DOME 4.0 marketplace ecosystem: register API specification

This part of the documentation refers to the registration of API specification of the DOME 4.0 marketplace.

The DOME 4.0 platform, in addition to enabling the discovery of registered data providers (catalog data and connectors) and data consumers (tools and services), also connects compatible data providers and data consumers via semantic linkage. This semantic linkage is realised in the form of an API specification. This can be checked on the info page of the respective connectors and tools under the "Conforms to standard" as shown in Figure 1.

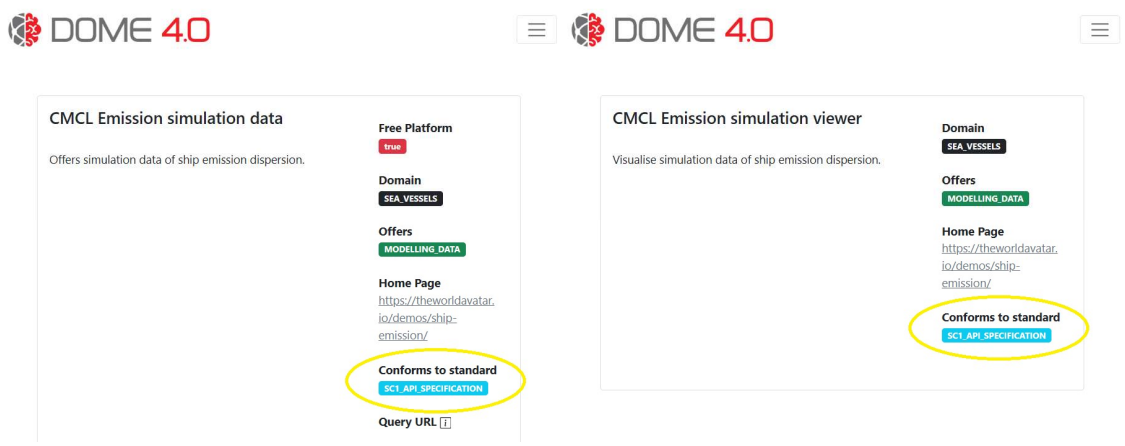

Figure 1: Connectors and tools may conforms to API specifications.

When users search for a dataset on the DOME 4.0 platform, the platform will automatically discover tools that comply to the same API specifications as the data provider of the dataset. A button will appear on the results page as shown in Figure 2, which allows users to pass the dataset to the linked tool which further process the dataset.

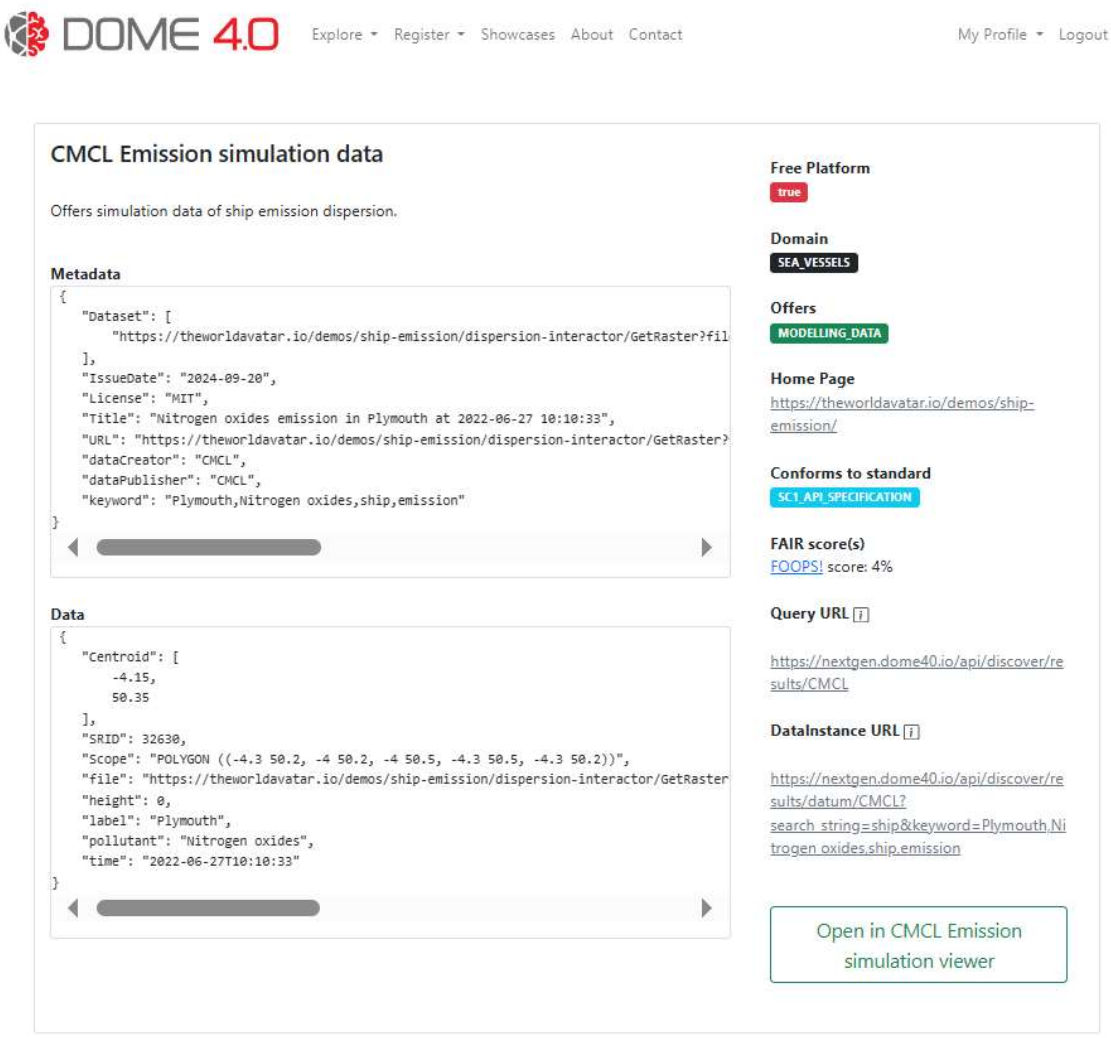

Figure 2: The API specification enables linkage between data providers and data consumers.

Users may register additional API specifications to the DOME 4.0 platform for their use cases. This shall be done before the registration of connectors and tools. The registration page may be accessed through the top menu on the webpage “Register” → “Register API Specification”, as shown in Figure 3.

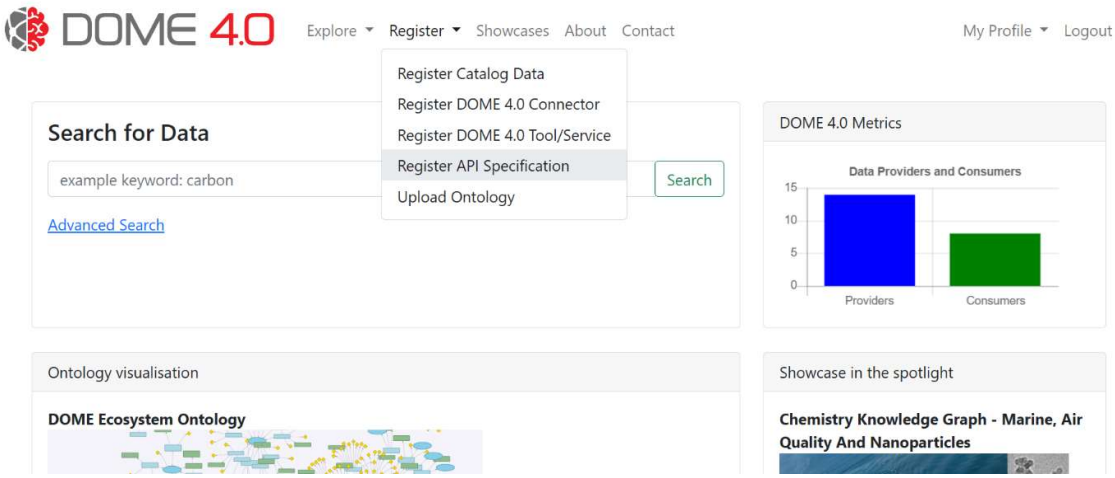

Figure 3: API specification registration page may be accessed through the top menu.

On the registration page as shown in Figure 4, user needs to specify the name of the API specification. An URL that links to documentation about the API specification may be included optionally. Users will be redirected to a new page that returns a message about the outcome of the registration process, as shown in Figure 5.

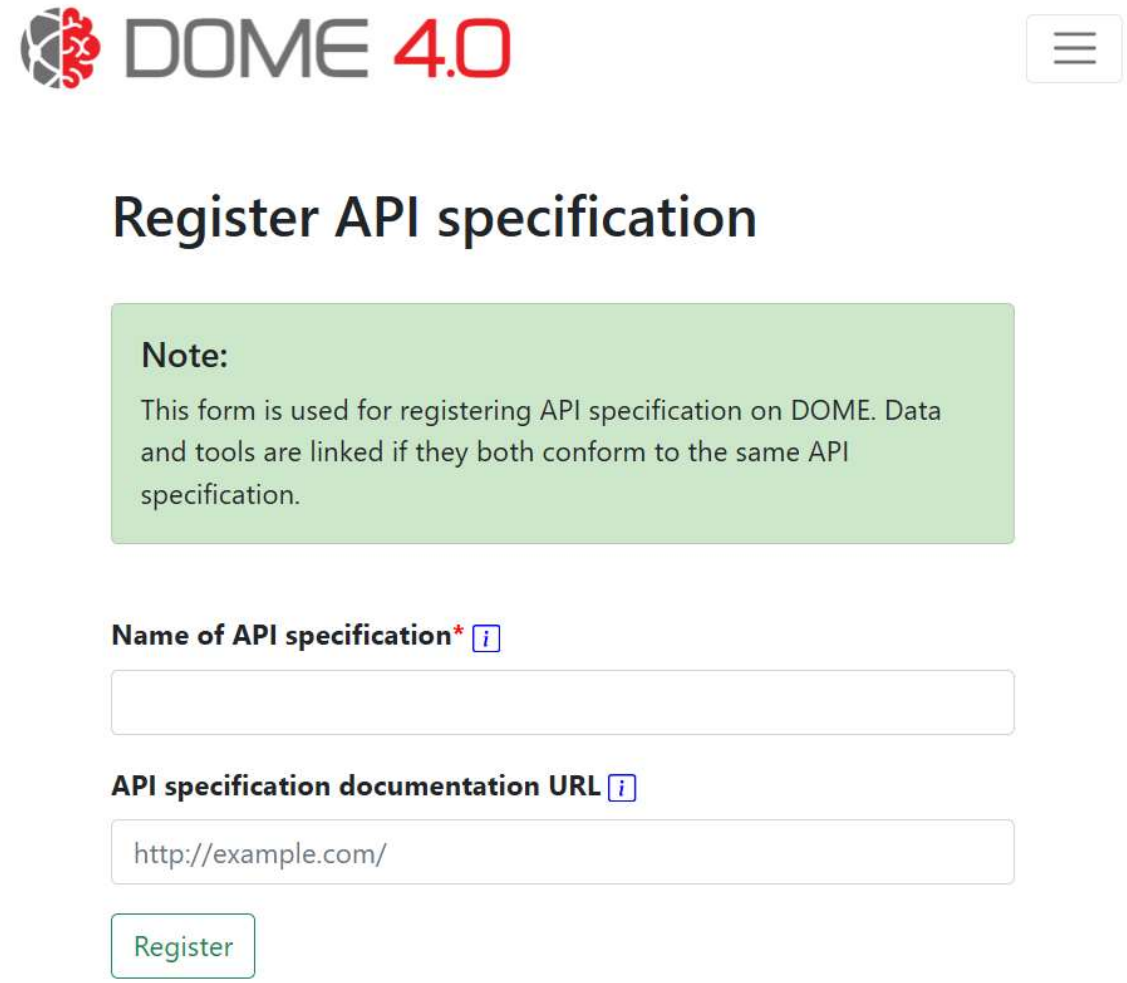

Figure 4: Registration page for API specification.

Figure 5: Outcome of successful API specification.

Upon successful registration of API specification, it should appear in the registration form of catalog data, connectors and tools under “Conforms to a Data Standard”, as shown in Figure 6.

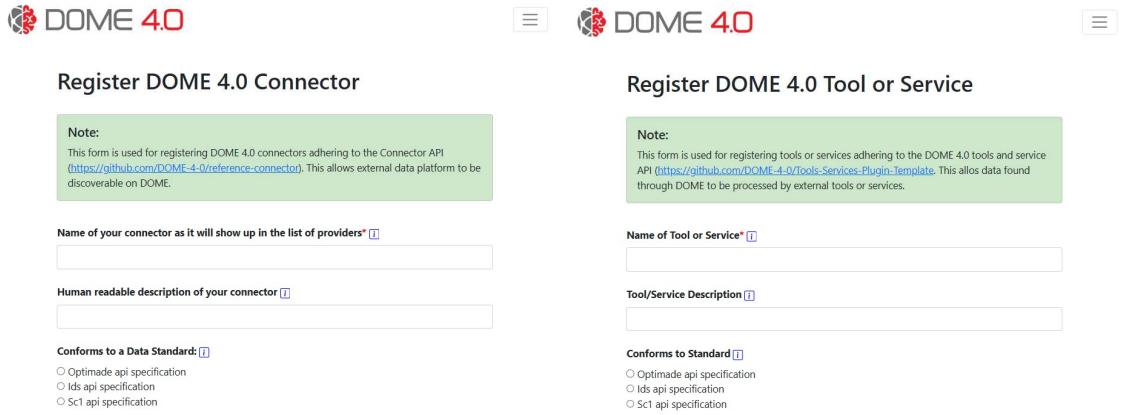

Figure 6: registered API specifications should appear and be selected on registration pages for catalog data, connectors and tools.