



GCFTM
Global Certification Forum

Platform Certification

Denis Chabot, Sierra Wireless & GCF IAG Chair
IoT Workshop, Shenzhen September 7, 2017

This GCF document is confidential information and subject to copyright protection

Platform Certification

- GCF is actively evolving its M2M & IoT Certification Program to support and enable new markets and verticals

GCF Platform Certification



Certified Platform Functionality

The Platform provider indicates the amount of the Test Results which could not be impacted by the end-device implementation and which therefore would be **certified for reuse**.

This will significantly lower the time and cost for the IoT device manufacturer who utilizes a certified platform.

An IoT device manufacturer can choose to integrate multiple platforms in their final device implementation

*Platform Certification will be a key enabler of
large scale IoT Deployments*

Current Routes to Certification

- There are currently the following paths to Certification for Products:
 - Device
 - Module
 - **Platform**
 - Client Application
 - Device where the 3GPP functionality is provided by an embedded GCF Certified Module
 - Device, Module or Platform that references a GCF Certified Platform
- Platforms are defined as software or hardware or a combination of both, that can be tested and certified with specific, defined, functionality

Certification of a Platform

Certification of a Platform

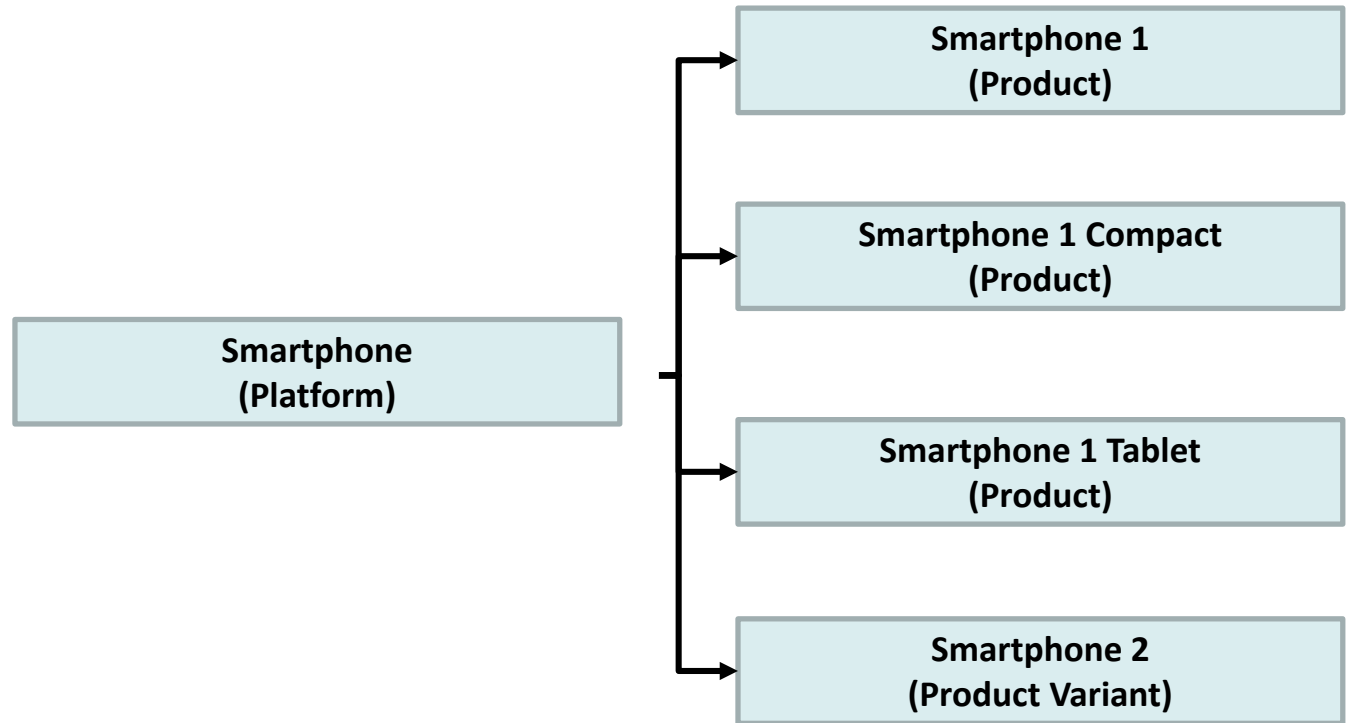
(With the exception of downloadable Clients, a Platform shall not be certified as an end product intended for use by end consumers)

Types of Platforms:	Non-End Consumer Device Module RF Protocol Application (MMS, SUPL, etc.) Downloadable Client
Certification Route	Platform (Refer to GCF-AP, section 7.2.1)
Certification Criteria:	All criteria as defined in GCF-CC which are applicable to the declared features.

Examples of Platform Integration (i)

- A Product may reference multiple independent Platforms
- Depending on the integration, device certification can focus on the areas related outside the platform or areas where the platform provider does not guarantee integrity of test results
- For Parent/Variant scenarios, the Parent model can be certified as both a platform and an end product
 - Separate declarations are required to differentiate between the two

Examples of Platform Integration (i)



Benefits of Platform Certification

- Allows easy integration of 3GPP based wireless technology & service components in devices targeted for different enterprise verticals
- IoT Device Manufacturers do not need to be Subject Matter Experts in 3GPP technology, but can rely on certifications that guarantee the integrity of the platforms they integrate
- IoT Device Manufacturers can take advantage of significant platform test results reuse, lowering the cost of development and time to market of their products
- Platform providers can take advantage of their core knowledgebase and offer solutions to the market that can take advantage of economies of scale

Modules & Platforms Co-existing

- Modules will continue to drive the M2M/IoT markets by providing plug and play capabilities to IoT Manufacturers and guaranteeing cellular functionality
- Platforms will allow more flexible development for IoT products, i.e. from hw & sw components to entire reference designs
- The policies around how platform certification will be managed are currently being developed in the GCF
- Hardware and Software platforms will allow IoT manufacturers to maintain focus in their respective areas of specialty, while lowering the barrier to entry for the overall market and offering a diverse range of certified platforms to use in product integration

GCF Public Website <http://www.globalcertificationforum.org/>



The image features the GCF logo on the left, consisting of a circular emblem with three concentric arcs and the text "GCF™ Global Certification Forum". Below the logo is the website address "www.globalcertificationforum.org". To the right of the logo is a world map where countries are shaded in three colors: light blue, dark blue, and grey. A legend in the bottom right corner of the map area identifies these colors: light blue for "Operator Members", dark blue for "Associate Operator Members", and grey for "Subsidiaries of Operator Members".

www.globalcertificationforum.org

**Device certification for the
global mobile market**
Assuring interoperability between
3GPP/3GPP2 devices and mobile networks

Operator Members, Associate Operator Members & Subsidiaries