



ADVANCING NEAR
FIELD COMMUNICATION
TECHNOLOGY

Walkthrough of the Certification Program

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Certification Program Objectives

- Deliver on the NFC brand promise of compliance to specifications and interoperability
- Build a process by which devices can be certified to comply with the Forum's open standards
- Promote interoperability between:
 - Certified devices
 - Certified devices and other products such as tags, etc.

A blue ribbon graphic with a white border, containing the text 'December 7, 2010 Launch'.

**December 7, 2010
Launch**

Questions

1. What does a device have to do in order to be certified?
2. What needs to be certified, how will it be certified, and how do we track devices through the process?
3. How and what will we test (or not test) for compliance to specifications and interoperability?

Solutions

Certification Policy defines program rules and processes

Device Requirements document defines minimum feature set

Conformance Testing confirms compliance to specifications

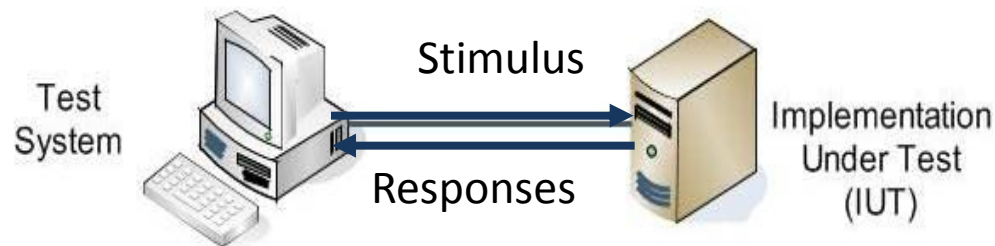
Plugfests help manufacturers test interoperability

<http://www.nfc-forum.org/certification/>

Conformance Testing

- Focus of December 7, 2010 Launch
 - “Self Confirm” that device complies with NFC Forum specifications, including but not limited to:
 - Digital Protocol
 - Activity
 - Tag Operation

- Submit Device for Certification Test
 - Conformance Test using NFC Forum-Approved test tool

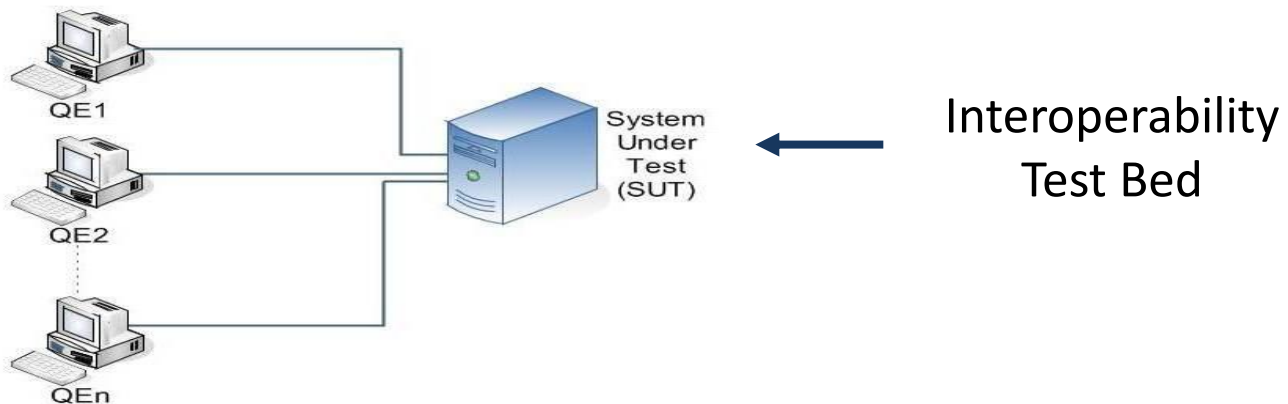


Program Features

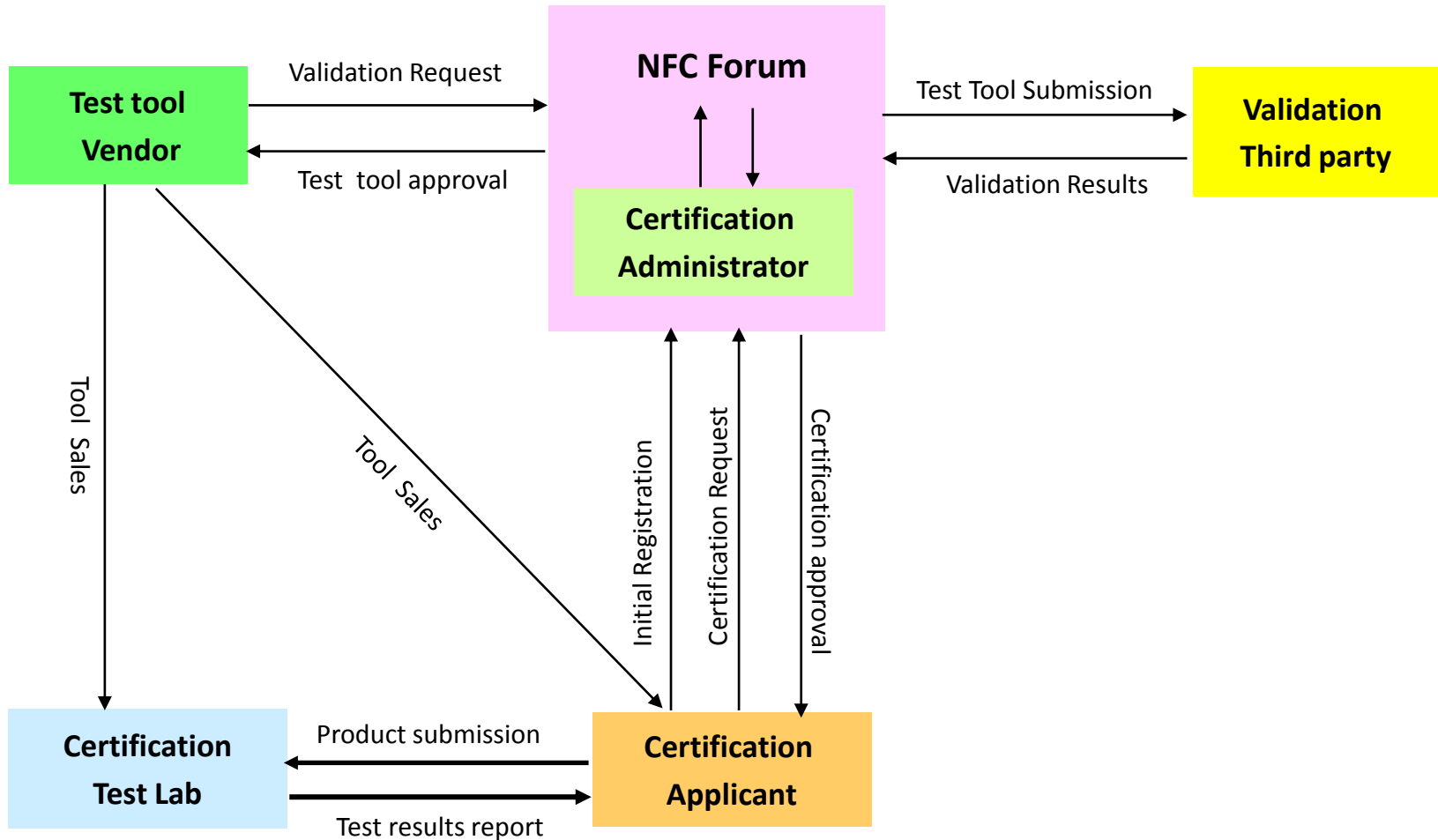
- Available only to NFC Forum members
- Administered by an independent, neutral third party
- [Electronic, automated certification process](#)
- [Approved test tools](#)
- [Authorized test laboratories](#)
- Problem and issue resolution process
- Escalation process
- Anonymity assured
- Option to list product on [register of certified devices](#)

Interoperability Testing

- NFC Forum supports “Plugfest” events
 - Scheduled multiple times throughout the year
- Not required at this point
 - Strongly recommended
 - Could become mandatory in the future
- Certification will not be denied based on the results of interoperability testing



Stakeholder Interaction





Certification Administrator



Test Tool Provider



Test Tool Provider



Test Tool Validation House

Certification Program Timetable

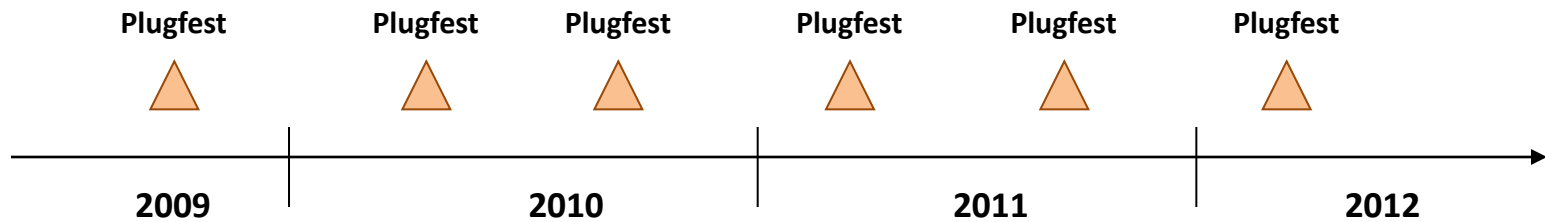
1st Certification Wave

Digital Protocol
Activity
Tag Operation



2nd Certification Wave (Advanced Certification)

1st Wave plus:
LLCP (Peer-to Peer)
RF Analog



- As a developer who is interested in getting your product certified, your first step should be to join the NFC Forum
- Good next steps would include:
 - Review the Device Requirements Document
 - Review the NFC Forum Certification Policy Document
 - Participate in Testing WG activities regarding Test Cases and Test Application SW
 - Talk to Test Tool Vendors (i.e., provide sample, familiarize yourself with tools, etc.), and/or talk to Test Houses (see web site for list)

Thank you!

Questions?