



CyberInova®

INOVAMESH – ELEVATOR PITCH - WEBSUMMIT 2025

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

SEPT 2025

CONTENTS

- 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.

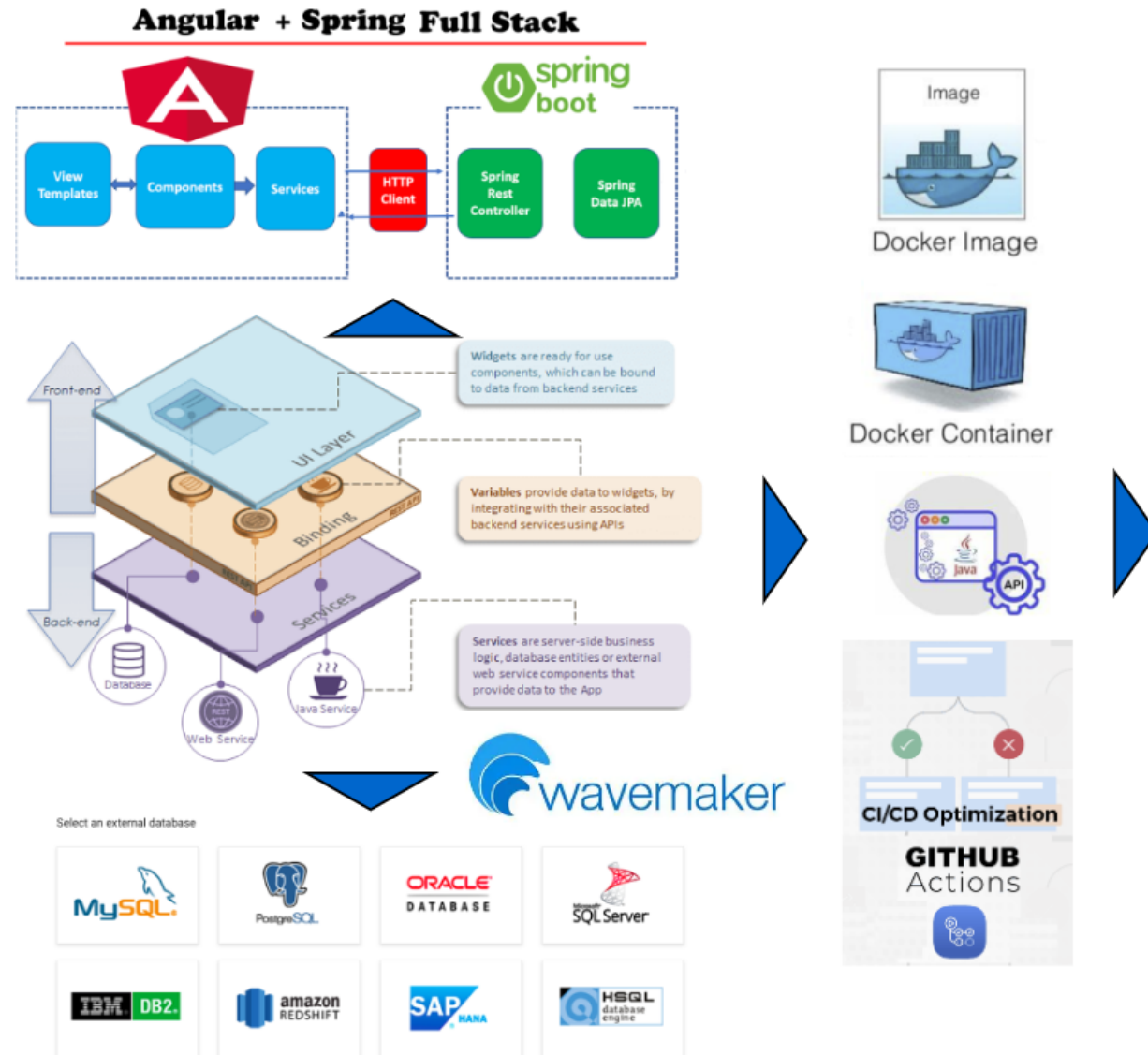
Investment Opportunities:

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.

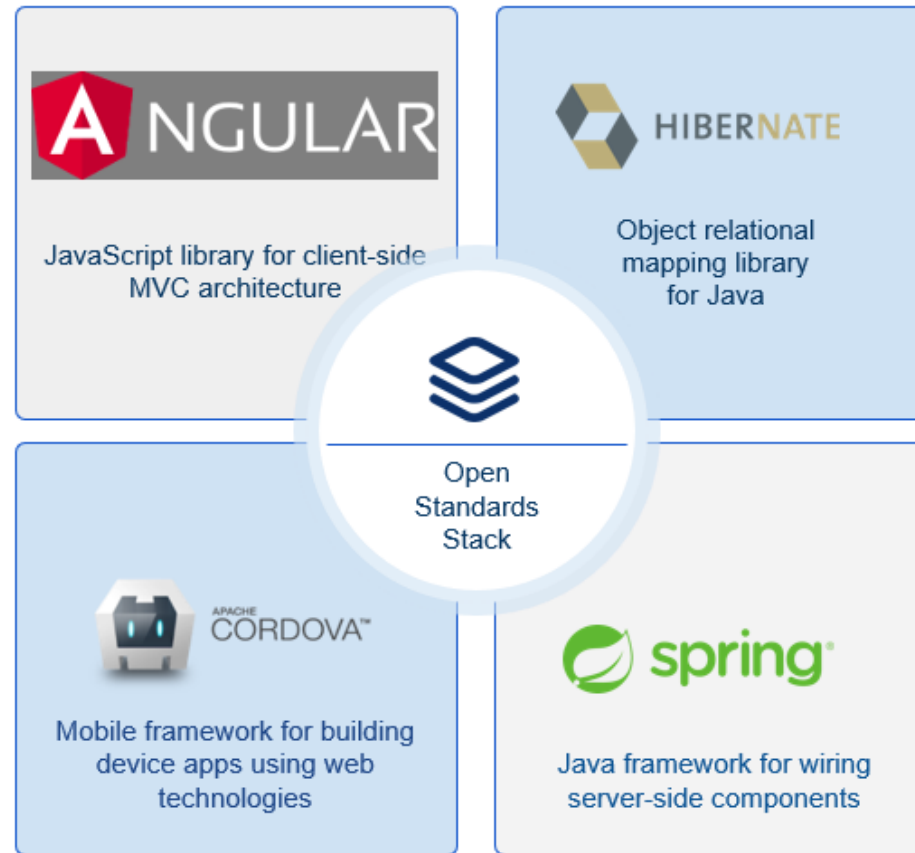


INOVAMESH - THE SW DEVELOPMENT ARCHITECTURE



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.



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 independence

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

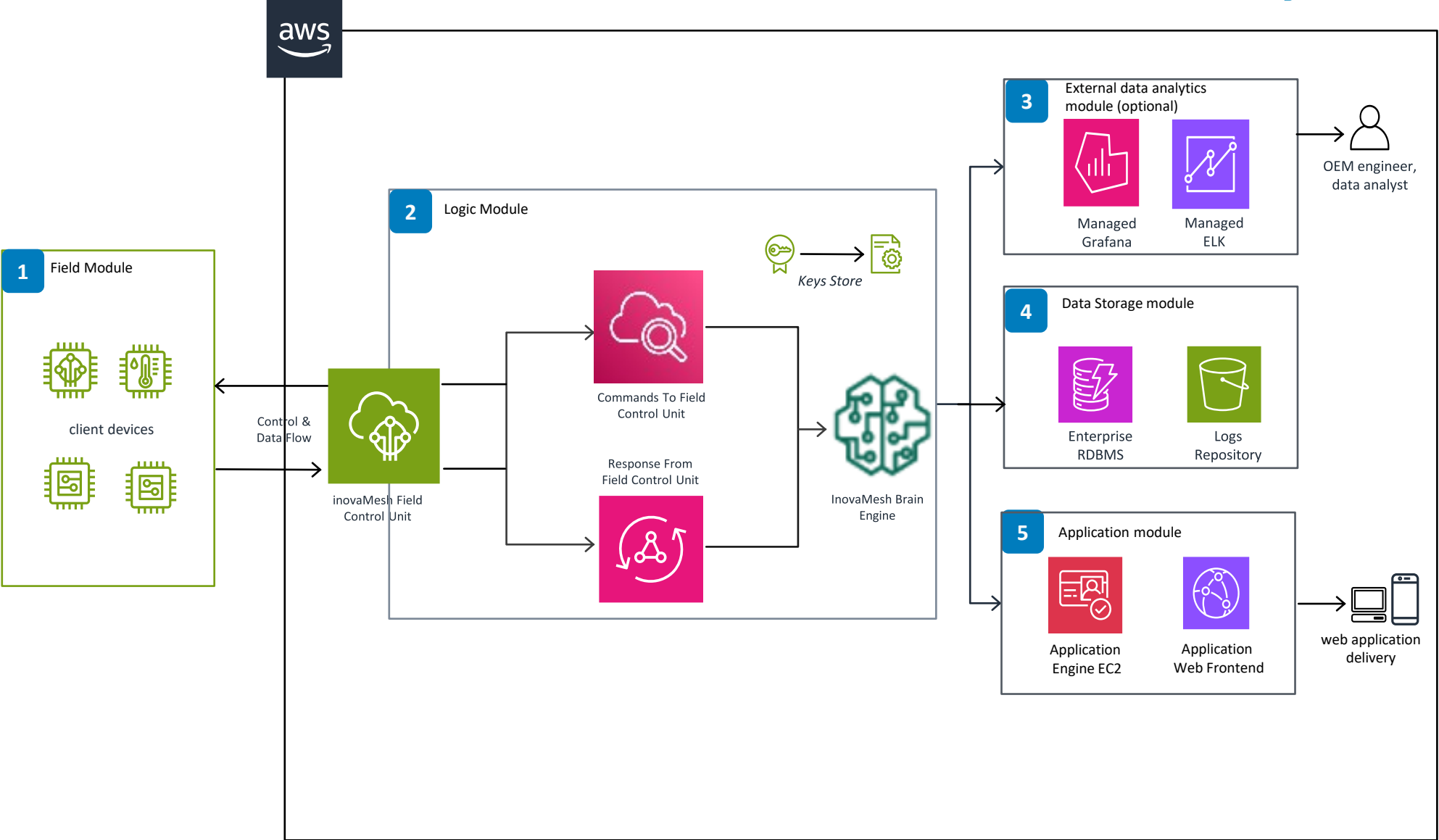
4. Hybrid Mobile: Cordova framework is used for enabling access to mobile device features and native installer creation using the appropriate SDKs.

INOVAMESH - THE CLOUD SAAS ARCHITECTURE



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.



INOVAMESH - THE MULTI-CUSTOMER SAAS WEB MANAGER



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HOME

LOGOUT

ACTIVE DEVICES

DEVICES GRAPH

MESH WIZARD

DEVICE WIZARD

MANAGE MESHES

MANAGE GROUPS

MANAGE DEVICES

MANAGE ROLES

MANAGE USERS

MANAGE CUSTOMERS

USERS OF CUSTOMERS

ROLES OF USERS

SYSTEM PARAMETERS

HELP/DOCS

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English Italian



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Innovative Technologies For Cyber Security

Highly innovative methodologies, products and services to face the new challenges imposed by Cyber Security, guaranteeing the protection of your assets in a proactive manner.

News | InovaMesh, Our Solution For SDP/ZTNA And Dynamic Mesh, Has Been Released. More Info..

Cyber Security & SDP/ZTNA

SDP/ZTNA & Dynamic Mesh
Vulnerability Assessment
Cyber Threat Protection

Compliance


Compliance Assessment
Incident Management & Data Breach
Consulting & Regulatory Support

Managed Service

Secure Cloud Services & IoT Devices
AntiThreat and AntiMalware control
Patching and Continuous Monitoring

InovaMesh Web Manager
- User Frontend

INOVAMESH – A MULTI-CUSTOMER SAAS APPLICATION

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SYSTEM PARAMETERS

HELP/DOCS













Users of Customers

EXPORT

Search

Select Field

Q


ACTIONS	CUSTOMER	DESCRIPTION	FIRSTNAME	LASTNAME	USER ID
 	Customer Demo	Customer Demo	Customer	Demo	admin.customer.demo
 	CyberInova Ltd	CyberInova Ltd	CyberInova	Ltd	ettore@cyberinova.com
 	Customer Demo	Customer Demo	Customer	Demo	global.admin
 	CyberInova Ltd	CyberInova Ltd	CyberInova	Ltd	oscar@cyberinova.com
 	CyberInova Ltd	CyberInova Ltd	CyberInova	Ltd	sal@cyberinova.com
 	Customer Demo	Customer Demo	Customer	Demo	user.customer.demo

Total records: 6

+ NEW

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



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HELP/DOCS

01
Define Mesh
Naming and
Description

02
Define Mesh
Topology

03
Build and Save
Mesh

Mesh Topology

☒ FULL

☐ STAR

☐ TREE

Gateway Device

If your mesh will need gateway functionality to reach other yours sub-network/s you need to declare below these sub-network/s with comma separed CIDR notation (192.168.0.0/24 , 172.16.0.0/16, ecc...)

Your network/s

192.168.1.0/24

FULL



STAR



TREE




Cancel

< Previous

Next >

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

INOVAMESH – MESH MADE SIMPLE BY WIZARDS

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HELP/DOCS

01
Define Mesh
Naming and
Description

02
Define Mesh
Topology

03
Build and Save
Mesh

Mesh Generation Wizard

Mesh ID

IoTMainSite

Mesh
Dimension

255

Your network/s

192.168.1.0/24

Mesh Description

IoT Network On Production Main Site

Mesh Topology

☐ FULL

Confirm to proceed with the creation of the mesh

Cancel

< Previous

✓ Done

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



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ROLES OF USERS

SYSTEM PARAMETERS

HELP/DOCS

Device Network Graph

Search Select Field

DEV CUSTOMER	DEV MESH ID	DEV SN	DEVICE TYPE	DEVICE MODE
CyberInova Ltd	Alpha	1000000001	LIGHTHOUSE	PUBLIC
CyberInova Ltd	Alpha	1000000003	GATEWAY	PUBLIC
CyberInova Ltd	Alpha	1000000004	NODE	PRIVATE
CyberInova Ltd	Alpha	1000000005	NODE	PRIVATE
CyberInova Ltd	Alpha	1000000006	DESKTOP	PRIVATE
CyberInova Ltd	Alpha	1000000007	SERVER	PUBLIC
CyberInova Ltd	RealMesh	1016032256	LIGHTHOUSE	PRIVATE
CyberInova Ltd	Beta	2000000001	LIGHTHOUSE	PUBLIC
CyberInova Ltd	Beta	2000000003	GATEWAY	PUBLIC
CyberInova Ltd	Beta	2000000004	NODE	PUBLIC

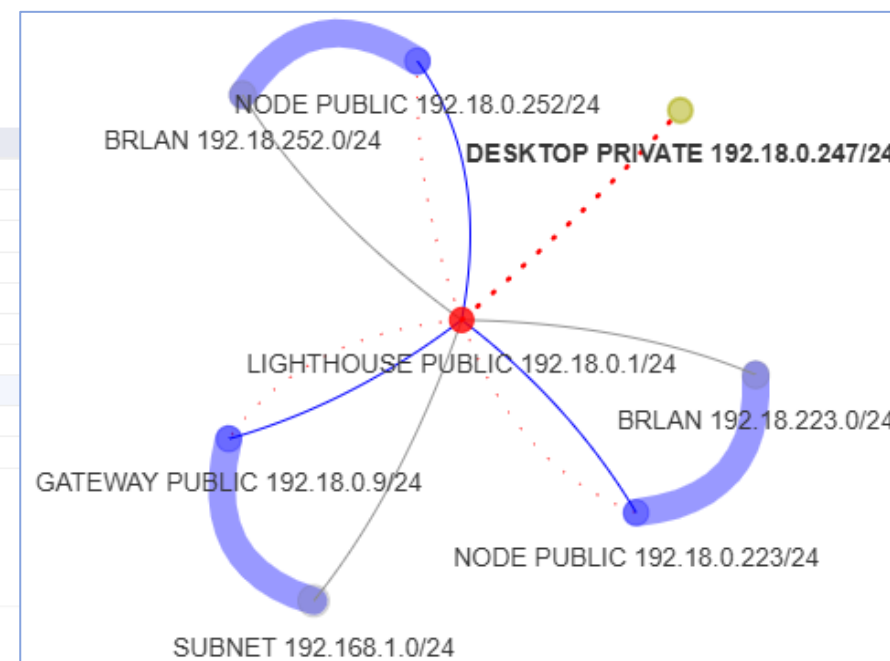
< 1 2 3 >

The object labeled **DESKTOP PRIVATE 192.18.0.247/24** with Serial Number: **2000000006** is connected to the selected device with Serial Number: **2000000001**.

Info: WAN UDP port: 4381

Note: The DESKTOP operates in firewall **PRIVATE** mode. It can initiate connections to any device, BRLAN, or SUBNET in **PUBLIC** mode on the mesh, but it cannot be contacted from the mesh.

Certified routes imported from security group(s): 1



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



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Meshes

EXPORT

Search

Select Field



ACTIONS	MESH CUSTOMER	MESH ID	MESH DESCRIPTION	NET CIDR	NET MAX DEV.S	SUB MAX ADDR.S	NET USABLE DEV.S	NET IP	NET MASK LEN	SUB USABLE ADDR.S	SUB MASK LEN	DEV TYPE RANGE
	CyberInova Ltd	Alpha	STAR default topology	192.18.0.0...	256	256	254	192.18.0.0	24	254	24	("LIGHHOUSE";{"PERCENTAGE":1
	CyberInova Ltd	Beta	TREE default topology	192.18.0.0...	256	256	254	192.18.0.0	24	254	24	("LIGHHOUSE";{"PERCENTAGE":1
	CyberInova Ltd	Gamma	FULLMESH default topology	192.18.0.0...	256	256	254	192.18.0.0	24	254	24	("LIGHHOUSE";{"PERCENTAGE":1
	CyberInova Ltd	Omega		192.18.0.0...	256	256	254	192.18.0.0	24	254	24	("LIGHHOUSE";{"PERCENTAGE":1
	CyberInova Ltd	PENDING	Provisional mesh to manage devices in a pending state	n/a	0	0						N/A
	CyberInova Ltd	RealMesh	Real devices mesh	192.18.0.0...	256	256	254	192.18.0.0	24	254	24	("LIGHHOUSE";{"PERCENTAGE":1

Total records: 6

+ NEW

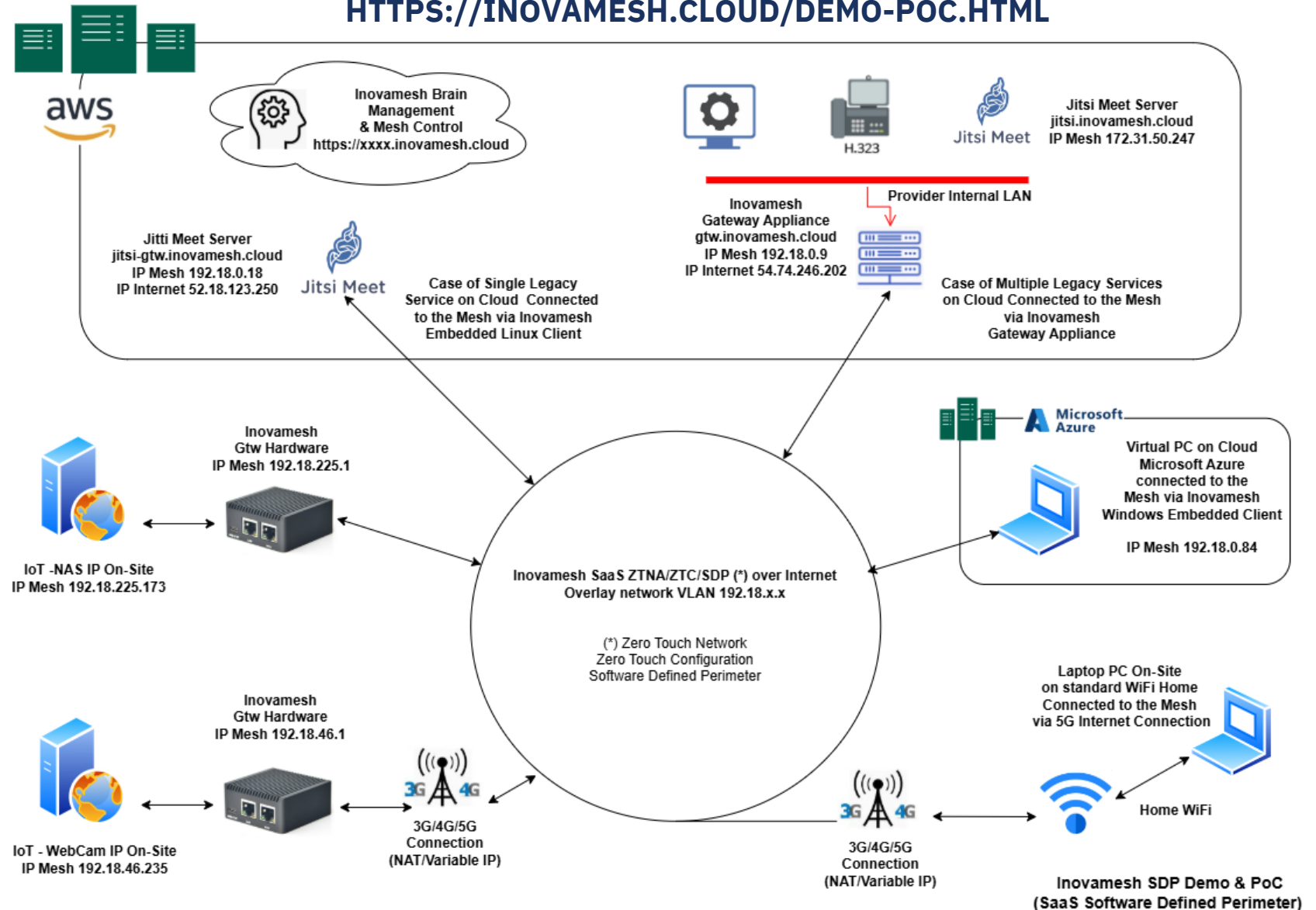
InovaMesh Web Manager – Whether created through a wizard or manually, both meshes and devices are simple object definitions in the InovaMesh database, where you can refine configurations or create them from scratch. As a result, devices are remotely configured through AWS IoT Core without requiring any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

INOVAMESH – ONLINE DEMO-POC

[HTTPS://INOVAMASH.CLOUD/DEMO-POC.HTML](https://inovamash.cloud/demo-poc.html)

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.



INOVAMESH – IN-DEPTH DOCUMENTATION

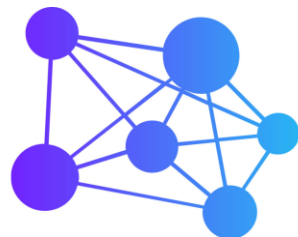
Detailed information is available on the [Documents page](#) of the InovaMesh.Cloud website, where a permanent SaaS [Demo & PoC](#) is hosted. A summary of the documents is provided below:

- 👉 Inovamesh® Brochure.
- 👉 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 for Startups
and Enterprises – AWS® partner
Ravenna (IT)



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

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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.](http://www.algorime.it)

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.](https://www.plumma.it)



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