

# Nesting and subprocesses

<https://documentation.dcr.design/documentation/nesting-and-subprocesses/>

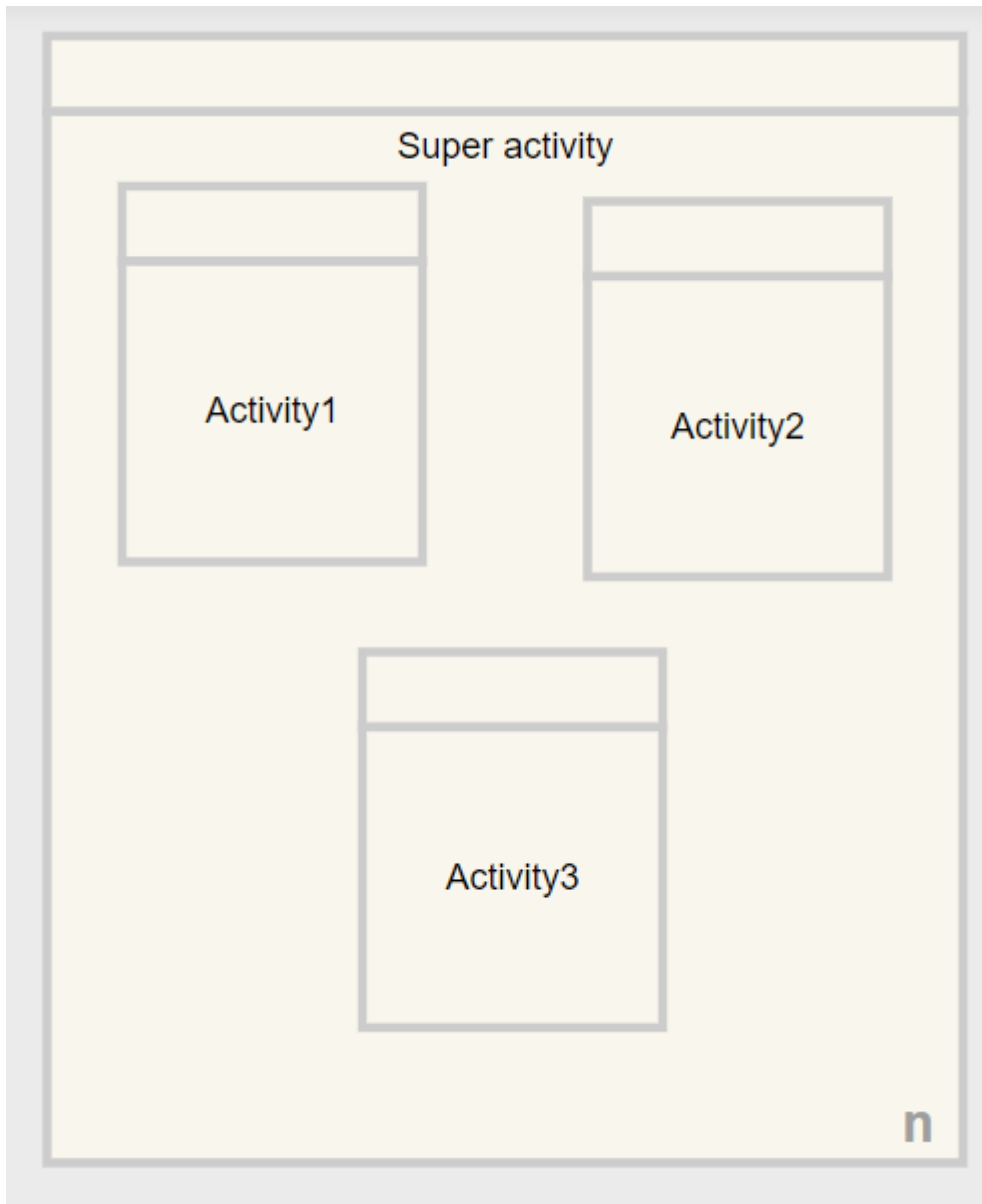
## Table of Contents

◆ □

- [Nesting](#)
  - [How to Nest](#)
    - [Un-Nesting](#)
- [Sub-processes](#)

## Nesting

The graphical tool supports Nesting of [activities](#) and processes however there are some rules for nesting which are described below.



Three activities nesting in a super activity

1. An Activity can be nested in another Activity or Process
2. A parent Activity can be nested to other parent or child Activities
3. A process cannot be nested in an Activity
4. A process can be nested in another Process
5. A Process or Activity with connections cannot be nested unless connections are removed first
6. Tool supports N level of Nesting fulfilling above criteria

## How to Nest

To nest one element to another follow these steps:

1. Select an Activity or Process by left click on it, it's border will turn to blue this indicates as a source element which is to be nested
2. Now right click on other Activity or Process and a menu will be shown, click on Nest Under option and the selected item will be nested inside this item

## Un-Nesting

When an Activity or Process is nested it can also be un-nested easily, just right click on the item you

want to un-nest and select Un-nest from the menu and the item will be un-nested from its parent. If the item has some connection then remove those connections in certain cases in order to complete the un-nest operation.

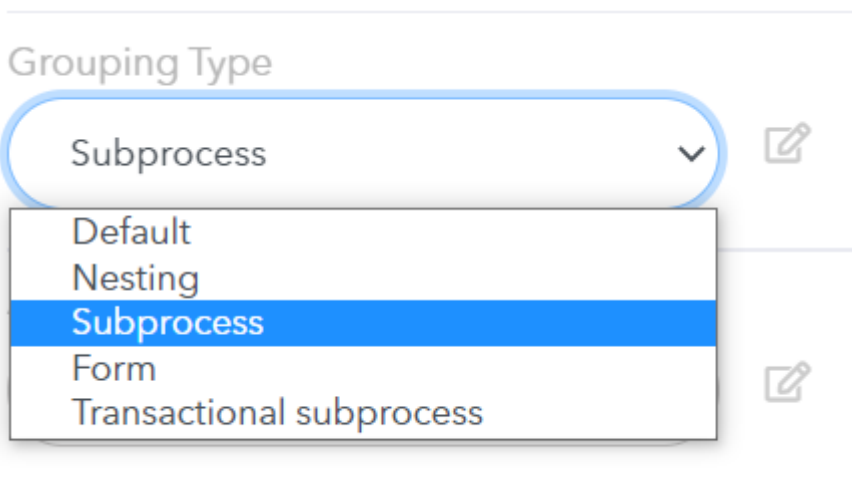
## Sub-processes

We've enhanced the DCR semantics and is now supporting two different types of "grouping of events":

- Nesting - the "classical" way of grouping events together
- Single instance sub-process - a new way of "grouping" events which we believe is more intuitively. Once the grouping is Accepting, i.e. no [pending](#) events (blue exclamation marks) exists, the sub-process is considered done.

The main difference between nesting and sub-process is that in nesting all events must be executed before you can proceed, while for sub-processes the process must be in accepting mode to continue. This is illustrated in this [example](#).

You choose between Nesting and Subprocess using the Options-->Advanced and then selecting the Grouping Type.



As of [Release 6.0](#) of the DCR Portal the default nesting type is changed from Nesting to Subprocess.

Type: User guide

Audience: Modelers

