

AllSeen Alliance

TSC Minutes

September 2, 2014

6:00am PDT

via WebEx

TSC Participants:

Art Lancaster (Affinegy)

Daeyoung Kim (LGE)

Greg Burns (QCE)

Hiroshi Yahata (Panasonic)

Jean-Francois (Jeff) Remy (Technicolor)

Josh Hershberg (QCE)

Jun Zhang (Haier)

Marc Alexander (LIFX)

Mathew Martineau (QCE)

Tolly Smith (Silicon Image)

Toru Ueda (Sharp)

Not in attendance:

Dino Natucci (Microsoft)

Dominique Chanet (Technicolor)

Fabrizio Dolce (Electrolux)

Hideaki Imai (Sony)

Milton Wang (Haier)

Ryan Li (TP LINK)

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
- Move Core release date from 14.10 to 14.12 proposal
- Analytics project proposal
- Language bindings proposal

Approve minutes from the last call

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

Vote to move Core release date from 14.10 to 14.12

Greg recapped the proposal to move the core release date from 14.10 to 14.12, which will support additional security investments needed to improve 14.06 code prior to the release of Security 2.0

Greg noted one issue that came up was that router nodes may allow communication between subnets, with problem being that a router node on a dual-home system will allow broadcast messages to “bleed over” from the original subnet into the adjacent subnet. Greg added that one of the mitigations is to update the router node to forward messages only to nodes that are on the same subnet as the message originator.

Greg noted second issue that came up was that message headers are unencrypted, with problem being that the header packet contains information that could be pieced together to determine the user intent. Greg added that mitigations include method may be able to be moved into the encrypted portion of the message; need to ensure the package can be routed properly without the method info available to the router; and alternative: should have an option to allow the app to encrypt communications between leaf and router and between router and router.

Greg noted third issue that came up was that encryption and authentication is opt-in vs. opt-out for apps, with problem being that apps likely not to enable encryption by default and expose the user to attacks. Greg noted mitigations include protocol must provide a recommendation to use authentication and encryption; samples should be updated to demonstrate proper use of authentication and encryption; and windows implementations will default to authentication and encryption on

Greg noted forth issue that came up was the problem that the about service exposes a large amount of information about the device over multicast with no encryption or authentication before sharing. Greg noted mitigations include Advertise only the absolute minimum information required for discovery using About; Alternative: Create new “Secure About” interface instead of changing behaviors of existing About interface; and Alternative: Use mDNS to get the pre-session information then use About interface after authentication

Greg called for a vote

Motion was risen and seconded

from Mathew Martineau to Everyone:

Approve (December release)

from Marc Alexander to Everyone:

Approve

from Art Lancaster (Affinegy) to Everyone:

approve
from Jean-Francois Remy to Everyone:
Approve (December release)
from Jun Zhang (Haier) to Everyone:
Approve
from Tolly Smith (Silicon Image) to Everyone:
Approve
from Greg Burns (TCS Chair) to Everyone:
Approve 14.12 release
from Yahata (Panasonic) to Everyone:
Approve
from Daeyoung Kim to Everyone:
Approve
from Toru Ueda@sharp to Everyone:
approve
from Joshua Hershberg to Everyone:
approve

Proposal to move Core release date from 14.10 to 14.12 was passed unanimously.

Analytics project proposal

Greg introduced Shawn Conahan to present proposal for an analytics project.

Shawn began by noting that the basic problem they aim to solve is the gap in delivery of analytics between the device and the cloud/server. Shawn added that in order to do device analytics properly, you really have to have an embedded solution.

Shawn provided overview of how it works, starting with IoT integrated at the device level, then taking data and publishing to cloud based system, then enhancing where data and metadata are combined with aggregated external data, and finally distributing resulting output with real-time, actionable data.

Shawn introduced John Hardin to present Tellient's proposed solution.

John noted at the core is their analytics client core. Recommendation was made to have the data be an AllJoyn payload versus a protobuf payload.

John clarified that everything Tellient is providing to AllSeen that would be running on the proximal network would be open source.

Greg noted vote on proposal would take place on next TSC call, in 2 weeks. Greg encouraged discussions take place on the TSC mailing list until the meeting with the vote.

Language bindings proposal

Greg introduced Javier, from Fon, to present a language bindings proposal. Javier introduced SWIG to have unique wrapper code to create the bindings, several languages support, actively maintained, and same interface across languages.

Javier clarified he was thinking of thin libraries to begin

Javier noted he would welcome help so if anyone was interested, they should email him.

Greg closed call