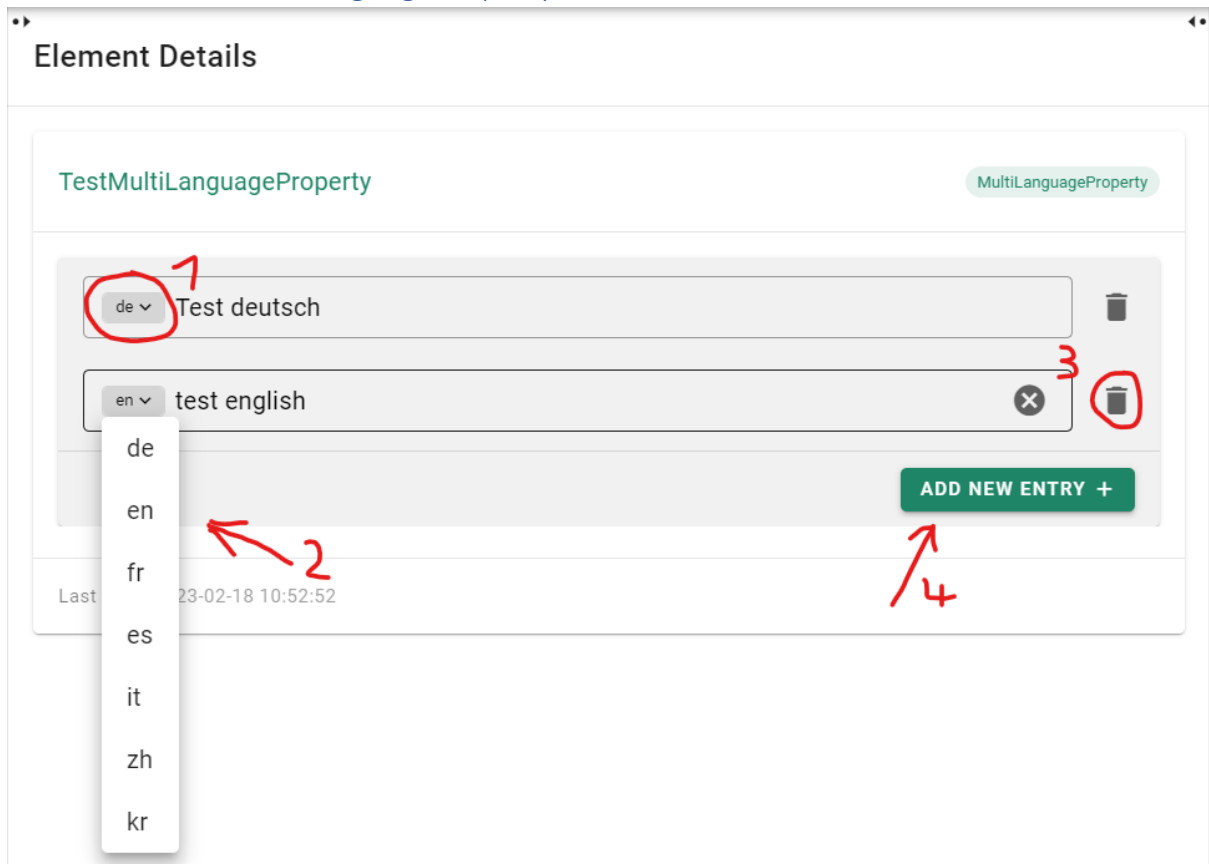


New Release Features:

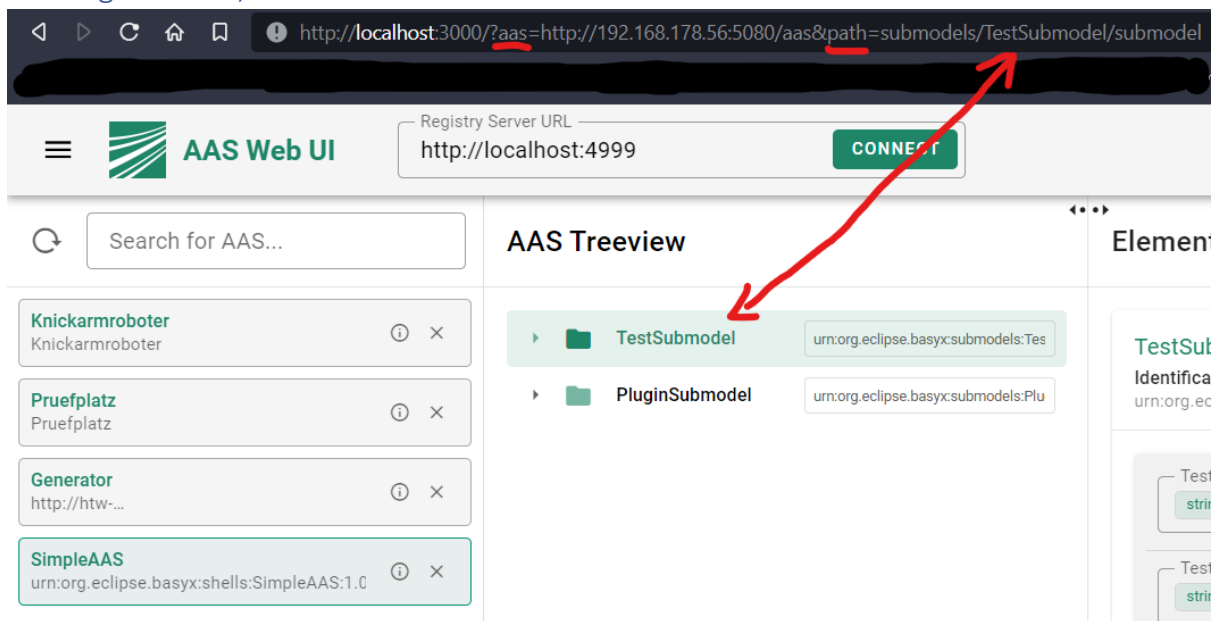
Edit feature for MultiLanguageProperty



How to interact with MultiLanguageProperties in the new release:

1. Open language-selection menu if you wish to change the language of an entry. (If you add a new entry, no language is selected as default.)
2. Select desired language from the list.
3. If you wish to remove an entry, you can click the delete-icon on the right of the entry.
4. You can add a new entry by clicking the plus-button below.

Routing of Shells, Submodels and SubmodelElements



In the newest release, you can also access Asset Administration Shells and their SubmodelElements in the GUI over the URL. There are two URL-Queries in use to achieve that:

- aas
- path

Both Queries and their values are separated by an '&'. The aas-querie includes the endpoint of the shell. The path-querie holds the path to the selected SubmodelElement. An example is shown in the image above. This feature opens up a few practical possibilities:

1. When reloading the page, the last opened Asset Administration Shell and the selected SubmodelElement will be opened again automatically.
2. Opening a new Tab with both queries already set opens the GUI at the exact SubmodelElement which was given as filter over the URL.
3. With the feature, it is possible to visualize and interact with shells which haven't been registered in a BaSyx-Registry. You can enter the endpoint for the AAS in the URL (e.g.: <http://localhost:3000/?aas=endpoint-of-the-aas/aas>)

PDF preview

Element Details

embeddedPDF File

Description:

- en This is an exemplary PDF attached to the Asset Administration Shell
- de Dies ist eine Beispiel PDF, welche an die Verwaltungsschale angehängt ist

Path:

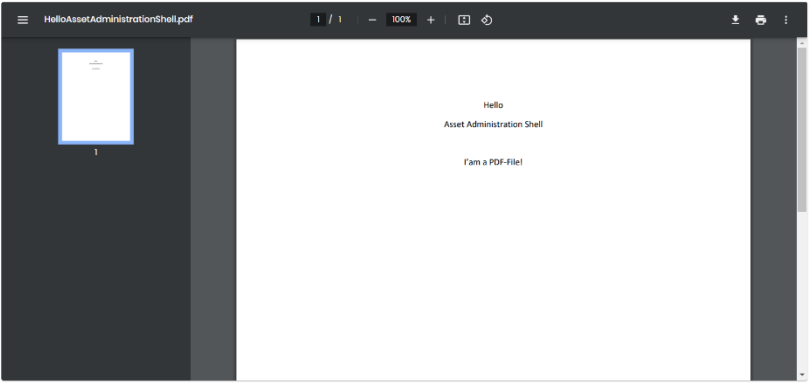
Mime Type: DOWNLOAD FILE

+

UPLOAD FILE

Last sync: 2023-02-19 10:30:05

Visualization



PDF-files are now being automatically preview in the 'Visualization'-window of the GUI. This works for PDF's embedded in the Asset Administration Shell and PDF's which are linked over their URL.

Image preview

Element Details

embeddedImage File

Description:

- en This is an exemplary Image attached to the Asset Administration Shell
- de Dies ist eine Beispiel Bild, welches an die Verwaltungsschale angehängt ist

Path:

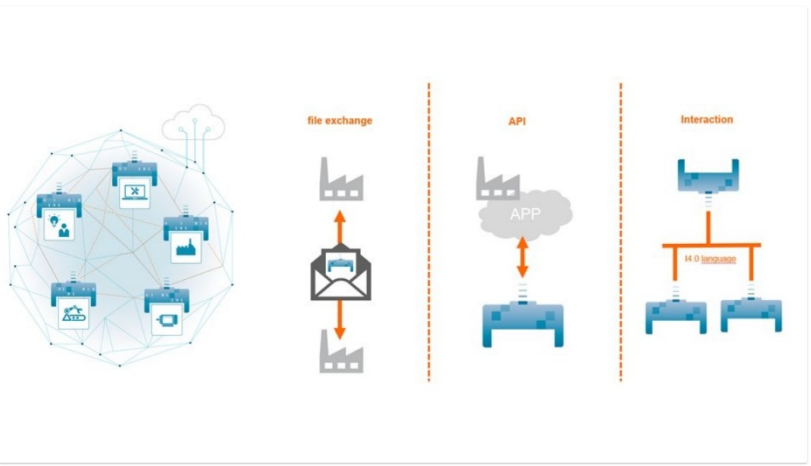
Mime Type: DOWNLOAD FILE

+

UPLOAD FILE

Last sync: 2023-02-19 10:30:52

Visualization



Images are also previewed in the 'Visualization'-window now. This also works for embedded images and linked images.

HelloWorld-Plugin

The screenshot shows the 'HelloWorld-Plugin' configuration in the GUI. The 'Element Details' panel on the left shows the plugin's identification (IRI: urn:org.eclipse.basyx.submodels:PluginSubmodel:1.0.0), semantic ID (http://hello.world.de/plugin_submodel), and various properties like 'TestProperty1' (string: TestValue), 'TestMultiLanguageProperty' (Test deutsch, Test english), 'embedPDF' (/HelloAssetAdministrationShell.pdf), and 'embedImage' (/Verwaltungsschale_Spezifikationen.jpg). The 'Visualization' panel on the right shows the 'Hello World Plugin:' section with a 'Value:' field (string: TestValue) and a 'Path:' field (application/pdf: /HelloAssetAdministrationShell.pdf). There are also buttons for 'ADD NEW ENTRY +', 'DOWNLOAD FILE', and 'UPLOAD FILE'.

The HelloWorld Plugin is an introductory plugin for developers interested in developing their own plugins for Submodels and/or SubmodelElements. The plugin is located in the plugins-folder inside the components folder in the source of the project (<https://github.com/eclipse-basyx/basyx-applications/tree/main/aas-gui/Frontend/aas-web-gui/src/components/SubmodelPlugins>). In general, plugins are bound to a SemanticID. If a Submodel or a SubmodelElement has the fitting SemanticID, the plugin will be shown in the 'Visualization'-window of the GUI.

Most of the time, plugins will require the exact data structure, which is expected when an element has the SemanticID belonging to the plugin. An exception for this is the HelloWorld-plugin. It is intended for Submodels in general, which can have any number of SubmodelElements as long as they are of the modelType 'Property', 'MultiLanguageProperty', 'File' or 'Operation'. The plugin will be shown if your Submodel has the SemanticID http://hello.world.de/plugin_submodel.

DigitalNameplate-Plugin

The screenshot shows the 'DigitalNameplate-Plugin' configuration in the GUI. The 'Element Details' panel on the left shows the plugin's identification (IRI: https://admin-shell.io/zvei/nameplate/1/0/Nameplate), semantic ID (https://admin-shell.io/zvei/nameplate/1/0/Nameplate), and various properties like 'ManufacturerName' (Universal Robots), 'ManufacturerProductDesignation' (LRS), 'ManufacturerProductFamily' (SerialNumber, YearOfConstruction), 'Markings', and 'AssetSpecificProperties'. The 'Visualization' panel on the right shows the 'Digital Nameplate:' section with a 'ManufacturerName' dropdown menu (Universal Robots) and a list of other properties like 'ManufacturerProductDesignation', 'Address', 'ManufacturerProductFamily', 'SerialNumber', 'YearOfConstruction', 'Markings', and 'AssetSpecificProperties'.

The last new feature is a plugin for nameplates. It is used to display digital nameplates. If your Submodel has the SemanticID <https://admin-shell.io/zvei/nameplate/1/0/Nameplate> and the right data structure, it will be visualized via the plugin in the 'Visualization'-window of the GUI.