

openMDM Architecture Committee

Meeting Notes: 2019-03-08

Author: Stefan Ebeling

Attendees

The following members were present:

- Jan Blockx (Siemens AG)
- Matthias Ebeling (Daimler AG)
- Stefan Ebeling (BMW AG)
- Stefan Wartini (Müller-BBM VibroAkustik Systeme GmbH)
- Angelika Wittek (openMDM Toolkit Manager)

The following guest was present:

- Matthias Koller (Peak Solutions GmbH)
- Alexander Nehmer (Atos SE)

The following members were absent:

- Christian Krenner (AUDI AG)

Topics

Status Dev Team (Angelika Wittek)

Last week the M2 was released. The team is working on the Angular upgrade which might be merged into the Git repository in CW 11. Beforehand the already initiated IP checks have to be completed successfully.

File Links in the openMDM API (Jan Blockx, Matthias Koller)

Jan explained an enhancement for the openMDM API: Support to retrieve attributes of type FILE_LINK and FILE_LINK_SEQUENCE and download the associated file(s) based on retrieved FILE_LINK values.

Currently it is not possible to retrieve attributes of type FILE_LINK and FILE_LINK_SEQUENCE from the openMDM5 REST web service. Furthermore, if the value of a FILE_LINK would be known, currently there is no way of downloading the file over the openMDM5 REST API.

Thus, first the values for attributes of type FILE_LINK(_SEQUENCE) have to be returned when loading a business object. Second, it must be possible to download the actual file through the REST API, if the client knows the value of the FILE_LINK attribute.

Matthias described two possibilities for REST endpoints (URLs) for downloading the content:

1. Adding a new path to each business objects supporting FILE_LINKS.
2. Create a new generic URL.

The backend needs (beside the file link) the business id for security checks. That's why the first suggestion is the favored one.

The PAK cloud *does not support* a comparable feature. Matthias Koller and Stefan Wartini will discuss a feasible API design in CW 11. The results will be sent to the AC members afterwards.

Custom types (Matthias Ebeling, Andreas Nehmer)

Matthias Ebeling reported on a planned project at Daimler that needs several enhancements in the openAPI and the REST API. One of the objectives is the support of user defined types – a feature that is built in the ASAM ODS data model but as today not supported by the openMDM abstraction.

Andreas Nehmer explained the general idea of how to integrate these user defined types: Define extension points in the `org.eclipse.mdm.api.odsadapter.lookup.config.EntityConfigRepositoryLoader`.

The AC agreed on the usefulness of these enhancements but would like to discuss the details of the design (e.g. descriptive UML diagrams).

The project has not started yet. A system proposal is postponed. Matthias Ebeling will clarify the internal timeline and invite to a follow up meeting.

Financial outlook (Angelika Wittek)

The rest of this year's budget allows only two days per week for the dev team and one day per week for our Project Manager.

Next call

The next AC call is scheduled for April 12th 2019.