

Security and Privacy Modeling and Implementation with XACML/ALFA and Fabric

Meeting Date: March 25th, 2022.

Start Time: 9:00 AM

End Time: 9:30 AM

Attendees: Dr. Yue, Dr. Sha, Siddhartha Illa, Venkata Naga Bhaavagni Maddi, Farhana Begum Shaik, Sripada Vallabh Kaparathi, Ganesh Nyaupane

Prepared By: Venkata Naga Bhaavagni Maddi

Items Discussed:

1) Bhaavagni and Farhana (Working on Smart Contracts)

Gave updates on the work done i.e passing JSON Schema into the Smart Contracts.

Dr. Yue

A) Please make use of all resources, Sample JSON Schemas provided. Follow up with RAs to work on the things simultaneously.

2) Sripadh (Working on storing and retrieving certificates from the postgres database)

Feedback on the presented work.

Dr. Yue

A) There is no metadata, how can one know which user owns a certificate? There has to be database design, Relation Schema.

Dr. Sha

A) Try to store certificate in database and retrieve the certificate and authenticated. Try analysing purpose of storing certificate.

3) Sidharth (Adding and Modifying attributes for the identities)

Trying to develop an stand alone application using the Fabric SDK go that has identity management capability, trying to enroll and register few users. After connecting the application to the SDK network, while querying for identities there are few marshalling and connection issues encountered.

We need to modify the attributes of the identities? Are we supposed to be creating the identities?

Dr. Yue

A) You need not create identities, just we need to get and enroll the identity from certificate authority and enroll it into fabric, while enrolling you are supposed to add the attributes which comes from CA. For the client application, its better to use Javascript instead of Go Lang.

Items for next week:

- 1) Developing Smart Contracts for the ChangeRequest Policy.
- 2) Adding and Modifying attributes for the identities.
- 3) Storing and retrieving certificates from the postgres database.