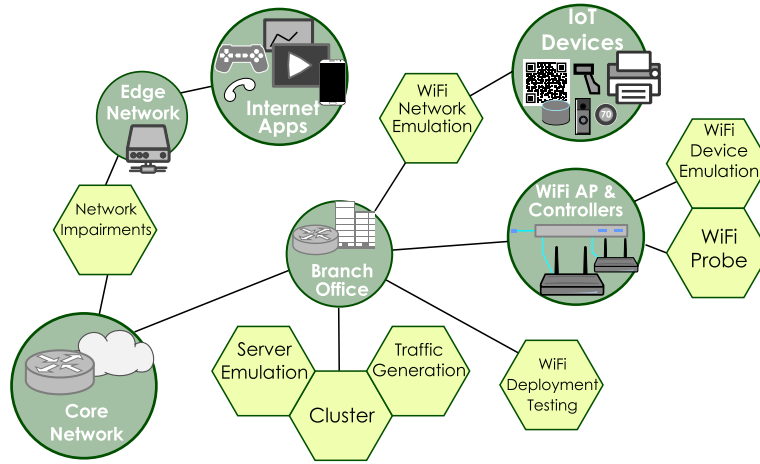
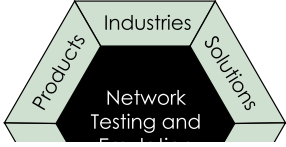


LANforge
Network Test Equipment

- Traffic Generation
- Network Emulation
- WiFi Performance
- IoT Device Test
- App Performance
- Core Network Load
- Automation
- Custom Testbeds



Introduction



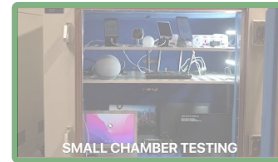
LANforge 5.4.9 Released!

Wi-Fi AP/Router Testing



3-stage Approach

Real Devices Testing



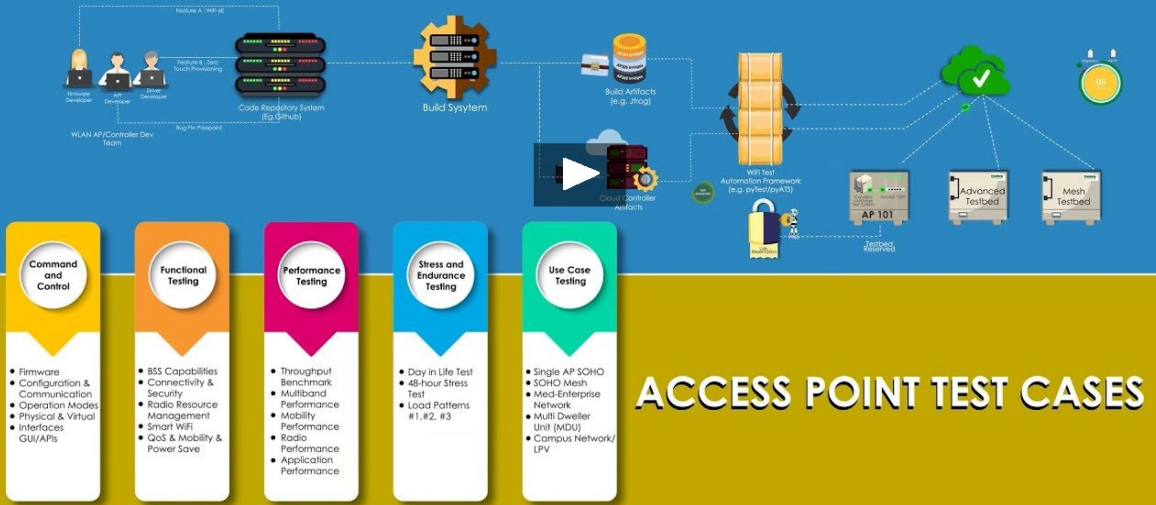
in 3 Stages

Home in Box



Stackable chambers





- Command and Control**
 - Firmware
 - Configuration & Communication
 - Operation Modes
 - Physical & Virtual
 - Interfaces GUI/APIs
- Functional Testing**
 - BSS Capabilities
 - Connectivity & Security
 - Radio Resource Management
 - Smart WiFi
 - QoS & Mobility & Power Save
- Performance Testing**
 - Throughput Benchmark
 - Multiband
 - Mobility Performance
 - Radio Performance
 - Application Performance
- Stress and Endurance Testing**
 - Day in Life Test
 - 48-hour Stress Test
 - Load Patterns #1, #2, #3
- Use Case Testing**
 - Single AP SOHO
 - SOHO Mesh
 - Mesh Enterprise Network
 - Multi Dweller Unit (MDU)
 - Campus Network/LPV

ACCESS POINT TEST CASES

TR-398 Wifi Testbed

The TR-398 test plan qualifies the performance of WiFi APs. Candela LANforge provides an automated solution.

Large Venue Wifi Testbed

Stadium networks handle thousands of users. Candela LANforge systems can do large scale over the air testing.

WiFi Mesh Testing

Emulate mesh node areas with isolation chambers while LANforge emulates clients stations. Use graphical controls to emulate physical distance.

Mass Transit WiFi Mesh

Test WiFi coverage for a transportation system. LANforge emulates hundreds of roaming users in small spaces for long duration.

Testing Internet Gaming

Isolate and test one network variable at a time, all emulated by LANforge: RF stability, RF performance, and upstream network conditions.



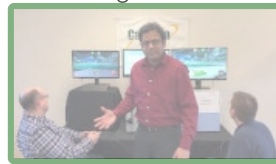
CI/CD Pipeline



TR-398 Demo



Gaming Test Demo



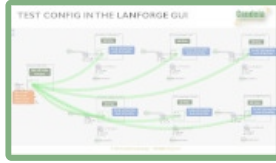
WiFi Mesh Test Demo



Transportation Demo



Inflight Entertainment



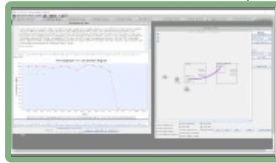
Access Point Testbed



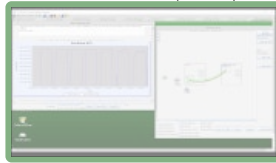
WiFi AP Dataplane



AP Receiver Sensitivity



AP Client Capacity



AP Rate vs Range



Access Point Roaming



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