



# Process Modelling Framework

BigDataStack Software Component developed by ATC

## Description

Process Modelling is a component of the dimensioning, modelling and interaction services building block of BigDataStack, which is required to exploit the added-value services of the “underlying” BigDataStack data-driven infrastructure management and the Data as a Service offering.

## Features

The Process Modelling component allows for declarative and flexible modelling of process analytics. Process Modelling component provides a wide palette of available processes that can model the uses cases. Using this palette, a Business Analyst can create a flow of processes, edit available fields depending on the type of the process, define the overall objective of the Process Modeller graph to be generated and create a high-level graph of processes. The generated graph can be saved, exported, imported or edited and is used as input for Data Toolkit Component.

## Areas of Application

All the areas that need declarative and flexible modelling of process analytics can favor from Process Modelling Framework, as long as this is part of an integrated solution.

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## Market trends & opportunities

Process Modelling Framework can acquire a place in the market only as part of BigDataStack solution.

## Customer benefits

Process Modelling Framework is a very useful component for the business analyst who wants to describe her scenario using a graph, but it should be used in the framework of BigDataStack solution.

## Technological novelty

Following the user requirements and the architecture defined at early stages of the project, ATC, after extended discussions with other members of BigDataStack consortium, developed Process modelling component. It was initially implemented by utilizing as a baseline Node-RED. Subsequently, taking the UI/UX into account migration and refactoring was performed towards the VueJS framework by using ReteJS library.

## TRL level: 5

## Find the Open Source code here:

• <http://bigdatastack-tasks.ds.unipi.gr/Sidiropoulos/bigds-process-modeler>

 bigdatastack.eu