ALLSEEN ALLIANCE

C&C Working Group Meeting

7 May 2014

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Guidelines

- *This is a reminder that all AllSeen Alliance activities are subject to strict compliance with the AllSeen Alliance By-laws. Each individual participant and attendee at this meeting is responsible for knowing the contents of the AllSeen Alliance By-laws, and for complying with the AllSeen Alliance By-laws. Copies of the AllSeen Alliance By-laws are available at:*
- *https://allseenalliance.org/allseen/bylaws*

Goals for Today's Discussion

1. Review & Vote on 5 Test Case Specs:
   https://wiki.allseenalliance.org/compliance/overview#test_case_specifications
2. Review Release Timeline Example
3. Review Certification Timeline Example
4. Review Self Validation Test Set Up
5. Homework for next meeting

About Feature Test Case Spec

- These test cases evaluate and verify the functionality related to the AllJoyn™ About feature exposed by a device through the About 1.0 interface.

- The About interface is required by an application to provide the discovery mechanism for the service framework interfaces that it supports, as well as providing the basic identification information.

- VOTE to approve “About Feature Test Case Spec” as part of Certification

Control Panel Service Test Case Spec

- These test cases evaluate and verify the functionality related to the AllJoyn Control Panel service framework 1.0's collection of interfaces.
- These interfaces provide the Control Panel service framework a mechanism to allow for a controller application to render the UI based on the controllee application's widget metadata.
- **Control Panel:** Infrastructure for exposing user interfaces for devices remotely
  - After receiving a notification that the oven has been on Broil for 5 minutes a user could bring up the oven's control panel and change the setting to "bake at 250" to keep the food warm
  - A user could check the current values of a refrigerator (including current temperature) and modify the settings to make things hotter or colder as needed.
- VOTE to approve changes

Serial No.	Section #	Comments	Impact	Type
1	3.2	Suggest to test the signal because of metadata changed	Medium	Missing
2	3.3	Suggest to test the signal because of metadata changed, or because of property's value changed	Medium	Missing
3	3.4	Suggest to test the signal because of metadata changed	Medium	Missing
4	3.5	Suggest to test the signal because of metadata changed, and test the Exec method	High	Missing
5	3.6	Suggest to test the signal because of metadata changed	Medium	Missing
6	3.7	Suggest to test the signal because of metadata changed, and test the "Add", "Delete", "View", "Update", "Confirm" and "Cancel" methods should	High	Missing
7	3.8	Suggest to test the signal dismiss	High	Missing

Notification Service Test Case Spec

- These test cases evaluate and verify the functionality related to the AllJoyn Notification service framework when used by an application to do one or both of the following using the Notification interface:
  - Receive (or consume) notifications from other applications
  - Send (or produce) notifications to other applications
- The Notification interface is used by an AllJoyn application to send events or state update notifications to other devices connected to an end user's home network, such as a Wi-Fi network.
- **Notifications**: Simple, standardized interface for sending and receiving human-readable messages. “The text message for the Internet of Everything”
  - Refrigerator could send a notification that freezer door has been left open for more than 5 minutes
  - This could be rendered on any consumer: mobile device, TV, set top box, etc…
  - Washing machine can send a notification when wash cycle is complete
- VOTE to approve changes

Serial No.	Section #	Comments	Impact	Type
1	Dismiss interface test case	Suggest to add the test case of dismiss interface to see the signal dismiss has the true function of dismissing a notification. Perhaps better to use one test device and two DUTs in this dismiss interface test.	High	Missing
2	Attributes field test case	Suggests to add the test case of attribute field to ensure the integrity of the field	High	Missing
3	3.1	Step 5 of the procedure, why the test device promot the tester to "select" the notification text on the DUT? The test device can just promot the tester to "respond", is it OK?	Low	Question
4	3.1	Step 6 of the procedure, the test device leaves the session. When was the referred session established?	Low	Question
5	3.3	In expected results, the notification message can still be correctly displayed on the DUT with invalid language field? I think an error message should be displayed.	Medium	Question
6	3.5	The bullet 4 of the procedure, the "List<attribute>" should be List<customAttributes>?	Medium	Incorrect
7	4.1	Suggest to add the richObjectPath,richAudioObjectPath and the originalSender in the expected results, to ensure completeness of the attributes field	Medium	Missing
8	4.1	Step 2, Notification is sessionless signal, don't understand why test device join a session with DUT application?	Low	Question
9	4.1	Last sentence of expected results, "message bug" should be "message body"?	Low	Wording
10	TTL test case	Suggest to add a comparative test case that the test device will not receive the notification when it joins the AP beyond the TTL	High	Suggestion

Onboarding Service Test Case Spec

- These test cases evaluate and verify the functionality related to the Onboarding service framework exposed by a device through the Onboarding 1.0 interface.
- The Onboarding interface allows an onboader to send the Wi-Fi credentials to the onboardee to allow it to join the personal access point.
- **Onboarding**: Provides a standard way to get devices onto a Wi-Fi Network (Wi-Fi is needed)
- VOTE to approve changes

Serial No.	Section #	Comments	Impact	Type
1	3.2	What is meant by "the channel switching feature" in step 10? What happens if the DUT does not support this feature and the DUT successfully join the WiFi AP after executing the Connect() method on the DUT's Onboarding bus object? The test case exits (i.e. DUT just joins the WiFi AP and exits the softAP mode without any connection state feedback to the test device)?	Low	Question
2	3.8	In expected results, Age of the scan information in minutes is missing for the first sub-item of the last bullet. When the test device calls the GetScanInfo() method on the DUT's Onboarding bus object, both scanList and scan information age are returned.	Medium	Missing
3	3.8	In the expected results, Authtype is missing for the second sub-item of the last bullet. Both SSID and authType are included in the scanList.	Medium	Missing

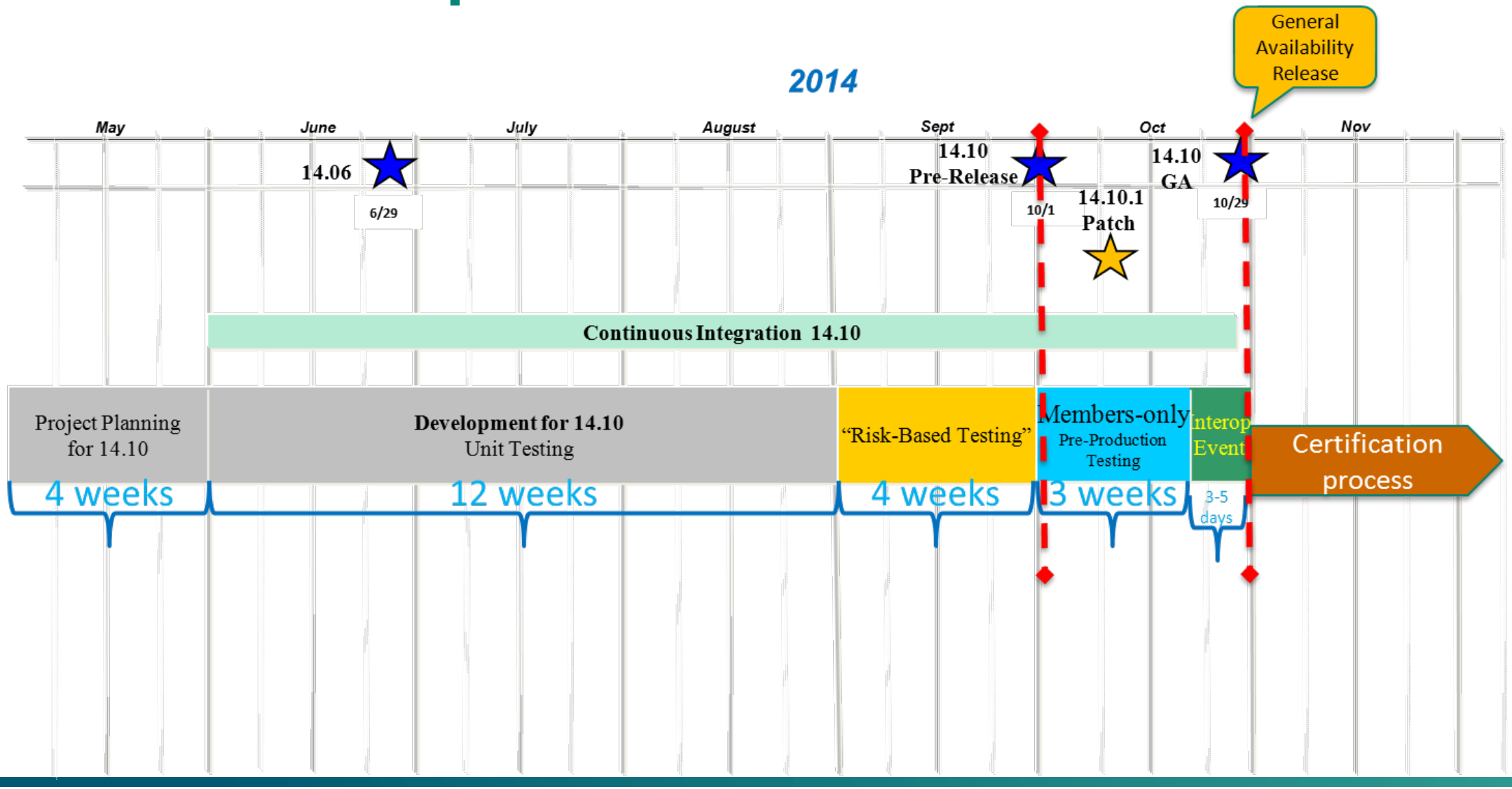
Configuration Test Case Spec

- These test cases evaluate and verify the functionality related to the AllJoyn™ Configuration service framework exposed by a device through the Config 1.0 interface.
- The Config interface is a secure interface that provides the functionality to perform device-specific configuration and actions. It is expected that an OEM's developed application for the device (referred to as the System App) will bundle this service framework.
- **Configuration**: Enables ability to set configurable persistent values
  - By default allows for a “Friendly Name” to be set. This name provides an end user the ability to specify a string that they can associate with the product, i.e. “Living Room TV”, “Patio Speaker”, "Garage Refrigerator" etc.
- VOTE to approve changes

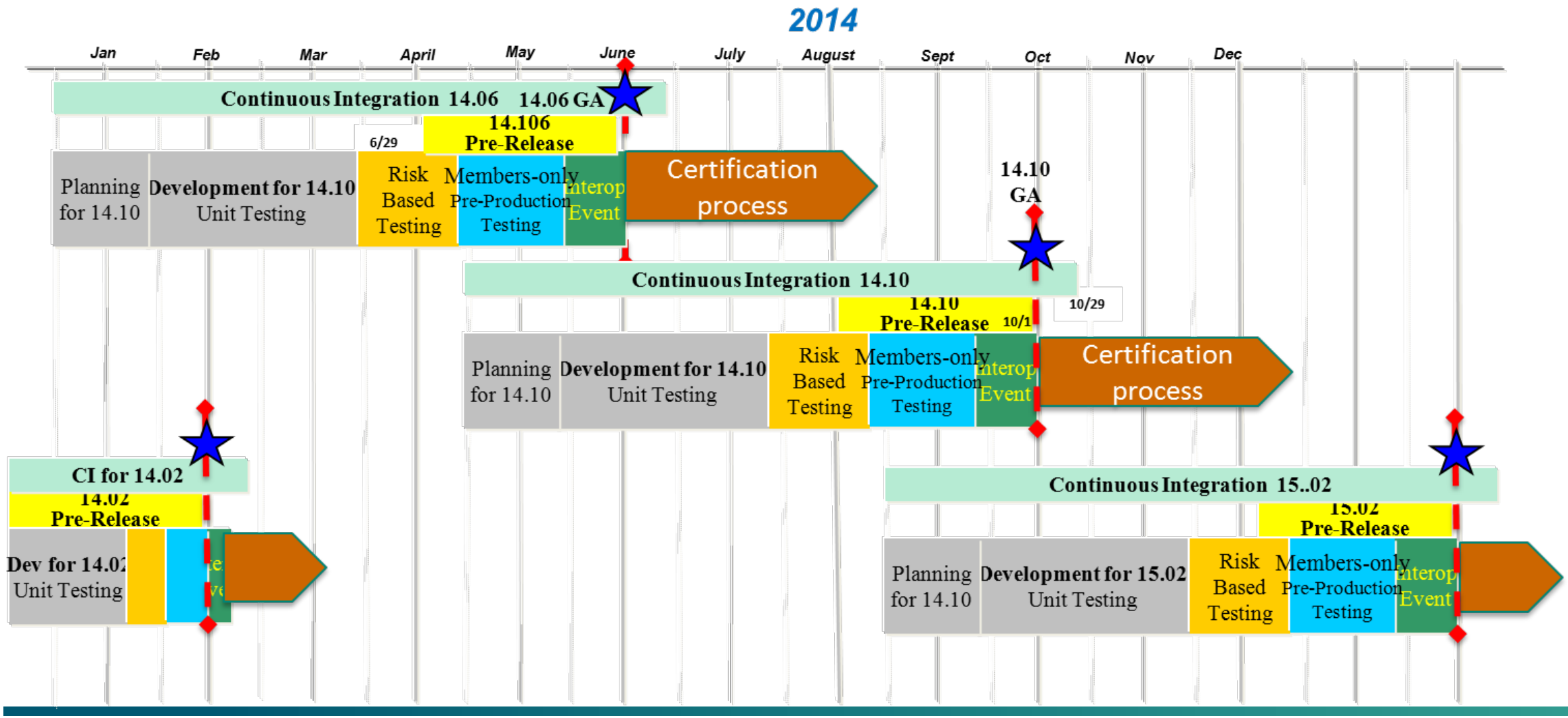
Serial No.	Section #	Comments	Impact	Type
1	3.1 Config-V1-01	Since this requirement (AppId of the DUT's System App matches the DUT's DeviceId) is not necessary in the interface specification, suggest to delete this test case	Low	Suggestion
2	Test case of UpdateConfigurations() method with the unspecified language	Suggest to add a test case about UpdateConfigurations() method with the unspecified language	High	Missing
3	Test case of ResetConfiguration() method with the unspecified language	Suggest to add a test case about ResetConfiguration() method with the unspecified language	High	Missing

Release & Certification Timeline Examples

Timeline example for 1 AllSeen release

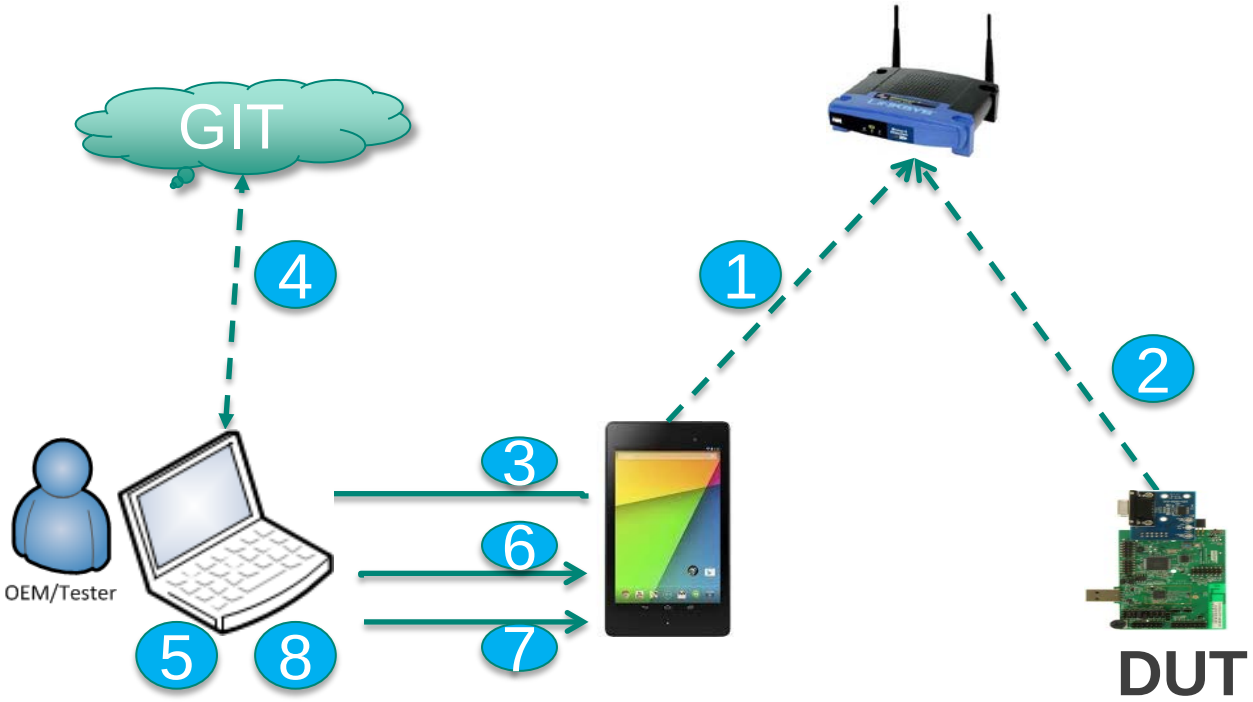


A full year of releases and certification cycle



Setup and Run Test Cases

Example: Self Validation Test Setup and Executing Test Cases



PC Software	Minimum version requirement
Java SE Development Kit (JDK)	1.6
Android SDK	API/Platform 16
Apache Maven	3.1.1
Git (required to download code from the validation repository)	N/A

1. Configure a Nexus Tablet (Android test device) to connect to Personal Access Point. Nexus 7 Tablet is the device on which the tests are executed
2. Onboard the Device Under Test (DUT) to Personal Access Point. DUT is the device against which tests will be executed
3. Connect the Nexus 7 Tablet to a PC/Laptop (Win 7) via USB cable
4. Download the test code from GIT repository on to PC/Laptop
5. Compile the test code and build test app on the PC/laptop
6. Deploy the test app to the Nexus 7 Tablet
7. Execute command on the PC/Laptop to start the execution of tests on Nexus 7 Tablet against the Device Under Test
8. View and analyze the test results produced on the PC/Laptop

Homework for next meeting

- Using the example on previous slide, setup and execute Self Validation Test Cases:
  - Acquire/configure an Android device (preferably Nexus 7)
  - Setup the Test Environment as per Validation Test User Guide
  - Compile the test cases as per Validation Test User Guide
  - Execute the test cases as per Validation Test User Guide
  - Provide feedback on process

- **Validation Test User Guide**
  https://wiki.allseenalliance.org/_media/compliance/alljoyn_validation_test_user_guide.pdf
- **Test Code**
  https://git.allseenalliance.org/cgit/compliance/tests.git/

C&C Working Group Information

- To access the wiki page please go to https://wiki.allseenalliance.org/compliance/overview
- To contact the Certification and Compliance Work Group, send an email to the allseen-cc@lists.allseenalliance.org
- To join the Certification and Compliance Work Group Mailing List, please self-subscribe at https://lists.allseenalliance.org/mailman/listinfo/allseen-cc.
- C&C WG meetings every week
  - The meeting will be held on:
  - Wednesdays 20:00PM - 21:00PM Eastern Time
  - Wednesdays 17:00PM - 18:00PM Pacific Time
  - Thursdays 9:00AM - 10:00 AM Korea/Japan
  - Thursdays 1:00AM - 2:00 AM France

Thank you

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