EU - INDIA | WEBINAR

12th May 2022

Cyber Security for Consumer IoT

GCF Consumer IoT Security Accreditation Programme

Presented by Lars Nielsen, CEO & GM

What is GCF?

- Not-for-profit membership driven organisation that promotes mobile and IoT device certification programmes globally

- **Supported by major mobile and IoT brands**
  - **330+** member companies
  - Collaborative participation between operators, handset and IoT Manufacturers, test industry, and industry partners
  - Certification programmes based on test cases defined by SDOs: 3GPP, ETSI, oneM2M, GSMA, …
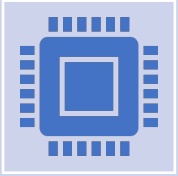 - **600+** device models certified annually

Quality, reliable and secure communications are essential for the successful roll out mobile services and IoT solutions across industry and society
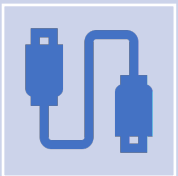
Supported by industry partners

Interoperability matters

Over 150 manufacturers and all networks rely on GCF Certification to ensure mobile devices are interoperable with networks and services.

GCF Certification demonstrates compliance to key industry standards: 3GPP, GSMA eSIM/RSP, oneM2M.

GCF Certified devices have 20% lower dropped call rates compared to non-GCF Certified devices.

Quality, reliable and secure communications are essential for the successful roll out mobile services and Internet of Things (IoT) solutions across industry and society.

Percentage Variance From Mean Dropped Call Rate

- GCF Members
- Non GCF Members
- Mean
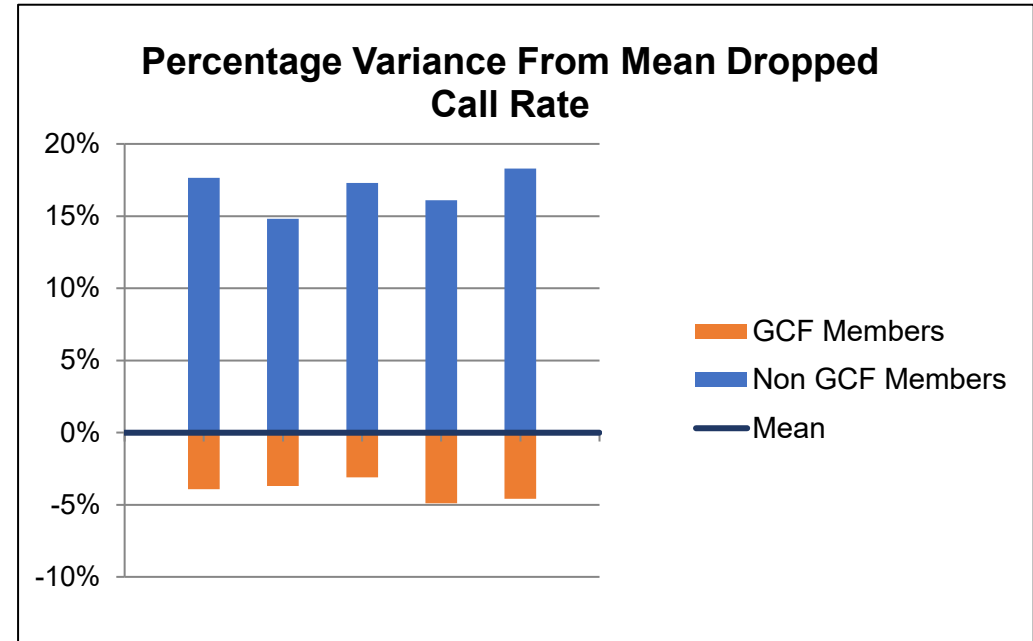
Consumer IoT Security Program

- The GCF offers a Consumer IoT Product Security Accreditation Program to help address the industry concerns surrounding the security of IoT products in an ever-connected world

- **Phase 1:** Self-accreditation for non-constrained devices, involving consumer IoT product manufacturers submitting a security compliance declaration covering the first 3 IoT Security Provisions as defined by ETSI CYBER (EN 303 645):

    1. **No Universal Default Passwords**

    2. **Implement a means to manage reports of vulnerabilities**

    3. **Keep Software Updated**

- Additional provisions will be added over time (Phase 2) as standards and test specifications matures, and industry adoption becomes more widespread

Program Objectives & Overview

- Provide value to consumers by ensuring IoT products meet a minimum level of security in their design and deployment

- Ensure safety and integrity of IoT service provider networks to mitigate unauthorised access and security breaches

- Promote better design and development for IoT manufacturers leveraging wireless communication solutions

- Align with government regulations and best practices for connected devices globally

- Consumer IoT Security Accreditation being offered to any product manufacturer

- The declaration is targeted for any Consumer IoT product, not just those supporting 3GPP technologies

- A dedicated web portal https://iotsecurity.globalcertificationforum.org is available in order to register and access the required documents:

- Successful declaration results in a public listing of the product on the GCF IoT Security portal

GCF

GLOBAL CERTIFICATION FORUM
Consumer IoT Security Accreditation
Program Procedures

Reference: GCF-Consumer IoT Security
Version: 3.0.0
Date: 25 September 2020
Document Type: Permanent Reference Document (PRD)

Next steps

- GCF is working with industry partners to refine the program for its Phase 2 initiative

- This includes investigating:
  - Extending the coverage to constrained devices & IoT Modules
  - Expanding the set of security provisions as outlined in EN 303 645
  - Using ETSI TS 103 701 as a baseline for conformity assessment to EN 303 645

- GCF invites interested parties to contact us to collaborate in this space!

Challenges for industry

- Industry is hesitant to get involved with IoT certification

  - Too many schemes in the market?
  - Differentiation in market towards consumers
  - Missing commercial drivers
  - Lack of clarity of upcoming regulation

- GCF is looking into a number of options

  - Co-operate with other organisation offering security certification to have a wider acceptance of the scheme
  - Focus more on security for B2B products and enterprise solutions
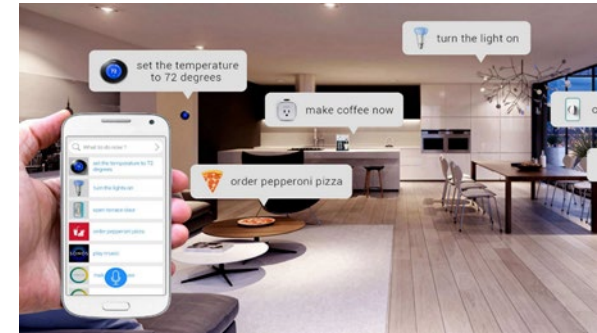
Join our growing community...

- **[Join GCF today](#) to ensure your products and services meet the high standards of quality, reliability and security expected by today's consumers and industrial users.**

- **Like what you hear? Please connect with us:**

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