**Eclipse Tangle EE Working Group**

Rolling Meeting notes  
  
Next Scheduled Call:  
  
**October 15, 2020**Proposed time: 16:00 – 17.00 Hours CET

# **Resources**

Tangle EE Member Contacts:  
[Member Contacts](https://drive.google.com/open?id=1fMVT3vxRMZhtqUHrQXkiOW8o2Bv_D6Vt4IIlCposB0w)

Mailing list:  
[tangle.ee-wg@eclipse.org](mailto:tangle.ee-wg@eclipse.org)   
*To post a message to all the list members, send email to* [*tangle.ee-wg@eclipse.org*](mailto:tangle.ee-wg@eclipse.org)*.  
You must be* [*subscribed*](https://accounts.eclipse.org/mailing-list/tangle.ee-wg) *to the list before you can post.  
To access a web archive of this list, visit the* [*tangle.ee-wg Archives*](http://www.eclipse.org/lists/tangle.ee-wg)

Tangle EE Shared drive:  
<https://drive.google.com/open?id=1vZWMUziyjhjd-yHu-jwUpfBBdLUOYLah>

Slack workspace:  
tangleee-wg.slack.com

Slack invite link:  
<https://join.slack.com/t/tangleee-wg/shared_invite/zt-g2211urm-f~6FAJMWxIsiSA7L8cDt1g>

Tangle EE WG Charter:<https://www.eclipse.org/org/workinggroups/tangle_ee_charter.php>

Tangle Identity Project:  
<https://projects.eclipse.org/proposals/tangle-identity>   
  
Tangle Marketplaces Project:  
<https://projects.eclipse.org/proposals/tangle-marketplaces>

**Tangle EE General WG Call**

**Purpose:**

**Thursday, October 15, 2020**

**Attendees: (Please add, Name (Company)):**

**Agenda (Please add your topics below):**

**Captured minutes (please add if anything critical is missing):**

**Action Items (Add action items below):**

**Tangle EE General WG Call**

**Purpose:**Projects progress and activity - Update by Project Leads and Committers to the WG member + discussion  
Introduce and discuss new/existing Project Initiatives / Use Cases as submitted by WG Members  
Share and discuss updates on IOTA > Research, Technical and related Topic Introductions & Updates  
Member Spotlight & Support > opportunity for WG Members to introduce and present their work / ask WG support  
Crossover Spotlight > opportunity for other Eclipse Project introductions and discussion

**Thursday, September, 03 2020**

**Attendees: (Please add, Name (Company)):**

* Christoph F. Strnadl (Software AG)
* Roman Vitenberg (UiO)
* Stéphane Didier (CNA)
* Ludovic Teixeira Costa (CNA)
* Alaettin Dogan (HSU)
* Christian Fries (FZI)
* Robin Lamberti (FZI)
* Markus Luecking (FZI)
* Maria Teresa Delgado (Schluss)
* Antonio Vilei (STMicroelectronics)
* Thale Gartland (IF)
* Jan Pauseback (IF)
* Jelle Millenaar (IF)
* Wilfried Pimenta (IF)

**Agenda (Please add your topics below):**  
\* Review previous action items  
\* Project Initiative: [Decentralized Ticketing System](https://drive.google.com/drive/folders/1X_P1s2NwZ8mEVsiIwh-VvLsr5zn-1TF7) by Stéphane Didier (Calypso Expert at [CNA](https://www.calypsonet-asso.org/))  
\* Spotlight: [Towards a privacy-preserving decentralized trust management](https://drive.google.com/file/d/1uE7KM1rN717I6WzUAFYaDJ1cjatKLT2M/view?usp=sharing) by Markus Luecking (Researcher at [FZI](https://www.fzi.de/en/home/))  
\* Projects update to the broader WG by the Project Leads and team member(s)  
\* Roundtable Questions & Closing Comments **Captured minutes (please add if anything critical is missing):**  
This call is recorded. Everything that is being discussed in this call is public.

The recording can be found here: <https://drive.google.com/drive/u/0/folders/1a3Op3c4gq6dxeXehso_tTdQLc7a5dYPQ>

**Decentralized Ticketing System - Smart Ticketing with Tangle:**

The presentation can be found here: <https://drive.google.com/drive/u/0/folders/1ol2E87kMdQdDKO_SiTEZUhrLA6kaqtJn>

Project Initiative can be found here: <https://drive.google.com/drive/folders/1X_P1s2NwZ8mEVsiIwh-VvLsr5zn-1TF7>

**Towards a privacy-preserving decentralized trust management:**

The presentation can be found here: <https://drive.google.com/drive/u/0/folders/1ol2E87kMdQdDKO_SiTEZUhrLA6kaqtJn>

**Projects update to the broader WG by the Project Leads and team member(s):**Not sufficient time to provide a Project update. Join the bi-weekly meeting for in-depth and detailed updates and discussion.

**Action Items (Add action items below):**

**Tangle EE General WG Call**

**Purpose:**Projects progress and activity - Update by Project Leads and Commiters to the WG member + discussion  
Introduce and discuss new/existing Project Initiatives / Use Cases as submitted by WG Members  
Share and discuss updates on IOTA > Research, Technical and related Topic Introductions & Updates  
Member Spotlight & Support > opportunity for WG Members to introduce and present their work / ask WG support  
Crossover Spotlight > opportunity for other Eclipse Project introductions and discussion

**Thursday, July, 23 2020**

**Attendees: (Please add, Name (Company)):**

* Alex Westerhof (IF)
* Jelle Millenaar (IF)
* Jan Pauseback (IF)
* Johannes Mayer (Laboratory for Machine Tools and Production Engineering of RWTH Aachen University)
* Antonio Nardella (IF)
* Roman Vitenberg (UiO)
* Sebastian Heußer (Committer)
* Stéphane Didier (CNA)

**Agenda (Please add your topics below):  
\*** Review Previous Action Items  
  
\* Welcome New member - University of Oslo  
  
\* Post-Launch Member Feedback  
- Proposed changes in WG Call Structure and purpose  
- New Bi-Weekly Project Calls (Project Leads + Commiters)  
  
\* Proposed Agenda for the next WG Call: 03 Sept 2020  
- Review Previous Action Items  
- Project progress and activity update - Project Leads and Commiters + discussion  
- Introduction New Project Initiative: Calypso Network Association  
  
\*Project Origin - Update   
André Bryde Alnor, Martin Schmidt, Peter Lyck Ingerslev

\*Roundtable Questions / Closing Comments **Captured minutes (please add if anything critical is missing):**  
This call is recorded. Everything that is being discussed in this call is public.

Presentation slides utilized can be found [here](https://docs.google.com/presentation/d/1WX4uGmqj-CxHB6RjbZF4gq8Cq2Q0zgli/edit#slide=id.g8ca61d35f5_1_25)

**Review Previous Action Items**  
Bi-weekly Project Calls have been calendarized (resolved)  
Tangle EE Slack Workspace Project Channels have been opened (resolved)  
  
**Welcome New member - University of Oslo**  
We welcomed Roman Vitenberg and Narasimha Raghavan from the University of Oslo, Dept. of Informatics into the WG. Roman provided a brief introduction and shared an update on their activities around [DLT, Identity, GDPR](https://www.mn.uio.no/ifi/om/aktuelt/aktuelle-saker/2020/iota-collaboration-with-department-of-informatics-at-uio.html)

Contact details have been added to the [member contact sheet](https://docs.google.com/spreadsheets/d/1W87R6kwoWBKcnjh1dQq2luL2XMvciyumTpKctKBu1f4/edit#gid=415334369)  
  
**Post-Launch Member Feedback**  
Member 1:1’s concluded to capture WG post launch feedback  
Main feedback revolved around the desire and need for knowledge sharing as different members have different levels of expertise around IOTA, DLT, Identity, Marketplace concepts. Clarity around the purpose and activities on WG calls, Clarity around how we can go beyond discussion of conceptual use cases, desire to better understand other member activities, present member driven WG relevant topics for feedback and discussion.  
  
To accommodate the feedback, proposed changes in WG Call Structure and purpose were discussed & introduced:

**1 x General WG Call (6 week interval)  
Attendees: All  
Purpose:**  
1.Projects progress and activity update & discussion  
(Update by Project Leads, Committers, Project Sponsors in the WG + Q&A)  
  
2.Introduce and discuss new/existing Project Initiatives / Use Cases  
(as submitted by WG Members - translation into action if & where possible happen in the bi-weekly Project Calls)  
  
3.IOTA Spotlight  
(Member driven & requested topic updates around IOTA, feedback & collaboration activity)  
  
4.WG Member Spotlight  
(Member driven & requested WG Members introduction to present themselves, their work, feedback & cross-industry / cross-domain collaboration activities)  
  
5.Crossover Spotlight  
(Member driven & requested crossover introductions relevant to the WG, Project activities and objectives. E.g. Eclipse IoT WG and/or Project presentation)  
  
**1 x Tangle Identity Project Call (Bi-Weekly)  
Attendees: Project Lead(s) + Committers + Project (Initiative) Sponsors  
Purpose:** Project development and activities  
  
**1 x Tangle Marketplaces Project Call (Bi-Weekly)  
Attendees: Project lead(s) + Committers + Project (Initiative) Sponsors  
Purpose:** Project development and activities

**Project Origin - Update**  
André, Martin and Peter (Energinet) have been working on further fleshing out the submitted Project Initiative:  
  
Individual problems statements including use cases:  
<https://docs.google.com/document/d/1yHwAPOMgnLuaYYPGo1xWNhsqhOAo8tKLOhK_DMpC5_k/edit?usp=sharing>  
  
Translation of the project statements and use cases will be further addressed in the scheduled bi-weekly Project Identity Calls, Marketplace Calls. Aim is to continue to add and make corrections to it in the coming weeks.  
Purpose to help drive the work in the Tangle EE work group on identity issues.

Energinet will also add it to Github to share with other interested parties.  
André, Martin and Peter are progressing on the system and have now open sourced all code and documentation:<https://github.com/project-origin>  
  
**Ask all WG members:** Please review the [document](https://docs.google.com/document/d/1yHwAPOMgnLuaYYPGo1xWNhsqhOAo8tKLOhK_DMpC5_k/edit) , provide feedback, add comments in the doc.  
Feedback can also be shared directly with André via [email](https://docs.google.com/spreadsheets/d/1W87R6kwoWBKcnjh1dQq2luL2XMvciyumTpKctKBu1f4/edit#gid=415334369) or via [Slack](https://join.slack.com/t/tangleee-wg/shared_invite/zt-g2211urm-f~6FAJMWxIsiSA7L8cDt1g)

**Proposed Agenda for the next WG Call: 03 Sept 2020**  
- Review Previous Action Items  
- Project progress and activity update - Project Leads, Committers Project Sponsors + discussion  
- Introduction New Project Initiative: Calypso Network Association  
  
**Roundtable Questions / Closing Comments**Narasimha: Would it make sense to structure content in Github?  
> General Working Group collateral is captured in a shared Google Drive  
> Project Leads, Commiters, Project Sponsors will look to use Github for organization, one of the topics to be discussed in the upcoming bi-weekly Project calls  
  
Stephane: Will create some slides to present CNA and Project Initiative to the WG

**Action Items (Add action items below):**Request to all WG Members to review the updated [document](https://docs.google.com/document/d/1yHwAPOMgnLuaYYPGo1xWNhsqhOAo8tKLOhK_DMpC5_k/edit) as shared by André, Martin and Peter (Energinet)  
Request to all WG Members to add comments, share feedback in the doc, Slack or via email with André (Energinet)  
Request to all WG Members to add your Agenda topics in the rolling meeting minutes  
Stephane (CNA) to present CNA and Project Initiative in the next General WG Call  
Thale (IF) to restructure the calendarized WG calls (Proposed changes <> Member post-launch feedback)

**Tangle EE Quarterly Call  
Purpose:**

* Introduction of new Project Initiatives + Q&A
* Project Team showcase of finalized project Initiative + Q&A
* Member Spotlights and/or Topic Spotlight + Q&A

**Thursday July 2, 2020**

**Attendees (Please add):**

* Frédéric Desbiens (Eclipse)
* Maria Teresa Delgado (Eclipse)
* Johannes Mayer (Laboratory of Machine Tools and Production Engineering of RWTH Aachen University)
* Christoph F. Strnadl (Software AG)
* Sean McGinnis (Dell Technologies)
* Trevor Conn (Dell Technologies)
* Trevor Conn (Dell Technologies)
* Martin Schmidt (Energinet)
* Stéphane Didier (CNA)
* Alaettin Dogan (HSU)
* Markus Luecking (Forschungszentrum Informatik)
* Akash Goswami (IoTIFY)
* Alaettin Dogan (Helmut-Schmidt-Universität, Automatisierungstechnik)
* Antonio Vilei (STMicroelectronics)
* Sebastian Heusser (Developer)
* Mike Bennett (IF/OMG)
* Alex Westerhof (IF)
* Thale Gartland (IF)
* Antonio Nardella (IF)
* Mark Nixon (IF)
* David Sønstebø (IF)
* Jan Pauseback (IF)
* Jelle Millenaar (IF)
* Mathew Yarger (IF)
* Jake Cahill (IF)
* Martin Schmidt (IF)

**Agenda(Add your topics below):**

* (30Min) [Presentation Eclipse IoT and Eclipse Edge Native](https://drive.google.com/file/d/1pYvmqVnGmJbWBF3Z9TdftWb4tYTchSso/view?usp=sharing) by Frédéric Desbiens
* (15Min) Eclipse IoT and Eclipse Edge Q&A (All)
* (15Min) Tangle Identity & Tangle Marketplaces - Next Steps (All)

**Captured minutes (please add if anything critical is missing):**

Frédéric Desbiens from Eclipse Foundation went through a presentation about Eclipse IoT and Eclipse Edge Native.

Q&A about the presentation Eclipse IoT and Eclipse Edge Native:

*Question: In the IoT chart of all the projects, shown in the presentation, the security part was empty, why is that?*

* Because security is an obsession for everyone in the Eclipse IoT WG. It is anywhere and everywhere. We do not have a security dedicated project, and we feel that the IOTA ledge is something that could overall improve the security of the IoT solutions we are developing.

*Question: Could you elaborate on how these different projects collaborate with each other and make sure they work well together?*

* Transparency about the roadmap and the overall direction of every project. Have a community call every month for the Eclipse IoT, and every project needs to provide an update at least once a year (sometimes more) → an update to the community about their current feature set, roadmap and where they are headed.
* There is no central authority apart from our project management, to coordinate the updates. The project leads need to come together and share the roadmap, other relevant use cases and the requirements in a product management perspective.

*Question: How do the members of the IoT Working Group communicate?*

* Through the Eclipse IoT mailing list, Slack channels and monthly calls.

*Question:* *Are there any members in the IoT Working Group that would be interested in joining the Eclipse Tangle EE Working Group?*

* There are certainly some companies that could be interested and prime targets (Bosch, Siemens, Intel).
* Could invite a speaker from IOTA Foundation or the working group, to present at a future IoT Working Group meeting, to spread awareness about the technology.

Eclipse IoT wants to list IOTA as an adopter on their [page](https://iot.eclipse.org/adopters/). See potential in having a version of [Eclipse IoT Packages](https://www.eclipse.org/packages/) with embedded support from the IOTA ledger. Possible to have further discussions about this.

Tangle Identity & Tangle Marketplace - Next Steps:

Jelle Millenaar is the project lead for Tangle Identity. Bi-weekly calls for Tangle Identity to kickstart the projects and introduce the work IOTA Foundation are doing on Identity through some sort of request for comments/ request for proposals. What are the challenges in Identity, how do we resolve these challenges?

Jan Pauseback is the project lead for Tangle Marketplace. Maybe set up slack channels for the different problem statements and one for thought leadership. Discussion in the IF to move an existing codebase to under the Eclipse Foundation.

**Action Items (Add action items below):**

* Bi-weekly call / Tangle Identity - resolved
* Bi-weekly call / Tangle Marketplace - resolved
* Set up slack channels (for different problem statements + thought leadership) - resolved

**Tangle EE General WG Call**

**Purpose:** Members discuss and update each other on Project status & ongoing activities

**Thursday, June 11 2020**

**Attendees: (Please add, Name (Company)):**

* Johannes Mayer (Laboratory for Machine Tools and Production Engineering (WZL) of RWTH Aachen University)
* Akash Goswami (IoTIFY)
* Aleattion Dogan (Helmut-Schmidt-Universität, Automatisierungstechnik)
* André Bryde Alnor (Energinet)
* Martin Schmidt (Energinet)
* Maria teresa Delgado (Eclipse Foundation)
* Paul Buck (Eclipse Foundation)
* Michael Estrin (Dell Technologies)
* Steve Todd (Dell Technologies)
* Nino Ulrich (AKITA)
* Philippe Calvez (Engie)
* Stéphane Dider (Calypso Network Association)
* Antonio Vilei (STMicroelectronics)
* Thale Gartland (IF)
* Jan Pauseback (IF)
* Jelle Millenaar (IF)
* Alex Westerhof (IF)
* Alexey Sobolev(IF)
* David Sønstebø (IF)
* Jan Pauseback (IF)
* Jelle Millenaar (IF)
* Mathew Yarger (IF)
* Wilfried Pimenta (IF)

**Agenda (Add your topics below):**Working Group General Update  
Project progress information session

Upcoming calls - Relevant content **Captured minutes (please add if anything critical is missing):**

This call is recorded. Everything that is being discussed in this call is public.

Some members are more experienced with WG than other members. Not always clear where the responsibilities lie.

***Question****:* How does the work in the community, in terms of the project proposal which requires people to write code? Who writes the code?

* It will be **challenging to start writing code if we lack the understanding of what we are actually going to build**. Need more specificity on what is being built. We need to agree on some specific challenges to address.
* We could break down the challenges, and turn them into concrete action items. With the more specific action items in place, we could have a discussion with all the members in the WG regarding who is willing and capable of actually starting to write the code. (Alex, IF)
* Another consideration could be to contribute with existing code that members may have and want to bring into the project, along with code development. (Paul, Eclipse Foundation)
  + [AKITA](https://m2m.akitablock.io/#/) has a machine to machine open source project. This provides a bunch of code to get started with any kind of IOTA-based projects. Could help as a starting fase. (Nino, AKITA)
  + Energinets code base could be a starting point.

***Question****:* Is there a requirements document, with a template that people typically would use? Is there some other way of identifying the requirements for people to code? How is this process going to run?

* There is a document that provides an overview of the suggested way of working and where people could submit their interest in what objectives and topics they want the WG to work on.
* The document was shared both in the mailing list & in the Tangle EE slack on 28th of May. You can access the document [here](https://docs.google.com/spreadsheets/d/1YtHl_nXPbGYlpgq4LTRyFz_n0Hwm5S0cSXFjtY329as/edit#gid=0).
  + Action Item: Add a column to indicate whether or not a member has a code to contribute to the project.

***Question****:* Are the documentation and the code only stored in the Google Shared Drive?

* The code developed will be stored in Github repositories and is open source. The documentation will be stored in Google Drive, unless the WG chooses to take a different approach.

Not every member will be able to directly contribute to some of the activities that we envision, Project Origin in this case. If you believe that certain code developments cannot be done through your organization, would it be desirable to work on a separate project initiative.

***Question****:* Where do you (Akash, IoTIFY) see potential steps to collaborate on this particular project initiative (Project Origin)?

* IoTIFY primarily focuses on the scalability and simulation for large scale IOTA networks, and is also where IoTIFY could pitch in, but is probably a bit further down the road at this moment.

***Question****:*  Based on your (Antonio, STMicroelectronics) interest from the last meeting, could you elaborate on who STMicroelectronis could support the Project Origin?

* Should start with the specification of the requirements, from there we can understand how to move forward.

**Action Items (Add action items below):**

* In the [Project Initiative Team](https://docs.google.com/spreadsheets/d/1YtHl_nXPbGYlpgq4LTRyFz_n0Hwm5S0cSXFjtY329as/edit#gid=0) sheet there should be added a column to indicate whether or not a member has a code to contribute to the project
* During the next upcoming call it will be a presentation with up to date research and engineering about IOTAs current scalability roadmap.
* Alex & André: Schedule a conversation to break down each individual challenge. Present this to the rest of the WG.
  + The rest of the members can then express if they are able to contribute to the specific items.
* Could be a lot of value in setting up a separate [project initiative](https://docs.google.com/document/d/1OF4CAr-v4_-6o2gv6OBpaQvYYatIBoDcWL9h9N_EVvY/edit).
* Invite the IoT WG to present their work on the next scheduled WG call.
* Have some members showcase their work (15 - 30 min).

**Eclipse Tangle EE WG Meeting**

**Thursday 30th of April**

**Attendees (Please Add, Name(Company)):**

* Alex Westerhof (IF)
* Alexander Belyaev (IF)
* David Sønstebø (IF)
* Jan Pauseback (IF)
* Jelle Millenaar (IF)
* Mathew Yarger (IF)
* Navin Ramachandran (IF)
* Wilfried Pimenta (IF)
* Alexey Sobolev (IF)
* Thale Gartland (IF)
* Christoph F. Strnadl (Software AG)
* Antonio Vilei (STMicroelectronics)
* Steve Todd (Dell Technologies)
* Aleattin Dogan (Helmut-Schmidt-Universität, Automatisierungstechnik)
* Bob Hageman (Schluss)
* Johannes Mayer (RWTH Aachen University)
* Nino Ulrich (Biilabs)
* Paul Buck (Eclipse Foundation)
* Peter Lyck Ingerslev (Engerinet)
* André Bryde Alnor (Energinet)
* Stéphane Didier (Calypso Network Association)
* Markus Lücking (Forschungszentrum Informatik)

**Agenda (Add your topics):**

* Update Steering Committee Election
* [Google Drive Access](https://drive.google.com/drive/folders/0AJUmXGO65JTnUk9PVA) - Submit your google id to @[thale.gartland@iota.org](mailto:thale.gartland@iota.org) to get access
* [Project allocation sheet](https://docs.google.com/spreadsheets/d/1YtHl_nXPbGYlpgq4LTRyFz_n0Hwm5S0cSXFjtY329as/edit#gid=0) - Please add your details
* Introduction [Project Initiative #1](https://drive.google.com/drive/folders/1X_P1s2NwZ8mEVsiIwh-VvLsr5zn-1TF7) - André Bryde Alnor (Energinet) + next steps
* Introduction [Project Initiative #2](https://drive.google.com/drive/folders/1X_P1s2NwZ8mEVsiIwh-VvLsr5zn-1TF7) - Steve Todd (Dell) + next steps
* WG & Projects Meeting Cadence (Member Suggestion)  
  - *WG > Monthly Topic Webinars & Member Spotlights  
  - WG > Quarterly Project Initiative Call  
  - WG > Quarterly Project Initiative Showcase & Share  
  - Projects > Frequency decided by Project Initiative teams based on Project Initiative Needs*

**Captured Minutes (Please add if anything critical is missing):**Recording of the meeting: 30-04-2020 Tangle EE Project Call  
<https://drive.google.com/drive/folders/16Zn1_RyZ5pZczq56L5tU4H8mnovtJAiY>

**Update on steering committee election:**

* Ballots have been sent out to all company representatives (of the “Participant Members”)
* Voting is anonymized with 1 vote per Participant member
* Election results will be shared by Eclipse on 6th May

**Project Initiative #2 - Steve Todd (Dell)**

* Instead of inserting data into the Tangle, perhaps write some client software that searches the Tangle, and displays enterprise data assets and metadata associated with them. Try to build some data portfolio tool   
  → provides some sort of value.
* How trustworthy the data is, how is the data set more valued than another?
* Build some sort of dashboard where people can view enterprise data assets, compare them.

Is this a proposal to develop a client software in the sense of a **graphical dashboard** (i.e., a user interface, UI) **only**, or would the project also include a kind of **abstraction layer, an API layer** in addition to the dashboard/UI?

* The project **shall include both**, a graphical UI (“dashboard”) and (or, rather, on top of) an API layer
* One needs the visualization (i.e., the graphical UI) of a nice tool to help people understand the power of the data, e.g., of creating and browsing a portfolio. This will also support the project in identifying further requirements and functions (e.g., simply by “playing around” with the UI).
* There are a lot of good open source visualization tools available focusing on and satisfying requirements for vastly different roles, user groups or personas. So, including an API in the project is required to make the project attractive to many different industries

Does this potential overlap with the [Project Alvarium](https://blog.iota.org/iota-dell-technologies-and-the-linux-foundation-team-up-for-data-confidence-fabrics-985cb3515364)?

* Project Alvarium focuses on bringing the data **to** the Tangle and annotating it with statements of trustworthiness.
* Alvarium is related to the concept, more IOTA specific. The Alvarium dashboard was only a marketing dashboard to attract attention, not the focus of it.
* Look at to get ideas in terms of how we build a dashboard

How do we envision this moving forward?

* Need to scope out (“refine”) more details of this project
* Include and discuss the refined and/or extended scope with all members of the working group (WG)
  + What kind of data are we trying to put into the visualization?
  + How would a user be interfacing it?
  + More story behind it, justifying why is this built
  + Could focus on manufacturing use cases (to be decided)  
    → What industry would a data dashboard be more valuable to right now?
* With this information we shall enter discussions on resourcing

**Project Initiative #1 - André Bryde Alnor (Energinet):**

* Overarching problem: To achieve a true climate natural energy system + maintain securities
* Scaling up is not enough → scale out to decentralization
* Need both a shared ledger approach (“SLT”) and a distributed ledger approach (“DLT”)
* use case:
  + Implementing a system handling the “**guarantees of origin**” of electrical power
  + For instance, the system has to include functionality to guarantee that any given energy produced and consumed is green energy (i.e., proving the “green” origin of this energy)
  + The current implementation provides these “guarantees” only on a yearly basis. In the future, this shall be provided in real time.
* Alpha version of the system
  + built on Hyperledger Sawtooth
  + Will go life tomorrow (May 11th, 2020)
  + We know that Hyperledger Sawtooth does not scale beyond 100,000 entities   
    ⇒ therefore we are looking to the Tangle for scalability!
* What we are asking for (“**project objectives**”):   
  Within the next three months, creating a proof that the Tangle is actually the right technology (not production ready, but all of the proofs done) to build on for the future of the project.

***(Question)*** *STMicroelectronics:* Any information on the hardware setup?

* Two approaches:
  + Integrate with the **back office/legacy systems** that are already in place today across most of Europe
  + Integrate with the **individual smart meters** (directly), currently the trust setup is difficult and need further exploration
* A lot of ways to achieve that (e.g., private Tangles), but as dive into that → urgent need to tab into the other problems

What connectivity are used from the smart meter to the centralized system?

* A bunch of different ways of working
* Push data from the smart meters, gathering that data in their central system via either the electrical wires or WiFi/Bluetooth
* Not at all a decentralized setup, but we aim for this in the future and hope that the rest of Tangle EE will explore this with us.

Any numbers on how many devices are currently operating on the Hyperledger, and how frequent the transactions are/ potential TPS?

* Not sure, opens tomorrow. Currently bundling all transactions once a day, so scaling is not yet an issue but will become in the future when the system is more granular.
* The assumed TPS (transactions per seconds) of such a system is in the range of (at least) 2,500+ (based on a back of the envelope calculation during the meeting ;-)
* Maybe we do one transaction per device every 5 min (in the future), then, nested private Tangles should have no problem enabling this.

A possibility → combine the projects → since the energy industry is so vast and touches on multiple verticals, most members of Tangle EE could have something to contribute and benefit from.

**Action Items:**

* Do a follow up call on project initiative #2
* Do a follow up call on project initiative #1
* Share an overview of both projects
* As per Eclipse Foundation’s policy a **public WG needs to share everything in public** (including meeting minutes, etc.) → from next meeting on
  + Any objections → take it up in the Tangle EE Slack workspace
* Meeting cadence:
  + *WG >* ***Monthly Topic Webinars & Member Spotlights***
  + *WG >* ***Quarterly Project Initiative Call***
  + *WG >* ***Quarterly Project Initiative Showcase & Share***
  + ***(Individual) Projects*** *> Frequency decided by Project Initiative teams based on Project Initiative Needs*
  + Additionally we plan to have one **project progress information session** between the quarterly meetings (i.e., **every 6 weeks**). 3 months between project updates seems a too long period in order to exert any effective oversight or governance.

**WG Meeting Decentralized Identities & Decentralized Marketplaces  
Purpose: Projects kick-off call  
Wednesday April 01 2020**

**Attendees: (Please add)**Stéphane Didier (Calypso Networks association)Martin Scheyhing (Dell Technologies)Maria Teresa (Eclipse Foundation)Paul Buck (Eclipse Foundation)Hammad Aslam Khan (ENGIE)Christian Fries (FZI Karlsruhe)Robin Lamberti (FZI Karlsruhe)  
Alaettin Dogan (Helmut Schmidt University)  
Holger Kother (IF)Alexander Belyaev (IF)  
Alexey Sobolev (IF)  
Alex Westerhof (IF)  
David Sønstebø (IF)  
Jan Pauseback (IF)  
Jelle Millenaar (IF)  
Lisa Schneider (IF)  
Mathew Yarger (IF)  
Mike Bennett (IF)  
Thale Gartland (IF)Wilfried Pimenta (IF)  
Christoph F. Strnadl (Software AG)  
Johannes Mayer WZL (RWTH Aachen University)

**Agenda:(Add your topics below)**

\* Project Intro Decentralized marketplaces  
\* Project Intro Unified Identity  
\* Project Discussion all members  
  
**Captured minutes (please add if anything critical is missing)**

Holger: Decentralized Marketplaces Introduction  
See slides: <https://drive.google.com/open?id=1j2xUwX8pXf-0sedvNIlXWD5ZSqvDLpRAQH5aHI2WoVI>   
  
Jelle: Unified Identity Introduction:  
See slides: <https://drive.google.com/open?id=104rIycNHWg7Ly_oL3OI5EeJlM9QhXsqB3c9iIC6sGh0>   
  
Project discussion - all participants  
  
Christoph: Guidance on how both Projects would work together? What do both Projects need from the WG to flourish?  
  
Holger: Like to understand and get input on requirements from your business perspective E.g. Marketplaces > no rating system > is this a requirement and why What would be needed with regards to hardware integration? Receive input and reflect on business needs & requirements  
  
Jelle: Theoretical part - explore how we can best accommodate business requirements regarding Identity. Tech part - we have both business and tech oriented individuals in the WG. Code and output follow-up. Propose an RFC process. We can do a webinar or call to outline how this could work if there is interest. Discuss what we need to solve > Document solution > start building together  
  
Mike: Lot’s of existing Standards with lots of overlap.Would mapping this out be beneficial?  
   
Christoph: GS1 example > Could run a survey  
  
Mark: Might want to look at Champions defining problem statements to work on with clear value outcomes. Potentially work in 12/14 week sprints to showcase deliverables at regular intervals. Sprint the process within an acceptable time frame, showcase relevancy. Refine roles & responsibilities   
  
Christoph: Structuring & prioritization of the WG needed, Clearer outcomes once the SC has been established  
  
Markus: On the topic of Requirement. How do we capture requirements? How to define what the protocol should deliver?  
  
Holger: Propose to set-up a questionnaire. Google sheet with requirements with indication what is relevant / important, prioritize & who will contribute  
  
Jelle: Counter suggestion > We have devs & non-devs > focus on requirements perhaps later > How would business use Identity / Marketplaces > capture expectations > define the process  
  
Holger: Would be part of it / can combine. Should be an open call to understand benefits and open the discussion  
  
Markus: Consider prototyping and show clear outcomes / benefits  
  
Chris: Next steps > how to work, structure & prioritize, Potential WG Topics, expectations & deliverables, cadence  
  
**Action Items (Add action items below)  
\*** Alex to set-up & share meeting minutes (Complete)

**Eclipse Unified Identity Project Webinar + Q&A  
Purpose: IOTA Foundation to share insights, current work and Identity activities with members + Q&A**

**Wednesday April 15 2020**

**Attendees: (Please add)  
  
Agenda:(Add your topics below)  
\* Webinar (30 Min)  
\* Q&A (15 Min)  
  
Captured minutes (please add if anything critical is missing)  
  
Action Items (Add action items below)**

**Eclipse Decentralized Marketplaces Project Webinar  
Purpose: IOTA Foundation to share insights, current work and Dec. Marketplaces activities with members + Q&A  
Thursday April 16 2020**

**Attendees: (Please add)  
  
Agenda:(Add your topics below)  
\* Webinar (30 Min)  
\* Q&A (15 Min)  
  
Captured minutes (please add if anything critical is missing)  
  
Action Items (Add action items below)**