Minutes of Architecture Committee

20150306 – Conference Call

Participants

Members
- Andreas Benzing (Transcript Writer, Chair)
- Stefan Ebeling
- Gerwin Mathwig
- Christian Rechner
- Stefan Wartini

Topics

Technology Decision

The participants discuss the currently available information of the OpenMDM® 5 Architecture Technology Matrix. The primary arguments for the two candidates, OSGi and CDI, are elaborated.

OSGi
- The question whether it is possible to deploy OSGi-based applications in a web container for backend services is answered positively.
- Components of the AUDI MDM5 prototype have been successfully converted from the previous customized implementation to standard OSGi.
- The tendency of the Eclipse environment towards OSGi is noted.

CDI
- CDI provides a more lightweight approach with potentially less runtime overhead.
- A runtime environment is needed for CDI as well.
- Unmodified OSGi-bundles can be reused with CDI. However, an adaptation of components is required anyway during the transition to MDM5.

Result

Both candidates provide all required functionality. The factors relevant for the decision therefore are the reliability of the technology and the expected effort for implementation and organization.

While CDI does provide higher flexibility it requires more effort for maintaining the required additional technologies. OSGi has proven to be reliable and usable despite a potentially higher overhead. All in all, OSGi is not entirely up-to-date but well known by the participants of the openMDM community while CDI still is a fairly new technology and therefore currently entails too much uncertainty.

The AC unanimously votes to use OSGi.

ASAM Interaction

Since the ASAM is currently discussing a new transport technology for ODS, the AC will aim for a close collaboration with the corresponding committee to facilitate exchange of knowledge in both directions.

Next Meeting

The next open conference call will be held on March 20, 2015, 11:00 CET.