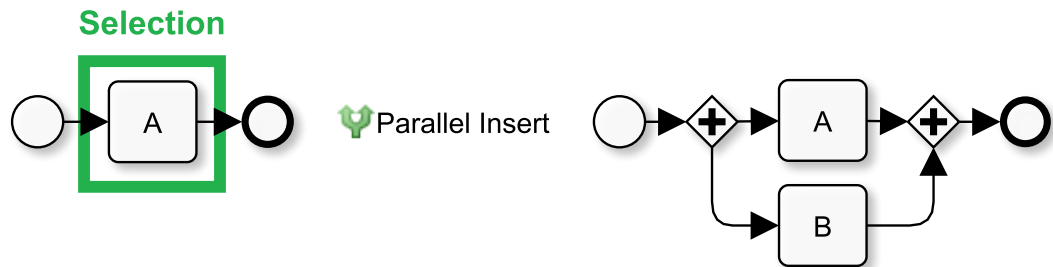


Figure 1.2: Parallel Insert Change Pattern

## 1.2 Rename Process Fragment

The change pattern **Rename Process Fragment** permits to give a new name to an activity within the existing process schema. Preceding the application of this pattern, it is necessary to mark a single activity.

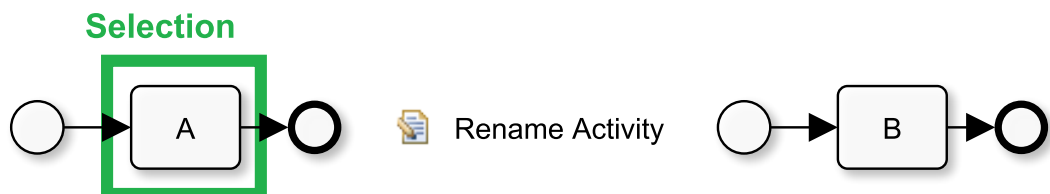


Figure 1.3: Rename Process Fragment Change Pattern

## 1.3 Update Condition

The change pattern **Update Condition** permits to redefine transition conditions of process fragments within the existing process schema. Preceding the application of this

pattern, it is necessary to mark a single edge.

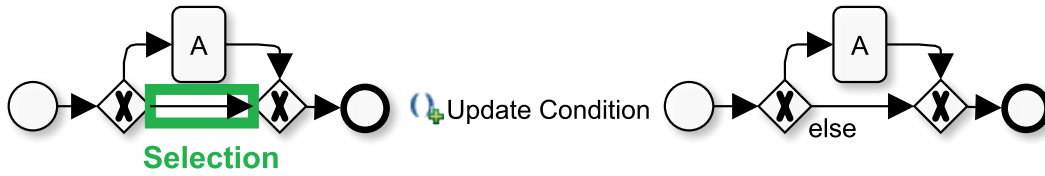


Figure 1.4: Update Condition Change Pattern

## 1.4 Embed Process Fragment In Loop

The change pattern **Embed Process Fragment in Loop** enables to execute process fragments within an existing process schema repeatedly, by placing either a single activity or a whole process fragment in a loop. Preceding the application of this pattern, it is necessary to either mark a single activity or a whole process fragment.

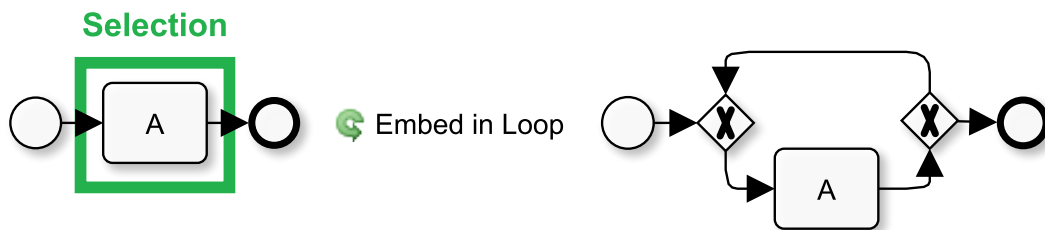


Figure 1.5: Embed Process Fragment in Loop Change Pattern

## 1.5 Embed Process Fragment In Conditional Branch

The change pattern **Embed Process Fragment in Conditional Branch** facilitates the possibility to place process fragments in conditional branches within the existing process

schema, allowing for an execution only if specific conditions hold. Preceding the application of this pattern, it is necessary to either mark a single activity or a whole process fragment.

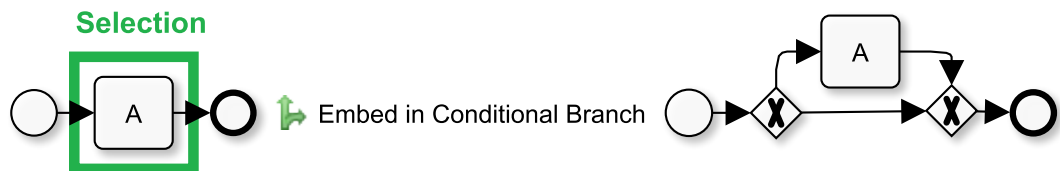


Figure 1.6: Embed Process Fragment in Conditional Branch Change Pattern

## 1.6 Undo

The change pattern **Undo** permits to revert actions previously conducted by applying change patterns within the existing process schema. Preceding the application of this pattern, no selection is necessary.



Figure 1.7: Undo Change Pattern

## 1.7 Delete Process Fragment

The change pattern **Delete Process Fragment** offers to remove a process fragment from an existing process schema. Preceding the application of this pattern, it is necessary to mark a process fragment to be deleted.

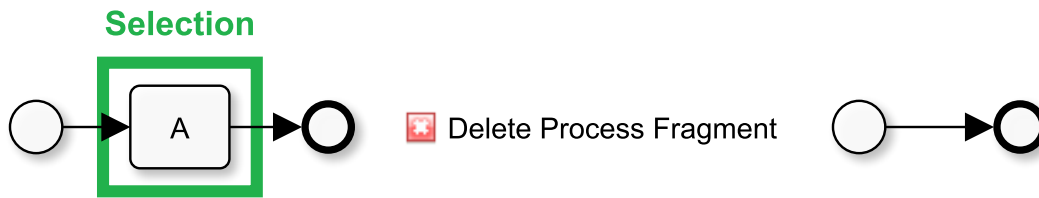


Figure 1.8: Delete Process Fragment Change Pattern

## 1.8 Move Process Fragment

The change pattern **Move Process Fragment** provides the possibility to move process fragments within an existing process schema, offering the means of shifting either a single activity or a whole process fragment.

### 1.8.1 Serial Move

When applying the **Serial Move** change pattern a single activity or a whole process fragment can be moved and hence newly inserted in sequence between existing fragments. Preceding the application of this pattern, it is necessary to perform two selections. The first one allows to mark a process fragment which should be moved and second one to mark the start and end point in between which the moved fragment should be inserted.



Figure 1.9: Serial Move Change Pattern

### 1.8.2 Parallel Move

When applying the **Parallel Move** change pattern a single activity or a whole process fragment can be moved and hence newly inserted in parallel to an existing process fragment. Preceding the application of this pattern, it is necessary to perform two selections. The first one allows to mark a process fragment which should be moved and second one to mark a single activity or a whole process fragment where the previously selected fragment should be moved in parallel.

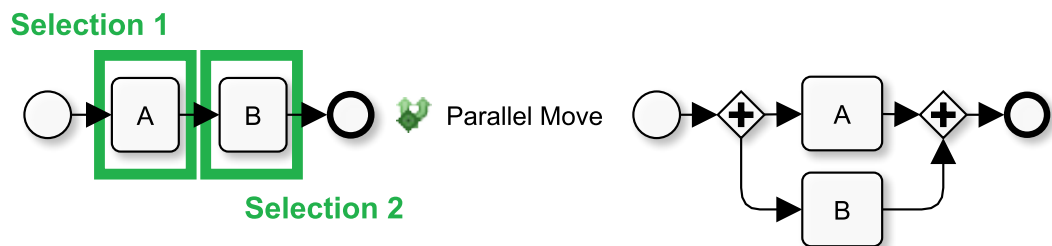


Figure 1.10: Parallel Move Change Pattern

### 1.9 Layout

The change pattern **Layout** permits to newly lay out an existing process model within the existing process schema. Preceding the application of this pattern, no selection is necessary.



Figure 1.11: Layout Change Pattern