

CETECOM releases new Carrier Aggregation Validator tool

Summary: CETECOM recently released the new Carrier Aggregation Validator to help with the verification if certain carrier aggregation test scenarios are valid.

September 21, 2016 / Essen, Germany – CETECOM, the premiere wireless test and certification lab and provider of its Testing, Organization and Management Database (TOM), recently released the new Carrier Aggregation Validator to help engineers, to verify if certain carrier aggregation test scenarios are valid.

Carrier Aggregation is the most promising feature of LTE-Advanced (LTE-A) technology, mainly intended to achieve higher internet speed. The only way to accomplish this under the Carrier Aggregation is to combine two or more carrier components from one or more operating bands there by increasing the overall bandwidth. However, combining carrier components often results into numerous possible test point combinations.

What needs to be considered for testing purposes is that there are a lot of restrictions defined per test case as well as certification regime and PICS restrictions.

Putting all the carrier component related test points, test case restrictions, certification regime and PICS restrictions into a single page to receive all the valid test points is provably too complex in nature.

But there is help available: The mentioned complexity has been thoroughly analyzed by Carrier Aggregation and [TOM experts](#) within CETECOM leaving no room for any kind of errors. Besides enriching carrier aggregation knowledge within TOM, the experts have also designed a validator, an online tool called Carrier Aggregation Validator (CAV).



Carrier Aggregation Validator

Validation of Carrier Aggregation Combinations based on 3GPP v13 (March, 2016)

Test Specification	<input type="text" value="Select Test Specification"/>
Test Case	<input type="text" value="Select Test Case"/>
Carrier Aggregation Band	<input type="text" value="Select Carrier Aggregation Band"/>
Possible Valid Combinations [?]	-

Carrier Component Combinations

	PCC	SCC1	SCC2
Band	<input type="text" value="Select Involved Band"/>	<input type="text" value="Select Involved Band"/>	<input type="text" value="Select Involved Band"/>
Frequency Range	<input type="text" value="Select Frequency Range"/>	<input type="text" value="Select Frequency Range"/>	<input type="text" value="Select Frequency Range"/>
Bandwidth	<input type="text" value="Select Bandwidth"/>	<input type="text" value="Select Bandwidth"/>	<input type="text" value="Select Bandwidth"/>

Carrier Aggregation testers can now utilize the CAV tool to verify if the chosen test points are correct or not. Using CAV, the correctness of the carrier aggregation test plan can be maintained and kept up to date with every 3GPP release thereby reducing the testing efforts only to the valid combinations.

The Carrier Aggregation Validator is free for use and available at <https://cav.cetecom.com>

About CETECOM

CETECOM is renowned as an independent industry partner for telecommunication technologies. With over 400 employees worldwide, CETECOM offers a series of testing and certification services which cover various technologies. Beside testing of familiar standards like GSM, WCDMA, LTE, CDMA, Bluetooth, Wi-Fi and NFC, CETECOM also performs a wide range of consulting and testing of mobile software applications, OTA, Antenna testing, SAR, EMC, field trials, acoustics, SmartCard and batteries. In addition, CETECOM supports new developments in the markets of "internet of things", especially for the domains of connected car and smart industry. CETECOM also participates in the development of global standards and test specifications.

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