CELTIC-NEXT Proposers Brokerage Day

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Pitch of the Project Proposal

Smart Connectivity Test Automation (SCoTA)

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Teaser

Main Benefit:

Smarter, faster, and more relevant test cycles for connected products.
By applying AI-driven decision mechanisms, the SCoTA platform enables highly efficient test execution — minimizing redundant efforts and accelerating time-to-market for connectivity solutions.

Added Value:

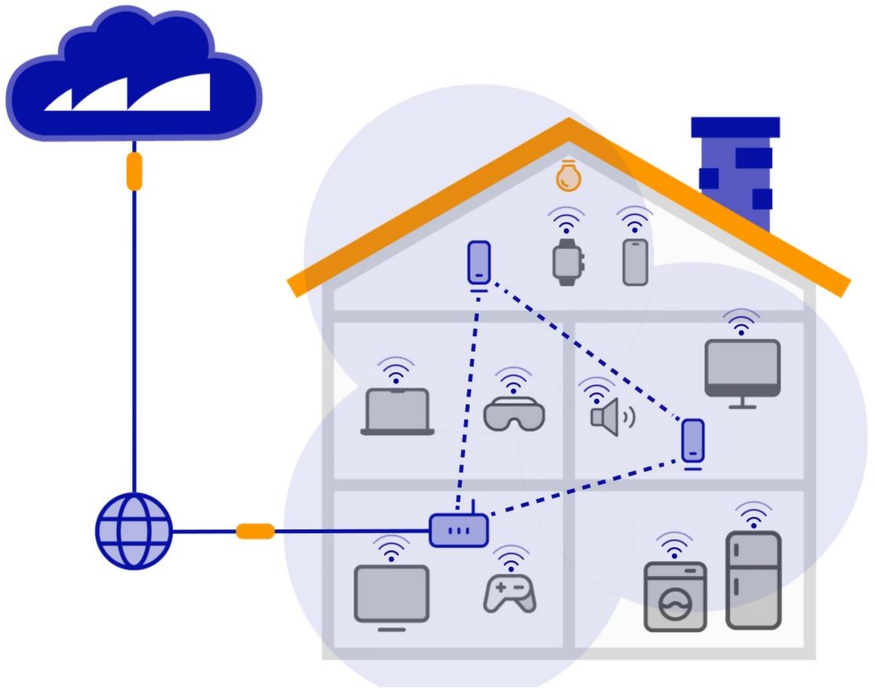
•AI-powered test selection and generation
•Reduced manual effort in test maintenance
•Automated adaptation to hardware/software variations
•Real validation on operator-grade testbeds
•Scalable framework applicable to WiFi, IoT, and telecom domains
•Contribution to emerging industry standards and best practices

Why Participate?

- Shape the next generation of test automation for smart connectivity devices
- Reduce test costs and increase product reliability through intelligent automation
- Gain access to state-of-the-art AI research and implementation

Organisation Profile

- Airties provides managed Wi-Fi solutions for the Tier 1 Internet Service Providers (ISPs) across the globe.
- Currently, Airties integrates into and remotely manages more than 35 million home Gateways mostly in USA and Europe.
- Airties' SW solutions optimize Wi-Fi connections and home networks, leading optimized user experience.
- Airties utilizes AI-powered methods for optimization of home networks.



Proposal Introduction (1)

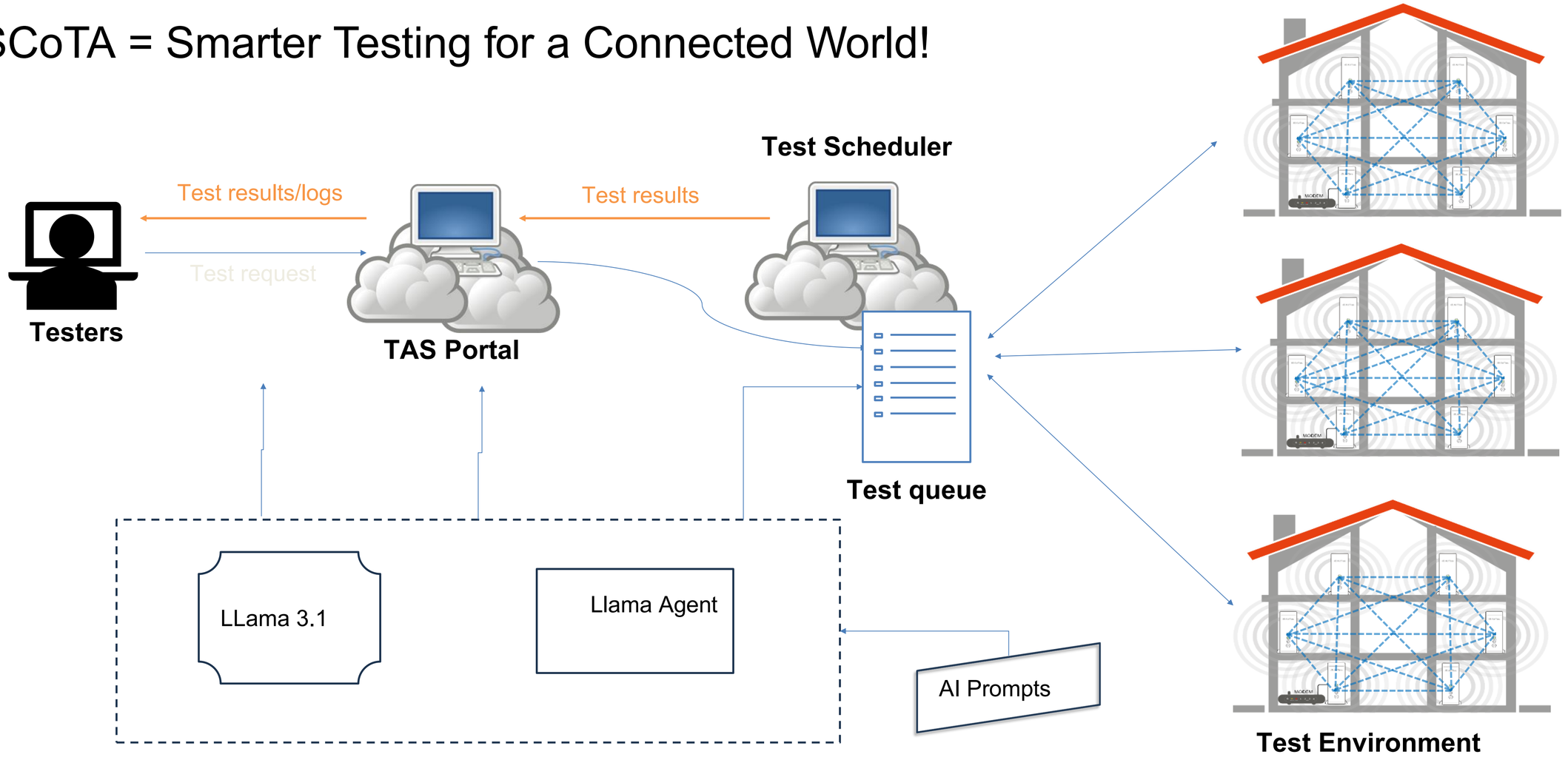
Vision:
To enable intelligent, adaptive, and efficient test automation for all types of network-connected products.
The project envisions an AI-powered testing ecosystem that dynamically aligns with evolving product features and real-world usage conditions.

Motivation:
Traditional test automation is static, time-consuming, and often misaligned with changing product needs.
There is an urgent need for smart, flexible, and scalable solutions that reduce testing effort while improving coverage and product quality.

Content & Key Features:
SCoTA will deliver an AI-driven platform that automates test selection, generation, and execution across diverse connectivity devices and environments.
Key features include requirement-based scenario generation, setup-aware test adaptation, and integration with industry-grade test frameworks and toolchains.

Proposal Introduction (2)

SCoTA = Smarter Testing for a Connected World!



Proposal Introduction (3)

Expected Outcomes:

- A reusable and extensible test automation framework tailored for connected devices
- AI models for test selection, prioritization, and scenario generation
- Automatic test adaptation based on testbed configurations and device types
- Demonstrated efficiency gains: reduced test time, increased test relevance, and lower maintenance effort
- Integration with DevOps pipelines, test management tools, and operator-grade environments

Impacts:

- Accelerates the **time-to-market** for connectivity solutions by reducing testing bottlenecks
- Improves product **quality and reliability** through smarter and more targeted testing
- Reduces **operational testing costs** by minimizing redundant test executions
- Supports **standardization and interoperability** efforts across networked devices

Proposal Introduction (4)

Project Timeline (36 Months)

Phase	Timeline	Key Activities
Phase 1: Setup & Design	Months 1–6	Project kickoff, use-case analysis, AI & framework architecture planning
Phase 2: Core Development	Months 7–18	AI model development, test framework implementation, first prototypes
Phase 3: Integration & Validation	Months 19–30	Real testbed integration, AI refinement, system validation & feedback
Phase 4: Exploitation & Finalization	Months 31–36	Final demos, business plan, standardization input, project closure

Partners

airties

Managed Wi-Fi Solutions

Existing Consortium & Partner Collaboration

- TR consortium is full

Looking for partners with expertise in:

•**Telecom Operators / Test Labs**
with real-world test environments and interest in validating smart test automation platforms.
•**IoT / Connectivity Device Vendors**
offering complex, heterogeneous devices (e.g., smart hubs, edge routers, industrial IoT) for integration and test scenario diversity.
•**Standardization & Exploitation Experts**
who can help align the platform with industry standards (e.g., ETSI, Broadband Forum) and explore commercialization opportunities.

Contact Info

For more information and for interest to participate please contact:

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**Presentation is available **