ALLSEEN ALLIANCE

HAE Service Framework – Weekly Technical Meeting

July 09, 2015

Antitrust Compliance Notice

- AllSeen Alliance meetings involve participation by industry competitors, and it is the intention of AllSeen Alliance to conduct all of its activities in accordance with applicable antitrust and competition laws. It is therefore extremely important that attendees adhere to meeting agendas, and be aware of and not participate in any activities that are prohibited under applicable US state, federal or foreign antitrust and competition laws.

- Examples of types of actions that are prohibited at AllSeen Alliance meetings and in connection with AllSeen Alliance activities are described in the AllSeen Alliance Antitrust Policy. If you have questions about these matters, please contact your company counsel, or if you are a member of AllSeen Alliance, feel free to contact Lee Gesmer or Andrew Updegrove, of the firm of Gesmer Updegrove LLP, which provides legal counsel to AllSeen Alliance.

Reminder:
This call is being recorded

Agenda

1. Open Points
2. Summary of Error Messages
3. Temperature Representation and its Unit

Open Points

- https://jira.allseenalliance.org/browse/ASAHAE-13
  - Open Point No. 8 : “EmitsChangedSignal” annotation
  - Open Point No. 11 : “Secure” annotation
  - Open Point No. 12 : New namespace structure
  - Open Point No. 21 : Error messages
  - Open Point No. 25 : Proprietary -> Vendor-defined
  - Open Point No. 26 : XML with description tags
  - Open Point No. 27 : Special value for NotSupported

Summary of Error Messages

- Error name: **org.alljoyn.Error.LanguageNotSupported**
  Error message: **"The language specified is not supported"**
  Note: already used in About, Configuration Interfaces ...

- Error name: **org.alljoyn.Error.InvalidValue**
  Error message: **"Invalid value"**
  Notes: already used in Configuration Interface; HAE interfaces don't never use org.alljoyn.Error.OutOfRange (used Control Panel)

- Error Name: **org.alljoyn.Hae.Error.NotSupported**
  Error message: **"Feature not supported"**
  Note: new error, defined just for HAE interfaces.
  Question: is it the case to use the error "org.alljoyn.Error.FeatureNotAvailable" instead, which used in Configuration Interface?
  Electrolux Opinion: Yes, the information is quite the same.

- Error Name: **org.alljoyn.Hae.Error.RemoteControlDisabled**
  Error message: **"Remote control disabled"**
  Note: new error, defined just for HAE interfaces.

- Error Name: **org.alljoyn.Hae.Error.NotAcceptableDueToInternalState**
  Error message: **"The value is not acceptable due to internal state"**
  Note: new error, defined just for HAE interfaces.
  Question: is it the case to use the error "org.alljoyn.Error.InvalidState", which used in Control Panel Interface?
  Electrolux Opinion: No, it is listed only in the error list of Control Panel Interface, but it is not clear when it is used. Moreover the org.alljoyn.Hae.Error.NotAcceptableDueToInternalState describes with more in detail the error.

Temperature Representation and its Unit

	IPSO	ZigBee	Z-Wave
Representation	Float	Signed 16-bit integer - 100 x temperature in degree Celcius	Decimal value (n-bytes), Precision (3 bits) - 10.25 = Decimal 1025, Precision 2
Unit	Variable (string) - “Cel” for celcius	Fixed	Variable (2 bits) - 0 : Celcius, 1 : Fahrenheit
Range	Min/Max available	Min/Max available	Not available

- Opinions from IRB
  - IPSO specifies an optional property “Units” that can be used to specify the units if other than the interface’s default. Having such a property would seem to be even more useful if the value is not a float but just an int, due to precision errors.
  - Why not add the unit explicitly in the data model? Again, two reasons:
    - If you would, how would you represent it? Enumerations are impractical for this purpose, and text strings doubly so (“centigrade”, “Celsius”, “celcius”, “C”, “°C” all mean the same thing).
    - Philosophically, there is the dichotomy between wire format and presentation. Presentation is a client-only concern: the user configures the client device to display temperature as Fahrenheit or Celcius, but that should not have any bearing on the producer device: different users may configure their clients in different ways, and if those configurations are pushed up to the producer, they may end up in conflict with each other. By restricting the wire protocol to a single unit, producers only need to care about conversions from their internal format to the wire format, and consumers only need to care about conversions from the wire format to their presentation format.
  - I like the ZigBee representation of temperature that Inhwan provided in his table. I also like that the units are 1/100 of a °C. As for why I don't think we should allow °F and °C for the unit in interfaces, I'd like to avoid crashing more probes on Mars resulting from mixing units.

Thank you

Follow us on

For more information on AllSeen Alliance, visit us at:
allseenalliance.org & allseenalliance.org/news/blogs