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HAE Project Progress Update

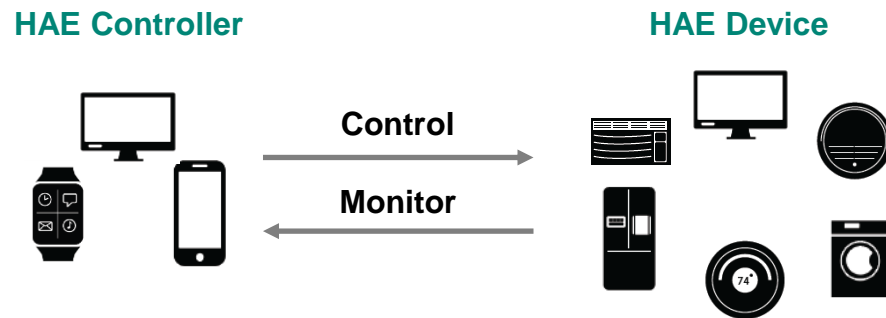
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Project Maintainer**

June 1, 2015

Overview of HAE Service Framework

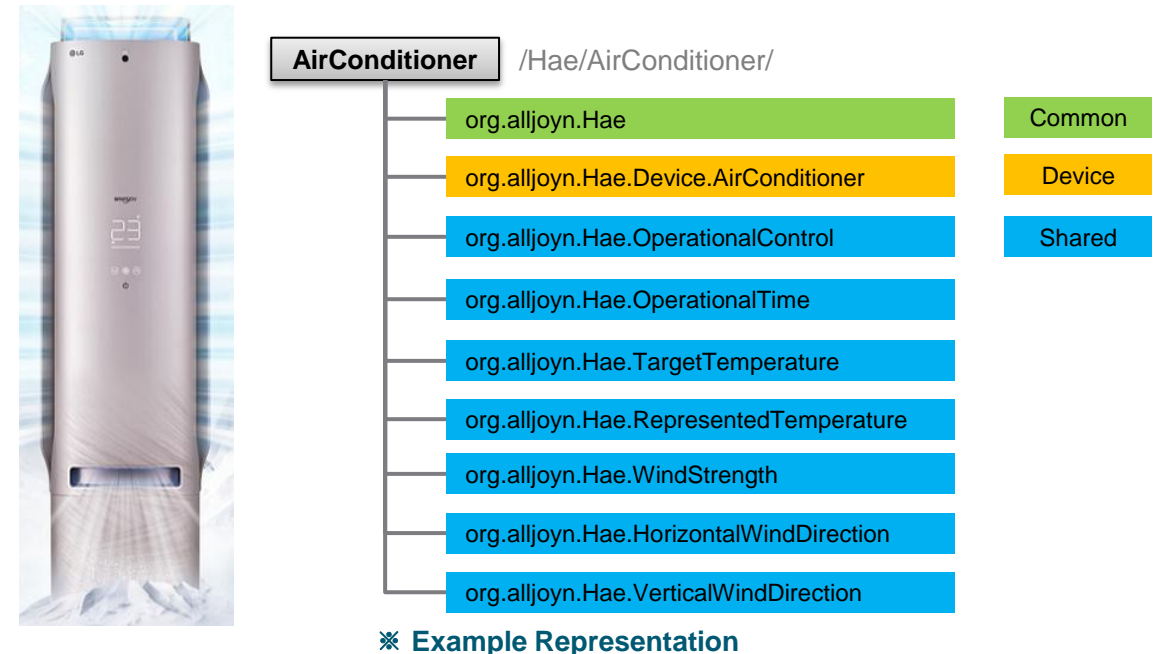
The HAE service framework project develops the common way of controlling and monitoring Home Appliances & Entertainment (HAE) category devices, regardless of device manufacturers.

Use Cases and Benefits



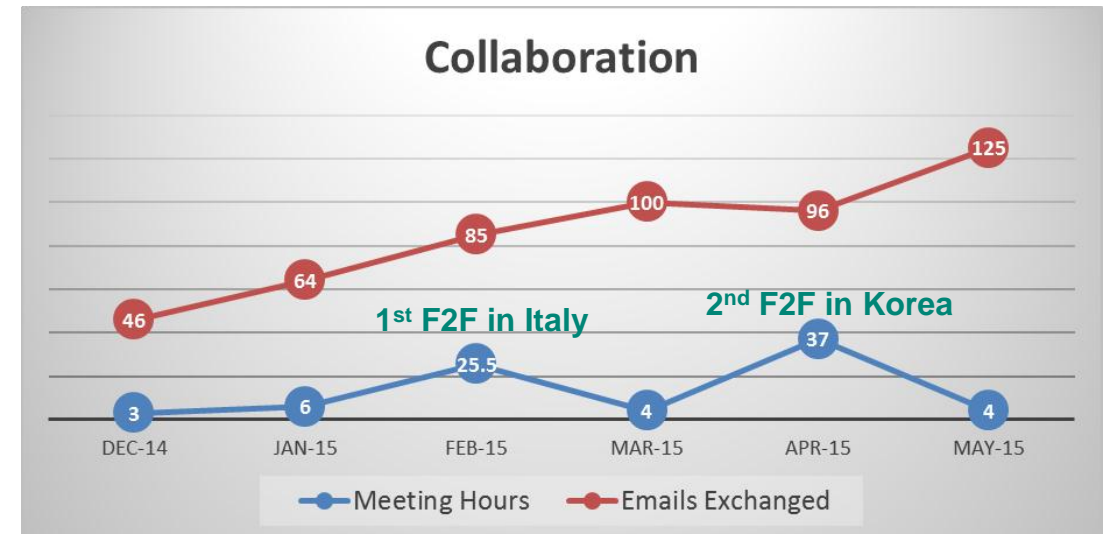
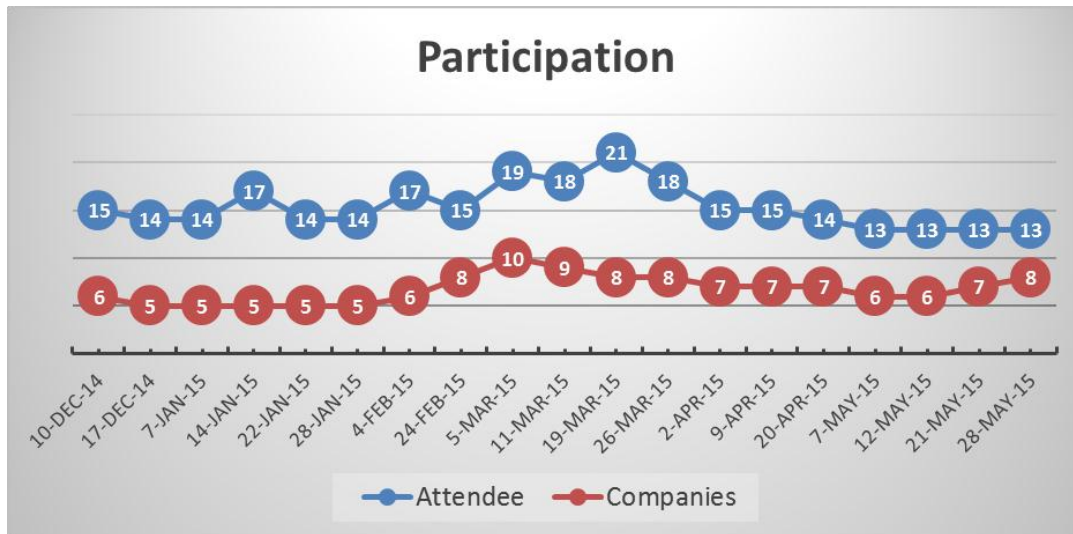
- Cross-Vendor Interoperability
- True Machine-to-Machine Interaction

AllJoyn Representation



Consistent Efforts

Members are making consistent efforts to deliver AllJoyn interface definitions for flexible representation of HAE devices while complying with IRB guidelines.



- Participation hit record-high in March.
- Consistent participation by 7 companies.



- Target schedule for interface definitions
 - Submit to IRB by early July.
 - Get approval by early August. (before summer vacation)

Current Progress

- “Common” interface
 - Contains common part for All HAE devices.
 - Per About announcement, one and only one shall be found under the root HAE bus object.
 - <https://jira.allseenalliance.org/browse/ASAHAЕ-3> (under comments & resolutions)
- “Shared” interfaces
 - Sharable or Reusable interfaces across HAE devices. ※ AllJoyn syntax independent device models have been developed first to help identify common/reusable features across device types and separate optional features from mandatory ones.
 - 36 interfaces are developed and converting those into AllJoyn-syntax version are under way.
 - A few more are expected to be added. ※ The final total number of interface definitions are subject to change.
- “Device” interfaces
 - 20 interfaces will be developed. (one per each standard HAE device type)
 - Refrigerator, Fridge, Freezer, Ice Maker, Air Conditioner, Humidifier, Dehumidifier, Air Purifier, Electric Fan, Air Quality Monitor, Thermostat, Washer, Dryer, Washer Dryer, Dish Washer, Oven, Cooker Hood, Cooktop, Robot Cleaner, TV.
- Link to interface definitions for internal review will be available shortly here ([ASAHAЕ-16](#)).
 - Use of Git /Gerrit was adopted for further comments & resolutions of developed interface definitions in markdown format (@ June 21st call).

Next Step

- Updated milestones

Milestone	Original (Dec-14)	1 st Update (Feb-15)	2 nd Update (May-2015)
AllJoyn interface specifications	Feb. 2015	Apr. 2015	Submission to IRB by July 8, 2015 IRB Approval by August 5, 2015
High-level design (HLD) documents	Mar. 2015	May. 2015	End of August, 2015
Foundational component implementations for Linux (C/C++)	Jun. 2015	Jul. 2015	End of October, 2015
Certification test suite	Aug. 2015	Sep. 2015	End of December, 2015
Reference controller applications for Android & iOS	Sep. 2015	Oct. 2015	End of December, 2015



- To finish our work on interface definitions, 3rd F2F meeting will be held in Beijing during 6/23 ~ 26.

Open Points and Call for Advice

- List of general open points is available here.
 - <https://jira.allseenalliance.org/browse/ASAHAE-13>
- While resolving some of open points, inquiries and requests were made to IRB, Core and Common Frameworks WGs.
 - A new feature Jira ticket ([ASACORE-1811](#)) to add support for generic error message delivery for Properties was created.
 - A question on the availability and its current status of “Time Service” was asked, and one of HAE participants volunteered to take over the project.
 - A question on the reusability of the org.alljoyn.Control.Volume was asked, it was recommended to redefine the volume control interface of HAE’s own since that interface violates some of IRB guidelines.
- Some of points are still open and they are not HAE-specific. Your advice or consultation would be greatly appreciated.
 - [ID 6] Is it legal to reply to a method call or SetProperty before applying a set-point value internally ?
 - [ID 8] Too frequent emission of property changed signal should be avoided. Any guideline or minimum requirements on frequency or interval ?
 - [ID 10] Identifying semantic meanings of multiple instances of an interface.



Thank you

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