

MOD01: Nameplate-Generator

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Project

AAS-Webclient

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1 Scope

The AAS web client is a display interface for presenting the data taken from an AASX server. Therefore, correct generation and display of Nameplates are important.

2 Glossary

- AAS: Asset Administration Shell
- AASX: file format to store an asset
- NPG: Nameplate Generator

3 Module Requirements

3.1 User View

The user can view the Nameplate for the specific Asset at will, they are able to generate and download the Nameplate in the form of a SVG-File. This is triggered by a button, that is present in every Asset.

3.2 Requirements

REQ/ NPG-API (The API of the NPG must be available)

4 Analysis

A API request must be made to the NPG, a valid response must be received. The data from the response must be displayed correctly and a download feature must be present.

5 Design

The image shows a UI design mockup. At the top, there is a light blue header bar. Below it, there is a white rectangular box. Underneath this box is a horizontal line. Below the line, there are two rounded rectangular buttons stacked vertically. The top button is light blue and contains the text 'JSON downloaden'. The bottom button is light blue and contains the text 'Nameplate sehen'.

When the User clicks on the <Nameplate sehen>-Button the SVG-File will be shown fullscreen and can be downloaded from there.

6 Implementation

In the file `assetBody.js` with the function `openNameplateGen` the API from the Nameplate Generator gets send a request with the Asset ID.

In the previous project, this functionality wasn't implemented. There was no basis for the function.

The `openNameplateGen` creates a link that is automatically pressed to go to the response SVG-File.

```
{
const data = await
fetch("http://localhost:8080/Nameplate/GenerateByReference/"+shellBody.hide.URL)
.then() => {
    const link = document.createElement('a')
    link.href = data;
    link.download = 'nameplate.svg';
    document.body.appendChild(link);
    link.click();

    document.body.removeChild(link);
}).catch()
}
```

Sometimes the API returns no response, this is likely due to the Nameplate Generator server being down or unreachable.

7 Module Tests

Testing for this module is conducted through usability tests. An Asset is chosen and then the <Nameplate sehen>-Button is pressed. The expected result is a redirect to a new page where the SVG-File that has been returned by the API of the specific Asset is shown. There it can be downloaded.

