

Creating Tests from a Swagger Definition

SOAtest can automatically create a .tst based on the endpoints found in a Swagger description. Each .tst generated via the Swagger wizard will contain REST Clients for all of the defined endpoints.

Swagger Specification 1.0 - 2.0 is supported—including any Swagger core versions that are compatible with these specs (e.g., Swagger core 1.0.0, 1.2.4, 1.3.12, 1.5.0-M1, 1.5.0). Java 7 or newer is required to use SOAtest's Swagger functionality (Java 8 or newer on Mac).

To automatically create a test suite from a valid Swagger definition:

1. Choose the **REST> Swagger** option in one of the available test creation wizards. For details on accessing the wizards, see [Adding a New .tst File to an Existing Project](#) and [Adding a New Test Suite](#).
2. In the Swagger wizard page, enter the absolute URI at which to find the Swagger definition in the **Swagger Definition** field. To reference a file on your local system, use a file URL (for example, file:///c:/Users/user/API/api.json).
3. Click **Next**. The **Create Environment** dialog opens.
4. (Optional) Specify whether you want to reference an existing environment or create a new one.
 - To create a new environment:
 - a. Select the **Create a new environment for your project** checkbox.
 - b. Enter an **Environment Name** and **Variable Prefix**.
 - To reference an existing environment, select **Reference an existing environment** then specify the appropriate environment file.
 - For more information on environments, see [Configuring Testing in Different Environments](#).
5. Click the **Finish** button.

When a .tst is generated, it includes one REST Client for each resource/method pair in the Swagger definition.

- Each REST Client is set to be constrained to the specified service definition and schema (if applicable).
- Its resource URL, HTTP method, and payload (if applicable) are configured accordingly.
- The service's base URL is configured as a "BASEURL" variable, and each resource URL is parameterized with the "BASEURL" variable.
- Query parameters are included with default or sample values (if available) as defined by the service definition.
- If the service definition includes a schema, a sample payload is constructed from (and constrained to) that schema.

Video Tutorial

In this video, you will learn how to automatically generate tests for endpoints using an OpenAPI/Swagger definition.

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