

Working with Flows

In this section:

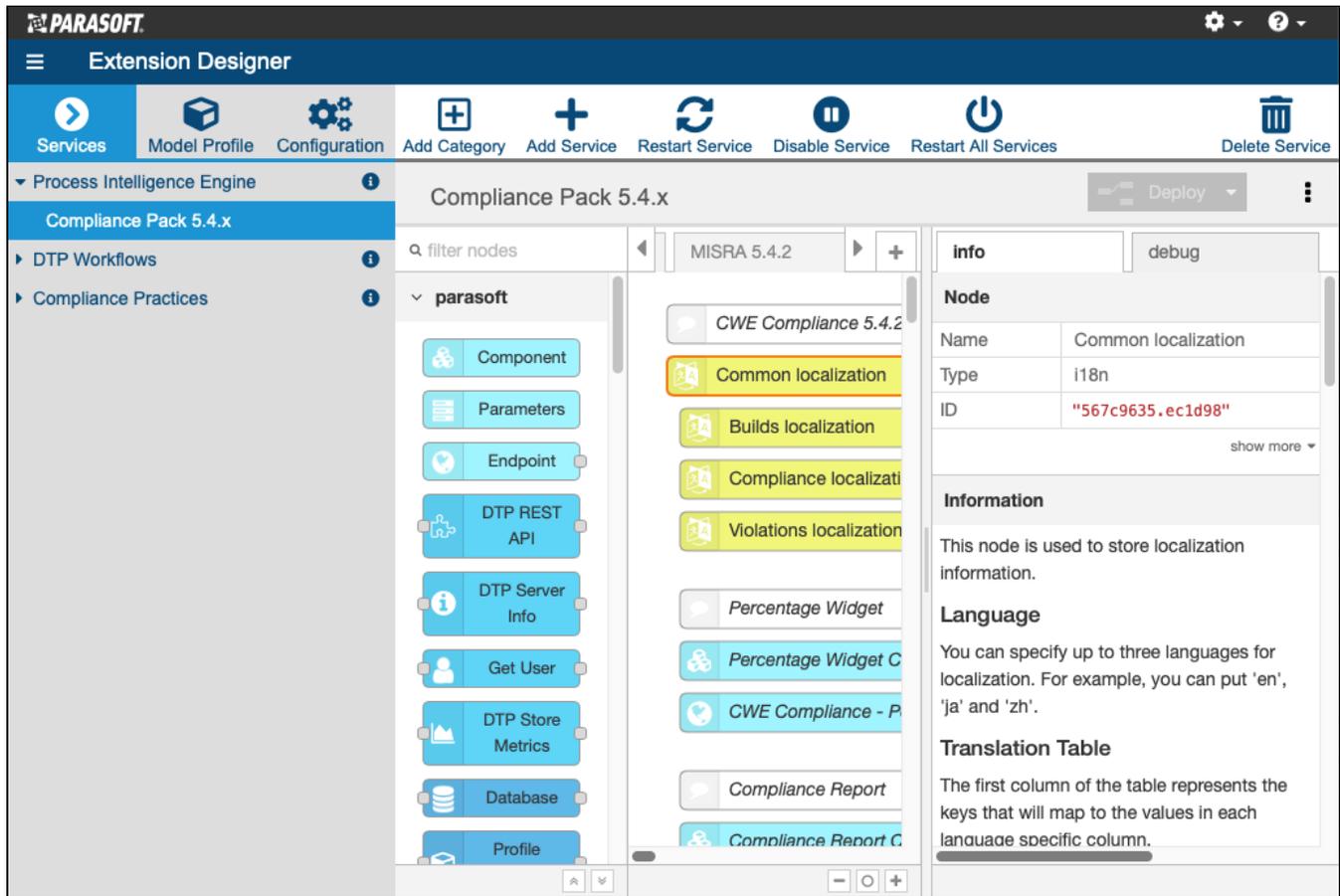
- [Overview](#)
- [Creating Flows](#)
- [Disabling Flows](#)
- [Next Steps](#)

Overview

Flows are one or more nodes that can perform specialized tasks (see [Working with Nodes](#)). Flows are grouped into services to more evenly distribute data processing across endpoints, which results in more stable execution (see [Working with Services](#) for instructions on creating services).

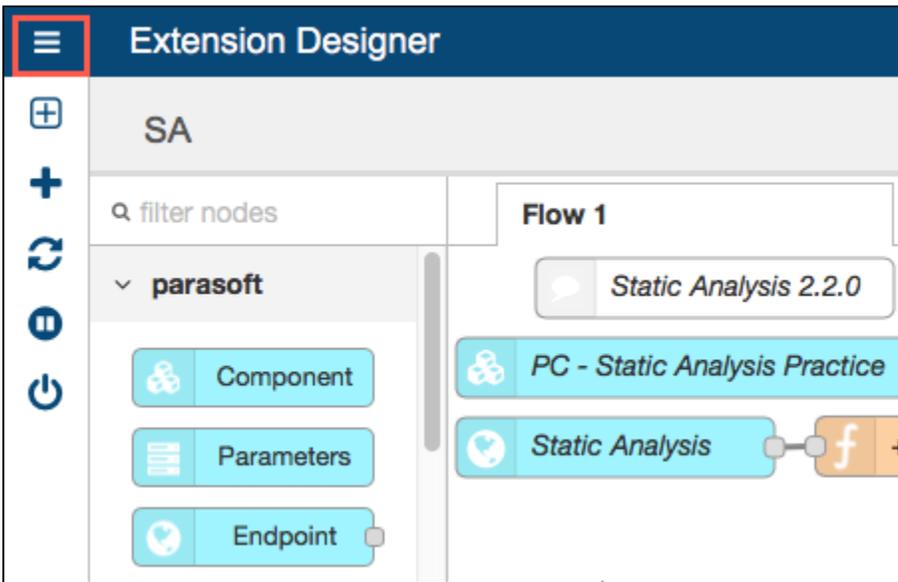
There are a few ways to create flows:

- Drag nodes from the parasoft palette on the left into a tab and configure them manually. Different types of nodes have different configuration options. Double-click a node to open the editor and view its functionality.
- Import components, examples, and other pre-built flows into the tab and modify them according to your needs (see [Importing and Exporting Flows](#)).



The tabs are a construct for visually organizing flows. You can click the + icon to add more tabs if the tab you're working on becomes difficult to work with. All flows added to the a service will execute when the service is deployed.

You can also minimize the Extension Designer sidebar and use the navigation buttons on the bottom of the tab to zoom out and increase overall visibility.

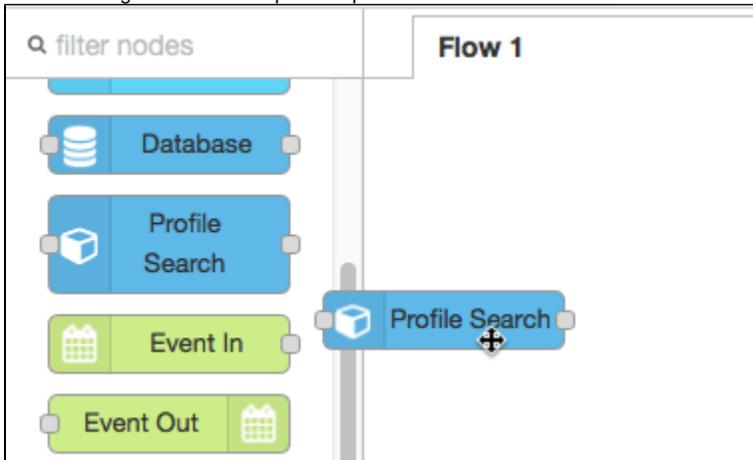


Creating Flows

You can manually build flows or import prebuilt flows into your service.

Manually Creating Flows

1. Click and drag nodes from the parasoft palette on the left into the tab.



2. Double-click on the node to open the node editor and configure the node. Different types of nodes have different configuration options, which are documented in the node Info tab. See [Working with Nodes](#).

Edit Endpoint node

Delete Cancel Done

Name: Test Failures by Build

UUID: 01a6b8dc-268b-4fc6-b035-266eb7455bcd

Type: Report

Component: Test Failures By Build - Report

Parameters: Build With Profile - Report

Description: This DTP Workflow artifact creates a widget that lists which DTP build IDs have dynamic analysis test failures—and the number of failures associated with each build ID. From that widget, you can explore test failure details, test run history, test modification history, coverage data, and other test details.

Node	
Name	Test Failures by Build
Type	Endpoint
ID	31e78f13.61b5a

Properties

The **Endpoint** node exposes a service endpoint that encapsulates all the functionality necessary to create a full-stack web component.

The node acts as an "http in" node, but the actual endpoint is abstracted from the user in place of a UUID. Instead the user focuses on choosing, or creating, the front end UI component that should be tied to the endpoint, as well as implementing the flow that will generate the data to drive the component. This abstracts the integration details away from the user and allows them to focus solely on the business logic.

3. When nodes have been added to the tab, you can click and drag input/output points between nodes to chain together their functions into a flow. Flows are stored using JSON for easy sharing and versioning.

filter nodes

Flow 1

Endpoint

Change violation status

Perform custom function

http response

websocket

tcp

udp

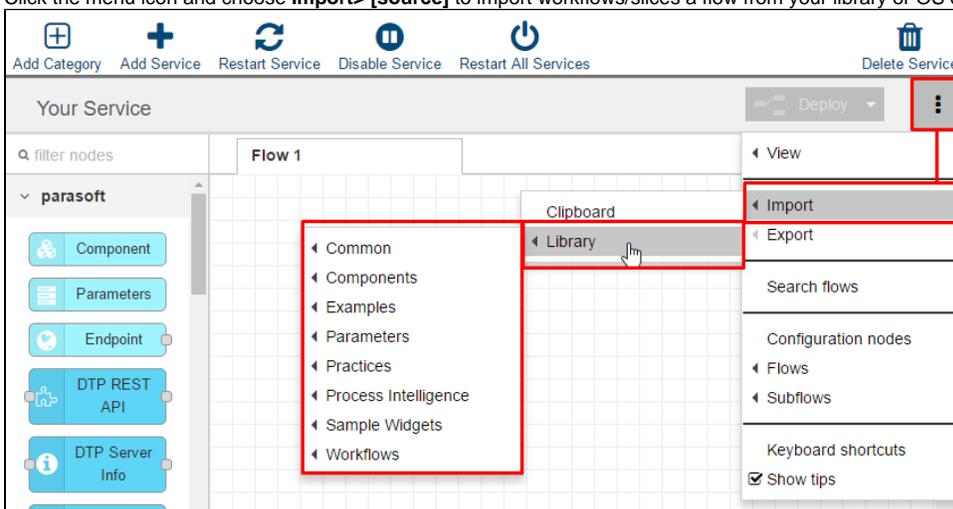
function

template

You should use Debug nodes to verify functionality as you create your flows. See [Debugging Services and Flows](#).

Importing and Exporting Flows

1. Click the menu icon and choose **Import> [source]** to import workflows/slices a flow from your library or OS clipboard.



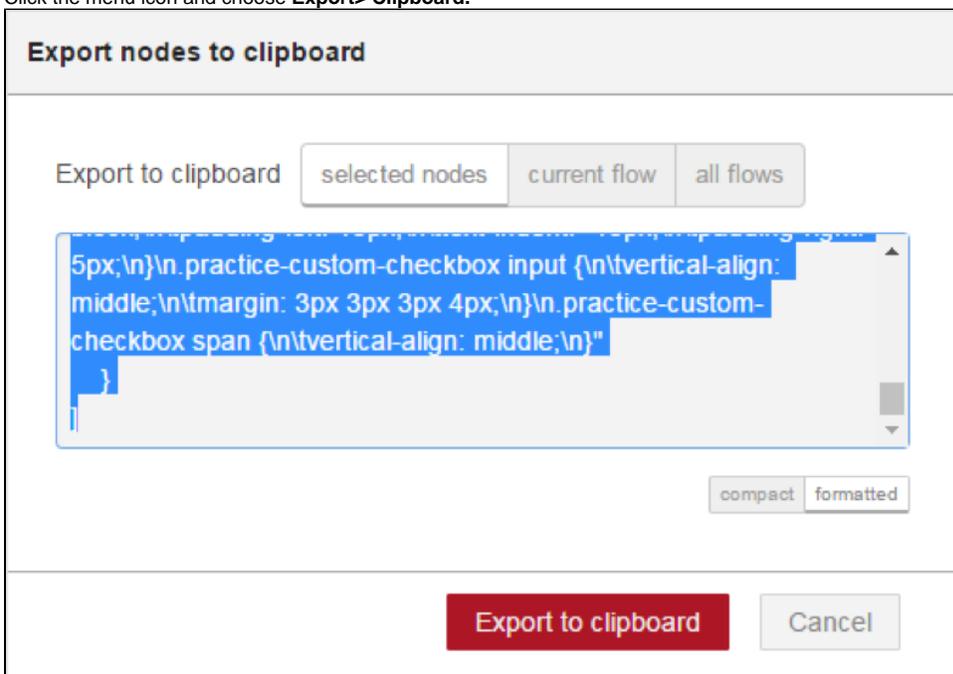
The library contains example components shipped with Extension Designer, as well as extensions downloaded and installed from the marketplace. See [Downloading and Installing Artifacts](#) for more information.

2. Configure the nodes in the imported flow according to your needs (see [Working with Nodes](#)). You should use Debug nodes to verify functionality as you create your flows. See [Debugging Services and Flows](#).

You can also export a workflow/slice you created as JSON to your OS clipboard or to your artifact library.

Clipboard

1. Click the menu icon and choose **Export> Clipboard**.



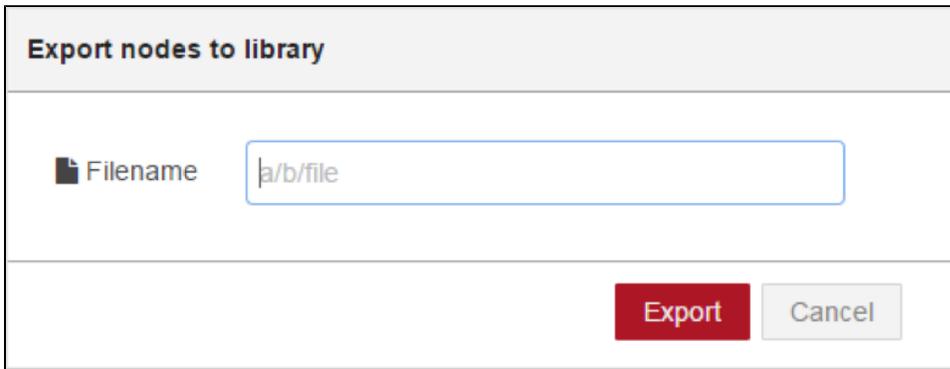
2. Choose whether you want to export selected nodes, current flow, or all flows, as well as whether the JSON should include line breaks when prompted.
3. Click **Export to clipboard**.

Library

1. Click the menu icon and choose **Export> Library**.

Export Flows to Your Own Directories

Flows exported to any of the library directories shipped with Extension Designer (Common, Components, Examples, etc.) will not be restored during a restore or upgrade process.



2. Enter a name for the file. You can use forward slashes to nest the file into a subdirectory.
3. Click **Export** to finish.

About the Artifact Library

Artifacts that have been downloaded and installed are stored for use in the Extension Designer library. In addition to storing artifacts, the library also includes commonly used flows, examples, and other building blocks to help you quickly build custom flows and understand how Extension Designer works.

Artifacts are organized into category by type:

- DTP Workflows are stored in the Workflows folder
- PIE Slices are stored in the Process Intelligence folder.

Additional flows shipped with Extension Designer are organized into the following folders:

- Common: Contains all utility flows that you can use to help you build custom flows. It contains useful examples on how to get specific data (build IDs) and how to store metadata in DTP.
- Components: Contains built-in widget components that you can use to create custom widgets and reports.
- Examples: Contains built-in example flows.
- Parameters: Contains built-in widget parameters that you can use to create custom widgets and reports.
- Sample Widget: Contains sample widget flows for reference.

The additional flows contain documentation the describe how to use them. See [Extension Designer Tutorials](#) for additional information.

Disabling Flows

You can disable a flow to prevent its endpoint from being called. Widgets associated with the flow are also unavailable in DTP. If a widget has already been deployed to DTP, the widget will show a "No permission or deprecated" message.

1. Open a service and double-click the tab containing the flow you want to disable.



2. Click the Status button to disable the flow and click **Done**.
3. Click **Deploy** save the changes to your flow.

To verify that the flow and its endpoint is disabled, click on the service category and expand the Available Endpoint page to the disabled flow.

The screenshot displays a web interface for configuring DTP Workflows. The top navigation bar includes 'Services', 'Model Profile', 'Configuration', 'Add Category', and 'Add Service'. The left sidebar shows a tree view with 'Process Intelligence Engine' (containing 'Compliance Pack 5.4.x') and 'DTP Workflows' (selected, containing 'codeBeamer', 'Jeehong Portfolio', and 'Compliance Practices'). The main content area is titled 'DTP Workflows' and shows 'Available Endpoints' with a 'Show Types: All' dropdown. Under 'codeBeamer', there is a 'Jeehong Portfolio' section containing a widget named 'Example Table Widget' which is marked as 'Disabled' and has a red box around it. The widget description reads: 'This is a description for the widget. Put your custom description here.' The flow is identified as 'Flow: Flow 1'.

Next Steps

When flows have been added to your service and configured, you can click the Deploy button to make them available to DTP. See [Deploying Services](#) for details.