



**ALLSEEN
ALLIANCE**

Core Working Group

August 06, 2015

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Agenda

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



15.09

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=11411>

Key	Summary	Assignee	Labels	Severity
ASACORE-1686	Commercialize UDP Transport for TC <-> RN connections	Craig Dowell	QCE	Blocking
ASACORE-1393	Security 2.0	Chris Kavas	MSFT, QCE, Qeo	Blocking
ASACORE-2055	Design and implement new password-based authentication mechanism	Greg Zaverucha	MSFT	Critical
ASACORE-1060	Add non-variadic functions to marshal/unmarshal multiple message args	Ivan Judson	MSFT	Major
ASACORE-1438	Better (About-based) discovery for secure bus objects	Dominique Chanet	Qeo	Major
ASACORE-2126	Port ECDHE samples to Arduino	Tim Ruffing	MSFT	Major

Schedule

- Sec 2.0 branch merged with master
- Release branch – date pending
 - 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

15.09 Platforms – Release Testing

- 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
 - Windows 10 (MSFT will verify)
 - 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 SDKs

Included	
SDK	Toolchain Used
alljoyn-15.09.00-src.tar.gz	N/a - source
ajtc1-15.09.00-src.tar.gz	N/a - source
Core SDK - release (android)	Android NDK r10e, Oracle Java 7
Core SDK - debug (android)	Android NDK r10e, Oracle Java 7

Not Included	
SDK	Toolchain Used
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
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)



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.
- Status
 - Changes are complete. The release candidate has been tagged, built, tested, and formally signed off



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)
 - Ry is acquiring license keys and working directly with Microsoft to find out build requirements.
- Need to consider overall policy and process for adding/updating new platforms
 - Action Mathew (QCE) to look into crafting policy
 - No update on platform support policy
- Action: Chris (QCE) to move this to the action item list



F2F Agenda

F2F Agenda

- 1 hour time slot
- Proposed agenda items
 - Need to collaborate on stress/system testing
 - From 15.04 post mortem action list



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
- 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



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)
 - Gavin (MSFT) will follow up with Arvind
- Ry (LF): Need to have Alliance running Windows 10 when RTM'd
- Ry (LF) to verify: SCONS 2.3.6 needs to support VS 2015
- Done: Add ASADOCS for Core to the triage
 - Chris/Marcello (QCE): Migrate existing tickets from ASADOCS to ASACORE
- 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

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
 - Investigations are now filed as JIRA and processed
 - Better feature/code coverage
 - Builder tool reports code coverage for unit tests (excludes testbot)
 - May need to discuss further
 - 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

- ...



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