

Background....

- Manufacturers main goal(s)
 - ✓ maintaining or attaining leadership position
 - ✓ growth through increased revenues while decreasing costs
- Achieving a cost effective, efficient way to accelerate time-to-market product(s) is therefore paramount

Background....

- Problem(s)
 - new product design gestation period was 12–18 months, now 4 6
 - Globally dispersed design teams need to share compliance test information quickly and effectively
 - evolution of complex standards which extends regulatory testing and certification processes

Current Issues....

- Bottleneck situation
 - tsunami of wireless devices starting to appear (WiFi and LTE)
 - minimal test automation available to meet regulatory demand
- situation will prolong time-to-market if not immediately addressed
- test houses currently not perceived as innovative establishments
- limited visibility of test data once test program commences

Regulatory OBJECTIVE – assist manufacturers achieve their goals

To remain competitive the main goal(s) are...

Lower regulatory compliance cost Shorten product introduction times

Use a simple, secure and easy to use test system

Automation - A Cloud Based Test System....

- is a hardware test system employing cloud based processing techniques delivering powerful test automation for wireless devices
- must be a repeatable, scalable platform capable of accommodating current and new technologies
- eliminates data handling and processing errors
- can be visible on mobile device platforms
- should reduce test times (up to 75%), can produce formal and "onthe-fly" reports (actual numbers are available)
- should remove complexities of wireless testing different country test techniques for similar parameters

Automation Based Features and Benefits....

Pre- and full compliance testing to current standards

Submit final test data for product certification

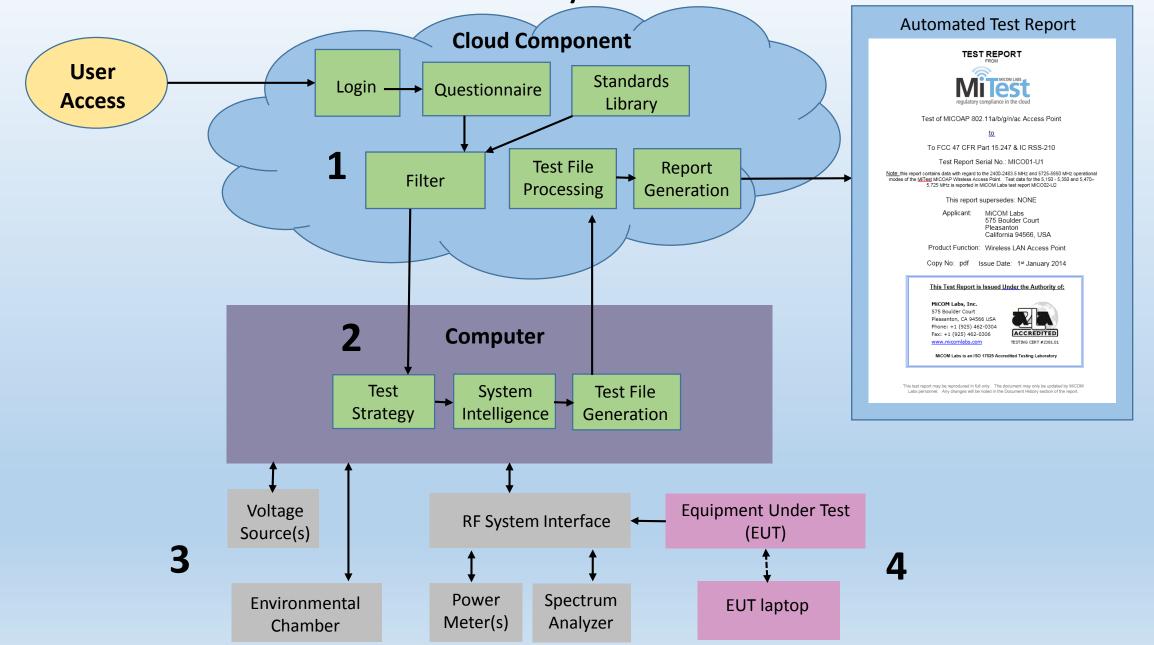
Any data processing must maintain data integrity, structured & organized

Features and Benefits

Scalable test
software
should
accommodate
new standards
& technologies

Produces realtime data and reports, consistent format – easy to share

End-to-end automation of regulatory compliance testing How does a cloud based system work?



Test System Hardware Components Test system hardware will consist of an RF System Controller, a choice of industry standard Spectrum Analyzer, power sensor(s) and a powerful Cloud Based Management Infrastructure comprising of a test library and automated reports. MiTest – Patent Pending





Live Updates

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Client:	MiCOM Labs
Project:	MICO11 - System Verification
Test of:	ABC123
To:	FCC 15.247 (DTS)

LIVE UPDATES: Testing is currently in progress. The following is a list of tests performed.

This page will auto-refresh in 3 seconds.

Click on the links below to see the data in HTML format.

Click on the 🔁 to obtain a *Preliminary Engineering Repor*t in PDF format. This may take a while as the document is generated dynamically Click on the numerical data to see the graphical representation.



5725 - 5850 MHz 🔁 🗹

802.11a 🔁 🗹

6 dB & 99% Bandwidth 🔁 🗹

Channel Frequency	Frequency Range	Voltage	Temperature	Chain	
5745 MHz		48 Vdc	Ambient	Chain a	135160
5745 MHz		48 Vdc	Ambient	Chain b	135156
5745 MHz		48 Vdc	Ambient	Chain c	135128

Average Output Power 🔁 🗷

	Channel Frequency	Frequency Range	Voltage	Temperature	Chain	
	5745 MHz		48 Vdc	Ambient	Chain a	135157
	5745 MHz		48 Vdc	Ambient	Chain b	135146
	5745 MHz		48 Vdc	Ambient	Chain c	135152

1. The Flexibility of Cloud Based Computing

- Access, update, and share data efficiently and securely using multiple computing devices
- Share live test data across multiple office locations and countries
- Integrate the test system into product acceptance procedures with your OEM/ODM's.



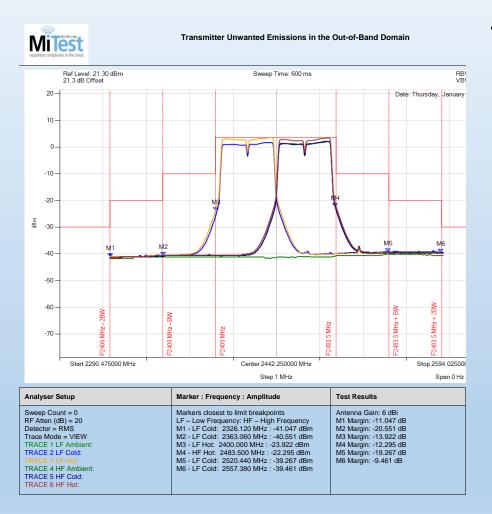


2. Reduction in Time-To-Market

- Perform pre-compliance testing in-house, minimize the cost of re-test due to failures
- Reduce time-to-market, perform fullcompliance testing in-house (conducted only)
- Provide access to set basic EUT parameters i.e. change modes of operation etc.

3. Help Remove Complexities from Wireless Testing

- Demystifies wireless compliance testing
- Helps train personnel
- Quality aspect retest products from production
- Provides measurement repeatability and traceability
- Eliminate data handling and processing errors



4. Real-time Regulatory Compliance Results and Plots

Generate real-time results showing limit lines, test criteria and system settings. Opportunity to develop interesting graphics based on measurement data.

System can <u>help manufacturers increase</u> <u>output power</u> levels through enhanced test techniques.



5. Automated Test Report Generation

With all data in the cloud the system can generate easy to read reports that are accepted globally by regulatory administrations.

New style report format separates test data from graphical images

Report generation has been simplified - use system templates or customize your own



5. Secure Test Environment

System can be developed with security and confidentiality in mind - SSL with 128 bit encryption. In addition encrypt all test files before transmission

All your information can be locked down with no unauthorized access

About Us



MiCOM Labs Inc. is a world-class regulatory compliance service provider with a full range of consultation, testing and certification services used by companies in the wireless, telecom, IT, medical and aerospace industries to global standards. We are a designated product certification body for the following economies:

- FCC Telecommunication Certification Body (TCB)
- Industry Canada Foreign Certification Body (FCB)
- European Union Notified Body (NB)
- Japan Recognized Certification Body (RCB)

