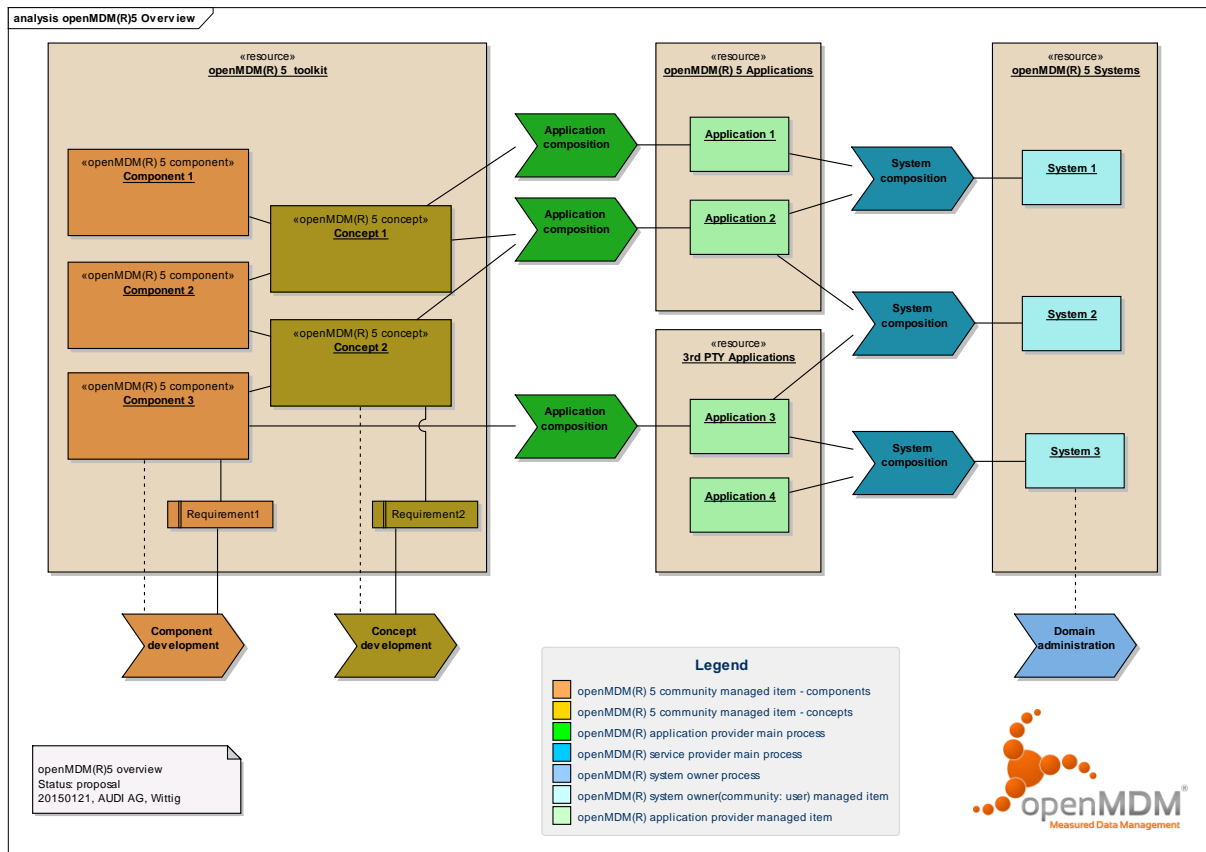


openMDM® 5 top level goals

openMDM® 5 is intended to be a kit of components and concepts, which can be used to compose applications for measured data management systems. The development of components and concepts is driven by the openMDM® Eclipse working group. All components and concepts have to be published under the eclipse public license.



The following issues shall be covered by openMDM® 5:

- Support for measured data management specific processes.

openMDM® 5 shall support the main processes around test data generation and usage as needed for providing a complete and correct test documentation (test specification/test planning/test result import). openMDM® shall be aware of the possible distribution of process steps to different organizations or organizational units.

- openMDM® 5 shall support the reuse of
 - test results (measured data) managed by openMDM® systems, but also of
 - openMDM® 5 components within the openMDM® 5 toolkit

- openMDM[®] shall support the agile composition of applications without programming, only by combining components and possibly configuring them. This shall serve to distribute independent tasks within the system development to people with different skills with respect to IT technology, software development, user processes (that is testing processes), system operation etc.
- openMDM[®] applications and systems shall fit to the existing IT infrastructure of the different companies. They have to be aware or allow for the use of
 - possibly existing zone architectures
 - enterprise services (directories, authentication, authorization, ..)
 - resources (storage, connectivity, operated / managed services)
- openMDM[®] applications must be operable with minimal interdependence. Thus, openMDM[®] shall be robust with respect to the failure or temporal availability gaps of single services (provided by an application).
- openMDM[®] systems can be configured and administered secure and safe. The openMDM[®] 5 is certified for that.
 - The measured data managed by the system is only accessible by authorized users.
 - System access only can be gained by strong authorization methods.
 - Information exclusively is transported via sufficiently encoded channels
- openMDM[®] can be adapted to the specific domains by configuration and administration. openMDM[®] 5 provides special roles focused on the skill level needed for that
 - Administration of documentation schemes for “units under test”
 - Administration of documentation schemes for “test cases / scenarios”
 - Administration of documentation schemes for “test equipment”
 - Administration of measurement quantities and units
 - Interfacing with 3rd party software
- openMDM[®] 5 provides maximum independence on soft- and hardware vendors
- openMDM[®] 5 is open, thus it promotes the development of markets for openMDM[®] specific
 - service providers
 - application vendors
 - test providers

Tasks in application- and system development can be distributed to various organizations or persons, based on the component structuring. The responsibility for the development or maintenance of components can be transferred seamlessly.

- The development of components capable of running in different runtime environments (web, rich client, mobile device, headless) shall be possible.
- openMDM® 5 systems shall be compatible with respect to the data generated within their preceding systems
- openMDM® 5 systems shall base on the ASAM ODS standard. Thus, all data managed by openMDM® 5 systems shall be accessible via the ASAM ODS standardized interfaces.
- openMDM® 5 shall be scalable with respect to
 - the data volume managed by the system
 - the users working with the system
 - the data (processing) throughput
 - the distribution / topology / logistics of data
 - the distribution / topology / logistics of processing resources
- openMDM® 5 systems shall be aware of the synchronized management of data logistics and the logistics of processing resources and data access (“Big Data”)