



**ALLSEEN  
ALLIANCE**

# **Core Working Group**

**October 03, 2014**

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**This call is being  
recorded**



# Agenda

1. AllJoyn Build and SDK improvements proposal
2. Overview of QCE process for validating Core releases
3. Continue discussion regarding Core processes
  - New feature requests
  - Test



# **AllJoyn Build and SDK Improvements Proposal**

# Summary

- AllJoyn Build and SDKs have become inconsistent and cumbersome over time.
- Proposal is to improve build and SDK.
- Some changes will go into 14.12, others afterwards
- Seeking feedback and contributors to help implement
- Hope is this becomes defacto for all AllSeen WGs

# Proposal Summary

1. One source tarball per WG
2. One SDK per platform per WG
3. Consistent tarball and SDK names
4. Release “release” SDKs only
5. Single build products directory
6. Build from any directory
7. Make it easy to run build products
8. Restructure dist/sdk directory
9. Revisit iOS packages/libs

# 1. One source tarball per WG

- Problem: we currently don't release source tarballs for all source.
- 1 per WG keeps projects cleanly separated, allows WG to rev independently



## 2. One SDK per platform per WG

- One SDK per “platform” per source tarball
- “Platforms” are:
  - Android SDK
  - Android NDK
  - Mac OSX
  - iOS
  - Windows (merge 32 bit and 64 bit into one SDK)

### 3. Consistent tarball and SDK names

- alljoyn-<component>-<ver>-<type>-<platform>.<ext>
- Examples:
  - alljoyn-core-14.12-src.tar.gz
  - alljoyn-core-14.12-sdk-ios.zip
  - alljoyn-base-services-14.12-src.tar.gz
  - alljoyn-lighting-14.12-src.tar.gz
  - alljoyn-lighting-14.12-ndk-android.zip
- Source Tarball format: .tar.gz
  - More flexible if we need symlinks
- SDKs format: .zip
  - Better supported natively on all platforms

## 4. Release “release” SDKs only

- Proposal:
  - Only release “release” variant of SDK
  - Update “release” variant with debug logging.
    - Disable logging by default
    - Can turn logging on at run time
- Why
  - debug logging with run-time control is most important to most developers.
  - most developers don’t need debug symbols
  - those who need debug symbols are contributors, who would likely be building from source anyhow
  - single SDK variant easier to manage
  - debug strings adds only small amount of code to library.
  - those needing the smallest lib can rebuilt without debug logging
- Some concerns over performance; analysis underway

## 5. Single build products directory

- single build products directory regardless of where build is executed from
- Will be located from top level, e.g.
  - alljoyn/
    - core/
    - services/
    - **build/**

## 6. Build from any directory

- same build/out dir regardless of where build started
- implementation may be related to larger scons cleanup

# 7. Make it easy to run build products

- Easy means:
  - no explicit typing `LD_LIBRARY_PATH`
  - no need to `cd` into bin dir or explicitly add path
- Potential implementations
  - wrapper scripts
  - scons install to install into system/specified dirs
  - perhaps automatically add path to dist libs and bin to shell env

## 8. Restructure dist/sdk directory

- Needs reorg now that more code has been added
- Optimize structure for common case

# 8. Restructure dist/sdk directory - Linux

Notes: applications will #include just core.h, config.h, etc; headers placed in core/ and config/ subdirs for c headers (as opposed to c++), #include c variant instead.

```
dist/
  bin/
    alljoyn-daemon
  include/
    alljoyn/
      core.h
      core_c.h
      config.h
      config_c.h
      core/
        <additional core headers>
      core_c/
        <c binding header files>
      config/
        <additional config headers>
      config_c/
        <config header files>
  lib/
    liballjoyn.a
    liballjoyn.so
    liballjoyn_c.so
    liballjoyn_c.a
    libajrouter.a

    alljoyn/
      BundledDaemon.o
      liballjoyn_about.a
      liballjoyn_about.so
      liballjoyn_config.a
      liballjoyn_config.so
      <etc...>
  mozilla/
    libnpalljoyn.so
  java/
    liballjoyn_java.so
    alljoyn.jar
    about.jar
    config.jar
  docs/
    index.html
    cpp/
      index.html
      core/
        index.html (core cpp docs)
      config/
        index.html (config cpp docs)
    c/

    index.html
    core/
      index.html
    config/
      index.html
  java/
    samples/
      cpp/
        core/
          basic/
            <buildable cpp source>
          chat/
            config/
              <buildable cpp source>
        c/
          java/
            core/
              basic/
                <buildable java source>
            config/
```



# 8. Restructure dist/sdk directory - Android

Two SDK zips: SDK and NDK

```
dist/  
  sdk/  
    apk/  
      <pre-built sample apks>  
    libs/  
      armeabi/  
        liballjoyn_java.so  
      alljoyn.jar  
      alljoyn_about.jar  
      alljoyn_config.jar  
      <etc>  
    docs/  
      index.html # links to all java docs  
      core/  
        index.html # java docs  
      config/  
        index.html # java docs  
    samples/  
      core/  
        basic/  
          <buildable android source>  
          <has libs/jars in here>  
        chat/  
        config/  
      ndk/  
        apk  
          <pre-built sample apks>  
        lib  
          liballjoyn.so  
          alljoyn_about.so  
          ...  
        include/  
          alljoyn/  
            <mirror linux include dir>  
        docs/  
          index.html # links to all cpp docs  
          core/  
            index.html (core cpp docs)  
          config/  
            index.html (config cpp docs)  
          <etc...>  
        samples/  
          core/  
            basic/  
              jni/ (cpp)  
              src/ (java)  
            chat/
```

# 8. Restructure dist/sdk directory – iOS and OSX

Separate iOS and OSX SDKs

```
dist/  
  ios/  
    docs/  
      cpp/  
        core/  
        config/  
      objc/  
        core/  
        config/  
    samples/  
      cpp/  
      objc/  
    cpp/  
      inc/  
        <match linux headers dir>  
      lib/  
        <match linux lib dir>  
    objc/  
      inc/  
        <TBD>  
      lib/  
        <tbd>
```

```
osx/  
  docs/  
    cpp/  
      core/  
      config/  
    objc/  
      core/  
      config/  
  samples/  
    cpp/  
    objc/  
  cpp/  
    inc/  
      <match linux headers dir>  
    lib/  
      <match linux lib dir>  
  objc/  
    inc/  
      <TBD>  
    lib/  
      <tbd>
```

## 9. Revisit iOS packages/libs

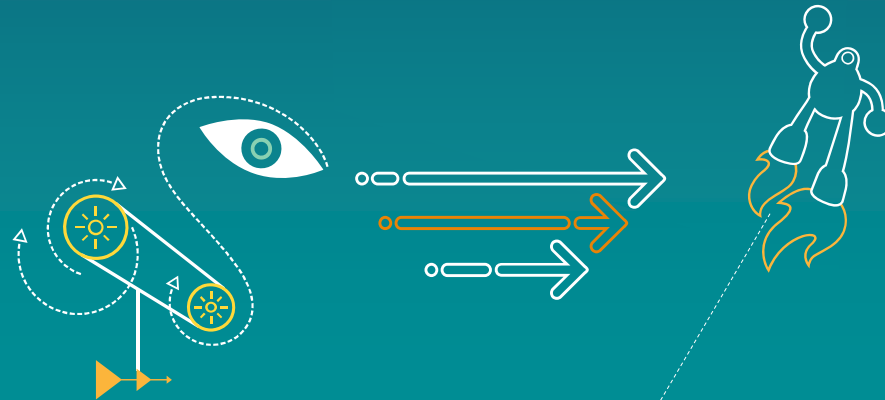
- Currently, adding AllJoyn to iOS requires 20 some steps.
- Need to investigate simpler solutions to add AllJoyn in 1 minute.

# Other suggestions?

# Link to QA and test overview slide deck

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Engineer, Sr. Staff/Manager  
Qualcomm Connected Experiences, Inc.

## AllJoyn™ QA and Test Overview





**Continue discussion  
regarding Core  
processes**

# Core Process Discussion

- Triage meetings
  - Held on Wednesdays at 3pm PT
  - Considering using JIRA Voting mechanism
    - Marcello/Chris to look into how to use this feature and send email to Core WG list
- Release content discussion
  - Propose leveraging JIRA tickets
    - Consider creating a “new feature request” and proposed features are tracked through JIRA
      - Consider updating required fields for this request to include documentation and testing requirements
    - Consider a Wiki page for releases that point to the JIRA tickets
    - Leveraging JIRA tickets for new features will be voted on the next Core call
  - Documentation
    - Members agreed to discuss with their teams and will update
    - This includes
      - Identifying the relevant documents affected
      - Making appropriate updates within the time required to meet the desired release

# Core Process Discussion

- Test
  - Members agreed to discuss with their teams and will update
  - Testing includes
    - Feature
    - C&C
    - Regression
- Test coordination
  - Members agreed to discuss with their teams and will update
    - Open question: What does test coordination mean to each of the members?
  - Effort to publish current test cases and test plans for Core releases underway
  - Still requires discussion:
    - Scaling test across contributors





# Thank You

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