

#### **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**

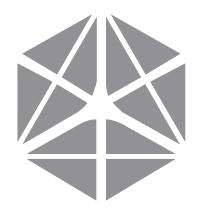
- The TSC has a call almost every week
  - We discuss issues raised by the membership
  - Get updates from various working groups
  - Vote on project and working group proposals
- Calls alternate weekly between 9pm PST Mondays, and 6am PSS Tuesdays
  - Shares the pain across geographies
- This is the 38<sup>th</sup> 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



**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 & Entertainment proposal

- Joint proposal from Haier and LG submitted to TSC November 7<sup>th</sup> 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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