



EASING MARKET ACCESS OF CONNECTED HOME SERVICES AND PRODUCTS

Going to market with your latest and greatest solution for the Smart Home market can be more complicated than expected. To succeed, you need a partner like 7layers, who truly understands the complex, sometimes conflicting requirements of an ever smarter world.

7layers, an international group of engineering & test centers, has been actively involved in the success of the mobile industry. As such we understand the importance of demands like connectivity, interoperability, system integration, etc. We support

- PROVIDERS OF SMART HOME SERVICES who want to connect smart devices to data platforms, thus offering an added value to their customers
- DEVICE MANUFACTURERS who enhance their devices with wireless connectivity and make them fit for the IoT

Being a wireless expert, 7layers has provided testing & certification of short range and cellular connected devices for years. With the development towards the IoT we are now also engaged in supporting the set-up of complete Smart Services. 7layers supports

- Technical Consulting
- Validation of Smart Services processes
- Device testing and global certification

As a Bureau Veritas Group company we also provide additional Quality, Health, Safety and Environmental services all over the world

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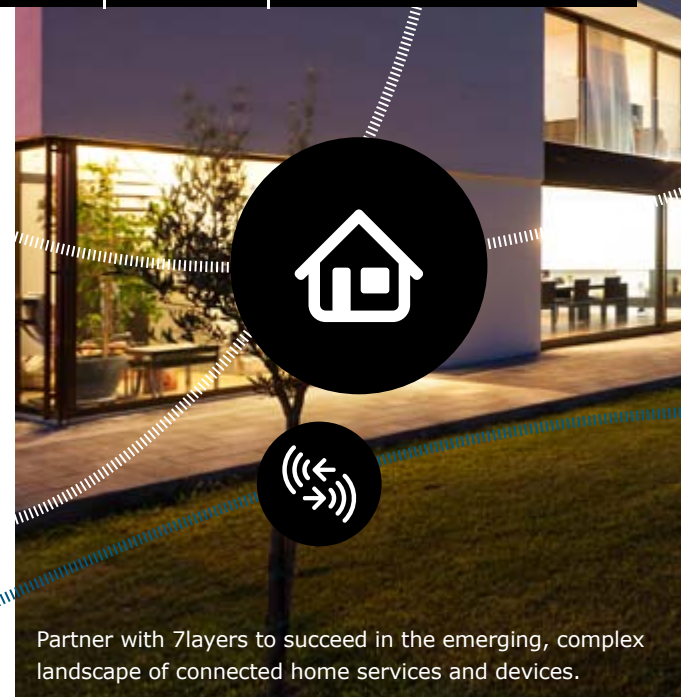
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7layers - testing for a smarter world

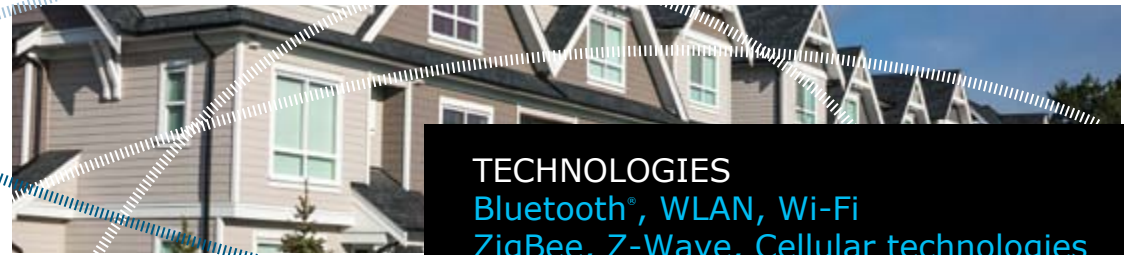
SMART HOME SOLUTIONS CONSULTING, ENGINEERING, MARKET ACCESS

Test House | Systems House | Software House

7layers - A Bureau Veritas Group Company



Partner with 7layers to succeed in the emerging, complex landscape of connected home services and devices.



TECHNOLOGIES
 Bluetooth®, WLAN, Wi-Fi
 ZigBee, Z-Wave, Cellular technologies

MEET CONNECTIVITY, INTEROPERABILITY, SECURITY AND QUALITY STANDARDS

LEVERAGE CONNECTED HOME TECHNOLOGY SKILLS

Technical standards for connected home devices and applications are currently fragmented and tend to lack interoperability. Unfortunately this can easily result in frustrated, dissatisfied consumers and failure of Smart Home solutions.

For years, 7layers has actively contributed to the development of radio technologies and their implementations. As such we are also involved in the connected home market.

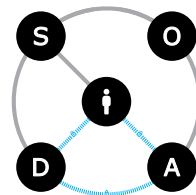
We work together with Smart Home industry interest groups, Smart Services providers, OEMs and module manufacturers to create standards that ensure a seamless, pleasing connected home experience. 7layers is member of various groups, driving connected home technologies such as the Bluetooth SIG, Thread, the Wi-Fi and ZigBee alliances.

For Smart Home services providers we develop evaluation methods for services set-ups, to enhance end2end functionality and usability.

As a wireless expert we are a specialist in Radio and EMC testing plus market access services for Smart Home devices.

ASSESSMENT OF SMART HOME SERVICES

Smart Home devices are often connected to IoT services platforms thus providing additional benefits to the user. These Smart Home services are based on the analysis of and reaction to data, transmitted by Smart Home devices. To make such services reliable and user friendly one has to understand the underlying processes, stakeholders and market requirements. To analyze such processes, 7Layers has developed its SODA® model:



- Connectivity
- Data Security
- Accountability
- Service Quality

www.7layers.com/SODA

Based on this model, we support the implementation of Smart Home solution with:

TECHNICAL CONSULTING: Requirements identification, technology consulting, benchmarking

ENGINEERING SERVICES: Development of test specifications, test set-ups, test programs

VALIDATION: End-to-end process validation, plus device testing and certification

MARKET ACCESS FOR SMART HOME DEVICES

PRODUCT DEVELOPMENT AND CONSULTING

- Market access consulting
- RF Consulting
 - Design review
 - Antenna optimization and OTA testing

TESTING

- Radio and EMC
- Antennas
- Electrical safety
- SAR
- Environmental testing
- Interoperability testing
- Benchmarking

CERTIFICATION SERVICES

- Global type approval services: RED, CE-marketing, FCC, ISED Canada ...
- Industry standards: Thread, LoRa, Bluetooth®, NFC, Qi, Wi-Fi, GCF, PTCRB, ...
- Network operator certifications: AT&T, Sigfox ...
- 3rd party certifications: MFi, Xfinity Home ...

