

Bluetooth[®] Seminar Series

Tools, Techniques, and Trends

Qualification to Product Launch

Paul Blackett | Operations Manager | UL













Agenda Qualification Or Certification

Certification

Interoperability

Qualification Vs Certification

Qualification

Market Driven schemes to use appropriate logo Interoperability and performance, as in Bluetooth, Wi-Fi, PTCRB, GCF

Regulatory Certification

Compliance with RF / SAR / EMC / Safety Standards Mandatory to enable product sale. Government agency dictates requirements. Used to achieve Global Market Access

Gaining one approval is not synonymous with getting the other....

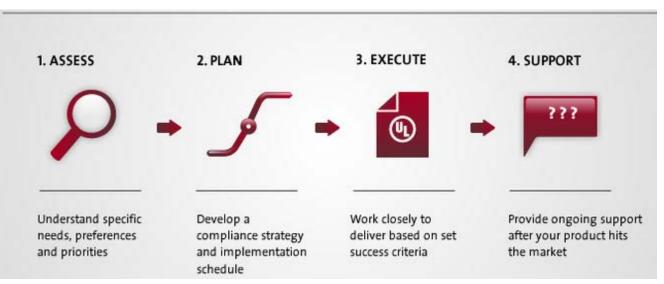


Qualification Testing



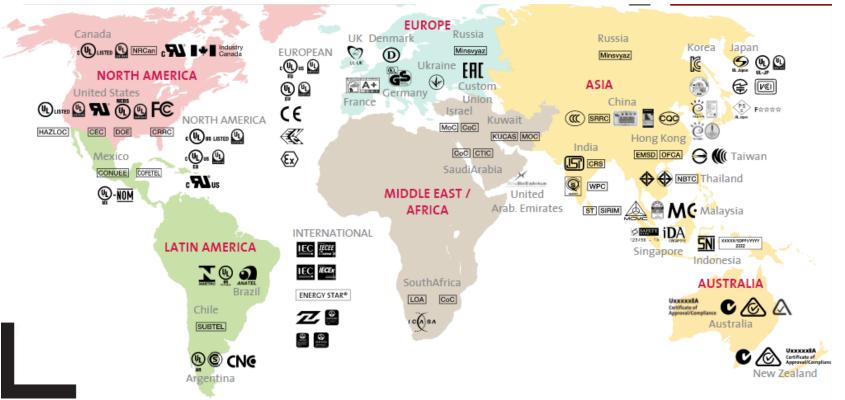
What is Global Market Access?

- Global Market Access (GMA) is meeting product compliance requirements of target markets into which you wish to enter.
- How Your Testing Labs and GMA Experts can help you approach the market access:



Global Market Access

Integrated solutions for safety, EMC, wireless and energy efficiency compliance



Regulatory Overview

- Most countries have a level of regulatory requirements
 - o Drivers:
 - Consumer demands or consumer protection
 - Economic status of the country
 - Trade barriers
 - o Wide range of Requirements:
 - No requirements
 - Extremely rigid products testing and certification regulations
- Regulatory requirements must be met to enable the placement of products on the country market

Knowledge is key – not knowing regulations will not equal forgiveness

Work with Your Test Lab and GMA teams

- Determine if any certifications are mandatory:
 - o Is safety certification mandatory?
 - o Is EMC/wireless certification mandatory?
 - Can we leverage module approval or is system level approval required?
 - Can we leverage existing testing?
 - What is the environment the product will be used in and is an approval mandatory in this situation?
 - Are environmental regulations mandatory?
 - Energy efficiency
 - Restricted substances
 - Electronic take-back programs







- Have a clear plan on when and where you are going to market the product!
- Define the Order of approval requirements.
- Think about the wider approvals requirements and possible acceptance of existing approvals documentation.



What is interoperability testing?

Let's start with a definition...

IOP can be defined as:

The ability of products, developed in isolation, to reliably connect and communicate with one another without specialized intervention.

Internet of Things – Interoperability

The mobile phone is the gateway to the Connectivity

- Connection technologies ٠
- More complex networks •
- Increased expectations ٠
- Higher consequences ٠
- Ever changing landscape •

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💋 zigbee	
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Why bother with interoperability? •Early problem detection •Less Call Centers traffic •Reduce customer returns •Brand Protection •Improves customer satisfaction •Increase profitability!



Thank you!

Questions?

Contact Information

Name: Paul Blackett Email: paul.blackett@ul.com Web: www.UL.com











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