

Smart Connectivity Test Automation (SCoTA)

The Testing Challenge Today

Traditional connectivity testing is slow, costly, and lacks adaptability.

As connected systems evolve with IoT, WiFi 6/7, 5G, and multi-device networks, manual or rule-based test automation can no longer keep up — failing to detect real-world issues or adapt to dynamic environments.

Current challenges include:

- ✓ Device diversity:
- ✓ Dynamic environments:
- ✓ High testing time and cost:
- ✓ Poor anomaly detection:

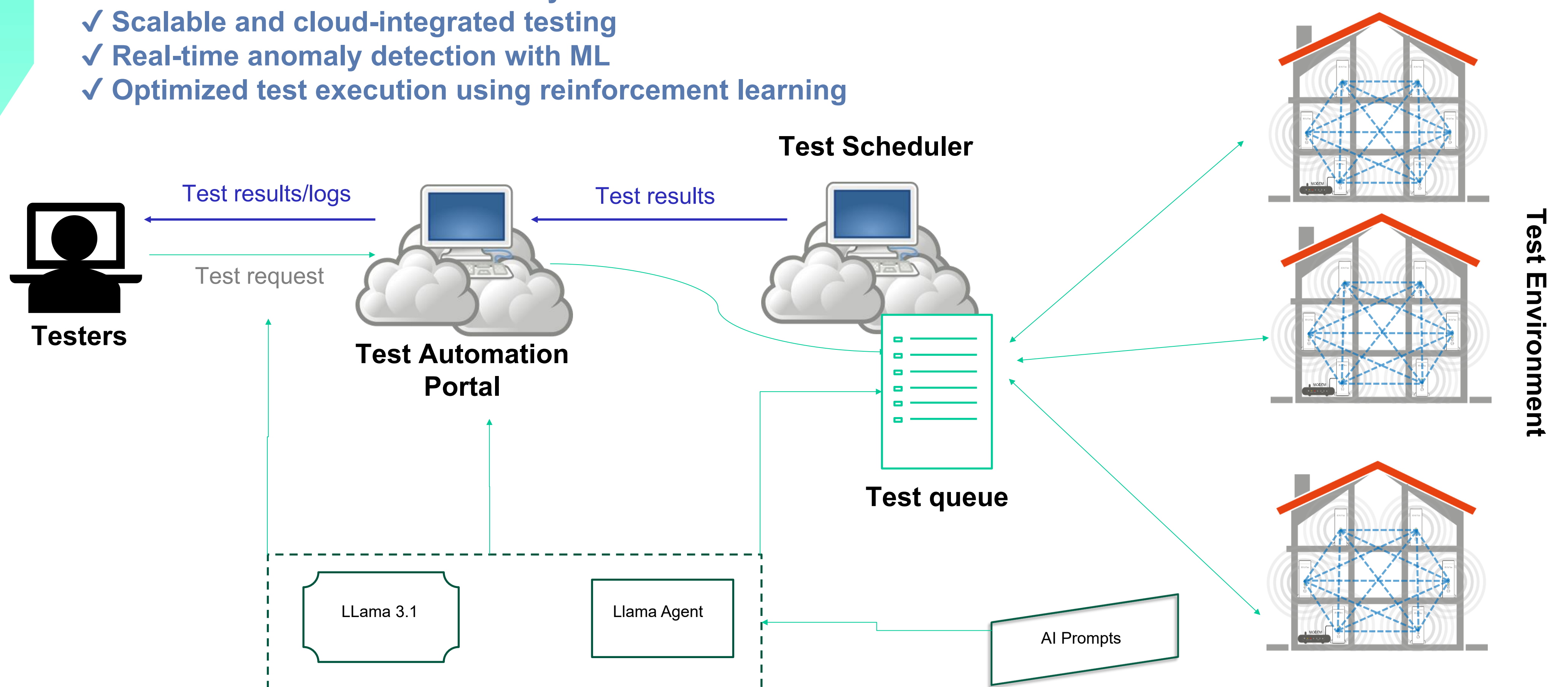
Solution: AI-Driven Test Automation with SCoTA

We propose an AI-powered, adaptive test automation platform designed for modern connectivity environments — including WiFi, IoT, 5G, and multi-device edge networks.

SCoTA dynamically adjusts to real-time configurations, learns device behaviors, and optimizes test execution using machine learning and feedback loops.

Key Innovations:

- ✓ AI-driven dynamic test case generation
- ✓ Automated device behavior analysis
- ✓ Scalable and cloud-integrated testing
- ✓ Real-time anomaly detection with ML
- ✓ Optimized test execution using reinforcement learning



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