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INOVAMESH – ELEVATOR PITCH - WEBSUMMIT 2025

ZERO TRUST NETWORKING FOR THE POST-VPN ERA
FEATURES, USE CASES, BUSINESS MODEL

SEPT 2025

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- InovaMesh solution at a glance

- Features and benefits

- Real-world use cases

- Business model

In addition ..

- Overview of SaaS Platform

- InovaMesh project Partners

- In-depth documentation on InovaMesh

For the latest version of this presentation visit https://www.inovamesh.cloud/documents.html

INOVAMESH – SOLUTION OVERVIEW

InovaMesh is a next-generation **ZTNA/ZTC platform** delivered as a **SaaS solution on AWS**.

It enables organisations to:

- Build **secure (encrypted, mutually authenticated and hidden), flexible mesh networks** connecting devices

- Manage **multiple customers and meshes** from a single cloud dashboard

- Use DYNOC, our patent pending orchestrator (IT #102023000017760), for dynamic topology and device configuration.

- Ensure private, peer-to-peer tunnels fully isolated from external access — even the platform itself.

- Support any protocol (TCP, UDP, ICMP) securely across the mesh.

- Protect all traffic with end-to-end, quantum-resistant encryption.

INOVAMESH – KEY FEATURES & BENEFITS

- **Zero Trust by design:** Eliminates implicit trust and lateral movement through software-defined micro-perimeters.

- SaaS simplicity: **Installs in minutes — no network changes required**.

- VPN replacement: Stronger security**, easier management**, and **lower cost**.

- Crypto agility: Modern, **high-performance, quantum-resistant protocols**.

- Granular control: **Built-in firewall** with per-IP, service, and port policies.

- Developer-ready: **Go SDK** for custom development across any OS or hardware.

- Complete visibility: Local and cloud event logging via ELK for full auditing.

INOVAMESH – REAL-WORLD USE CASES

Typical use cases for InovaMesh are described in detail in the documentation section. Some examples are listed below:

- **IoT Security:** Connect and protect fleets of remote or headless devices across enterprise networks.

- **Remote Systems:** Enable secure, invisible communication between distributed applications — even behind private networks.

- **Legacy Systems Isolation:** Isolate and safeguard POS, PLCs, or other unmodifiable systems with traffic anonymization.

- **Zero Trust Access:** Control remote access using strict least-privilege policies.

- **Cloud Protection:** Add isolation and access control for public or hybrid cloud environments.

- **Application Segmentation:** Microsegment app layers — front-end, APIs, databases — to contain breaches.

INOVAMESH – OUR BUSINESS MODEL

InovaMesh is a mature, ready-to-market technology (TRL 8).
We **focus on product development** and technical innovation — and **invite partners to lead market expansion**.

Partnership Options we consider:
1. Exclusive SaaS Distributor
   - Obtain exclusive rights to market, sell, and support InovaMesh as a cloud service.
   - We handle platform maintenance and evolution and L2/L3 support.
2. Full Solution Acquisition
   - Acquire the complete solution — software, platform, patents, and IP.
   - Ideal for organisations wanting complete control and integration.
3. Proprietary Implementation License
   - Implement InovaMesh as part of your own products and solutions.
   - Flexible purchase and licensing options, or gradual acquisition paths.
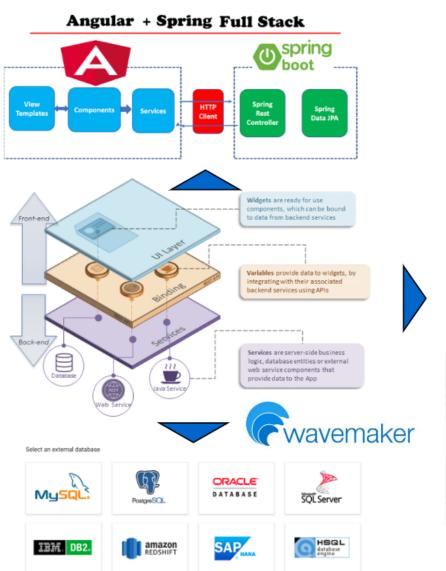
Investment Opportunities:
We consider financing or strategic partnerships to expand global reach and commercialization.

INOVAMESH - THE SW DEVELOPMENT ARCHITECTURE

Cloud-native architecture

InovaMesh is built on a modern, resource-optimized software environment. We adopted the **WaveMaker platform**, which delivers enterprise-grade solutions. Its architecture is designed **with a secure-by-design** approach and **VeraCode-certified Java Spring code**. This ensures high availability and native application scaling, leveraging Angular, Java Spring, and a Hibernate layer for DB independence.
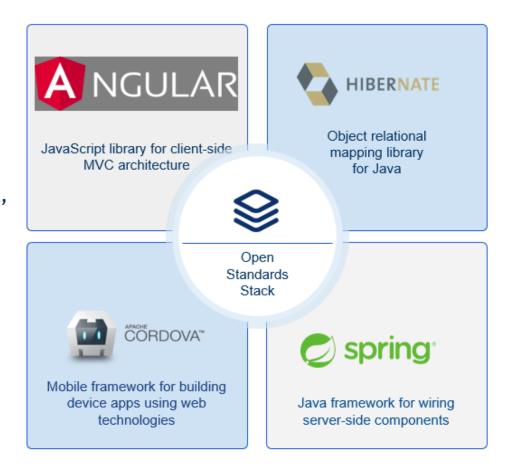
INOVAMESH - THE SW DEVELOPMENT ARCHITECTURE

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Open Technology Stack

The adoption of the WaveMaker platform made it possible for InovaMesh to be built using an **open-standards** technology stack, **without any lock-in** to vendor-specific software frameworks. This allows, alongside the main SaaS version, the **customization** and deployment of InovaMesh on partner platforms.

ANGULAR

JavaScript library for client-side MVC architecture

HIBERNATE

Object relational mapping library for Java

Open Standards Stack

APACHE CORDOVA™

Mobile framework for building device apps using web technologies

spring

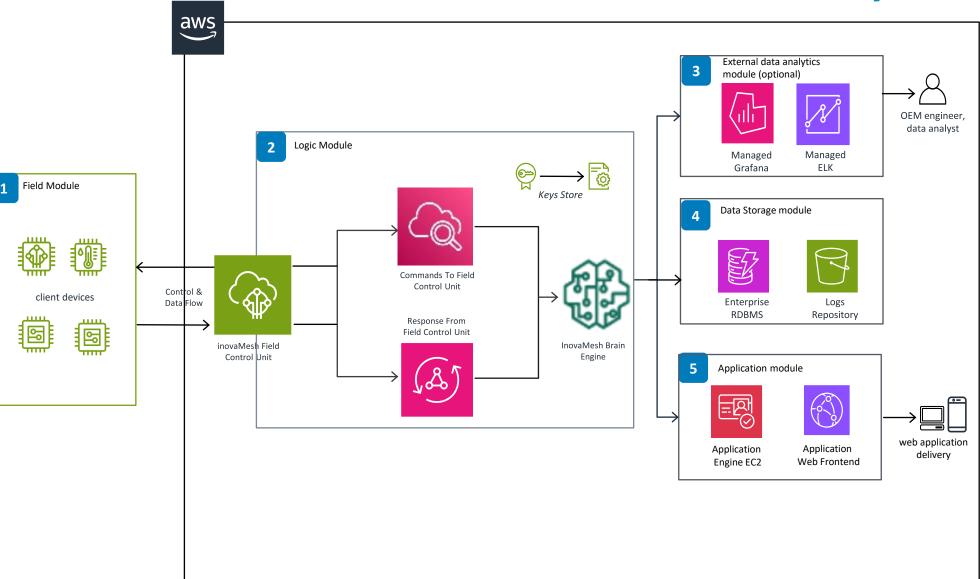Java framework for wiring server-side components

1.Front-end: Angular for user interface, data binding and events. Bootstrap provides responsive layouts for various form factors

2.Object Relational Mapping (ORM): Hibernate and JPA provide standards based ORM layer and Entity model for database interaction and indipendence

3.Back-end Services: Spring framework provides the back-end service layer in Java with support for dependency injection, REST controllers, security etc.

4.Hybrid Mobile: Cordova framework is used for enabling access to mobile device features and native installer creation using the appropriate SDKs.

INOVAMESH - THE CLOUD SAAS ARCHITECTURE

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Native SaaS Cloud Solution

InovaMesh is a cloud-native application built with advanced Amazon AWS services to ensure resilience, reliability, and compliance with leading security certifications.
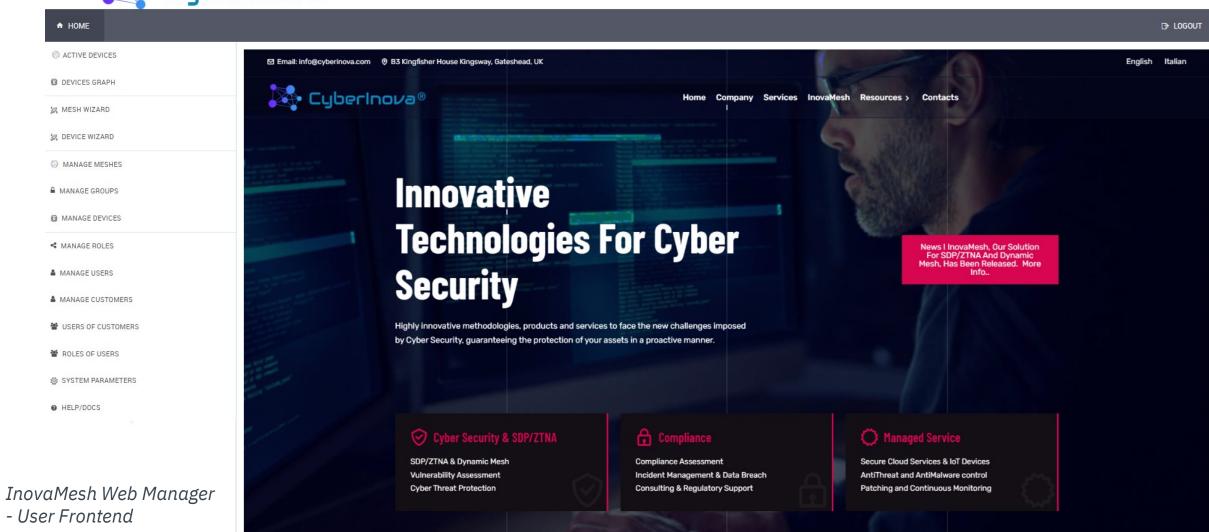

aws

1 Field Module

client devices

Control & Data Flow

inovaMesh Field Control Unit

2 Logic Module

Commands To Field Control Unit

Response From Field Control Unit

Keys Store

InovaMesh Brain Engine

3 External data analytics module (optional)

Managed Grafana

Managed ELK

OEM engineer, data analyst

4 Data Storage module

Enterprise RDBMS

Logs Repository

5 Application module

Application Engine EC2

Application Web Frontend

web application delivery

INOVAMESH - THE MULTI-CUSTOMER SAAS WEB MANAGER

InovaMesh Web Manager - User Frontend

INOVAMESH – A MULTI-CUSTOMER SAAS APPLICATION

InovaMesh Web Manager – A multi-customer, multi-mesh SaaS application that provides complete management of customers, users, user roles, customer meshes, mesh security policies. More, customer-specific visibility on their meshes and devices.
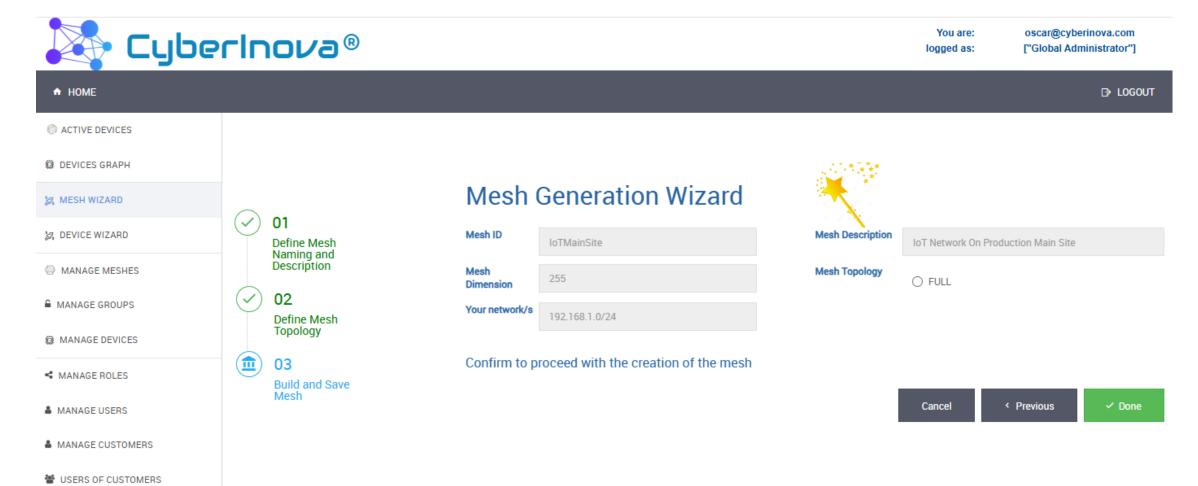
INOVAMESH – MESH MADE SIMPLE BY WIZARDS

InovaMesh Web Manager – The Mesh wizard for automatic generation of mesh ...

INOVAMESH – MESH MADE SIMPLE BY WIZARDS
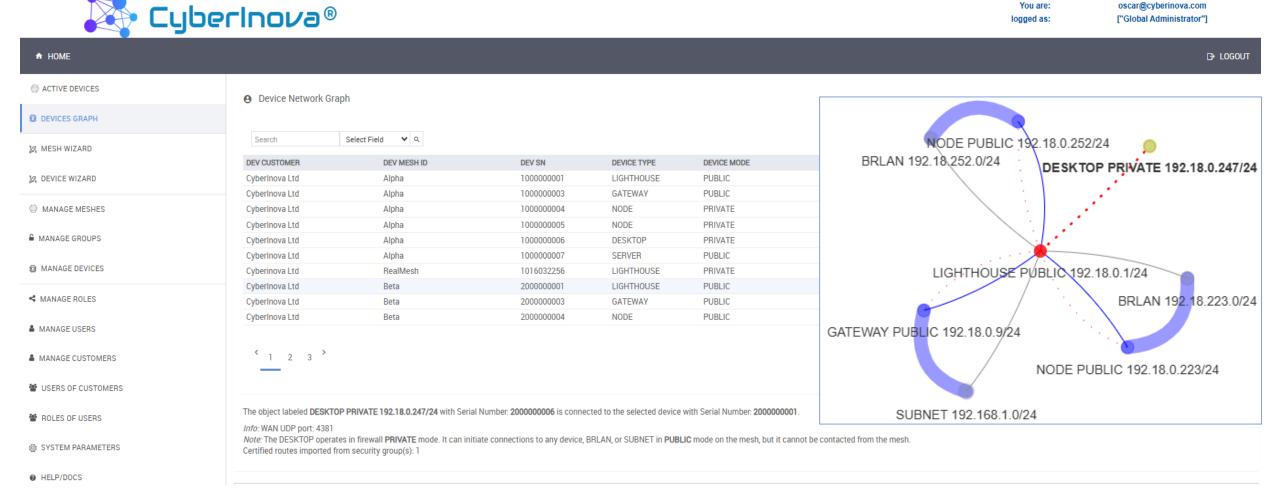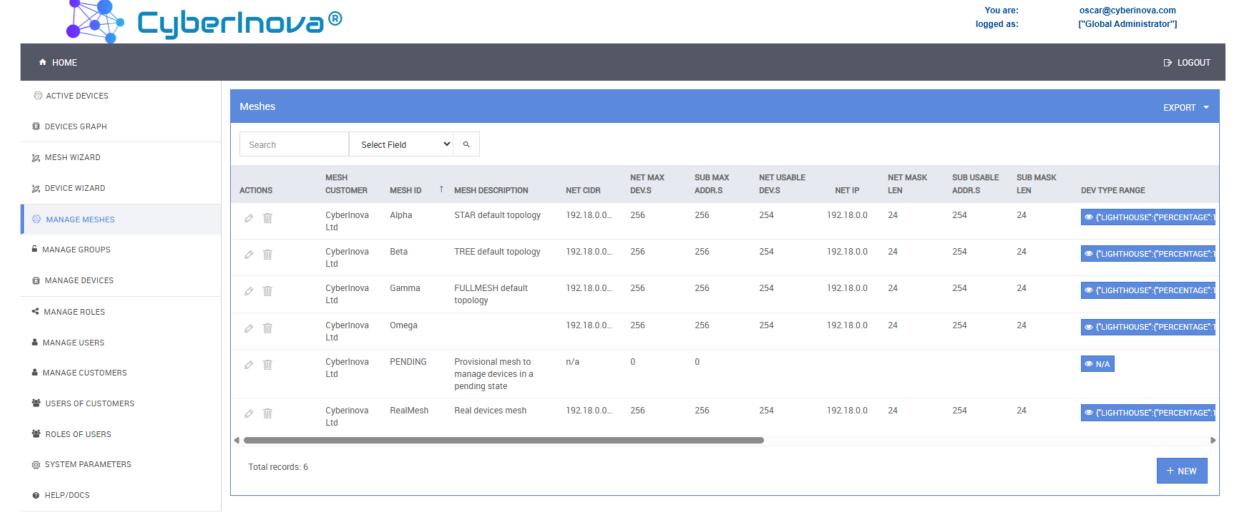

InovaMesh Web Manager – The Mesh Wizard for automatic mesh generation: with just a few inputs, InovaMesh creates a new mesh for you. This includes all necessary services, security policies, and configurations based on the selected topology. A similar wizard is available for device registration.

INOVAMESH – MESH CLARITY THROUGH CONNECTIONS GRAPH

InovaMesh Web Manager – Device graph with detailed information about the device as resulting from its configuration, its connections within the mesh and its relationships to other devices.

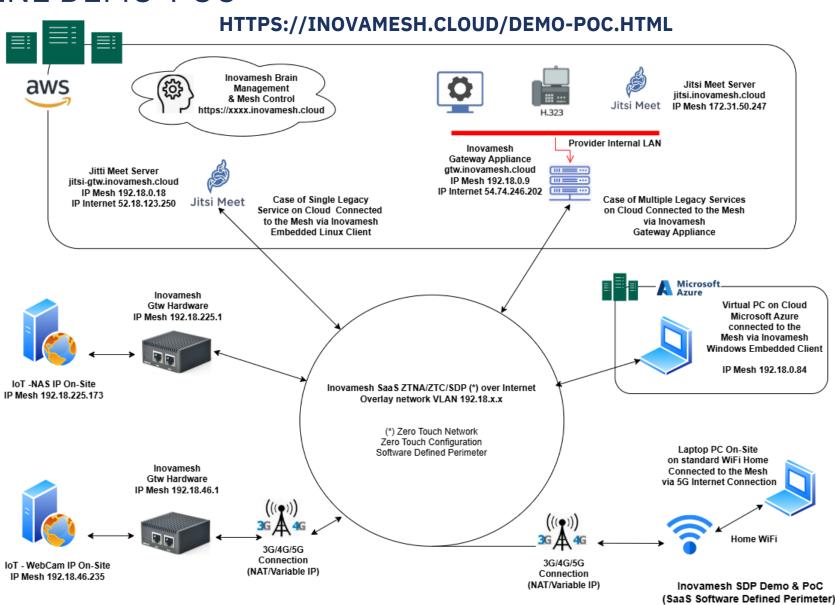# INOVAMESH – MESH AND DEVICE ARE OBJECT DEFINED ON DBMS

InovaMesh Web Manager – Whether created through a wizard or manually, both meshes and devices are simple object definitions in the InovaMesh database, where you can refine configurations or create them from scratch. As a result, devices are remotely configured through AWS IoT Core without requiring any local configuration on them.

INOVAMESH – ONLINE DEMO-POC

Proof Of Concepts

For understanding the InovaMesh platform and performing realistic demonstration activities, we maintain an online PoC environment showcasing some of the solution's key features.

HTTPS://INOVAMESH.CLOUD/DEMO-POC.HTML

INOVAMESH – IN-DEPTH DOCUMENTATION

Detailed information is available on the Documents page of the InovaMesh.Cloud website, where a permanent SaaS Demo & PoC is hosted. A summary of the documents is provided below:

👉 Inovamesh® Broshure.
👉 Inovamesh® At a Glance.
👉 Inovamesh® Overview.
👉 Inovamesh® Use Cases.

Upon request for further technical analysis, detailed Inovamesh® documents can be made available, as listed below.

👉 Inovamesh® Concepts and Architectures.
👉 Inovamesh® White Paper and Topologies.
👉 Inovamesh® Security Features, Cryptographic Protocols and Certificate Management.

INOVAMESH BY CYBERINOVA LTD – PROJECT PARTNERS

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Cyber Security Innovation
Gateshead (UK)

Cloud Technologies

Algorime®
Cloud Technologies for Startups
and Enterprises – AWS® partner
Ravenna (IT)

Plumma.
Software for Digital Solutions
Wavemaker® Competence Center
Bologna (IT)

AWS® is a registered trademark of Amazon Web Services Inc.
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Algorime Srl is a Cloud Service Provider focused on developing Cloud-Native architectures and services that drive the technological evolution of IT companies seeking the Cloud as the ideal platform for their Applications as a Service (PaaS platforms and SaaS solutions).
Alongside this transformation, which extends beyond technology into native Cloud Engineering, we also address needs by ensuring cloud delivery meets the highest standards of compliance.

Algorime's contribution to the InovaMesh project was the complete redesign and implementation of a traditional on-premise networking solution as a fully cloud native architecture on AWS, ensuring modern scalability and reliability by leveraging industry best practices.

Here's more info about Algorime Srl.

PARTNERS – WWW.PLUMMA.IT

Plumma Srl supported Cyberinova Ltd in accelerating the InovaMesh ZTNA platform development by not only leveraging WaveMaker's low-code capabilities but also by driving the full-stack development of its secure network access features, including backend services, API integrations, and real-time access controls.

Plumma's team ensured rapid prototyping while maintaining enterprise-grade security and scalability, helping bring the platform to market faster.

Here's more info about Plumma Srl.

THANKS FOR YOUR ATTENTION

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