Variables

A *variable* is a named object that stores a single value of a specific data type. You can use variable values in calculations within nodes such as Calculator and Condition. Variable values can also function as control variables to define node parameters.

Creating variables

You can create variables in the following ways:

- Through the **User variables** output port settings, located in the upper-left corner of the workflow area.
- Using the Calculator (Variables) or Table to Variables nodes.

When creating a variable, you need to define the following:

- **Name:** Must be unique within a set of variables. It can include uppercase or lowercase Latin letters, underscores ("_"), and digits. The first character cannot be a digit. This name is used to reference the variable in Calculator's expressions.
- **Caption:** A user-defined label that can contain any characters, used for clarification.
- Data type: The type of data the variable will hold (e.g., text, number, Boolean).
- **Value:** The initial value assigned to the variable.

Variable ports

Ports for variable sets are displayed graphically in the interface as follows:

- Variable input port: 
- Variable output port: 

> **Important note:** In the workflow, you can link a **variable output port** only with a **variable input port**.

Components for operating sets of variables

Megaladata provides the following components for working with sets of variables:

- Replace (Variables): Replaces the values of selected variables with values from a specified replacement table.
- Calculator (Variables): Creates new variables based on entered expressions. Variables from an input port can be used in these expressions.
- Variable Union: Combines two or more sets of variables into a single set.
- Variables to Table: Transforms a set of variables into a data table.
- Table to Variables: Transforms a data table into a set of variables.

Read on: Control Variables

Articles in Section:

- Control Variables
- Workflow Variables
- Predefined Variables