Blockchain PSG Call Notes

*4 June 2020*

# Attendees

* Mike Bennett
* Ian Stavros
* Rob Nehmer
* Nick Stavros
* Robert Rencher

# Agenda

* Agenda for Quarterly Meeting
* LETS RFP Draft

# Meeting Notes

## Agenda Planning

Wed afternoon 1:30 – 5pm (Eastern Time)

3 hours + 30 min coffee

### Possible Agenda Items

* Interoperability RFI potential RFPs
  + Low level protocols ontology – too soon?
  + Treatments for domain concept models – ongoing
* Self Sovereign Identity: disposable Identity RFP
* Tangle (Node) RFC
  + With Coordicide features
  + Possibly draft
* LETS RFP
* Event Dispatcher RFP on hold
* DIDO
  + DIDO-CLI
  + DIDO-RA, TE, others
* New ideas

### Timings

* Interoperability RFI potential RFPs Discussion
  + Low level protocols ontology – too soon?
  + Treatments for domain concept models – ongoing
* Self Sovereign Identity: disposable Identity RFP – 1/2h
* Tangle (Node) RFC
  + With Coordicide features
  + Possibly draft
  + Not only the Node but the overall ecosystem
* LETS RFP – 1/2h
* DIDO
  + DIDO-CLI, DIDO-RA, TE, others
  + New paper

### DIDO

#### DIDO RA

Finished the DIDO 2.0 RA Document (about 800 pages)

Review and approval at MARS.

Anything we need to cover on that?

#### DIDO-CLI

Update on CLI progress (this meeting)

#### DIDO Reference Implementation

Update? Yes… (the GUI stuff) Ian

#### DIDO Test Environment

Update? Demo? Yes – Brian

Timing: Late afternoon or lunch time. Availability limited so will have to conf

We are meeting 1:30 – 5pm ET (10:30am – 2pm PDT)

We could start at 1pm since there’s no lunch. No – already posted.

Or Ian can talk both to the interface and to the back end, the latter being relevant to the TE.

Outcome: Do these first (1:30). 1 hour total (1/2h each) for RI and TE.

DIDO CLI timings: 15 min.

So…

1:30 – 2pm DIDO TE

2 – 2:30: DIDO RI

2:30 – 2:45: DIDO CLI

2:45 – 3: Coffee

3 – 3:30 – Tangle Ecosystem update (covering Tangle RFC)

(won’t cover Level 2 protocols like Streams)

3:30 – 4 – LETS RFP

(and IOTA streams overview)

4 – 4:30 – Disposable SSIDs RFP

4:30 – 5:00 other possible RFPs coming out of the RFI

* + Low level protocols ontology
  + Treatments for domain concept models

Discuss next steps and timings for those

**Conclusions:** Go with these timings.

## LETS RFP

### New Material from IOTA

Incorporated in doc for now, for illustration but we may remove it. Covers new things we did not know.

Q: Do we include the IOTA Streams slideware in the OMG RFP document.

Would the OMG give us a hard time anyway for colors?

Replace with simpler diagrams if needed.

The color guideline for Specifications is that color-blind people should not be limited by there being unique information that relies only on a color distinction for the meaning of anything in a specification.

It is not necessarily the case that this applies to RFP but it would be nice to follow it anyway.

### DDS

See DDS Security Specification

* Topics instead of Streams
* Keys and the passing of keys is described in the DDS Security spec

We would not want a competing spec that says the same thing.

Some of what is in the Streams spec is covered in DDS Security.

Some will not be since it is specific to DLTs.

Also some of what is new may be described in the language DDS itself (Streams i.e. publish / subscribe).

### DDS Quality of Service

DDS also has Quality of Service, which is not included in IOTA Streams.

The QoS stuff may simplify some of the IOTA Streams message traffic.

e.g. Permanode – set a QoS parameter in DDS to tell that node to record that information.

### More Detail on QoS

There are 26 standard QoS.

In IOTA there is a delay parameter that makes sure you wait long enough to be sure that the next IOTA Message has been posted to the Tangle.

Also there are QoS for what happens when you haven’t been connected for a time, whether you care about the history and so on.

Recall that Streams messages are not related to the underlying IOTA Tangle transactions. There are QoS parameters applicable to both levels but we are only talking about the Streams messages.

Recommend that IOTA engineers partake in an one hour session with OMG people on how Pub Sub works in DDS and how QoS work in DDS. There are 7 layer of standards in DDS each of which have applicability to Tangle Nodes and potentially also to Streams.

### XTypes

See also XTypes.

In XTypes, you start with a message with X and Y, then a new message has a new parameter Z XTypes allows you to move to the new one with the 3 variables, and keep the old ones in the system. Have rules for what happens when there isn’t a Z. X = eXtend.

This covers backwards compatibility for e.g. Tangle messages. Will therefore have a potential impact on Tangle protocol backward compatibility.

Some of this will also apply to the IOTA Tangle RFC.

### Outcome:

* Need to reference DDS
* Need to make reference to the specific parts of DDS

Arrange a session with e.g. Alan Minz, or Clarke, or Eric or Gerardo or someone else, to get a run-down of what QoS is. QoS would apply to the nodes. Parameters like how soon I get an update.

## Conclusions and Actions

* Nick can help arrange such a session.
* Ideally between now and the Quarterly Meeting.
* Adam Minz – open source of DDS.