

Working with Model Profiles

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Introduction

Flows can perform custom calculations based on the available project data, such as Risk, Technical Debt, and KPI density. A group with multiple projects may want the same report for all of their projects, but each project may place different emphasis on different aspects of the data. For example, a group working on three projects may need to calculate the risk associated with each project. They may want the risk factors weighted more toward static analysis violations for one project, the risk factor in the second project to emphasize unit test failures, and balanced factors for the third project. The group can accomplish this by setting up different models and profiles for each project.

A *model* defines the template for the data used to perform a specific type of calculation. Each instance of a model is a *profile*. Profiles must be paired with flows that can consume the data associated with the specific type of calculation. The data is expressed as a table. The table template is defined in the model, and the data is organized in the profile. If a flow from the Parasoft Marketplace uses a profile, then it will automatically be imported when installed.

Click the **Model Profile** tab to view and edit model profiles.

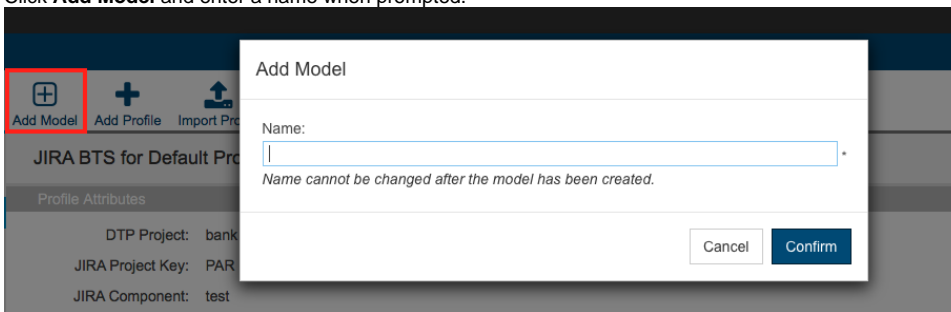
The screenshot shows the Parasoft Extension Designer interface. The top navigation bar includes the Parasoft logo, a menu icon, and the text "Extension Designer". Below this is a toolbar with icons for Services, Model Profile (selected), Configuration, Add Model, Add Profile, Import Profile, Export Profile, and Delete Profile. The main content area is divided into a left sidebar and a main panel. The sidebar shows a tree view with "Build Review" (demo) and "JIRA" (JIRA BTS for Default Project, KPI, MISRA Compliance, RiskyCodeChanges, Traceability Report). The main panel displays the configuration for "JIRA BTS for Default Project". It includes an "Edit" button and a "Profile Attributes" section with the following values: DTP Project: Default Project, JIRA Project Key: (empty), JIRA Component: (empty), Issue Type: Task, Closed Status: (empty), and Default Priority: Low. Below this is a "Profile Data" section with a table mapping DTP Severity to JIRA Priority.

| DTP Severity | JIRA Priority |
|--------------|---------------|
| 1 | Highest |
| 2 | High |
| 3 | Medium |
| 4 | Low |
| 5 | Lowest |

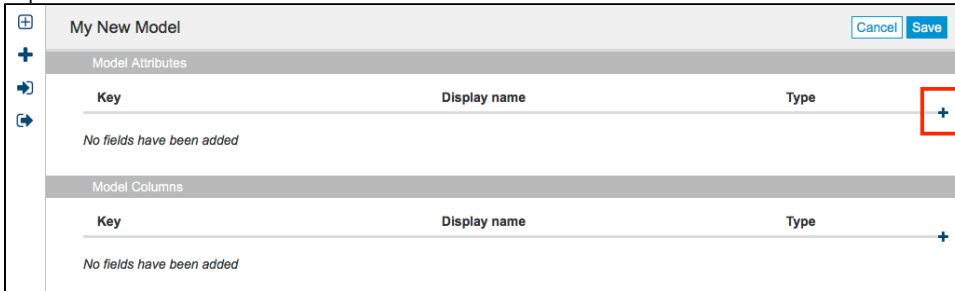
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Creating Models

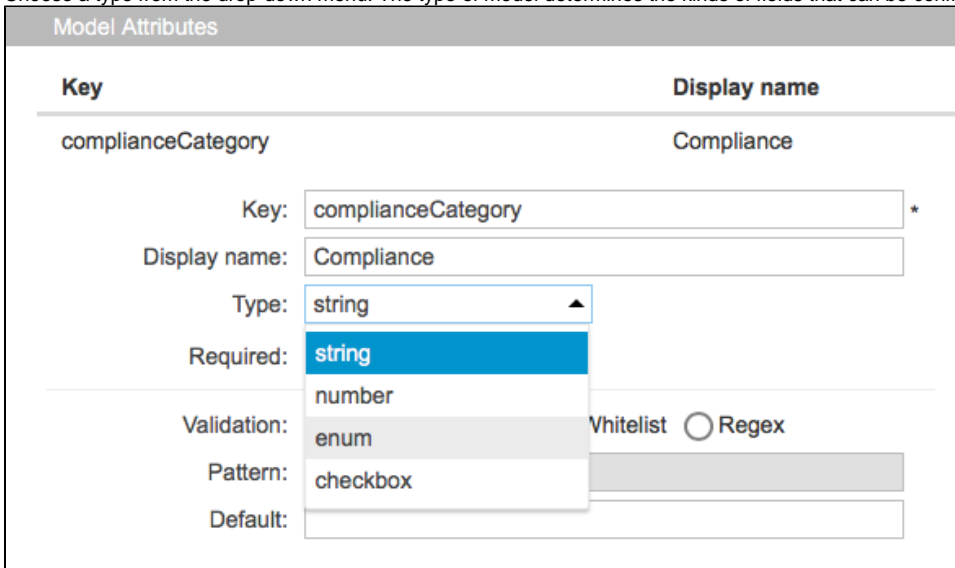
1. Click **Add Model** and enter a name when prompted.



2. Click **Confirm** when finished.
3. Click the **+** in the Model Attributes field to add attributes. An attribute is additional metadata associated with the profile, such as any data that only requires one definition.



4. Enter a key (required) and display name for the model. **Do not use the string "id" as the key value when creating or editing models.**
5. Choose a type from the drop-down menu. The type of model determines the kinds of fields that can be configured.



- Set any values that you want to configure for the type of model.

| Key | Display name |
|--------------------|--------------|
| complianceCategory | Compliance |

Key: *

Display name:

Type:

Required:

Values:

-
-
-

Default:

- Click the + icon in the Model Columns field and follow the same process as adding the attributes to add columns.
- Click **Save** when finished.

Creating Profiles

Profiles use the data structure defined in the model. Once a profile has been added to a model, the model cannot be edited. If you need to change the model, do so before adding profiles. Otherwise, you will need to delete the profiles, change the model, and recreate your profiles. You can build profiles in the UI, as well as create them in a spreadsheet and import them into the model (see [Exporting and Importing Profiles](#)).

- Click Add Profile and enter a name when prompted.
- Choose the model for the profile and click **Confirm**.

Add Profile

Name: *

Model:

- Build Review
- Model 1
- test

key Display name

- The model will open in the editor. Configure your profile using the data configured in the model.

Profile 1 [Cancel] [Save]

Profile Attributes

Compliance: Automotive

Profile Data

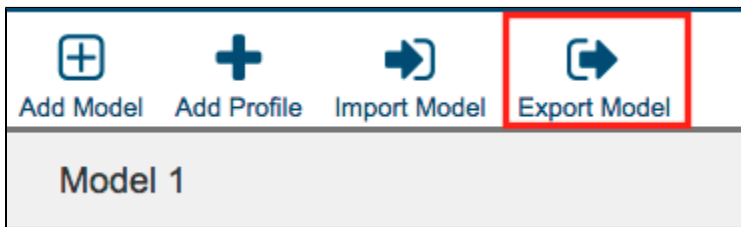
Standard

Standard: [ISO 26262] [MISRA] [IEC 62304]

- Click **Save** when finished.

Exporting and Importing Models

Choose a model and click **Export Model** to download a JSON file containing the model data.

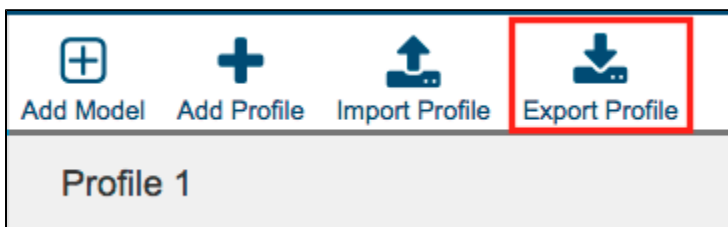


You can import JSON files to create models, instead of manually inputting all the values.

- Create an empty model or choose an existing model from the sidebar.
- Click **Import Model** and browse to the JSON file you want to import.
- Click **Import**. The data from the imported file will overwrite the selected model.

Exporting and Importing Profiles

Choose a profile and click **Export Profile** to download a spreadsheet containing the profile data.

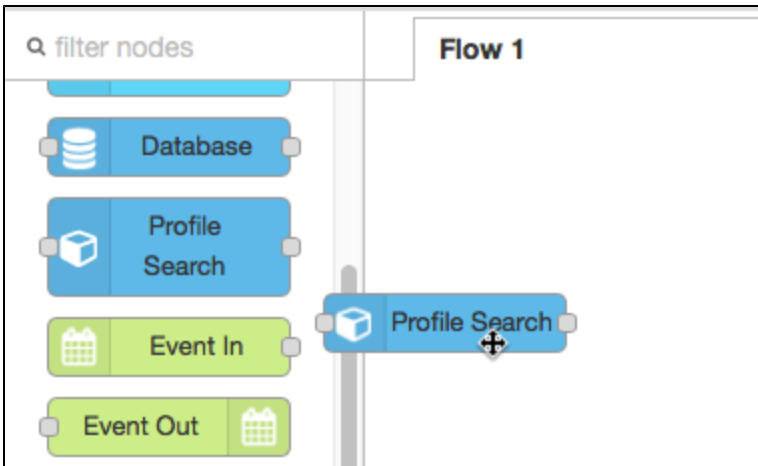


You can import CSV files to create profiles, instead of manually creating them in the UI.

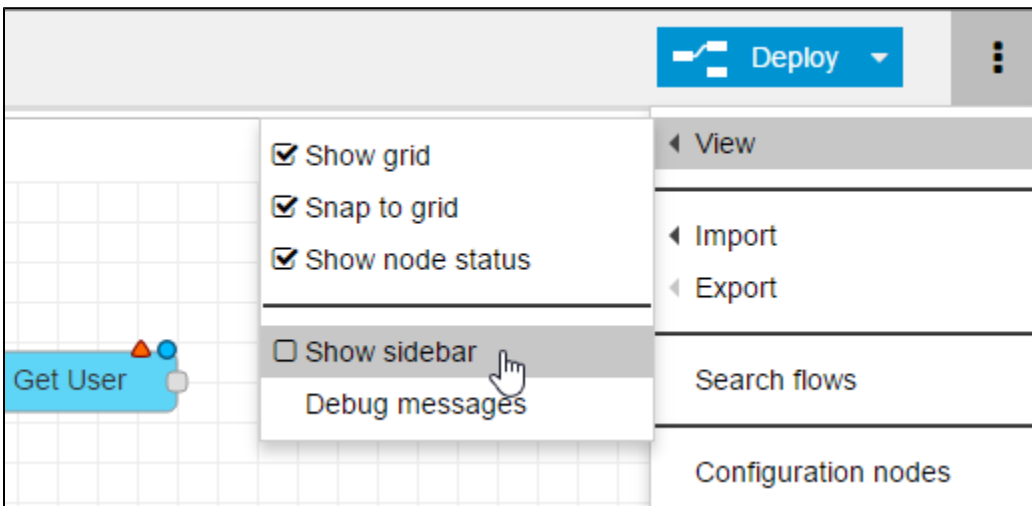
- Create an empty profile or choose an existing profile.
- Click **Import Profile** and browse to the file you want to import.
- Click **Import**. The data from the imported file will overwrite the selected profile.

Using a Profile in a Flow

Use the Profile Search node in your flow to process the data according to the profile.



Select the node and choose **View> Show sidebar** to view the documentation for the node, which will provide details on how to configure it.



Model Profiles Shipped with Artifacts

Some artifacts that you may download and install from the marketplace contain their own models and profiles (see [Downloading and Installing Artifacts](#)) that are automatically installed as part of the artifact installation. If the same model already exists in the system, however, you will see a warning from the artifact manager and Artifact Manager will not replace your model and profile with the new version. If you get the error:

1. Export your models and profiles as backups
2. Reinstall the artifact.
3. Export new model and profiles and compare with the backed up version.
4. Reimport your profiles after making any necessary changes.