



**ALLSEEN
ALLIANCE**

Core Working Group

July 09, 2015

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Agenda

1. 15.08
 - Features
 - Schedule
 - Platforms
2. Proposal for Language Binding Policy for AllJoyn SCL
3. Deprecation of dynamic runtime translation
4. Add support for Visual Studio 2015 and Windows 10 build
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=11008>

Schedule

- July 24 Cut release branch
 - Merge branches
 - Sec 2.0 feature branch merged
 - Thin client reorg branch
 - Any additional branches?
 - All feature testing completed
 - Only regression testing & bug fixing remains
- August 28 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
 - Will firm on a date at next weeks call
 - Twice weekly triage July 20
 - 10am PT Monday and regular Thurs
 - Action: Chris to set up additional triage meeting

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
- Action: Close on platforms and [SDKs](#) for 15.09
 - Gavin (MSFT) will discuss at the next Core WG call regarding MSFT testing
 - Will discuss further at next week's Core WG call



Proposal for Language Binding Policy for AllJoyn SCL

Arvind Padole
Microsoft

Guiding Principle

Ensure that one or more language bindings built on top of C++ API have feature parity with native C++ API

- The assurance of feature parity with native API will provide AllJoyn developers the flexibility of choosing alternate bindings where C++ API may not be the preferred option
- The language bindings that are thus intended by the alliance to have feature parity with the core C++ API will be referred to as **Mandatory Language bindings**
- All other bindings are **Optional Language Bindings**
 - Optional bindings are fully supported by the alliance except that they may not be as feature rich as the mandatory bindings

Contributing to AllJoyn Core SCL

- New AllJoyn Core contribution (feature or bug fix) that involves updates to C++ APIs must include corresponding updates to the mandatory language bindings including unit tests and samples as applicable
 - Specifically, such contribution will be considered incomplete and release blocking until all mandatory language bindings are updated to reach feature parity with the core C++ API
- Updates to mandatory bindings may be submitted separately from core C++ API. In such cases, updates to each mandatory language binding must be tracked using separate Jira tickets
- Updates to mandatory bindings may be contributed by two or more contributors who may be different from the contributor for original C++ API updates. In such cases, updates to each mandatory language binding must be tracked using separate Jira tickets assigned to the corresponding contributors
- If C++ API updates are merged before mandatory bindings, Jira tickets for mandatory binding updates must be marked as critical (if on Master) or will result in slipping the feature implemented on a branch (branch does not get merged to Master)
- Will continue discussion at the next Core WG meeting

Classifying a language binding as mandatory

- The alliance needs to have objective criteria for determining if a language binding should be part of the mandatory binding list. The proposed criteria is as follows

The language binding is broadly applicable and supported on all supported platforms

- Language bindings that currently meet the above criteria
 - C
 - Java (**Question** – is AllJoyn SCL for Java available on all platforms?)

Adding new language binding to the mandatory binding list

- The proposed addition is first evaluated and approved by the Core WG and is then sent for TSC approval
- TSC evaluates potential impact of the addition including impact to other WGs if any and makes the final determination
 - If Core WG supports a superset of the mandatory binding list for all WGs then adding a new mandatory binding to the Core WG list may not have implications on other WGs and thus may not need TSC review and approval

Removing a language binding from the mandatory binding list

- The proposed removal is first evaluated and approved by the Core WG and is then sent for TSC approval
- TSC evaluates potential impact of the removal including impact to other WGs if any and makes the final determination



Deprecation of dynamic runtime translation

Deprecation of dynamic runtime translation

- Regarding the ability for a producer (as opposed to consumer) to do dynamic runtime translation
- Proposal: Deprecate the extra complexity and keeping the producer simple
 - i.e. simple lookup table done by the framework
- Next steps: Chris (QCE) to set up meeting with Dave (MSFT) and Todd (QCE)
- Backup:
 - Questions
 - Why do we need the ability for a producer to do dynamic runtime translation?
 - i.e., if AllJoyn doesn't natively support it (like it doesn't for AboutData now) it doesn't preclude the consumer from using an API to do it on text returned from an AllJoyn call to the producer.
 - For a producer, why isn't a simple lookup table sufficient, which is what AboutData does, and all IntrospectWithDescription samples and unit tests do as well.
 - So what would we really lose by deprecating the Translator class?
 - The Translator class isn't supported by all language bindings either, and there does not seem sufficient reason to do so.



Add support for Visual Studio 2015 and Windows 10 build

Add support for Visual Studio 2015 and Windows 10 build

- Patch to add support for Visual Studio 2015 and Windows 10 build is pending on the Alliance.
- Resolution stalled on how to address new warnings:
 - Majority of error messages concern shadowed names.
 - False positives reported, require a rename to resolve.
- Options:
 - Include fixes for all new warnings (existing patch).
 - Disable noisy shadowed name warning and address in subsequent patch.
 - Address through rename or m_ coding convention.
 - To start, make changes only where there is a naming conflict
- Core WG agreement
 - Use m_ coding convention - This would be done over time



Action Items

Action Items

- Chris (QCE) to set up meeting for discussing deprecation of dynamic runtime translation
- David (QCE) to lead team crafting testing proposals
 - Charters crafted for RFP committee and test policy committee and sent to mail list for review
- Proposal to outline the process for changing APIs
 - Gavin (MSFT) will craft proposal for review by Core WG and then presented to TSC
 - Will review document by end of June
 - Gavin (MSFT) will discuss MSFT regression testing for 15.08
- 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 provide list of samples to keep



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

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

- ...



Thank You

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15.08 SDKs

SDK	Toolchain Used
alljoyn-15.04.00-src.tar.gz	N/a - source
ajtc1-15.04.00-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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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