

GCF has three principle membership categories:

Operators & Associate Operators

- Any operator of a network based on any 3GPP or 3GPP2 technology

Manufacturers

- Companies that produce complete devices that are marketed under a brand name they own.
- Associate manufacturers: companies that wish to certify wireless-connected products that incorporate GCF-certified modules.
- Client Vendors: developers of client application software for 3GPP and/or 3GPP2 devices.

Observers

- Other companies that have a genuine interest in mobile technologies including many test organisations.



Benefits of GCF Membership

All members benefit from being able to contribute to the debate on the technologies, test criteria, test tools and test cases included in GCF's "Test once, use anywhere" certification scheme.

The strengths of the GCF Certification scheme benefit all members:

- Common, relevant test requirements defined by the industry to meet market needs
- Sharing of best practice that promotes consistency of testing worldwide
- Avoidance of unnecessary duplication of interoperability, compatibility and functionality testing
- Fast adoption of new technologies into certification to ensure interoperability
- A consistent certification scheme for mobile phones and all types of wireless devices.

Full Operator & Full Manufacturer Members can:

- Propose new Work Items or Performance Items and nominate Rapporteurs for Work Items or Performance Items.

Full Operator & Full Manufacturer and Observer Members enjoy additional benefits:

- Free attendance and voting rights at GCF meetings
- The right to stand for election to the GCF Board or Chair/Vice Chair positions on the Steering Group or Agreement Groups.

Manufacturer Members can certify an unlimited number of devices. Associate Operators pay a daily delegate rate to attend meetings.

GCF Membership Fees for 2015		
Category	Full	Associate
Operator	€11,000	Complimentary
Manufacturer	€11,000	€5,500
Observer	€5,500	
Client Vendor	€5,500	

A supplementary Participation Fee is payable by members in GCF's CDMA-related activities. For 2015, the CDMA Participation Fee is 50 per cent of the annual fee for the relevant membership category.

To contact GCF: gcf@globalcertificationforum.org



Scan here to
download an
application form



Q1
CAG#41 / FTAG#38

- ① Dubai, UAE, Jan
- CAG2 / TCAG2#6
- ② San Diego, CA, USA, Feb
- SG#62
- ① Orlando, FL, USA, Mar

Mobile World Congress
Barcelona, Spain, Mar 2-5

Q3

- CAG#43 / FTAG#40
- ⑤ Malaga, Spain, Jul
- CAG2 / TCAG2#8
- ⑥ Portland, OR, USA, Jul
- SG#64
- ③ Germany, Sep

Mobile World Congress, Shanghai
Shanghai, China, Jul 15-17

CTIA Supermobility 2015
Las Vegas, USA, Sep 9-11

GCF Certification News is intended to provide an overview of the work of GCF and does not constitute a formal record of decisions taken at GCF meetings.
Members can access official records of all GCF meetings in the members' area of the GCF website.

To receive your own copy of future editions of GCF Certification News, please sign-up at www.globalcertificationforum.org

Certification News

Meet the GCF Office

Professionals in the GCF Office support members in pursuing GCF's objectives

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Certification Explained

Understand the principles that underpin GCF Certification

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Membership Matters

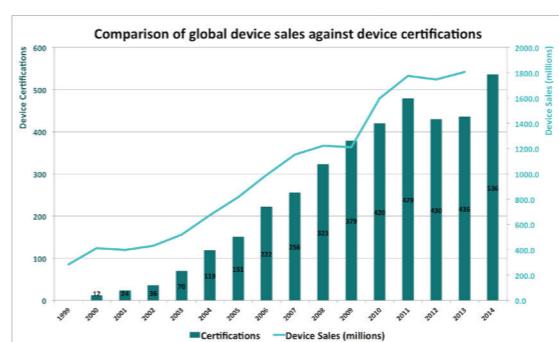
Find out about GCF's membership categories and how to join

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Record number of devices certified in 2014

53 manufacturers certified a record 531 mobile devices in 2014. Overall, certifications were 22.5 per cent higher than in 2013.

The efficiencies realised by the "Test once, use anywhere" certification scheme – which is recognised by a broad cross-section of the world's leading operator groups – make an important contribution to expanding the global mobile phone market by increasing the choice of trusted devices.



These efficiencies are set to become even more valuable. In 2014, the "average" GCF-certified LTE devices incorporated 4.4 FD LTE bands, 3.1 3G bands and 3.5 GSM bands. With FD LTE being deployed in approaching 20 bands worldwide, devices will include more bands to support international LTE roaming. More widespread adoption of carrier aggregation – already included within GCF – will further add to device complexity. Certification will help manufacturers and operators bring these sophisticated new devices to market.

M2M & IoT added to GCF's objectives

GCF's core objective remains to assure the interoperability of wireless products by offering a globally-recognised industry certification process which ensures compliance of products to agreed standards.

In addition, GCF's current priorities are to:

- Promote increased use of GCF Certification in its current markets
- Promote adoption of GCF certification by the mobile industry in markets where it is not presently used
- Support industry's emerging M2M business models by ensuring GCF Certification meets key industry needs

GCF's M2M Task Force is seeking input from any M2M stakeholder to understand how certification can best contribute to the success of M2M and the Internet of Things. Please share your thoughts.

GCF Office members at MWC

Lars Nielsen, General Manager

Working closely with the Chair and Vice Chair of Steering Group, and the Board of Directors, Lars coordinates the work of the GCF Office team, overseeing strategy development, day-to-day operations, and external communications. In a 30-year career at Motorola, Lars previously gained experience across the development, testing, quality and compliance of mobile devices. He represented Motorola in GCF and also served on the GCF Board.

Derville O'Shea, Membership, Events & Meetings Manager

Derville is responsible for assisting companies through the membership application process and then supporting the 280+ GCF members. She also plans and coordinates the annual calendar of quarterly membership meetings held at venues around the globe and manages GCF's presence at events such as Mobile World Congress and CTIA. During 12 years in the mobile industry, Derville previously worked at GSMA.

Bruce Jolly Business Development Manager

Formerly General Manager of the CDMA Certification Forum, Bruce joined GCF in 2015 to engage with the mobile industry in the growth markets of Latin America and Africa and to support existing initiatives to promote GCF and Certification in other regions such as China and India.

Steven Dumper, Technical Operations Manager



Responsible for the GCF Certification process from end-to-end, Steven actively monitors declarations from manufacturers, RTOs and Third Party ACEs to ensure certification remains efficient and robust. He also coordinates the technical activities required to support GCF strategies. Previously, at Samsung, he established and then managed its ISO 17025 test laboratory and represented the company at GCF.

Chris Hogg, Programme Manager



Chris is actively involved in the development of GCF's overall objectives and business strategy and works with members and other stakeholders to identify how the evolving mobile landscape impacts certification. He is also currently supporting GCF's M2M Task Force and the Field Trials Agreement Group. Chris has extensive experience in telecom standardisation having previously represented Nortel at 3GPP, ETSI and ITU-T.

Dennis Fu, GCF representative in Asia Pacific



Dennis is GCF's representative in the large and influential Chinese market. Active in the mobile industry since 1993, Dennis has held roles at Spirent, Qualcomm and the CDMA Certification Forum. He also represents the Car Connectivity Forum in China and APAC.

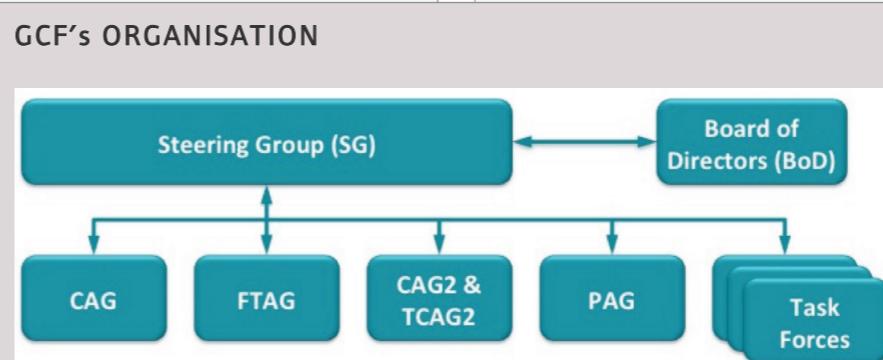
GCF Certification – how it works

A voluntary, industry-defined certification scheme focused on interoperability between mobile handsets and networks.

GCF certification follows the principles of a supplier's declaration of conformity (SDoC) as defined in ISO/IEC 17050.

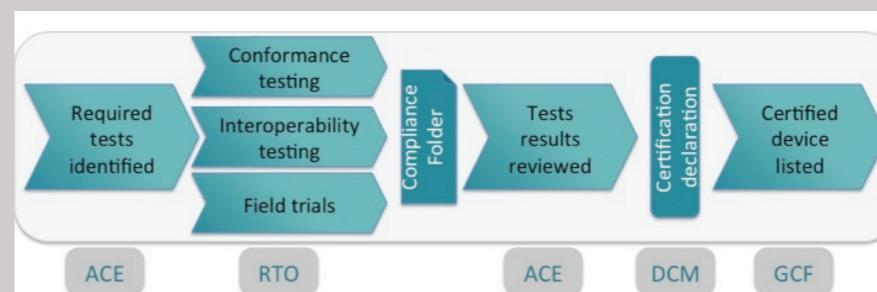
To ensure integrity, GCF Certification encompasses six processes:

- **QUALIFICATION:** manufacturers have to demonstrate they have the skills, working practices & resources to participate
- **DEFINITION:** Scope of testing for new features agreed by members in Steering Group; definition and implementation of these "Certification Criteria" delegated to Agreement Groups
- **VALIDATION:** Conformance Certification Criteria and test platforms independently validated
- **ASSESSMENT:** Devices tested to demonstrate they meet all relevant certification criteria
- **DECLARATION:** New certified devices notified to GCF Operator Members
- **CONTEST:** pre-defined process underpins robustness by allowing operators to challenge the certification of a device



- **STEERING GROUP** sets GCF's overall direction
- **AGREEMENT GROUPS** undertake technical Work Items agreed by SG
- **TASK FORCES** are established by SG to investigate issues of common interest and submit recommendations back to SG

THE CERTIFICATION PROCESS



CONFORMANCE & INTEROPERABILITY AGREEMENT GROUP (CAG)

Defines Certification Criteria for conformance testing based on network simulators and interoperability tests (IOP) for client-to-client and client-to-server functional checks

Recent priorities:

- LTE Carrier Aggregation – 24 band combinations already supported within scheme
- Features considered important by operators as differentiators such as UICC-based NFC, RCS and 3GPP acoustic enhancements
- Features that benefit network operations and efficiency such as security enhancements and OTA antenna performance
- 3GPP network and system improvements for M2M beginning to feature in Certification Criteria

FIELD TRIAL AGREEMENT GROUP (FTAG)

Defines Field Trial Certification Criteria for verifying device behavior in live commercial networks made available by Field Trial Qualified Operators.

Recent priorities:

- Introduction of new VoLTE testing
- RCS testing

PERFORMANCE AGREEMENT GROUP (PAG)

Maintains programme that allows manufacturers to quantify and report in a standardized way on agreed aspects of mobile device performance. Performance Metrics currently cover

- Battery life
- Acoustic performance
- OTA antenna performance
- Data throughput

CONFORMANCE & INTEROPERABILITY AGREEMENT GROUP 2 (CAG2)

Working in parallel with the Test Case Development Agreement Group 2, CAG2 (TCAG2) is responsible for the maintenance and on-going development of CDMA device certification within GCF

Recent priorities:

- Successful incorporation of CDMA certification into GCF
- Ensuring seamless service between cdma2000 and LTE
- Supporting CS voice services over 1X-RTT and LTE data simultaneously