Blockchain PSIG Meeting Notes

22 August 2019

# Attendees

* Char Wales
* SD Nelson
* Robert Rencher
* Mike Bennett
* Felix Krupar
* Karen Shunk

# Agenda

1. Interoperability RFI brief updates, new leads, upcoming sessions
2. IOTA Standards Plans update
   1. Brief explanation of MAM and EEE
   2. Plans for standards for these
3. IOTA / MARS discussions, RFC v RFP etc.;
   1. plans for Nashville
4. AoB

# Interoperability RFI

## RFI Overview

Looking to structure the nature of the possible answers to the interoperability question. There may be several potential standards at different levels or in different niches.

So far we have 2 aspects of structure:

* Level of Interoperability
  + Something like the 7-layer model
  + May not be that simple
* Kinds of Data
  + 5-part data model based on financial data, generalized
  + 1 = identification; 5 = complex analytics

For the -7-layer model analog:

* Transport layer likely to (mainly) be IP which already exists
  + But e.g. IOTA looking to extend to other transports (that also exist)
* Interaction via Smart Contracts versus oracles versus other app to app relations
  + Is this a layer or a range of kinds of thing at the same level?
* Interaction by being a participating node in two or more DLTs
  + Is this a layer? Which layer?
* Overall ‘Blockchain Operating System’ approaches
  + Blocknet
  + Overledger
* What else?

This is the kind of structure we will need to reflect in the formal RFI in order to ensure we have captured all the potential kinds of standard that may be submitted as responses to an RFP.

## New contact

Quant Network - Overledger

<https://www.quant.network/technology/overledger/>

### Overview:

Overledger is the world’s first blockchain operating system (OS) that not only inter-connects blockchains but also existing networks to blockchain and facilitates the creation of internet scale multi-chain applications otherwise known as mApps.

## RFI Meetings Plan

* 29 August – open
* 5 September – GS1 (Jim Lynch)
* 12 September – Monetha (Andrej Ruckij)
* 19 September – open

One of these will hopefully be a presentation from the Quant Network on Overledger. Will confirm availability ahead of next week’s call.

It may also be helpful to use the 19 Sept call to get an overview of the solutions we have looked at by then:

* Deixis
* BlockNet
* GS1
* Monetha
* Overledger

### RFI for Nashville

Won’t be ready for issuance in Nashville. Expect a draft.

May be issued if good enough.

No need for 4-week deadline for an RFI. So if we are ready after the 19 Sept call we can put the RFI out during the week in Nashville. It is issued by the TF itself and does ot go through the Architecture Board. May or may not need TC approval on the Friday in Nashville. Not a formal technology process document like an RFC or RFP submission.

We hope to get the **RFP** out by November (4 week deadline) for issuance in December (but see below). Try and get a head-start in Nashville. Submitters need to have joined the OMG as at least Platform members.

Responses to an **RFI**? Usually 2 meeting period. Which means we would NOT get the RFP out in December but in March. Can be responded to by anybody in the wide world.

# IOTA Upcoming Standards

Introduction from Mike, Nelson and Felix on the upcoming IOTA standards.

See slide deck presented by Mike with the high-level view of these.

Filename: IOTA MAM and EEE Explainer.pptx

### Masked Authenticated Messaging (MAM)

A messaging protocol with encryption and a range of choices for access and creation.

This can be used not only in the IOTA Tangle ecosystem, although it was developed for that.

We will consider whether this should be an RFC or an RFP.

### Environment Effect Entity (EEE)

An information interchange protocol for very modular uses.

This also can be used more broadly than just in the IOTA Tangle ecosystem. It may also be used with either Ternary (as seen in IOTA) or binary.

Meanwhile:

### Tangle

This is the name for the ‘Node’ standard since ‘node’ has another meaning in OMG. This is the standard for how a node running suitable software should behave in order to be part of the Tangle ecosystem.

IOTA has released an updated version of the current IRI (IOTA Reference implementation, but again with a different sense of ‘Reference Implementation’ than that used at OMG). This runs on IP networking

IOTA is working on a new node called Bee which will be:

* More modularized
* Run on a range of network protocols not only IP
* More suited for IoT implementations
* Embodies a number of other new features being developed by the IF, including post-Coordicide features like Shier and Mana (seen in draft in the current draft standard)

The draft we presented in Amsterdam will updated for further review. Further work on Bee by the IOTA Foundation may result in more conformance points, or more clarity on some of the existing ones.

## Discussion

CW suggests that, given the broader usability of MAM and EEE, these may form part of the solution to Blockchain ecosystem interoperability. As such, we should complete the RFI and then use this as a framework to consider the question of RFP versus RFC for each of EEE and MAM.

MB: this does not effect the Tangle Standard, which remains in draft and is to be submitted as an RFC in November for the December meetings.

# Nashville Meetings Plan

[This Green = thread of activities relating to Interoperability RFI]

### Monday afternoon MARS

* IOTA Tangle
* Tangle RFC draft only
* DIDO RA and test environments
* MAM and EEE informative session (what would the standard look like)
  + OR at the Wed PSIG meeting if there is no time on Monday
  + And maybe Protobuf / healthcare stuff
* RFI - initial draft discussion

### Non-MARS Meetings

* Tuesday am 11 - 12: IDs for Crypto Assets (joint FDTF and BC-SIG – and MARS?)
* (FDTF meets all day Tuesday and Wed pm)
* Wed am (9 – 12) – BC-PSIG works on the Interoperability RFI

### Thursday MARS

* Thurs – come back to MARS with: Ecosystem Interoperability RFI – vote to issue – morning only from 10:30 am CDT