

1 TODO RoadMap for M14 demo

Working with ABAC and Semantic technologies; combining the two.

1.1 First steps:

1.1.1 Work with existing ABAC technology and engines, based on the standards like XACML and extensions/profiles for health and SAML and profiles for health.

1. Learn and make tutorial on the existing technology
 - (a) **TODO** Tutorial (2 lectures) on ABAC and Semantic ABAC to be given at UiO in February. This will be filmed and provided to the SCOTT extranet in WP21 area.
2. Identify Semantic technologies and ontologies that are used in health and can be most useful for our scenario described in D.21.1

1.1.2 TODO Make a comprehensive survey on th literature related to Semantic ABAC . To be finalized before summer.

1.1.3 TODO Provide an example of usage of ABAC in health.

1. Adapt this educational example to the use case of D.21.1

1.2 Second steps:

1.2.1 Make an installation local on the working computers of UiO with XACML engines and ontologies

1. One installation will be used for research, to extend to SABAC and test on our internal computers
2. A second installation will be dedicated to the SCOTT D.21.1 use case. This should be accessible as described in the I/O document provided on SharePoint.
 - (a) This can be seen as a cloud installation, in the beginning.
 - (b) If/when needed we investigate how such an installation can be made on the Edge inside a home gateway...

1.2.2 first Integration with the D.21.1 architecture

1.3 Third steps:

1.3.1 Include Ontologies and Semantic engine with the ABAC engine

1. Existing ontologies to be identified
 - (a) How much do these fit the M14 demo and how much these need to be extended adapted for our use case ?
2. Existing Semantic engines identified and which can be integrated with the needed ontologies and the ABAC engine
3. Existing SABAC tools and theories identified (from the Survey done in First steps

1.3.2 Make an installation of Semantic engines with the chosen ontologies

1.3.3 Make an installation of SABAC engines

1. Either extend previous ABAC engine or choose from the existing tools identified before
2. Make one installation tailored to SCOTT D.21.1 demo
3. Make one internal installation for research purposes

1.3.4 second integration with D.21.1, including Semantics aspects this time.