

## **AllSeen Alliance**

TSC Minutes

March 26, 2015

8:00am PDT

via WebEx and Face-to-Face

### **TSC Participants:**

Art Lancaster (Affinegy)

Inwhan Choi on behalf of Byungjin Kim (LGE)

Dino Natucci (Microsoft)

Dominique Chanet (Technicolor)

Fabrizio Dolce (Electrolux)

Greg Burns (QCE)

Johan Svenér (Sony)

Jun Zhang (Haier)

Marcello Lioy (QCE)

Mathew Martineau (QCE)

Ram Jeyaraman (Microsoft)

Tolly Smith (Silicon Image)

Toru Ueda (Sharp)

Not in attendance:

Ryan Li (TP LINK)

Tomoki Ogawa (Panasonic)

Brett Preston agreed to take minutes.

### **Antitrust Compliance Notice**

Greg reminded the TSC of its antitrust compliance notice.

### **Greg introduced the Agenda for the meeting:**

- Approve minutes from previous meeting
- C&C
- Our Environment
- Alliance Test Validation and Signoff for Core/Base Release
- E2E Test Strategy
- New Project Proposal - Generic Connector
- Language Binding Support in Core and Base Services
- How we handle dependencies on 3rd party source code/libraries
- Technical Roadmap for the next 12 months
- Participation and Collaboration
- F2F Recap & Action Items

**Approve minutes from the previous meeting**

Greg called for a motion to approve the minutes from the March 17 meeting. Moved, seconded, than unanimously approved by TSC.

It was also confirmed that the representative from Qeo, Dominique, will remain on the TSC as Qeo's Premier appointed representative.

Base Services WG was renamed to be Common Frameworks WG

**C&C: Certification Program**

Ram noted certification goals are to Create an ecosystem of certified devices in the marketplace that have a high-likelihood of interoperating with each other; and that Certification is NOT an enforcement program. It is a choice based on implicit trust amongst partners involved.

Ram noted the certification program should add value, offer reasonable costs, and be practical for OEMs. Ram also added the program should perform best effort testing and limit liability; and enable a meaningful revenue model.

Ram presented certification testing types as Conformance Testing and Interoperability Testing.

Ram presented testing laboratory options: 3rd Party Lab(s) and OEM Lab(s)

Ram presented product categories as End Product, Module, and Integrated Product

Ram presented certification categories as New Product, Product Update, Product Variant, and Product Re-branding

Ram presented certification recommendations for Uncertified Product (End Product or Module); Major Revision (functional changes) to a Certified Product (End Product or Module); and Minor Revision to a Certified Product (End Product or Module)

Ram also noted additional testing options that are being considered by the C&C:

- a. In cases where it is not feasible to ship products to an authorized laboratory, the possibility of remote testing (via VPN) is being considered
- b. In cases where certified devices are not available on the market (due to the lead time in adoption), the use of certified simulators is being considered.

Ram presented timeline (for initial roll out)

- May 2015: Conformance Test Tool
- July 2015: Certification Administration Web Tool
- September 2015: 3rd Party Lab with interop testing infrastructure

### **C&C: Interoperability Testing**

AT4 introduced interoperability testing is a method for determining to what extent two or more AllJoyn implementations function together for some range of features, services and use cases over specific scenarios. AT4 added that interoperability testing has to be performed asserting the end-to-end services operation across two or more products.

AT4 noted interoperability testing needs to be performed in an AllSeen authorized laboratory: Third Party or OEM (with same requirements as the third party lab)

AT4 presented interoperability test beds, noting a test bed is a set of reference devices that are used in one or more test cases.

AT4 presented on golden units, noting these are reference devices selected for interoperability testing that have to fulfill some requirements to be used for Certification Testing.

It was clarified that Reference Devices must be AllSeen Certified

### **C&C: Certification Tool/Admin Tool**

AT4 introduced product certification process, with Certification Administration Web Tool, Certified Test Tool, and OEM Docs. AT4 presented on Certification Application Request Handling. AT4 presented on the Certification Test Tool, noting it will be used to perform conformance testing.

### **C&C: C&C Requirements for WGs**

Telis reminded TSC of C&C requirements for WGs, which can be found at [https://wiki.allseenalliance.org/tsc/approved\\_projects\\_and\\_working\\_groups\\_-\\_resources\\_and\\_expectations](https://wiki.allseenalliance.org/tsc/approved_projects_and_working_groups_-_resources_and_expectations)

### **Our environment**

Ry presented tools being used to get code into the codebase: Gerrit, Jenkins

Ry clarified primary path to utilize when emailing requests is [allseen-helpdesk@rt.linuxfoundation.org](mailto:allseen-helpdesk@rt.linuxfoundation.org)

### **Alliance Test Validation and Signoff for Core/Base Release**

Dino opened discussion around what the process will be moving forward, as Qualcomm is unable to drive as heavily as they did previously.

Discussion ensued around whether the Alliance should staff for testing, versus having a member/members handle all.

It was clarified that request is that the members would contribute the test cases, but

that the mechanics of executing the test cases should be done by the Alliance. Questions for clarification needed for scoping for release testing:

- What are the supported platforms?
- What are the costs?

Volunteers to help scope proposal that will then go to the Board for funding/approval were asked for. Microsoft (Arvin/Dino), LIFX (Marc), and Qualcomm (David McBride) volunteered.

Clarification is that testing would be on anything that is part of the CBI

### **E2E Test Strategy**

David McBride presented goal of open sourcing all of QCE's test artifacts (test plans, test cases, and test applications/automation).

David also noted goal of developing and hosting end-to-end test system as part of the AllSeen Alliance continuous integration.

David presented status update of testing being open sourced. Time frame was presented as Summer 2015.

David noted that the Linux Foundation has deployed a test case management tool called TestLink. David added that existing test cases will soon be migrated to TestLink.

David noted ToDo as developing a process for initiating test plans, creating and editing test cases and test applications.

David presented status update of end-to-end test system, noting that the Core Working Group is currently reviewing a proposal to setup and host an end-to-end test system, as part of continuous integration.

David noted the need for broader participation in testing, noting they are actively seeking other members to help with this growing task

- Test execution
- Test application development and maintenance
- Test automation development

David noted end-to-end test proposal was sent to the Core WG mailing list last week

### **New Project Proposal**

Torsten presented new project proposal for an AllJoyn System Bridge (ASB). Torsten noted that the ASB enables non-AllJoyn devices to be included in the AllJoyn ecosystem. Torsten added ASB will lower barriers to explore AllJoyn; that it will connect AllJoyn to a wide range of other device eco systems.

For getting stuff to AllJoyn, Torsten explained that the ASB creates proxies for each non-AllJoyn device on the AllJoyn bus. Torsten added that devices appear as regular AllJoyn devices on the AllJoyn bus.

For bridging non-AllJoyn device networks, different non-AllJoyn systems can be used on scenarios together through AllJoyn.

Torsten clarified that the ASB is not an alternative to AllJoyn transports.

Torsten noted the Gateway Agent enables remote control of AllJoyn devices through one or multiple networks; while the ASB creates a virtual proxy for non-AllJoyn devices on the AllJoyn Bus. These devices can be local or remote depending on the design of the ASB.

Torsten presented on the ASB Architecture: Network Access Stack, Adapter, Bridge

Torsten noted what Microsoft has done so far, including BACnet sample, Z-Wave sample, Mock ASB, and Visual Studio Extension

Greg clarified steps needed to formalize the project.

Motion to approve bypassing the 2 week review period for project creation was risen, seconded, and voted on with results as follows:

Verbal vote was executed and unanimously approved.

Torsten requested those interested in discussing the AllJoyn System Bridge to reach out to [AllJoyninfo@microsoft.com](mailto:AllJoyninfo@microsoft.com)

Next steps were confirmed as Microsoft submitting updated proposal, containing missing pieces, to the TSC mailing list.

### **Language Binding Support in Core and Base Services**

Marcello noted supported platforms, which can be found at <https://allseenalliance.org/developers/download/supported-platforms>

Marcello presented currently supported bindings in Core and Base Services, noting current maintainer, whether it is active, and verification.

It was concluded that the Chair of the Core WG will send an email to the Discuss, TSC, and Core mailing lists around supporting Objective-C support

### **How we handle dependencies on 3rd party source code/libraries**

Marcello raised concern around creating dependencies on 3rd party code in

particular OSS.

Marcello presented a proposal template that a project would follow. Marcello noted questions that would need to be answered for the proposal include: What is the project and where is the code; What license is the software under; What does the software do?; What problem are you trying to solve?; Why is this the right software to solve it?; and Is the software going to be an end user of the AllJoyn code dependency or an AllJoyn dependency?

Motion to approve proposed approval process for dependencies on 3rd party code was risen, seconded, and voted on with results as follows:

Verbal vote was executed and unanimously approved.

As next step, Marcello will create proposal for presentation to the Board for their approval

### **Technical Roadmap for the next 12 months**

Greg opened discussion around what priorities the Alliance would like to focus on for the next 12 months.

Ideas discussed included:

- Bridging (MQTT, XMPP, Thread, Serial)
- Power & Energy & Resources (sep 2.0, echonet-lite, KNX, Energy @ Home)
- Industrial IoT (factory/warehouse, offices/hotels, smart cities)
- PLAS
- OPC
- IPV6

### **Participation and Collaboration**

Philip noted member engagement manager that is being interviewed/brought in, who will be able to help increase collaboration/involvement once they are onboard.

Philip also noted the outstanding need of a technical evangelist who would be able to drive documentation.

Philip brought up fact that ⅓ of TSC have contributed code to the project, noting that those on the non-code side have other opportunities to contribute.

### **F2F Recap & Action Items**

Greg recapped changes to the TSC Charter that were discussed on Wednesday

Greg noted one change still requires a vote to approve:

A member of the TSC with suspended voting rights can not vote *in absentia* via email and they can not participate in email votes.

Motion to approve addition that a member of the TSC with suspended voting rights can not vote *in absentia* via email and they can not participate in email votes was risen, seconded, and voted on with results as follows:

Verbal vote was executed and unanimously approved.

Greg closed call