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Technical Steering Meeting

May 16, 2016



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Agenda

1. Approve minutes from previous meeting
2. New Committer in Core project
3. AllJoyn Home Device Bridge Project Proposal



New Core Project commiter

Marcello Lioy

Way Vadhanasin

- Currently a committer on the core/test repo
- Has been a reviewer on the core/alljoyn project for a year or more
- Want to add him as a committer to core/alljoyn
 - Committers on that project have voted to approve his nomination
- Asking TSC to vote to approve



AllJoyn Home Device Bridge Project Proposal

Cheol Hwi Kim, Innopia Technologies, Inc.

May 2016

AllJoyn Home Device Bridge Project Proposal

- **Background:**

- The current AllJoyn Device System Bridge is only supported for Windows OS thus there has been limitation for expanding ecosystem in other platforms.
- AllJoyn Home Device Bridge Provides a standard Bridge connection to non-AllJoyn devices such as ZigBee, Z-Wave and Bluetooth to AllJoyn in Linux based platform such as Android and OpenWRT.

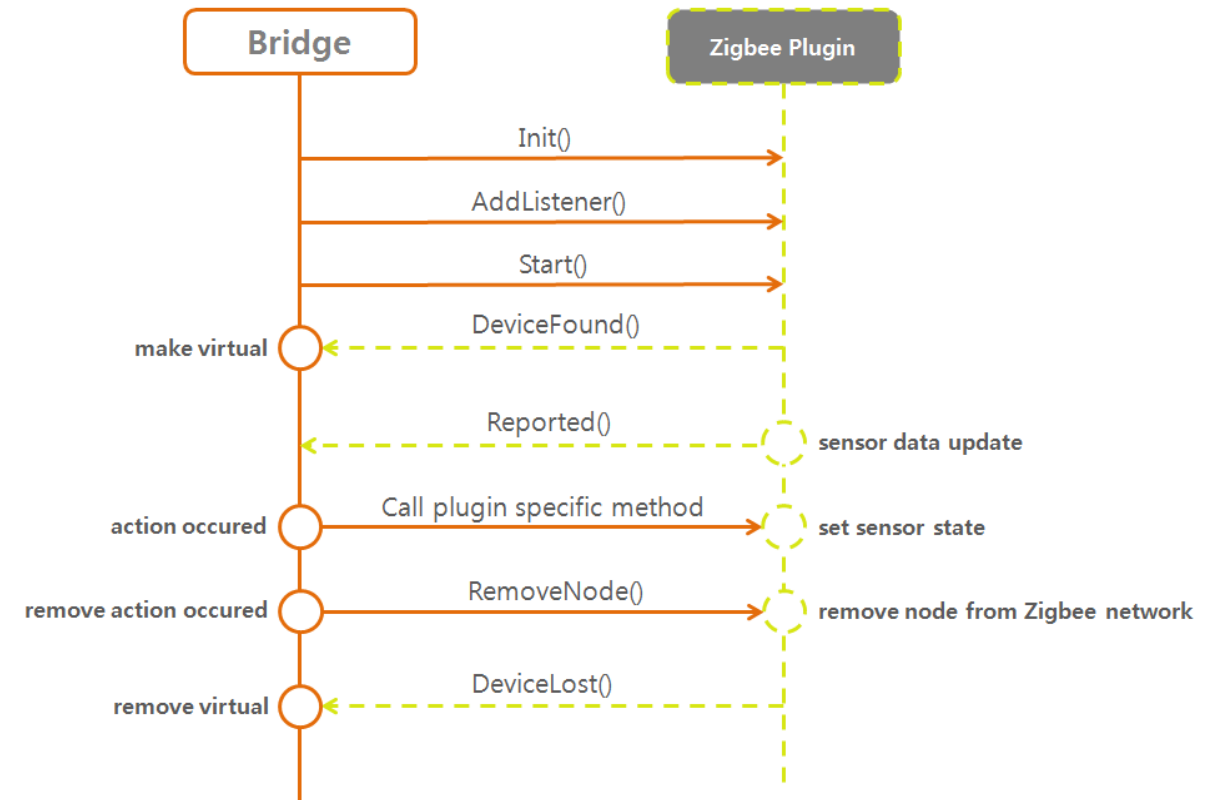
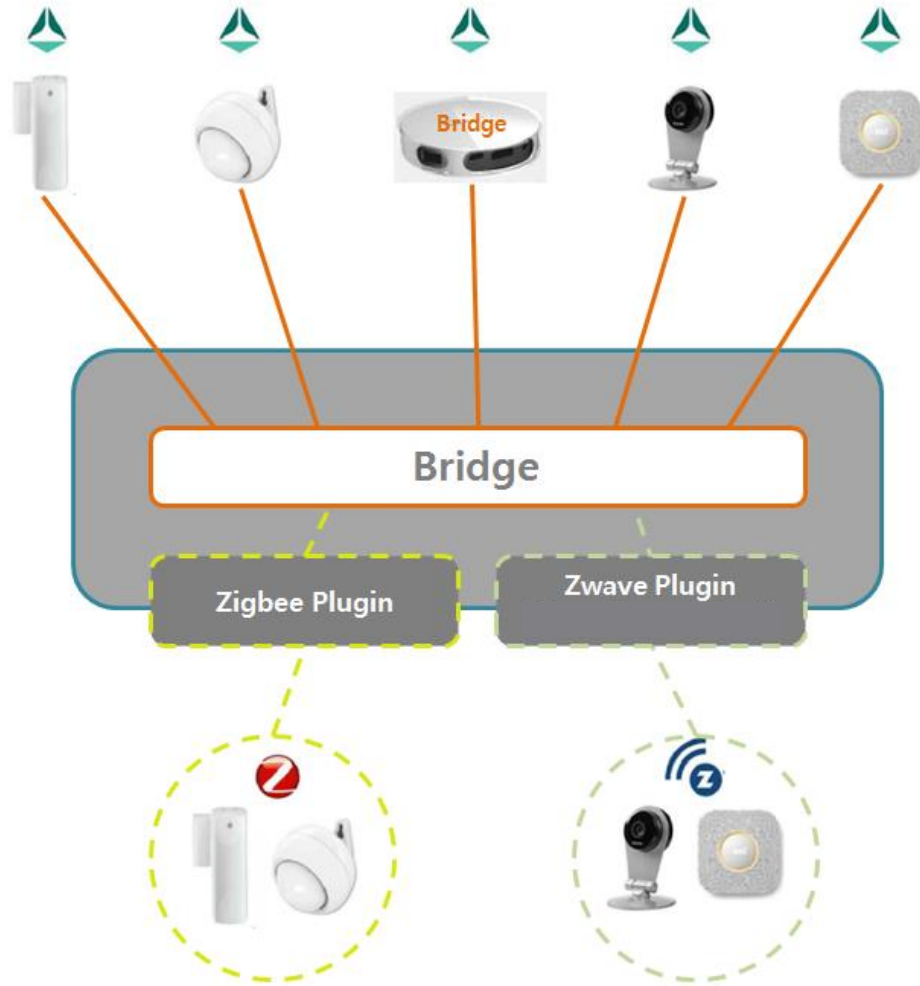
- **Objectives:**

- Provide Home Device Bridge which can initially connect ZigBee and Z-Wave device to AllJoyn in Linux OS and Open WRT OS. The future update will support Bluetooth and Thread. Also Android OS support will be added.
- AllJoyn Home Device Bridge creates virtual representation of devices on the AllJoyn bus for each external device.
- Virtual representation supports the following AllJoyn services: About, Configuration and Events & Actions.
- For Home Device Bridge, notification service is also supported.
- From the user's perspective, any standard ZigBee, Z-Wave and Bluetooth device will be recognized as AllJoyn device.

AllJoyn Home Device Bridge Interfaces

- Bridge:
 - Represents each external devices as AllJoyn device dynamically.
 - Have specific configuration file for each external device.
 - Have specific Events & Actions Database for each external device.
 - Virtual representation supports on-boarding and notification services
 - Virtual representation has Actions for entering Add/Remove mode for ZigBee/Z-wave
- Plugin:
 - Each plugin needs implementation of network stack for device.
 - ZigBee Plugin Socket
 - Z-Wave Plugin Socket

An Application Example



Project Information

- Working Group: Gateway Working Group
- Staff – from Innopia Technologies, Inc.
 - Project Maintainer - Dong Seok Shin (dsshin@innopiatech.com)
 - Sang Heon Lee (shlee@innopiatech.com)
 - Cheol Hwi Kim (kimcheolhwi@innopiatech.com)
- Supported platforms: Linux kernel platforms, e.g. Android, OpenWRT
- GIT repository name: Home Device Bridge
- Supported AllJoyn Version: Starting from v15.09
- Status and schedule
 - First release is planed to be 2 months after the approval of the project.
- We ask support from the TSC for approval of this project.



Thank You

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