Pre-commit validation

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The pre-commit validation runs just before a committing server project to the Teamwork Cloud. This validation protects against violations that are not allowed according to the preset validation suites. You will receive a notification prior to commit completion if the validation fails, according to setup. The notifications can be either a warning (with an ability to continue the commit) or error messages (to disallow commit). Pre-commit validation does not run validations on auto-commits (e.g. when upgrading profiles, on element move to the used project, update from a local file and other).

Required options for pre-commit validation

To enable pre-commit validation, you must set up at least two project options:

- Validation Suites
- Minimal Severity That Prohibits Commit

or

- Validation Suites
- Minimal Severity That Produces Warning

Customize validation options

Customize validation options in the **Project Options** dialog.

To open the **Validation Options**

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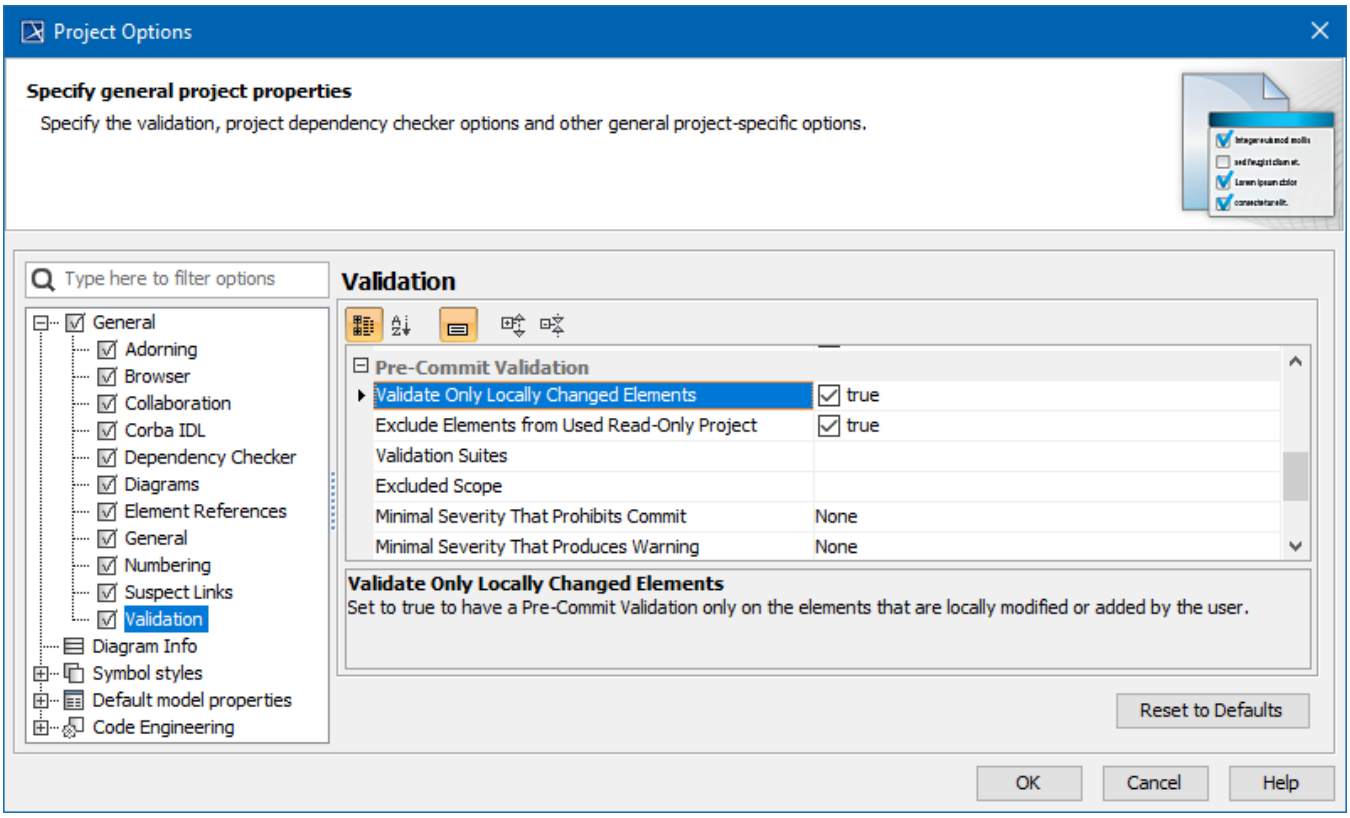
1. Open the **Project Options** dialog in one of the following ways:
   - On the main menu, select **Analyze** > **Validation** > **Validation Options**.
   - On the main menu, select **Options** > **Project**. In the **Project Options** dialog, select **General** > **Validation**.
2. Specify the options you need in the **Validation** area. How to use the **Project Options** dialog >>
3. Click **OK**.

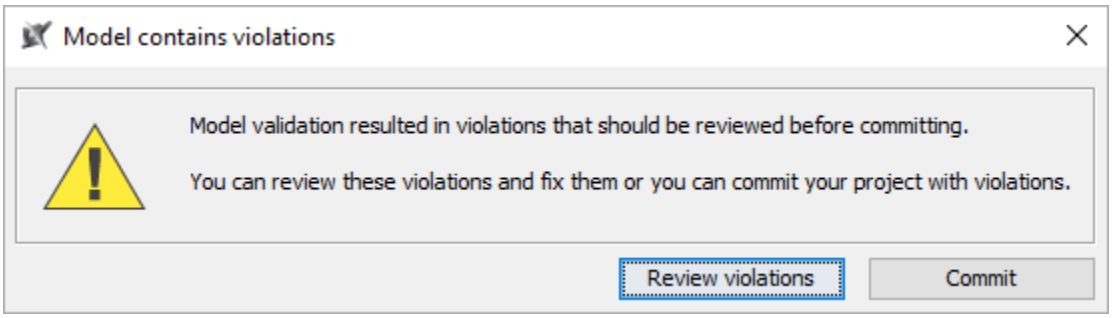


Option	Values	Description
Validate Only Locally Changed Elements	True or False	When set to *true*, pre-commit validation will only run on the elements that are locally modified or added by the user.
Exclude Elements from Used Read-Only Project	True or False	When set to *true*, it will exclude projects that are used in read-only mode and elements that exist in these projects.
Validation Suites	Validation suites	Specify a validation suites list that must be run before committing changes to a server.
Excluded scope	Excluded scope	Specify the validation scope to be excluded from the rules that belong to pre-commit validation suites. Elements in the selected scope will not be validated before committing changes to a server.

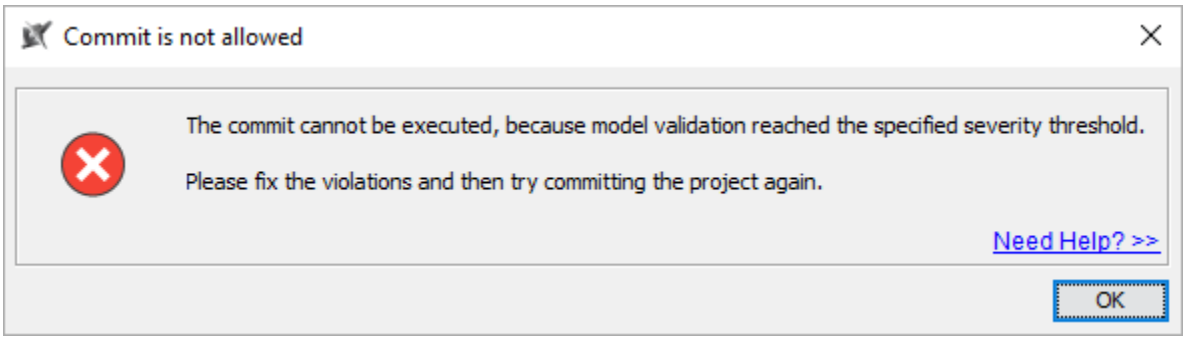
Minimal Severity That Prohibits Commit	• None • - debug. • - info. • - warning. • - error. • - fatal.	Specify the minimal severity violation severity threshold that prohibits commit. Pre-commit validation will be performed before executing commit to a server. It will validate the model and check if there are validation results with reached or exceeded selected severity levels. Commit will be prohibited until these violations are fixed.
Minimal Severity That Produces Warning	• None • - debug. • - info. • - warning. • - error. • - fatal.	Specify the minimal severity threshold that produces a warning. Pre-commit validation will be performed before executing commit to a server. It will validate the model and check if there are validation results with reached or exceeded selected severity level. If these violations are found, a warning dialog will appear, allowing you either to review warnings or to execute project commit.

Warning and error dialogs

- If a warning appears, you are allowed to choose whether to review violations or to continue to commit. If you choose to review violations, the pre-commit validation results panel will be open; otherwise, your project will be committed without showing violations.



- If there is an error, you are not allowed to choose. You will get a list of the validation results.

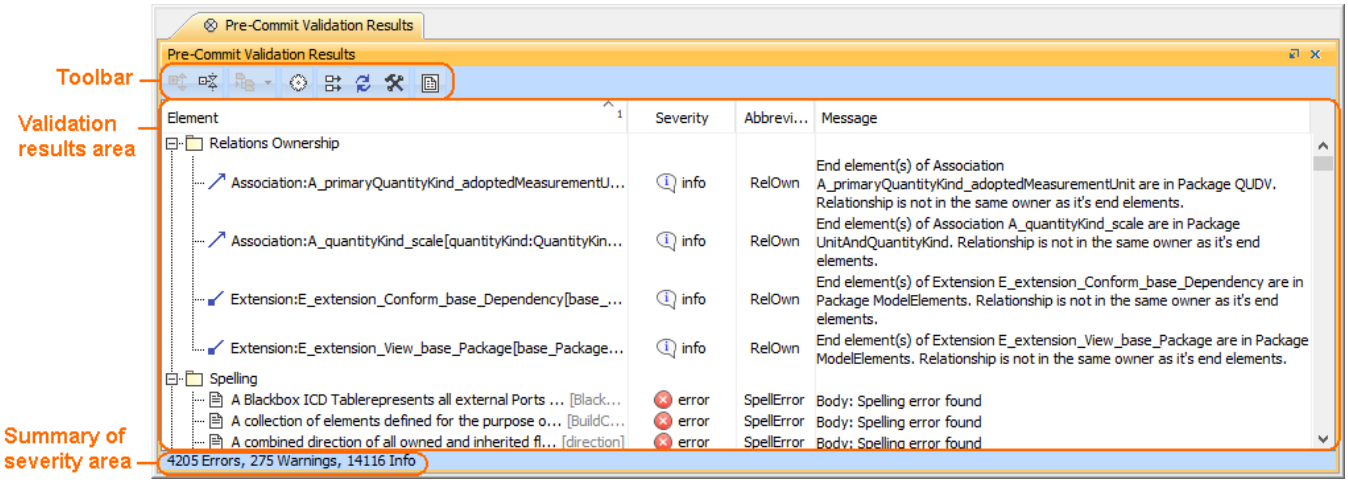


When the pre-commit validation is supposed to show a warning and an error at the same time, the tool will only show an error due to its behavior being more restricted.

Pre-commit Validation Results panel

The **Pre-commit Validation Results** panel opens after you either get an error message or you select to review violations in the warning message.

It is impossible to ignore Pre-Commit Validation results.



Toolbar

The toolbar allows you to manage the validation results. All buttons are described in the following table

Button icon	Button name	Description
	Expand All	Click to recursively expand all the elements in the validation results area.
	Collapse All	Click to recursively collapse all the elements in the validation results area.

	Navigate to Validated Object (Alt+B)	Click the button to select the element in the Containment tree. Click the arrow next to the button to open the menu of the following navigation commands: • **Open Specification** - opens the Specification window of the selected element in the validation results area. • **Go To** - opens a submenu whose commands allow you to track and navigate to the elements. • **Select Rule in The Containment Tree** - selects the failed validation rule in the Containment tree of the selected element in the validation results area. • **Add to Search Results** - selects an element in the Search Results tree. • **Open Project Usage Map** - opens the **Project Usage Map**. This command is available only for Teamwork Server projects.
	Solve	Click to open the list of available commands to solve a selected element violation in the validation results area.
	Display the full path of the elements	Click to show the full path of all elements in the validation results area.
	Run validation with current settings	Click to run the validation with the current settings.
	Validation Options	Click to open the **Project Options** dialog with the Validation node open.
	Export	Click to export the list of validation results either to an .html or .csv file.

Validation results area

The validation results area provides a list of violated elements. This area contains the following columns:

- **Element** - elements that violate the validation rule.
- **Severity** - severity level of the validation rule.
- **Abbreviation** - a short word, phrase, or acronym of the validation rule used for sorting/filtering.
- **Message** - description of the invalid situation when a validation rule fails.