



**ALLSEEN
ALLIANCE**

TSC Face 2 Face

@ Allseen Alliance Summit

November 11, 2014

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Agenda

1. Approve Minutes from Previous Call
2. TSC Introduction
3. Workgroups & projects
4. Interface review board proposal
5. Home Appliances & Entertainment proposal
6. Hackfests & developer outreach
7. Roadmap & Priorities
8. Open Discussion



TSC Introduction

Technical Steering Committee Introduction

- TSC Membership is made up of chairs of each working group plus one member from each premier company that does not chair a working group plus the TSC chair.
 - Currently TSC has 18 voting members
- Functions of the TSC
 - Support the technical implementation of the strategy set out by the board
 - Manage the TSC budget and vote on allocations
 - Approve project proposals
 - Approve formation of new working group
 - Define release roadmaps
 - Make decisions on choice of software build tools
 - Decide on hackathon venues and allocate funds
 - Relationships with other alliances and standard bodies

Weekly TSC Calls

- The TSC has a call almost every week
 - We discuss issues raised by the membership
 - Get updates from various working groups
 - Vote on project and working group proposals
- Calls alternate weekly between 9pm PST Mondays, and 6am PST Tuesdays
 - Shares the pain across geographies
- This is the 38th TSC meeting since the Alliance was formed
 - All the calls are open and are recorded
 - The presentation materials and recordings are all on the Allseen Alliance TSC Wiki page
- Round table introduction to the TSC members



Projects and Working Groups

Project and Working Groups

- Code contributions are organized into projects
 - Each project has a unique git repository
 - Projects have contributors, committers, and a maintainer
- Contributors
 - Anyone can contribute code to a project – even individuals who are not Alliance members
- Committers
 - Must be employee of a member company or and individual member
 - Control technical direction of the projects
 - Accept or reject contributions
 - Conduct code reviews of contributions and provide feedback to the contributor
- Maintainer
 - The individual responsible for the project. Voted in by the committers as the project representative

Collaboration Scorecard



Projects

36 total projects

19 active

5 new



Contributions

70 individual contributors

13 companies

Over 2,700 contributions



Jira Tickets

1,600 submitted

1,250 closed

330 open or in progress

Project and Working Groups Discussion

- What works
 - Clear interest in formation of new projects and working groups
 - 19 active projects
 - Active collaboration in core, lighting, gateway, developer tools
 - Contribution rate is accelerating
- What doesn't work so well
 - Single company working groups
 - Lack of clarity on project lifecycle
 - Need criteria for migration from incubation to mature phase



Interface Review Board Proposal

Dominique Chanet

Interface definitions are the most important output of the Working Groups.

- Helper libraries, reference implementations are constrained to a limited set of platforms, language bindings.
- Many products will include independently implement a service or an interface based on the interface definition.
- C&C posts interface definitions and test specs precisely to make this possible.
- C&C review efforts
 - make sure the test spec matches the interface definition
 - take interface quality more or less as a given

Not all interfaces are created equal.

- Need for stylistic homogeneity
 - superficial: capitalization, spelling, language, ...
 - semantic:
 - data-centric or service-oriented
 - methods vs. signals vs. properties
 - signal types: sessionless vs. broadcast vs. unicast vs. sessioncast
 - granularity: one big interface or many small ones
 - physical units: Kelvin, Fahrenheit or Celcius?
 - ...
- Is your interface design future proof?
 - interfaces will evolve over time
 - some designs lend themselves better to forward and backward compatibility than others
 - some restrictions must be taken into account when evolving interfaces

Proposing the Interface Review Board.

- A committee that oversees the various interfaces that are designed in the Working Groups
- First (important!) job: lay down the ground rules and conventions for interface design
- Assists WGs in defining their interfaces, and in evolving them over time
 - to be involved from early on in the WG process
- Must have a deciding vote in whether an interface definition is ready for standardisation.

Many practicalities to be decided.

- Who will man this committee?
- How large will it be?
- Voting procedures?
- Service guarantees
how long does it take to review an interface?

Technicolor is championing this proposal, but the IRB must be a collaborative effort that is supported by the community at large.



Home Appliances and Entertainment

Home Appliances & Entertainment proposal

- Joint proposal from Haier and LG submitted to TSC November 7th 2014
 - Two week notice for feedback and comments starts today
- Defines the standard device interfaces for Home Appliances and Entertainment devices
 - Air Conditioner, Air Cleaner, Air Quality Monitor, Oven, Refrigerator, Robot Vacuum, Washer,
 - Mandates a minimum set of common functionality across devices from different vendors
- Detailed presentation to TSC to be scheduled for upcoming TSC call
- Vote to approve to follow one week after the presentation
- Comments on this proposal should be sent to the TSC mailing list

Hackfests and Developer Outreach



“By 2017, 50 Percent of Internet of Things Solutions Will Originate in Startups That Are Less Than Three Years Old”

Gartner Research

Hackfests & developer outreach

- Three Hackfests so far this year
 - San Francisco, Phoenix, Las Vegas
- San Francisco
 - Rough start – only a few teams saw it through to the end
 - Even with pre-built VMs setup time was long
 - Learning curve was steep for developers new to AllJoyn
- Phoenix
 - Better engagement
 - JavaScript was primary language
 - Developers showed preference for Raspberry Pi
- Las Vegas
 - AllJoyn was just one of many technologies being used
 - Built on what was learned at Phoenix

How can do a better job of developer outreach

- Focused AllSeen events
- Broader range of hardware available
- Reduce the learning curve for new developers
- Leverage local maker and hacker meetups
- Need to venues in Europe, Asia, etc



Roadmap and Priorities

Focus for 15.10 and beyond

- Transports?
 - Thread, Zigbee, Z-Wave, BT-LE
- Industrial and enterprise scalability
 - Server-based discovery mechanisms
- API improvements
 - Simpler APIs set (along lines of AllJoyn.js)
- Possible working group priorities
 - Media streaming
 - Smart-energy
 - Others?



Open Discussion

Discussion open to membership

- What are we doing right
- What are we doing wrong?
- What could we do better?



Thank You

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