Blockchain PSIG Call Notes

*14 November 2019*

# Attendees

* Mike Bennett (IOTA ext. consultant)
* Allen Brown (Deixis)
* Ian Stavros (Jackrabbit)
* Nelson (IOTA)
* Rob Nehmer (Oakland University)
* Nick Stavros (Jackrabbit)
* Robert Rencher (Boeing)
* Char Wales (MITRE)
* Anne Smith (IOTA)

# Agenda

1. Updates and Introductions
2. BC-PSIG Agenda planning for Long Beach
3. LETS RFP review and development
4. AoB

# Meeting Notes

## Updates and Introductions

*(including side conversation(s) on standards etc. as they arise)*

### Introductions

**Anne Smith** – head of Automotive and Mobility at IOTA

Attending MOBI Colloquium.

MOBI = Mobility Open Blockchain Initiative

Getting people in the mobility space to use Blockchain.

One motivation is standards – e.g. vehicle ID, vehicle birth certificate – standard defines what fields are needed.

Project with 5 or 6 big OEMs to implement this. For BMW, Honda and others, working together to implement this.

### Side Discussion: Standards

**Question to Anne:** Standards – formal or de facto?

AS: Currently de facto standards.

NS: That is a problem. People trying to write ‘standards’ that end up without the needed rigor. Auto industry has to engage with real standards, not simply de facto things defined in a paper. Liability issues.

Encourage them to come to any existing standards organization (OMG, STD, other Auto standards bodies).

Many of those are more hardware oriented. Issues with that is that such standards are written as if only those implementing that hardware need the standard, so they tend to charge a lot for each standard. IEEE, ISO and others charge for standards.

For software standards, including in the marketplace we are looking at you need more open and free standards.

Will this use MAM?

* Not specific to IOTA but agnostic to what DLT is used.

Anyone who implements these standards can use whatever DLT is appropriate.

Standards don’t move as quickly as we might need.

MB: OMG usually does more slow moving standards but has the flexibility to support Domain standards.

N: Background in network standards. Also liaising with folks on electric grid integration (vehicle to grid etc.). There are ISO standards in this space.

ISO standards are also slow-moving (typically slower than OMG).

Standardization of process is already in the infrastructure of these organizations.

MB: We should follow the ISO 20022 model whereby the process is standardized such that the content can be dynamically maintained within a defined standard process.

NS: This is done in DDS. So there is something that defines the structure the name and so on, in a looser way. Then something needs to be formalized in order to be built into products.

The balance is this: Someone planning a product over the coming quarters or years, needs something which is more conservative over time. With it not being conservative, this causes an issue for end users.

For example, sensors in Jaguar Land-Rover. In the electric vehicle space. They have built an IOTA Wallet into the firmware of the car, both for receiving and making payments. For example if the car detects a pothole it will send the information to a city government body, who would pay the vehicle a small amount of money for the data. Will also sell data to navigation companies for e.g. traffic information. Can also do standard payments, e.g. for drive-through facilities (coffee etc.).

Another target would be e.g. Garmin (GPS). Anne can reengage with them.

Talking to other industry suppliers, to ensure their sensors would be compatible with the DLT so that data can be shared.

Garmin GPS used in a lot of specialized niches, e.g. airplanes, RVs, bicycles, watches. Need to be able to re-route around a problem, e.g. for bicycle, hiking, in real time.

This is the eventual idea behind this.

Want to be able to connect with other navigation products.

The idea is building a marketplace for data. Until this is standardized this is harder to do.

For example, if we can standardize what is a standard coffee container.

See e.g. Apple Store and Google Play for apps, but similar for data. This is what the I3 Consortium is doing in LA. They are creating a marketplace for these.

Without a standard you do not have a marketplace.

See e.g. electrical outlets.

## Introductions (continued)

**Mike Bennett**

Co-chair of Blockchain PSIG; co-chair of Finance DTF. Standards advisor for IOTA Foundation. Initiated the FIBO ontology for finance.

**Allen Brown**

CTO and co-founder of Deixis. Focus on digital contracts on blockchains. Specifically applying these to supply chain (where your stuff is). Deeply interested in Blockchain and interoperability

**Robert Rencher**

Boeing. Represents Boeing on this PSIG and with Aerospace Industry Association and SAE International (Society of Automobile Engineers). Interested in standards in that space. Keen to ensure that existing standards used not reinvented SAE aware of MOBI. Now has an Aerospace arm.

Q: Permissioned chains (IBM / Hyperledger?)? Yes, also MS, Oracles and the rest (Amazon, Google). Work with each on strategy etc. Done some PoCs on e.g. parts provenance, manufacturing. On Hyperledger. Also work with Ethereum and Hashgraph - these are the 3 flavors.

Also see correlation between Oil industry and this Aerospace industry.

**S D Nelson**

IOTA. Background in aerospace research at NASA, also compliance worldwide on FDA (including China). Certification worldwide for e.g. medicine, equipment. Excited about Blockchain and so joined IOTA.

**Rob Nehmer**

Academic at Oakland Uni in Michigan. Work in Blockchain on providing assurance for BC applications that are live in business situations – helping auditors, using current standards, how to get assurance on the blockchain

**Nick Stavros**

OMG, esp. DDS. Involved with DLT. Expected by distributed computing. Have a DARPA grant (with IS). Sees major stumbling block for much DLT, on testing and QA. Created DIDO TE. Also community stuff that goes with that. Configurable for any DLT. Also exchanges. Also US Navy experience of command and control. GIS systems.

**Chaw Wales**

MITRE. Co-chair of MARS TF. Blockchain related standards. Not BC expert. Work through MAS on DDS and now the Blockchain standards e.g. the Interoperability RFI, the RFP(s) out of this Blockchain PSIG.

## Updates

### Technology Demo / Showcase at Long Beach

IOTA (Nelson):

USC are coming to the Long Beach meeting.

Also students from UCLA.

USC, City of Long Beach, City of LA and I3 Consortium will show the marketplace. Also showcase of student’s IoT device.

I3 is the local LA consortium called I3. Run by USC. Nelson is in charge of that.

Eric Hop (IOTA) will also be available for that event.

**Clarify:** Is this part of the usual I3 weekly event on the Wednesday night?

No, there is a Technology Demo before the dinner on Wednesday at OMG.

This is a demo table, organized at the OMG venue.

#### Fine tuning the timings

Typically on Tuesdays and Wednesdays people have a demo table. The above refers to the Wednesday demo. I3 is supporting this technology table for the OMG.

**Time:** Table usually available in the afternoon and into the evening.

Can set up on Tuesday. Can man if you want or just put out brochures.

Need to be up and ready by 5pm. At 6pm Wednesday there is a drinks reception. Lasts until 8pm.

Also worth being available at the Wednesday afternoon break around 3 / 3:30.

## Agenda Planning

**FDTF** Tuesday morning, and Wed morning

**BC-PSIG** – Tuesday afternoon

There is Also a DLT related event from the IIC, relating to digital voting. Mat Yarger of IOTA speaking.

Wed afternoon: **AI PTF**. 1:30 – 5:30

### BC-PSIG Agenda

Tuesday afternoon BC-PSIG

* Spend time on LETS
* Process feedback from MARS on Event Dispatcher
* Review overall IOTA landscape

### MARS Joint meeting Agenda

Live DLT related standards initiatives at MARS:

* DLT Interoperability RFI
* LETS RFP (anticipates IOTA MAM)
* IOTA Tangle RFC
* EEE? (the Event Dispatcher name TBD and RFP v RFC or other route TBD)

At MARS, session for each of these?

* If we have early responses to the Interoperability RFI we should discuss these.

#### MARS: Monday Afternoon

All BC-PSIG related.

* RFI - 15 / 30 min on what we are hearing
* LETS – yes, spend 30 min on that
* Event Dispatcher – time?
* IOTA Tangle RFC – review of next draft
* DIDO RA v 2.0 review and publish 30 – 45 min
* Time for DIDO TE Demo – 15 – 20 min

CW will figure out timings for these.