Technical Steering Meeting

June 30, 2014

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Reminder:

This call is being recorded

Agenda

- Approve minutes from last meeting
- 14.06 Status
- Hackfest proposal with vote for approval
- Smart Home Service Framework Working Group Proposal
- AllJoyn.js project proposal
- Node.js project poposal
- AllJoyn in the wild
  - A sampling of projects currently using AllJoyn

14.06 Status

14.06 Status

- AllJoyn v14.06 beta was released to AllSeen Alliance June 30
  - Source
  - SDKs
- Additional test and characterization planned for July
  - System stability
  - NGNS Cache Refresh
  - NGNS stress and performance
  - AllJoyn-ON
- AllJoyn v14.06 final targeted for early August
  - Will be providing frequent updates

ALLSEEN ALLIANCE

HackFest for Approval
Q3 2014

Mini HackFest PHX

Overview

- Provide support for CTIA/AT&T
- Getting More Developers skilled up to be additional mentors for CTIA and future HackFest
- Increase exposure in the Maker/IoT/Node.JS community
  - Testing the HackFest model to engage the local meet up & communities
- AT&T is willing to help support and run the Mini HackFest

Proposed Date

- Saturday, August 23rd

Location

Local Motors Microfactory
1576B S. Nelson Dr,
Chandler AZ 85226

Resources Needed

- 2 Qualcomm reps

ROI

- # registered attendees
- # of actual attendees
- # of new mentors/trainers produced
- # of attendees that went on to attend CTIA
- # of new assets to continue to grow the community

Estimated Cost of Event: $21,960

- **Includes:** Hardware Cost, Creative Services, AllSeen Branding, Furniture Rental, Catering, Collateral, Shipping, Event Management Fee (pre, post and on-site), and Event Staff Travel

CTIA - AT&T HackFest

Overview

Who

- 250-300 Developers

What

- 24- hours Hackathon & developer prize packages
- Finalist judges by well-known industry leaders at VIP party
- On-site entertainment, networking & fun

When

- September 6 & 7, 2014

Where

- Cosmopolitan Hotel's Chelsea Theater

Why

- Promote innovative thinking around apps and services to mobilize life at home and in the car

Website

- http://www.eventbrite.com/e/att-hackathon-super-mobility-week-code-for-car-home-tickets-1158584256

Cost to Attend

- Free

Estimated Cost of Event: $22,500

- **Includes:** Additional Hardware, Creative Services, AllSeen Branding, Collateral for Booth, AV Rental, Shipping, Event Management Fee (pre, post and on-site), and Event Staff Travel

CTIA - AT&T HackFest

Sponsorship includes:

- Sponsor table: One (1) dedicated sponsor table located in Hackathon venue
- Logo inclusion on Hackathon registration website
- Logo inclusion in Hackathon kickoff presentation deck
- Inclusion in the following marketing materials: AT&T Developer Program event page, AT&T Developer Program Hackathon recap blog and Hackathon Eventbrite listing
- Logo placements around Hackathon venue
- Social media posts on AT&T Developer Program channels

Sponsorship Package - Alliance to Provide:

- 1 (5 minute) lightning round talk
- 100 development boards
- 2 staff members/engineers as mentors, technical support

Additional Options (additional costs associated and not currently in quote):

- Interactive Display - member products
- “Carry-in” prize

Benefits

- AllSeen exposure with big brand company
- Accelerate the growth of the AllJoyn ecosystem
  - Getting more products to market faster
- Targeting Developers to be more involved in the open source project and using the code

ROI

- # of developers that stop by AllSeen table
- # of developer/teams that used AllJoyn during the hackathon
- # of buzzworthy mobile applications & creations
- Social Media -Metrics
- # membership inquires
- # of newsletter inquires

Smart Home Service Framework Working Group Proposal Presentation

Jun Zhang
Standard Operation Manager Haier

Introduction

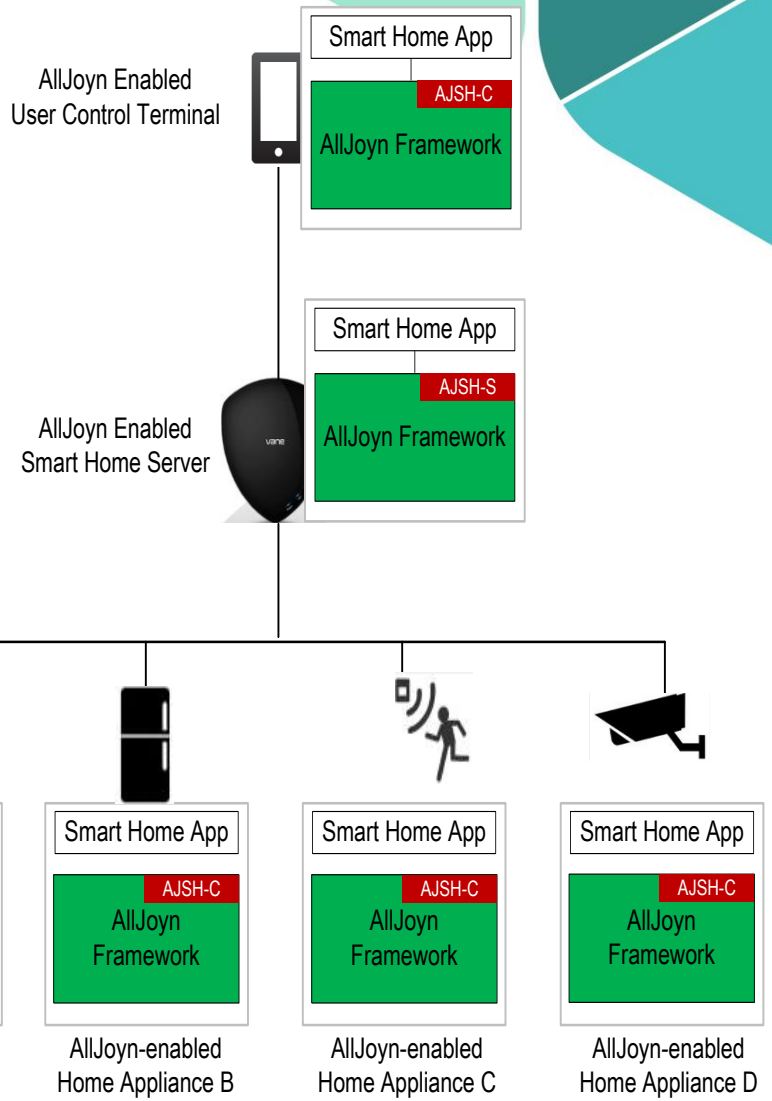
- Many vendors in China are actively developing smart home system with centralized management features. In such system, home appliances act as smart home clients and connect to a centralized smart home server in the home acting as proximal home automation controller.
- The smart home server in the smart home system provides a number of connected-home services for home appliances, including appliances centralized management, group control, appliances coordination and system logging, etc.
- The introduction of the smart home server is not to negate the distributed communication but to provide additional feature to customers for their benefits of controlling the entrance of home appliances. It moves more complicated logic and implementation into the AllJoyn smart home server device and keeps the AllJoyn smart home client device simpler and at lower cost.

SHSF Objectives

- It is proposed to design and develop smart home service framework based on AllJoyn. The interface between AllJoyn smart home server and AllJoyn smart home client needs to be designed and developed.
  - Appliances centralized management: the AllJoyn smart home server connects home appliances and provides the capability to manage home appliances in a centralized management manner.
  - Centralized security: to share appliances services to be accessed by other users under the protection of authority control through the smart home server.
  - Group control: the smart home server provides the capability to control bunch of home appliances in a group manner.
  - Data collection & logging: aggregate available appliances data and log information on the smart home server.
- SHSF proposal is here: https://wiki.allseenalliance.org/tsc/technical_steering_committee/smart_home_service_framework

SHSF Architecture Diagram

- SHSF includes AllJoyn smart home service API (AJSH-S) and AllJoyn smart home client API (AJSH-C).
  - AJSH-S: the smart home server implements AJSH-S acting as the central control and management point for home appliances.
  - AJSH-C: home appliances and user's control terminal implement AJSH-C.
  - Home appliances in the field domain are aware of the smart home server and connect to it. Home appliances expose their available appliances services on the smart home server by utilizing AJSH-S. By accessing to the smart home server, users can control home appliances in a centralized management manner.



Initial Contributors

- Haier
  - Committers
    - Guodong Xue, Director
    - Milton Wang, Vice Director
    - Zhao Ru, Standard Development Manager
    - Qingsong Bai , Standard Development Manager
    - Jun Zhang, Standard Operation Manager
- BUPT
  - Committers
    - Yonghua Li, Vice Professor
    - Yu Yang, Engineer
    - Linghan Li, Engineer
    - Kun Zheng, Engineer
    - Lei Qi, Engineer
    - Fangzhou Liang, Engineer
    - Ruopei Guo, Engineer

High Level Plan

- The project is dependent on the 14.06 release of AllJoyn Core and Base Service. The first release is planned for 2014/08. The project will provide the first release as slipstream release and then align with the official release cadence.
- Initial contribution will be a general description of AllJoyn Smart Home Service Framework.

Thank you and Acknowledgements

Special thanks to Shane Dewing and Yan Zhuang for very good advices to the proposal.

Thanks to TSC members.

AllJoyn.js Feature Proposal Presentation

Project Description

- Introduction
  - Embedded systems programming is hard and requires specialized skills and tools. For IoT to really take off it needs to be much easier and faster to program IoT devices.
  - This project enables the development of AllJoyn™ IoT applications on embedded microcontrollers in JavaScript™, the programming language of the world wide web familiar to hundreds of thousands of software developers.
- Description
  - AllJoyn.js combined the AllJoyn thin core library (AJTCL) and base services with a small-footprint ECMAScript 5.0 compliant runtime engine. A set of JavaScript APIs provide an easy to use abstraction layer over the AllJoyn core, base services, and the device IO peripherals.
  - The combined implementation is targeted at microcontrollers having a minimum of128K RAM and 500K flash but is also designed to run on Linux and Windows.

Scope

- Integrate AJTCL with Duktape embedded JavaScript engine
  - Integrate
    - AllJoyn onboarding
    - Events & Actions
    - Config
  - Provide for OTA installation of script files
  - Enabled remote debugging
- Abstraction layers for the following functionality:
  - AllJoyn core
  - Control Panel Service
  - Notification Service
  - IO (GPIO, ADC/DAC, etc.)
  - Timers
  - Interrupts

Dependencies

- AllJoyn 14.06
  - For initial contributions
- AllJoyn 14.10
  - For experimental release
- Duktape embeddable JavaScript engine
  - http://duktape.org/

Project Name

- Proposed name for the project
  - AllJoyn.js
- Proposed name for the GIT repository
  - alljoyn-js

Proposed Working Group

- Proposal for this project to be a part of the following working group
  - CORE

Committed Project Resources

- Maintainer
  - Greg Burns, Qualcomm Connected Experiences
- Committers
  - Peter Krystad - Engineer, QCE
  - Greg Burns - QCE
- Contributors
  - Sunvir Gujral, QCE
  - James Prestwood – QCE
  - Jessica Bahr, QCE
  - Sami Petteri Vaaral - Independent (Duktape maintainer)

Proposed Release Schedule

- Initial contribution
  - Shortly after project approval
- Initial release aligned with 14.10
  - Will be marked experimental
  - Supported on Linux for evaluation
    - Embedded platforms to follow

Node.js project proposal

Node.js

- Node.js is a very popular event-driven JavaScript platform for network applications
  - Includes a module system for easy installation of additional functionality
  - AllJoyn can be accessed as a native add-on
- Goals
  - Teaching platform for AllJoyn
  - Use for hackfests
  - Make it easy to use AllJoyn with other Node projects
    - Node-RED and NodeBLU for IoT, Nodebots

Node.js Project Details

- Proposed for the Dev Tools WG
  - Heavily leverages existing Alljoyn JavaScript binding
- Contributions from Octoblu and Weaved include:
  - Code
  - Specification for mapping AllJoyn APIs to JavaScript
  - Test code to exercise the module
- Discuss
  - allseen-nodejs@lists.allseenalliance.org

Projects Using AllJoyn

- Kickstarter
  - Range Oven Intelligence
    - https://www.kickstarter.com/projects/supermechanical/range-oven-intelligence-a-brain-for-your-oven-or-g
- Development Boards
  - Dog Hunter's Linino Arduino Yún
  - Qualcomm Atheros QCA4002/QCA4004 with IoE Wi-Fi Development Kit
- HiFi Systems
  - Gramofon by Fon
  - Musaic
- Lighting
  - LIFX wifi, multi-color, energy efficient LED light bulbs
- Mobile Apps
  - DoubleTwist for Android
  - EXO U Collaborative Workspace
  - MobileSputnik by MobilityLabs
  - Muzzley
- TV's
  - John-Lewis JL9000 LED 3D HDTVs
  - LG SMART+ WebOS 2D and 3D TVs
  - LG UltraHD 4K TVs
  - LG OLED TVs
  - LG 105" Curved UltraHD TV
  - LG 55" Curved OLED CINEMA 3D SMART TV

Visit https://allseenalliance.org/showcase for details and links

Technical Steering Meeting

Thank You.