

“Excellence through Certification”



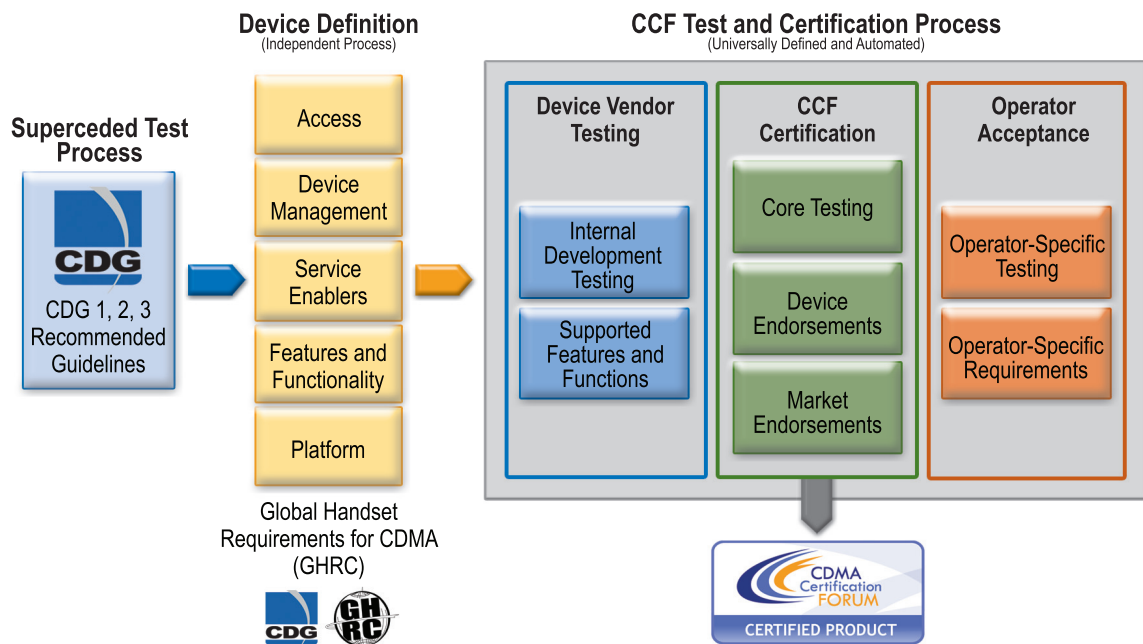
DEVICE TEST AND CERTIFICATION

CDMA Certification Forum:

The Official Test and Certification Forum for All CDMA2000 Devices

The CDMA Development Group (CDG) and CTIA -The Wireless Association® have officially designated the CDMA Certification Forum (CCF) as the sole test and certification authority for all single-mode and multi-mode CDMA2000® devices. Providing the CDMA industry with the most extensive CDMA test coverage, the global CCF certification process now integrates CTIA certification and replaces the CDG 1, 2 and 3 test guidelines.

The CCF certification process consolidates into one clear and concise process all of the minimum performance, interoperability and conformance testing necessary to ensure that all CDMA2000 devices are certified to operate in accordance with the applicable global industry standards. But most importantly, it streamlines and automates the testing and certification process of devices – minimizing their time-to-market and cost.



Using its Authorized Test Facilities located around the globe, the CCF helps ensure the quality of CDMA2000 devices worldwide. As the most efficient certification process on the market today, it accelerates the qualification of the devices and reduces the cost for vendors to deliver devices to operators in all markets.

In 2009, the CCF achieved the ISO/IEC Guide 65 Accreditation. To achieve this accreditation, the CCF completed a thorough assessment process demonstrating its competence to provide independent, impartial assessment and certification services.



The CDG and its members see great value in having a single CDMA device certification process. For this reason, the CDG formally transferred the CDG 1, 2 and 3 tests guidelines and endorses the comprehensive suite of test cases offered by the CCF to certify CDMA2000 devices.

– James Person, COO, CDMA Development Group

We are pleased to be working with the CCF on the recently converged certification process that provides CDMA industry participants an even more efficient way to test and certify their wireless devices.

– Mark Sargent, Assistant Vice President of Certification Programs, CTIA -The Wireless Association



In the course of designating the CCF as the single device certification process, the CDG transferred its System Test Team (STT) work and CDG 1, 2 and 3 test guidelines to the CCF to incorporate into its certification process.

Most recently, the CTIA CDMA Certification Program was integrated into the CCF certification process by creating a *CTIA Certification Market Endorsement*. The purpose of the *CTIA Certification Market Endorsement* is to verify that CDMA2000 wireless devices sold into North America conform to the industry standards specified by CTIA -The Wireless Association. CDMA2000 devices that may be certified by the CCF include, but are not limited to, mobile phones, fixed wireless phones, smartphones, wireless data modems, PCMCIA cards, USB modems, telemetry devices and computing devices with embedded modules.

UPDATE YOUR CDMA2000 DEVICE REQUIREMENTS . . . CROSS REFERENCE CHART

OLD	NEW
TIA-98-F (aka CDG1)	C.S0011-C v1.0
CDG 57 (aka CDG Stage 2)	CCF-57 CCF Certification with Cabled-IOT (Level 2) Endorsement
CDG 64 (aka CDG Stage 3)	CCF-64
CTIA Certification	CCF Certification with CTIA Certification Endorsement

Some of the benefits of the CCF certification process include:

- **Ensured impartiality:** Tests are conducted by independent CCF Authorized Test Facilities
- **Minimized replication and cost:** Since the test results satisfy most operators' basic needs, a single certification will suffice for multiple operators
- **Reduced time-to-market:** The automated test process reduces operator test and acceptance time by a factor of three or more

CCF CERTIFICATION PROCESS

Serving a global marketplace

- Common test plan
- Single uniform process
- Validated test platform

Offering market endorsements

- North America - CTIA
- Global - Open Market Handsets

Look up test plans and more at www.globalccf.org

In partnership with CDMA operators and vendors from around the world, the CCF is a global non-profit organization chartered to test and certify that CDMA2000 devices meet the requisite product conformance, network interoperability and essential performance specifications dictated by international standards bodies. For more information about the CCF, visit the CCF website at www.globalccf.org or email us at info@globalccf.org. • CDMA2000 is a registered trademark of the Telecommunications Industry Association.