ALLSEEN ALLIANCE

Core Working Group

February 26, 2015

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Agenda

1. 15.04 and security 2.0 discussion
2. Transport mask discussion
3. Clean up samples discussion
4. Crypto code for alljoyn.git
5. Deprication process
6. Review action items

15.04 and security 2.0 discussion

- TSC has approved
  - Moving 15.10 to 15.08
  - Releasing Security 2.0 in 15.08

- Cadence will be 15.04 – 15.08 – 16.04

- 15.04 Feature list
  - https://jira.allseenalliance.org/i#issues/?filter=10810

- 15.08 Feature list
  - https://jira.allseenalliance.org/i#issues/?filter=11008

TransportMask-Related Changes (1/2)

- Many TransportMask bits are obsolete
  - We should deprecate currently unused bits
    - Doing this cchedules the bits for removal in a future release

- All deprecated and unused bits become reserved

- TRANSPORT_ANY becomes affirmatively set
  - Transport mask bits default to ZERO instead of ONE.
  - Initially TRANSPORT_ANY = TRANSPORT_LOCAL | TRANSPORT_TCP | TRANSPORT_UDP

TransportMask-Related Changes (2/2)

- Define an experimental transport bit
  - TRANSPORT_EXPERIMENTAL
  - Never to be included in TRANSPORT_ANY
  - Therefore never used in normal system operation
  - Use must be by explicit addition: TRANSPORT_ANY | TRANSPORT_EXPERIMENTAL
  - Experimental transports use an alias to this bit in their experimental stage
    - const TransportMask TRANSPORT_YADDA = TRANSPORT_EXPERIMENTAL
  - System functions never use this bit
- Should we release these changes in a hypothetical 14.12b release to minimize chances of interoperability issues?
- Decision:
  - Email sent to working group to add fix to 14.12b
    - Potentially include additional fixes – each should be reviewed separately

Clean up samples discussion

- https://jira.allseenalliance.org/browse/ASACORE-1528

- Includes
  - Using about based discovery rather than well know names cleaning up gracefully
  - Use of the transport masks

- Greg likes to point to the standard AJ "console" app in AllJoyn-JS as an example of using the current APIs:
  - https://git.allseenalliance.org/cgit/core/alljoyn-js.git/tree/console

Crypto code for alljoyn.git

- Removing the OpenSSL dependency requires alternate SHA1 and SHA256 HMAC implementations

- SHA256: Propose to use the BSD-licensed SHA256 code from ajtcl.git
  – Originally from http://www.aarongifford.com/computers/sha.html
  – About 1300 lines

- SHA1: Propose to bring in third-party BSD/public-domain code
  – Also from http://www.aarongifford.com/computers/sha.html
  – About 500 lines

- Code will be added to the external/ directory in alljoyn.git

- The footprint of this code is small. Removing the complexity of OpenSSL is a big win.

- OpenSSL and CNG crypto options will still be available.

Deprecation Process

- Process is included here: https://wiki.allseenalliance.org/core/overview/wg_process

- Any change in API requires the working group and TSC approval

- All deprecated APIs are support for 2 releases, removed after 4 releases
  - Runtime and/or compile time warning generated if API is used

- Example:
  - API deprecated in 15.04
  - Tested in 15.04 & 15.10
  - Not tested after 15.10
  - API remains untested in 16.04 & 16.10
  - Removed in 17.04

Action Items (1/2)

- Gavin to verify that all Microsoft features for 15.04 are listed in JIRA

- Gavin to see if someone from Microsoft can assist with notes from core WG meetings

- David & Arvind to set up discussions to craft proposal to define JIRA severity vs. priority process
  - David to send detailed proposal for JIRA ticket rankings

- David & Chris to verify Windows 32 bit SDK is a must in addition to 64 bit
  - Both need to be tested equally

- David and Arvind will make a proposal for E2E testing
  - In process

Action Items (2/2)

- Chris to add process to the Wiki process draft for frequency of merging feature branches and processes for advertising proposed changes to protocol, API syntax, behavior
  - Updated: https://wiki.allseenalliance.org/core/overview/wg_process

- Chris to set up separate meeting to review Core WG process
  - Pending

- Action: Marcello to present proposal for 3rd party code contribution to the TSC for Feb 09
  - In process of review with Linux Foundation

- David to take point on crafting proposal hosting the end-to-end test system
  - including potential cost impact

- David to sync with Greg regarding broader test strategy
  - Need to add this to the F2F TSC meeting in March

Thank You

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Notes from 14.12 Post Mortem

14.12 Post Mortem Improvement Items (1/3)

- Aligning date & the end game (lockdown) schedule of AllJoyn releases with release schedule of the contributing member companies if it happens to be in close proximity of AllJoyn release
  - **Action**: Arvind to send proposal to Core WG mail list

- Consistent and enforced definition/bar for code freeze
  - Need crisp definitions for "incremental bug bars" (normal, tell, ask)
  - Need approval granularity (approval on merge)
  - Need process for how to deal with large last-minute changes
    - Suggestion – only high priority issues "ask" are added one week before release
  - **Action**:
    - Marcello to send current milestone definition to Core WG mail list
    - Gavin to send proposal to Core WG mail list based on Marcello's email

- Need processes for breaking changes
  - Regarding protocol, API syntax, behavior
  - Mitigation: Proposed changes should be advertised
  - **Action**: Chris to add the process to this to the existing process draft

14.12 Post Mortem Improvement Items (2/3)

- Need agenda and slides 48 hours ahead of core WG meetings
  - Best effort to send slides by COB Friday

- Need notes from core WG meetings sent more consistently
  - Note: Linux foundation unable to assist
  - **Action**: Gavin to see if someone from Microsoft can assist

- For TSC: PR coordination for releases
  - More an issue for marketing committee
  - **Action**: Chris to discuss this with Philip

- Engage system test during feature testing
  - More members conducting system test is preferred

- Testing needs to be better distributed across members

- E2E testing is needed
  - **Action**: David and Arvind will make a proposal

- More frequently merge feature branches so that deltas can be kept to a reasonable minimum
  - **Action**: Chris to add process to the Wiki process draft

14.12 Post Mortem Improvement Items (3/3)

- May need more frequent but shorter Core WG meetings
  - WG meeting immediately following triage meeting for 30 minutes
  - **Action**: Chris to change Core WG status meetings to 30 minutes after the Thursday triage

- Increase frequency of triage meetings earlier in the process
  - **Action**: Chris to set up biweekly triage 2 weeks prior to branch date
    - For 15.04 it will begin week of March 9

- Define JIRA severity vs. priority process
  - **Action**: David & Arvind to set up discussions to craft proposal

- To be discussed at next meeting
  - JIRA label to identify contributing organization taking ownership of the item
  - Need process for managing the platform matrix
  - Revisit code style guidelines, rules, and enforcement