

Certification Test Tool (CTT)

Amedment 4 D4.8.1: Training Material

AT4 wireless 15 May 2015



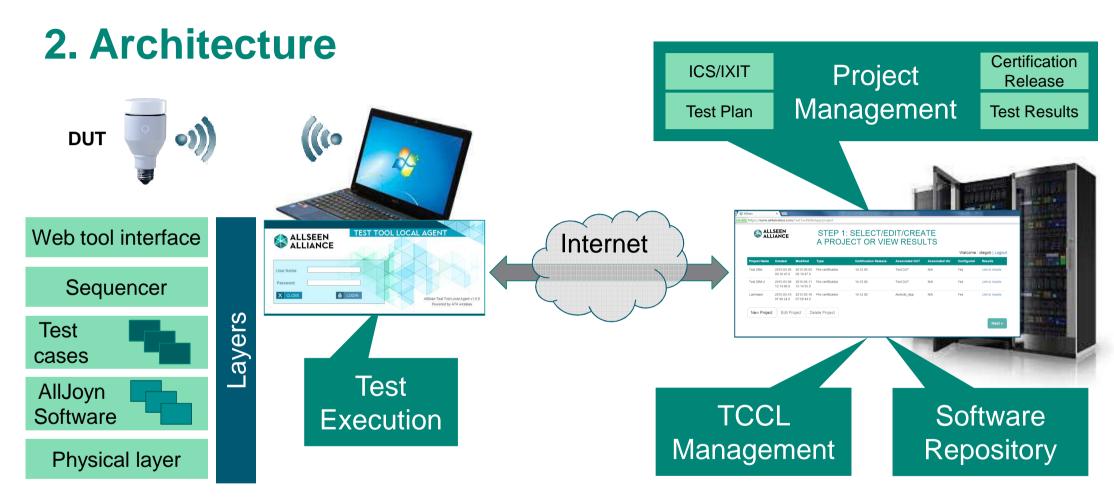


Summary

- 1. Overview
- 2. Architecture
- 3. Certification Test Tool Web Server
- 4. Certification Test Tool Local Agent
- 5. Related Links

1. Overview

- Scope:
 - Conformance Testing: performing test cases in an automatic way
 - Interoperability Testing: guiding user step by step to perform test cases
- Verifies the correct implementation of the AllJoyn features and Service Frameworks
- Private domain, access required
- Stores test results and testing evidences
- Created for Product Certification but also suitable for product development verification and pre-certification testing



Test Tool Local Agent

Test Tool Web Server

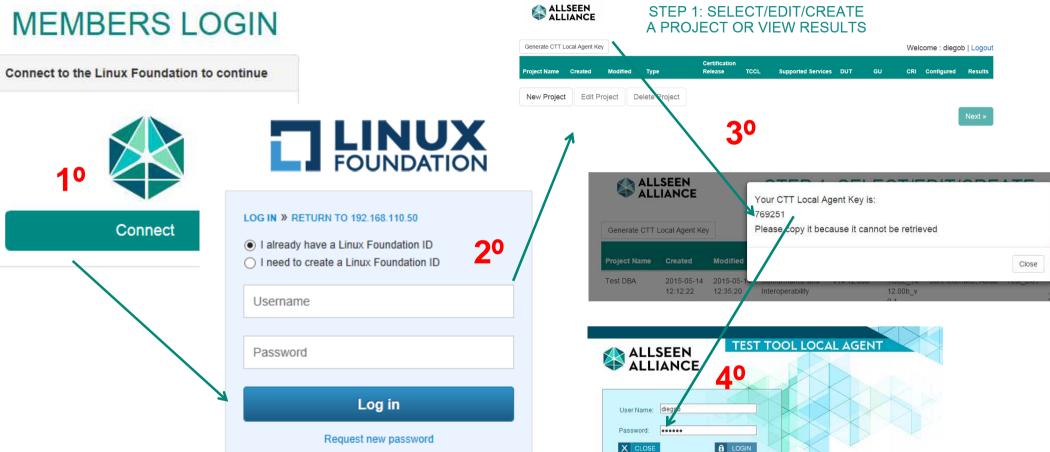
3. Test Tool Web Server

- Web application that provides the repository of information related to the Testing Process.
- Main functionalities:
 - Project Management: Creation and edition of testing projects, managing all the related information: DUT, Samples, ICS/IXIT, Test Plan, etc.
 - Software repository: It stores and manages downloading of all the software components needed to deploy the Test Tool Local Agent, including the updated test cases packages corresponding to the different Certification Releases.
 - TCCL Management: Management of the Test Case Control Lists used by AllSeen to define test cases certification scope within every Certification Release.

3. Test Tool Web Server. Project Management

- Project Identification, Versioning and Results.
- Device Under Test (DUT) description.
- Sample identification.
- Golden Unit identification (for Interoperability Projects).
- Fill in ICS, IXIT and General Parameters.
- Run Static Conformance Review (SCR) to check ICS integrity.
- Test Plan generation (Conformance and/or Interoperability Test Cases).
- Test Results management.

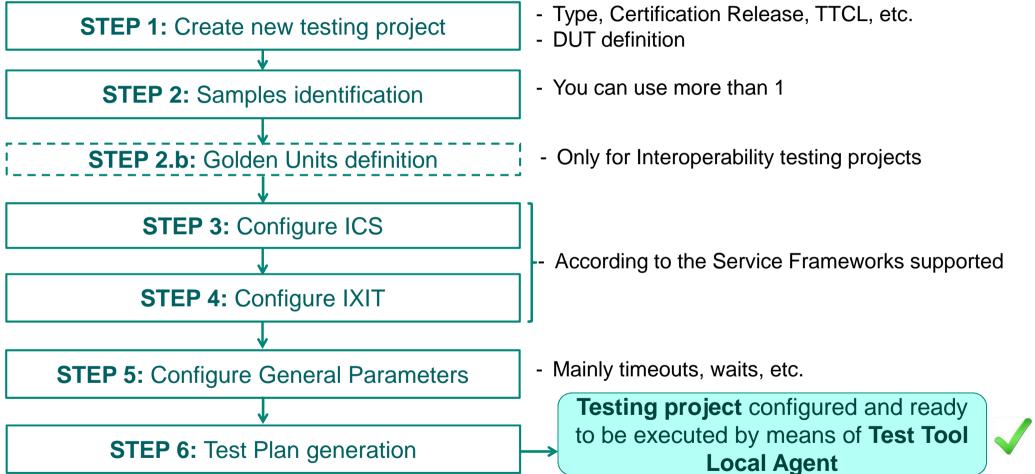
3. Test Tool Web Server. CAS Login



X CLOSE

AllSeen Test Tool Local Agent v1.1.0 Powered by AT4 wireless

3. Test Tool Web Server. Project Creation Workflow



3. CTT Web Server. Project Management



STEP 1: SELECT/EDIT/CREATE A PROJECT OR VIEW RESULTS

Generate CTT Local Agent Key Welcome: diegob | Logout Certification **Project Name** Created Modified Release TCCL Supported Services DUT GU Configured Results Test DBA 2015-05-14 2015-05-14 Conformance and v14.12.00b TCCL 14. Core Interface, Test DUT Test GU1 001 No 12:12:22 12:12:22 12.00b v Lighting results Interoperability 0.1 Test_GU2 Test_GU3 **New Project** Edit Project Delete Project

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3. CTT Web Server. DUT Selection

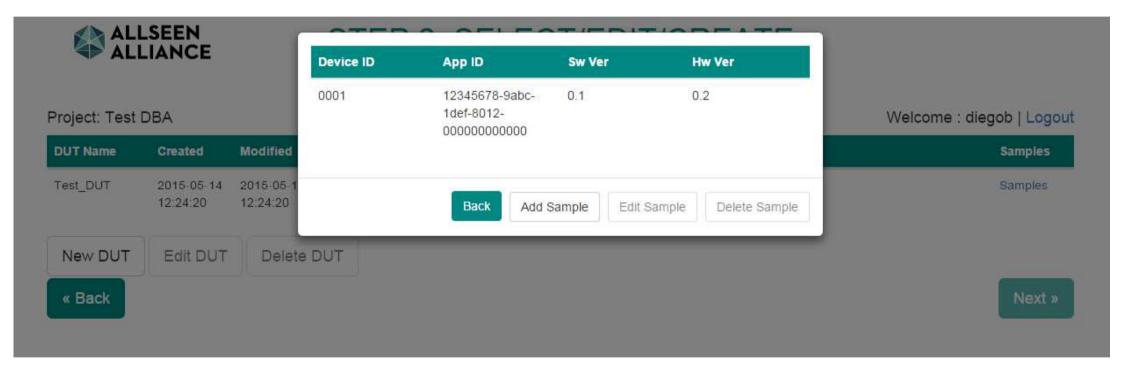


STEP 2: SELECT/EDIT/CREATE A DEVICE UNDER TEST (DUT)

Project: Test DBA Welcome : diegob | Logout

DUT Name	Created	Modified	OEM	Model	Description	Samples
Test_DUT	2015-05-14 12:24:20	2015-05-14 12:24:20	AT4 wireless	Test Model	DUT for testing purposes	Samples
New DUT	Edit DUT	Delete	DUT			
Dorale						Nove

3. CTT Web Server. Sample Selection



3. CTT Web Server. Golden Unit Selection



STEP 3: SELECT/EDIT/CREATE A GOLDEN UNIT (GU)

Project: Test DBA / DUT: Test_DUT

Welcome : diegob | Logout

GU Name	Created	Modified	Category	OEM	Model	SW Ver	HW Ver	Description
Test_GU1	2015-05-14 12:26:10	2015-05-14 12:26:10	Category 1 AllJoyn Device (About)	AT4 wireless	test 3	0.2	0.1	Testing GU selection
Test_GU2	2015-05-14 12:26:41	2015-05-14 12:26:41	Category 4.2 AllJoyn Device (Control Panel)	AT4 wireless	Test Model	0.1	0011111	Testing GU selection
Test_GU3	2015-05-14 12:27:11	2015-05-14 12:27:11	Category 7.2 AllJoyn Device (Lamp Service)	AT4 wireless	Test Model	3.9	4.2	Testing GU selection

New GU Edit GU Delete GU

You need to select at least 3 Golden Units

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For most of the IOP Test Cases, 3 GUs are needed

3. CTT Web Server. ICS Selection



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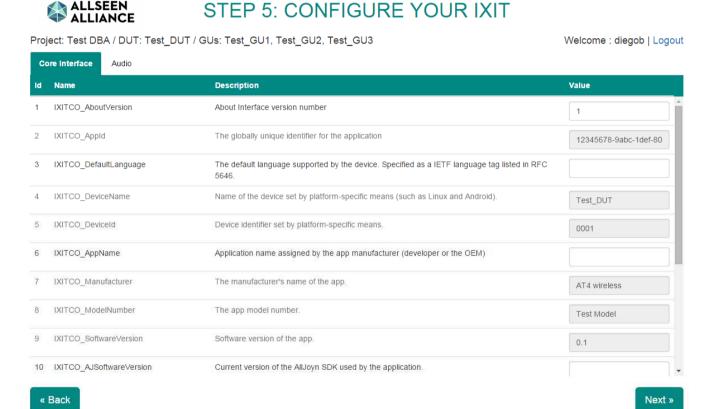
STEP 4: CONFIGURE YOUR ICS

Project: Test DBA / DUT: Test_DUT / GUs: Test_GU1, Test_GU2, Test_GU3 Welcome: diegob | Logout Core Interface Audio Name Description Value ICSCO DateOfManufacture Support of About Interface GetAboutData method DateOfManufacture data field true ICSCO HardwareVersion Support of About Interface GetAboutData method HardwareVersion data field true ICSCO SupportUrl Support of About Interface GetAboutData method SupportUrl data field true ICSCO IconInterface Support of Icon Interface true ICSCO_DeviceName Support of About Interface GetAboutData method DeviceName data field true Change All Service ICS SCR

It is necessary to perform SCR prior to go to the next Step

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3. CTT Web Server. IXIT Selection

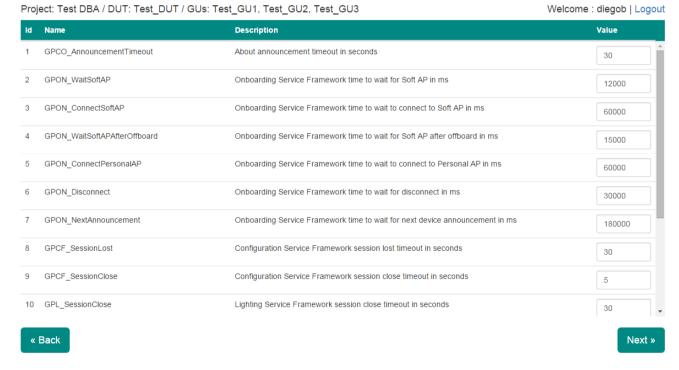


Values provided in Step 2 are blocked here to avoid confusions

3. CTT Web Server. General Parameters

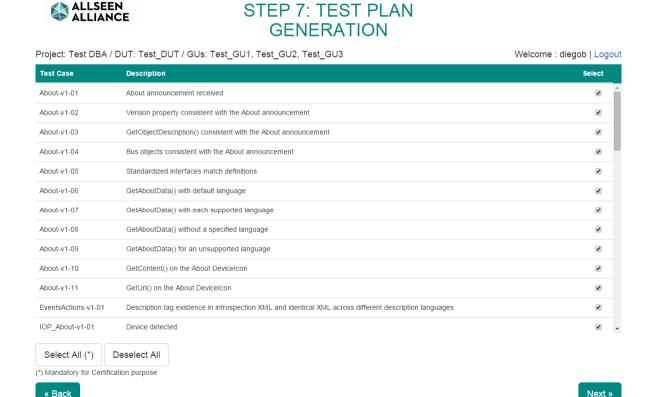


STEP 6: CONFIGURE YOUR GENERAL PARAMETERS



Typically they are timers

3. CTT Web Server. Test Plan Generation



STEP 7: TEST PLAN

Applicable Test Cases are marked. User can change unless TCs blocked by TCCL

4. Test Tool Local Agent

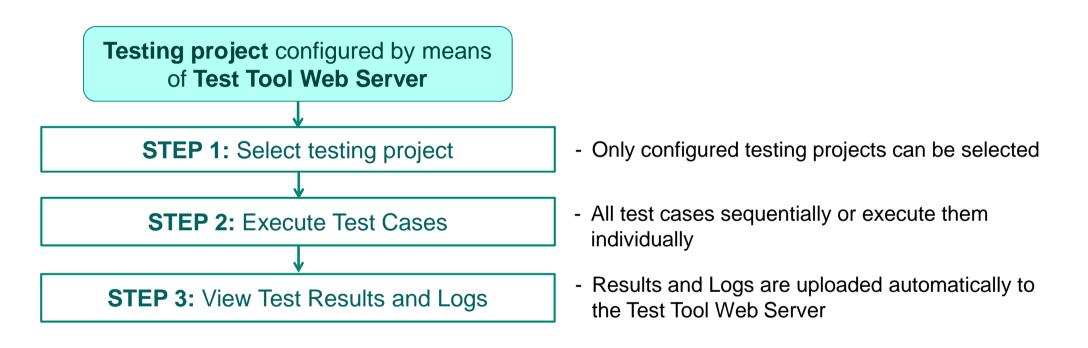
- Downloaded from the Test Tool Web Server.
- Local application installed on a Windows computer.
- Launches the software modules responsible for executing the Test Cases.
- Executes test cases according to the Test Case Specifications.
- Communicates with the Test Tool Web Server to:
 - Download the testing project information (Test Plan, ICS/IXIT, etc.).
 - Uploads Test Results and logs.

4. Test Tool Local Agent

- Developed in JAVA 7.
- Fully verified under Windows 7. Will be verified under Windows 8.
- Wi-Fi is the physical layer for communicating with the DUT.
- Fully support of Conformance and IoP testing.
- Interoperability testing:
 - Step by step guide to support the test operator during the execution of the interoperability Test Plan.
 - Test Results management.



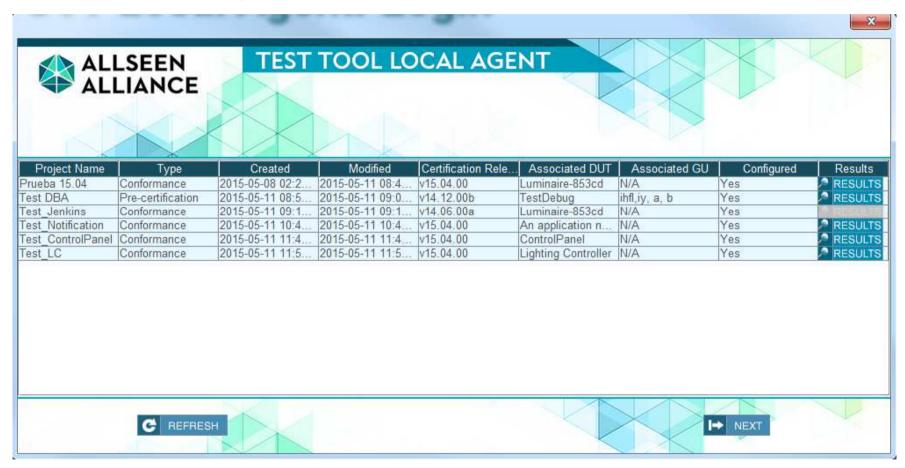
4. Test Tool Local Agent. Test Execution Workflow



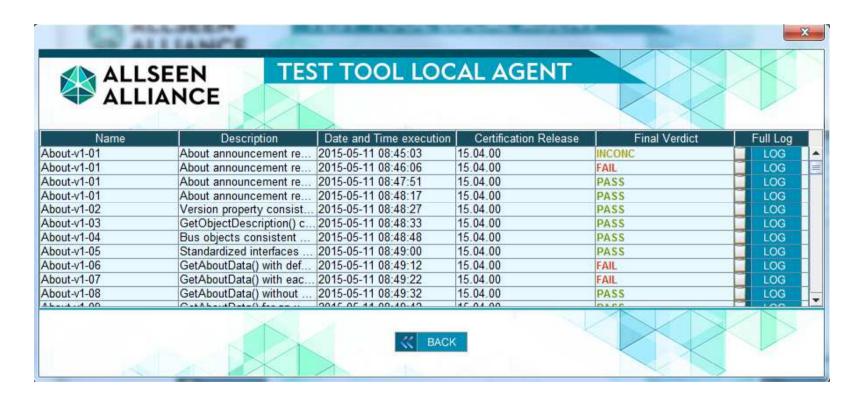


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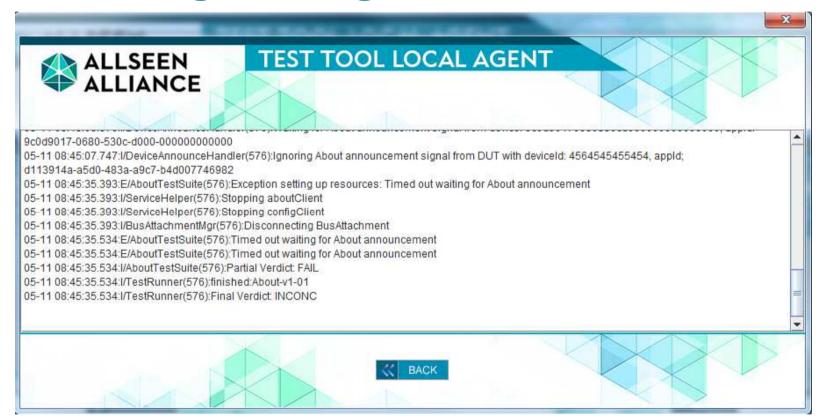
4. CTT Local Agent. Project List



4. CTT Local Agent. Project Results



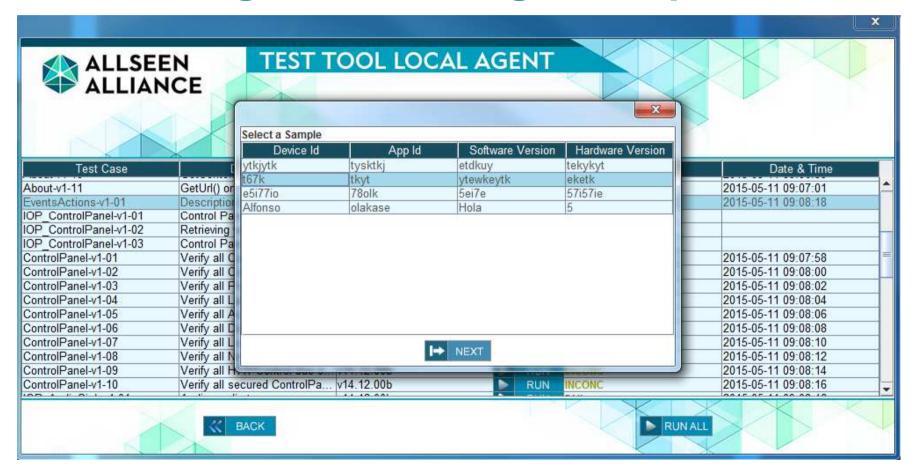
4. CTT Local Agent. Logs



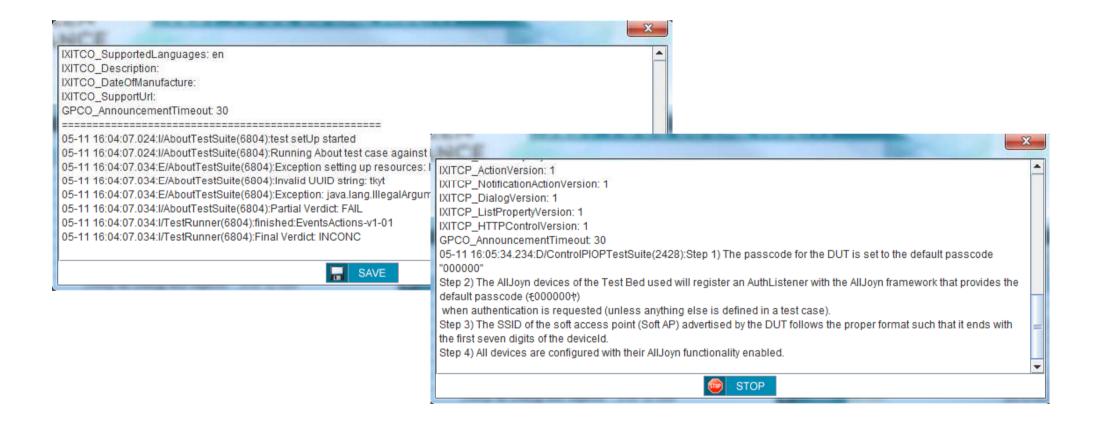
4. CTT Local Agent. Running Test Cases



4. CTT Local Agent. Selecting a Sample



4. CTT Local Agent. Save Results or Cancel the Test Case execution



5. Related Links

Test Tool Web Server:

- URL for evaluation (Pre-Production): https://www.at4wireless.com/TestToolWebApp
- Create a Linux Foundation ID

Related documents in Causeway:

https://allseen.causewaynow.com/wg/CC_Committee/document/folder/120

JIRA Tickets:

https://jira.allseenalliance.org/browse/ASACOMP#selectedTab=com.atlassian.jira.plugin.system.project%3Acomponents-panel



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