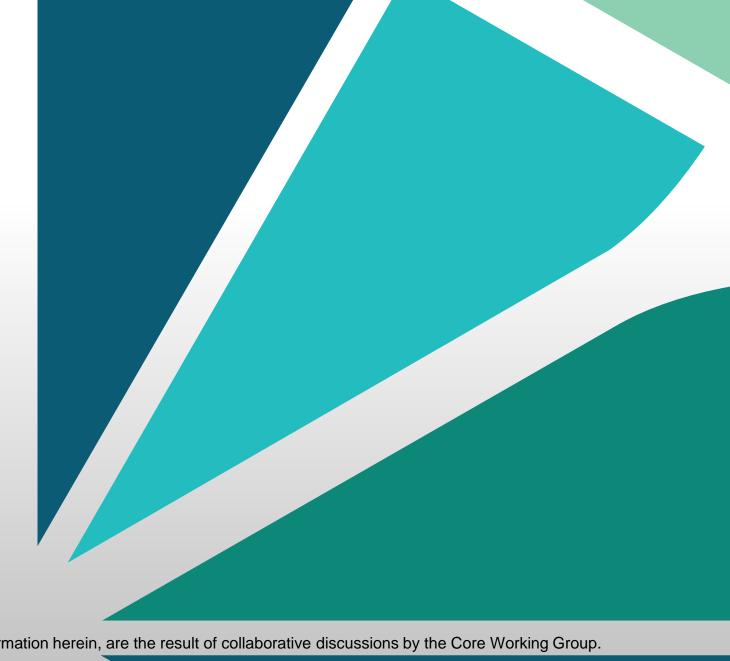


Core Working Group

July 30, 2015



The contents of this document, and the interfaces described, and all the information herein, are the result of collaborative discussions by the Core Working Group. This summary documents the final consensus of the team.



Reminder:

This call is being recorded

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Agenda

- 1. 15.09
 - Features
 - Schedule
 - Platforms
- 2. qcc::String deprecation
- 3. AES Crypto bug: 15.04b discussion
- 4. Add Windows 10 to build
- 5. F2F Agenda
- 6. Review Action Items
- 7. Post Mortem action items





Features

- Major features (Committed for the release)
 - AJCORE-1393 Security 2.0 (MSFT, QEO, QCE)
 - AJCORE-1686 Commercialize UDP Transport for TC <-> RN connections (QCE)
- Full list of features
 - https://jira.allseenalliance.org/issues/?filter=11008

Schedule

- Aug 05 Merge Sec 2.0 branch
- Release branch date pending
 - Action: Arvind (MSFT) no 16.04 work being done by MSFT at this time
 - Starting Aug 5, no commits are made to master unless it is associated with a JIRA ticket targeted for 15.09
 - Goal: Only Critical or Blocking only once regression testing begins
- Sept 04 regression testing complete
 - After this date only blocking tickets and critical tickets agreed by the Core WG accepted
- September 30 Release
 - SW is officially released
- Other milestones
 - Ticket deferral
 - All contributors are encouraged to review their team's major and below tickets
 - On Aug 10 triage we will start to punt all non critical and non blocking tickets
 - Note: Will not have Triage on Aug 03

15.09 Platforms – Release Testing 1/2

- QCE testing commitment for 15.09
 - AllJoyn Standard Library:
 - Full regression test
 - Linux Ubuntu 14.04 LTS (64 bit)
 - Android Lollipop 5.0 (ARM)
 - OpenWRT Barrier Breaker (BB) branch
 - Smoke test
 - Android JellyBean 4.1 (ARM)
 - Android KitKat 4.4 (ARM)
 - OpenWRT Chaos Calmer (CC) branch
 - AllJoyn Thin Library:
 - Full regression test
 - Linux Ubuntu 14.04 LTS (64 bit)

15.09 Platforms – Release Testing 2/2

- Call for contributors to provide release testing
 - AllJoyn Standard Library:
 - Full regression test
 - Smoke test
 - AllJoyn Thin Library:
 - Full regression test
- MSFT will validate only on Windows 10

15.08 SDKs

SDK	Toolchain Used
alljoyn-15.04.00-src.tar.gz	N/a - source
ajtcl-15.04.00-src.tar.gz	N/a - source
Core SDK - release (android)	Android NDK r10e (note r10e is a change – no objection from Core WG), Oracle Java 7
Core SDK - debug (android)	Android NDK r10e, Oracle Java 7
Windows SDK (64-bit) (VS2012)	Visual Studio 2012, Oracle Java 7 (assumes contributor performs regression testing)
Windows SDK (32-bit) (VS2012)	Visual Studio 2012, Oracle Java 7 (assumes contributor performs regression testing)
Windows SDK (64-bit) (VS2013)	Visual Studio 2013, Oracle Java 7 (assumes contributor performs regression testing)
Windows SDK (32-bit) (VS2013)	Visual Studio 2013, Oracle Java 7 (assumes contributor performs regression testing)
Windows Thin Core SDK (zip file with source and stand alone router executable)	Visual Studio 2013 (assumes contributor verifies this works)

Not included: Core SDK (osx/ios)	Unless a contributor is able to perform the platform tests then these binaries will not be distributed. Note: We will keep building it and include the OSX and iOS builds in the verification paths
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qcc::String deprecation

- For 16.04:
 - Deprecate qcc::String::secure_clear() Remove the internal usage of this function and develop a suitable alternative that external users can switch to.
 - Modify qcc::String to be a wrapper around std::string
 - This would include introducing functionality to support mixing qcc::String and std::string. Hopefully a type conversion operator to convert qcc::String to std::string will solve most of the mixing problems.
 - The deprecated version of qcc::String::secure_clear() will need to use const_cast<> to cast away const from the point obtained from std::string::data() so that it can wipe the memory before calling string::clear(). Hopefully, compilers won't warn about casting const away.
 - Document that std::string can be trivially converted to qcc::String and vice versa without an underlying strcpy().
- For 18.04 (4 releases after 16.04):
 - Remove qcc::String::secure_clear()
 - Change qcc::String to just be a typedef of std::string
 - Change APIs that use qcc::String to take std::string instead
- Core WG approves
- Next steps
 - Present to the TSC

Request for 15.04b release

AES Crypto bug: 15.04b discussion

- https://jira.allseenalliance.org/browse/ASACORE-2247
- Crypto issue affecting Android SDK
 - Issue affects Android 15.04 applications using encryption with messages bigger than 8k
 - AllJoyn TC would also be affected with >8k messages
 - However, the default buffer sizes only support 1.5k.
- Request to make 15.04b release
 - Core WG agrees make 15.04b for SC. Defer fix for TC for 15.09
 - Will verify bug fix
 - Will update unit test
 - Run automated unit tests and testbot tests
 - This does some interop testing

Add Windows 10 to build

Add Windows 10 to build

- Request to add Windows 10 to build
- MSFT asks what is needed to make this happen
- Need a Windows 10 VM
 - Action Mathew (QCE) to check with Ry (LF)
- Need to consider overall policy and process for adding/updating new platforms
 - Action Mathew (QCE) to look into crafting policy
- Note: 4 million copies of Alljoyn were shipped with Windows 10 as of 7/29/15



F2F Agenda

- 1 hour time slot
- Call for agenda items



Action Items

Action Items

- Proposal to outline the process for changing APIs
 - Gavin (MSFT) will craft proposal for review by Core WG and then presented to TSC
 - Gavin (MSFT) will discuss MSFT regression testing for 15.09
- Dan (MSFT) to submit proposal to Core WG mail list about possible deprecation of ajn::BusAttachment::Connect(connectspec) overload
 - Dan (MSFT) will start investigation in July
 - Dan (MSFT) to create JIRA ticket after investigation
- Arvind (MSFT) to create Wiki process page linked off of Core WG wiki
 - Remove references to java from mandatory binding list
- Action: Chris (QCE) to add samples discussion meeting for next week

Post Mortem Action Items

Post Mortem Action Items (1/2)

- C Bindings
 - Need clear ownership and responsibilities documented
 - Need better alignment on binding strategy all-up (AllSeen)
- Need to have Alliance running Windows 10 when RTM'd
- SCONS needs to support VS 2015
- Add ASADOCS for Core to the triage
- Check readme files as part of the release procedure
 - Core WG needs to decide who will own the specific readme files
- Set a project milestone to begin integration branch merges

22

Post Mortem Action Items (2/2)

- Add a way in JIRA to track compatibility issues and proposals
- Need to collaborate on stress/system testing
 - Add a track on system testing at F2F in October
- More robust automated testing
 - Investigation of occasional failures
 - Better feature/code coverage
 - Integration test scenario's covering multiple features on multiple platforms
- Process for handling "Technical Debt"
- Track feature branches and add more spacing between feature branch merges
- Need more eyeballs on security for implementation and test
- Add process to require regression/unit tests for bugs

Discussion

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Thank You

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Backup: Supported bindings

- Existing bindings in Core
 - C++
 - Obj-C
 - Java
 - C
 - Javascript NPAPI

Language bindings discussion 5/7/15

- Need a formal policy to support language bindings
 - Came up at last TSC F2F
- SCL binding proposal
 - Required
 - C++ and C
 - Optional
 - Java, NPAPI, ObjC?
- TCL binding proposal
 - No proposal
 - Should we consider JavaScript?
- Need separate policy for platforms
 - May need to consider binding platform and language binding
- Next steps
 - Action: Marcello (QCE) to send proposal to the mail list

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