Workflow Variables

Workflow variable ports are located in the upper-left corner of the workflow area.

- **Variables:** This port displays the final set of all workflow variables, considering the defined priority. These variables cannot be directly edited in this view.
- **System variables:** This port shows operating system environment variables. These are read from the system settings and cannot be edited here.
- **Session variables:** This port displays variables for the current user session. These variables cannot be edited here.
- **Package variables:** This port shows variables for the current package. Predefined variables cannot be edited here.
- **User variables:** This port displays variables defined by the user for the current workflow.
- **Workflow variables:** This button opens an action menu to operate all variable ports. Typically used for debugging the workflow.

Adding a package variable

To add a package variable, do the following:

- In the Megaladata main menu (on the left), select **Navigation**.
- In the tree-like scheme that opent, select **Variables**.
- On the main workspace toolbar, select **Add**.
- In the dialog that opens, set the new variable's name, caption (label), and data type.

Setting a value is optional (you can choose **Null value** instead):

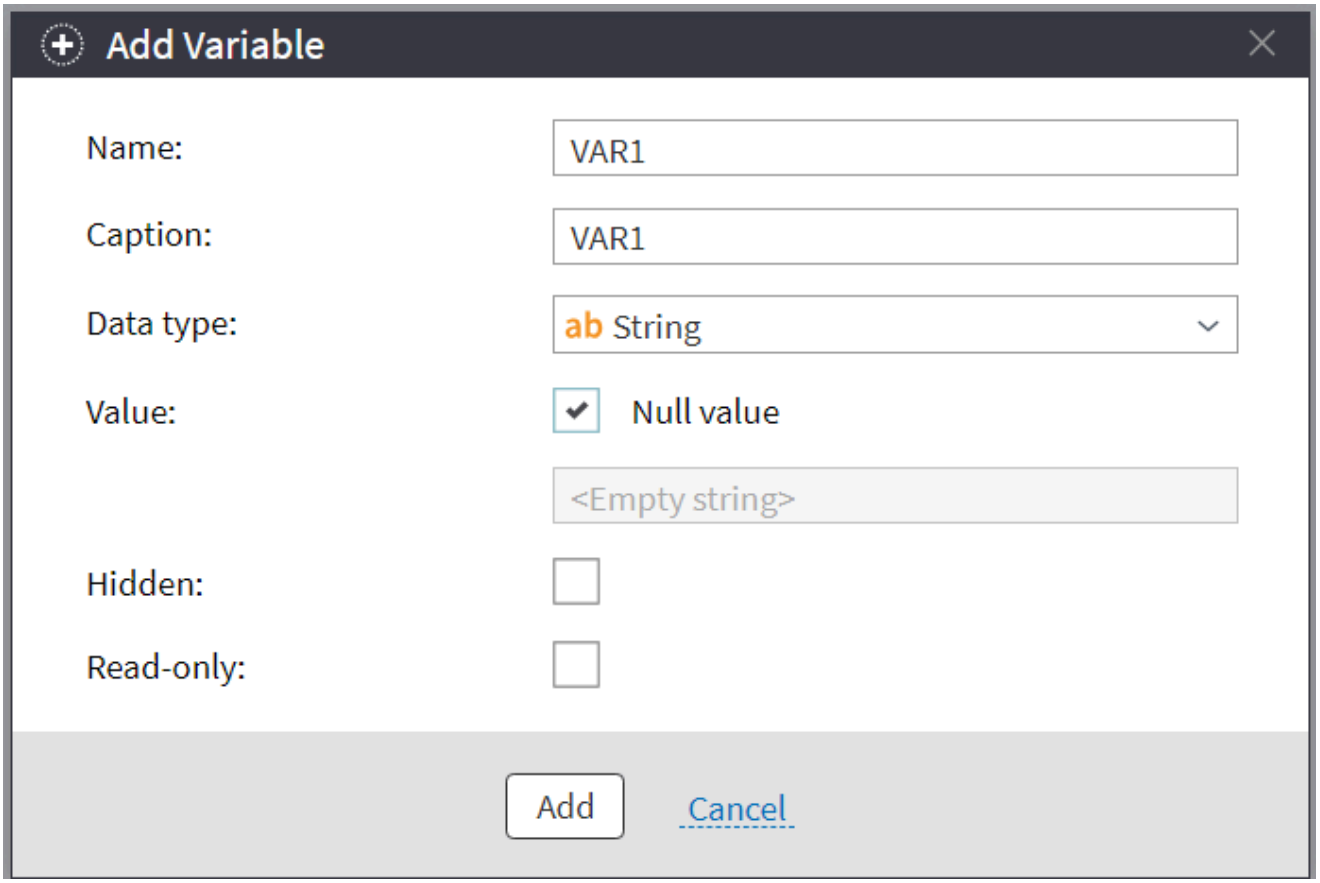


Figure 1. Adding a package variable

If you mark **Hidden** in the dialog, the variable won't be visible to the users with no **Workflow design** role.

If you mark **Read-only**, the users with no **Workflow design** role won't be able to set the variable's value.

Also, such users have limited configuration options:

- They cannot remove, add, or move variables.
- They cannot edit the variable's name, caption, or type.

> **Note:** You can also use workflow variables within a supernode. In this case, the **User variables** port within the supernode contains its own set of variables, used only inside that supernode.

Action menu commands

The variables' action menu provides the following commands:

- **Run node:** Manually activates the ports. An activated port contains data.
- **Settings:** Opens the dialog to configure user variable values.

- **Configure visualizers:** Opens the dialog to configure visualizers.
- **Other actions:** Opens a context menu with an extended set of commands.

Port context menu

Right-click directly on a port to open its context menu. The context menu offers the following commands:

- **Quick view:** Opens the window to view the variables' values. This data is available after port activation.
- **Configure port:** Opens the dialog to configure variable values.
- **Edit port caption:** Opens the dialog to edit port captions.

Variable priority

If a variable with the same name exists in multiple ports, the system uses the following priority to avoid conflicts (highest to lowest):

1. User variables
2. Package variables
3. Session variables
4. System variables

User variables always have the highest priority.

For example:

If you have:

- A system variable: `USERNAME="PC-01$"`
- A user variable: `USERNAME="Smith"`

The **Variables** port (the top port which shows the final calculated set) will display `USERNAME="Smith"` .

Read on: Predefined Variables