

CTIA Battery Life Testing

The purpose of the CTIA Battery Life Certification Program is to provide an estimate of the expected battery life of smartphones or smartwatches under a standardized usage and environmental profiles.

Test Plan version 1.6 has also introduced MIoT testing and this has been fully implemented and delivered to registered CTIA Approved Labs.

Analytek, in partnership with Rohde & Schwarz, are the only suppliers of the CTIA Authorised Battery Life Test System.

CTIA Authorised Platform for Battery Life Testing

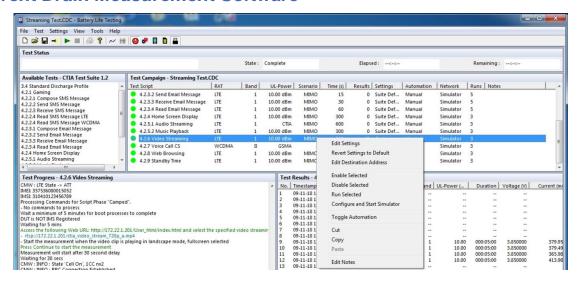


Analytek Software Features

- o Easy to use Windows application
- Test Suite supplied with CTIA Test Plan specified Test Scripts.
- Default Template provided to generate new Test Campaigns with all required Tests and their specified settings.
- o Scripted scenarios allow customisation for analysis.
- Result output provided in TXT, CSV and HTML report formats.
- Verdict Generation based on CTIA Test Plan requirements

- o Runtime graphic and result presentation.
- Software provides complete control of the Network Simulator, GNSS Simulator and Power Analyser at runtime.
- o Archive and export features for offline analysis.
- Software option to add CTIA MIoT Test Suite available.
- Test Suites available for other Operator, GSMA and GCF Standards.

Current Drain Measurement Software



CTIA Specified Hardware and Software Requirements

Manufacturer	Model	Minimum Qty	SW Version	Script Version	Notes / Required options
Analytek	ANALYTEK BATTERY LIFE SW				
Limited	ANA-TSB-CTIA or	1	Framework	Test Suite	ANA-TSB-CTIA is required for new installations.
	ANA-TS-CTIA-BLTP and		3.76 Build 750 or	1.6 or later	When adding to existing licensed Test Suite(s), only ANA-TS-CTIA-
	ANA-UPG-TS-CTIA-130		later		BLTP is required (ANA-OPT-AUX-PSU is a pre-requisite).
	ANA-OPT-GNSS-01				Option for GNSS Simulator handling.
	ANA-TS-CTIA-MIOT			TS 1.6	Test Suite for MIoT tests as per TP 1.6
Rohde &	BASE HARDWARE				Specific options required in addition to any existing options fitted
Schwarz	CMW500	1	3.7.120 and later		Wideband Radio Communication Tester
	CMW-B590A or B590D	2			RF Frontend, basic (B590A *2), or advanced (B590D *1) required
	CMW-B570B	2			RF Converter (TRX) - 2 required
	CMW-B612A or B612B	1			IEEE Bus Interface, single interface
	LTE FDD HW & SW				Specific options required in addition to any existing options installed
	CMW-B300 or B500	1			Signaling Unit for WCDMA / LTE
	CMW-KS500	1	3.7.60 and later 3.7.31 for B300		LTE FDD Release 8, SISO, signaling/network emulation, basic functionality
	CMW-KS510	1	3.7.60 and later		LTE FDD Release 8, SISO, signaling/network emulation, advanced
	CWW ROOTO	'	3.7.31 for B300		functionality
	CMW-KS520	1	3.7.60 and later		LTE FDD MIMO 2x2, signaling/network emulation, generic feature
	OWW-10320	'	3.7.31 for B300		ETET DD WINNO 2x2, Signaling/Network emulation, generic reature
			5.7.51 101 0500		
	CAT-M and NB-loT SW				Specific options required in addition to any existing options
					installed
	CMW-B500	1			Signaling Unit for NB-IoT (B300 not supported)
	CMW-KS300	1	3.7.80 or later		NB-IoT R13/14, generic signaling
	CMW-KS590	1	3.7.80 or later		LTE MTC, generic signaling
	WCDMA				Specific options required in addition to any existing options installed
	CMW-KS400	1	3.7.22 and later		WCDMA Release 99, signaling/network emulation, basic functionality
	CMW-KS410	1	3.7.22 and later		WCDMA Release 99, signaling/network emulation, advanced functionality
					<u> </u>
	APPLICATION TESTING HW & SW				Specific options required in addition to any existing options fitted and installed
	CMW-B450	1			Data Application Unit
	CMW-KA100, KA150, KAA20 and	1	3.7.41 and later		Application Testing (CMW-PK45 includes these options and is
	CMW-KM050				recommended, but not mandatory)
Keysight	KEYSIGHT ANALYSER				
	N6705B or N6705C	1	FW D.02.08 or		DC Power Analyser mainframe or
	or N6700 mainframe		later		Modular Power System (MPS) mainframe
	N6781A or N6785A	1			Measure Unit for Battery Drain Analysis
RaceLogic	LabSat 3 GNSS Simulator				
	RLLS03-1P	1			Minimum configuration: Single constellation Replay Only

Extract from CTIA document CTIA-Certification-Authorized-Battery-Life-Test-System-Ver_4.6

Ordering Information - Analytek software

Part Number	Name	Description
ANA-TSB-CTIA	CTIA Test Suite Bundle	Test Suite for Smartphone and Smartwatch testing
ANA-OPT-GNSS-01	GNSS Simulator driver	Control API for testing with LabSat 3 GNSS Simulator