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Technical Steering Meeting

July 14, 2014

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Reminder:

This call is being recorded

Agenda

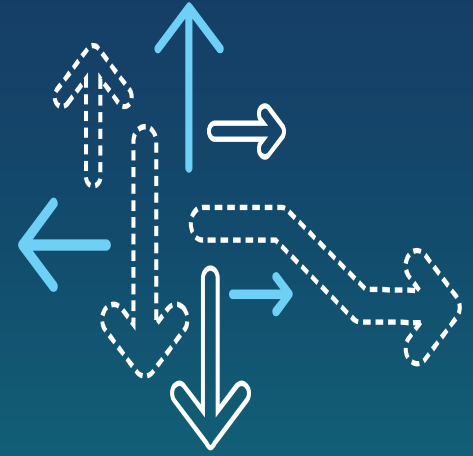
- Approve minutes from last call
- Vote AllJoyn.js
- Vote on node.js proposal
- Open WRT
- 14.06 Status

AllJoyn.js Project Vote

- 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 of 128K RAM and 500K flash but is also designed to run on Linux and Windows.

node.js Project Vote

- 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



OpenWrt

OpenWrt Overview

- Source code based Linux distribution designed for routers, gateways, and access points.
 - Does not actually include source code - pulls source code from upstream projects
- Support for a wide variety of processors, architectures, and boards: <http://wiki.openwrt.org/toh/start>
- Flexible system for selecting what to include/exclude from the build
- Package management system for adding/removing/upgrading packages at runtime after initial install
- Small footprint - can be squeezed into as little as (may need to make some compromises depending on what is included in the build):
 - 8M Flash
 - 16M RAM
- Supports external package repositories through a mechanism called "feeds"

AllJoyn on OpenWrt

- Packaged like any other component of OpenWrt
- Runs alljoyn-daemon as the routing node from an init script - always running while device is powered on
- Default configuration allows for TC devices to use as the routing node
- Includes PolicyDB functionality in support of securing the Gateway Agent feature that is currently under development
- Available for any OpenWrt based system via a feed:
 - Latest official AllJoyn release for OpenWrt Barrier Breaker (current development version of OpenWrt):
src-git alljoyn https://git.allseenalliance.org/gerrit/core/openwrt_feed;barrier_breaker
 - Latest official AllJoyn release for OpenWrt 12.09:
src-git alljoyn https://git.allseenalliance.org/gerrit/core/openwrt_feed;attitude_adjustment
 - For packages under development (some infrastructure work still needed before this is truly useful):
src-git alljoyn https://git.allseenalliance.org/gerrit/core/openwrt_feed
 - 14.06 beta and release candidate testing:
src-git alljoyn https://git.allseenalliance.org/gerrit/core/openwrt_feed;test

14.06 Status

14.06 Status for 7-8-14

- Current status
 - Since 14.06 Beta release
 - 20 issues identified and assigned to v14.06
 - 14 are P2 priority
 - 6 issues closed
 - All issues can be viewed at <https://jira.allseenalliance.org>
- Tests and characterizations
 - System stability
 - NGNS Cache Refresh
 - Completed 7/7
 - NGNS stress and performance
 - AllJoyn ON
 - Services testing on QSDK targets
- AllJoyn v14.06 final targeted for early August
 - Team is currently on track

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Thank You.