

# PragmaDev Process V2.1 analyzes critical paths and displays generic heatmaps.

Paris - France - September 5<sup>th</sup>, 2022 - *PragmaDev Process* aims at verifying and optimizing business process models described with BPMN (Business Process Model and Notation). The new version of the tool introduces generic heatmaps and can automatically calculate the critical path.

Complex organizations or system operations are based on processes that can be modeled graphically. The most popular notation is BPMN. It describes what the different participants in the organisation do and how they interact with each other.

Since version 2.0 PragmaDev Process integrates a statistical simulator based on BPSim, a complementary notation to BPMN. Time and cost information is added to any element in the model with a possible statistical variability. Executions are automatically launched with this information in order to evaluate the performance of the process.

In a business process the critical path is the sequence of activities that led to the actual overall execution time with the least inactivity. Any extra delay in that sequence of events will have an impact on the overall process time, which is why it is so important to analyze the critical path. After each run of simulation PragmaDev Process will calculate the critical path so that after the whole simulation, statistical information for each symbol will be graphically displayed.

This new version also allows to connect a generic heatmap to the model in order to graphically display some quantitative information with colors. The heatmap file format is XML based and refers to the different symbols in the model. For each symbol a value is associated as well as a text. The whole diagram has a "minimum color" and a "maximum color". The rule to calculate the color for each value is configurable. The text associated to each symbol will be displayed in a tool tip in the BPMN editor.

## About PragmaDev

PragmaDev is a privately held company based in Paris France that provides two lines of product: 1) PragmaDev Process is a simple and powerful tool that aims at helping business process modelers to verify and optimize their models. It integrates a BPMN editor, executor and explorer. 2) PragmaDev Studio is a set of 4 tools to specify and design communicating systems. On the market since 2001 customers include Airbus, Nokia, Renault, the French Army, Wipro, ST-Microelectronics, Korean Telecom, the European Space Agency, Toshiba, and LG Electronics.

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