

# Network Management as a Service (NMaaS)

Introduction

**Pavle Vuletić**

*GN4-3 WP6T3 – Task Leader*

GÉANT Network Management as a Service (NMaaS)  
Infoshare

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[www.geant.org](http://www.geant.org)



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Questions: [partner-relations@geant.org](mailto:partner-relations@geant.org)

## Why should you consider NMaaS service?

- You want to install or quickly try (in few minutes) a new network management app
- You don't have sufficient resources (servers, virtual machines) for network management apps
- You don't have enough knowledgeable staff who can install/manage the required infrastructure (servers/VMs/containers)
- You have multiple customers who want their network and server infrastructure to be managed by you
- You have customers who don't have sufficient resources to manage their infrastructure
- You want to focus solely on managing your services











# NMaaS in a nutshell

## What?

“Market place” offering Network Management ... in the cloud

## For whom?

NREN End Institutions, GÉANT Project teams, and NRENs

 <p><b>ELK Stack</b> ★★★★★0 Elasticsearch, Logstash and Kibana</p>	 <p><b>WiFiMon</b> ★★★★★0 Wireless Crowdsourced Performance Monitoring and...</p>	 <p><b>Statping</b> ★★★★★0 Status Page &amp; Monitoring Server</p>	 <p><b>Booked</b> ★★★★★5 Web-based calendar and schedule</p>	 <p><b>InfluxDB</b> ★★★★★0 Time series database</p>	 <p><b>Jenkins</b> ★★★★★0 Leading open-source automation server</p>
 <p><b>pSConfig Web Admin</b> ★★★★★0 Web-based UI for perfSONAR administrators</p>	 <p><b>esmond</b> ★★★★★0 Central Measurement Archive</p>	 <p><b>MaDDash</b> ★★★★★0 Monitoring and Debugging Dashboard</p>	 <p><b>Central Management</b> ★★★★★0 perfSONAR Central Management</p>		

# NMaaS Key Benefits and Features



PLUG AND  
PLAY

Cloud based platform **reduces start-up costs** and **management overhead**



PRIVATE

Each management instance is **separated** within the platform **by design** to maintain isolation

Allows institutions and projects to manage separate infrastructure



SECURE

Uses VPN technology to incorporate management platform instance into the network instance

# How can NMaaS be used?

## Option 1: Organisation implementation

Each participating organisation offers a platform for their participating institutions

GÉANT Project co-ordinates development, standards and provides 2<sup>nd</sup> level support for the software usage



## Option 2: GÉANT Project implementation

GÉANT Project offers a centralised platform for participating NRENs and/or their institutions (“white labelled”)

GÉANT Project co-ordinates development, standards and provides the 1<sup>st</sup> and the 2<sup>nd</sup> level support for NMaaS use



## NMaaS contact and further information

Contact us at [nmaas@lists.geant.org](mailto:nmaas@lists.geant.org) if you'd like to:

- **monitor** your equipment with tools offered by NMaaS
- **share** your own custom tools with the community via the NMaaS marketplace
- **test** NMaaS capabilities

Check out the latest NMaaS posts: <https://wiki.geant.org/x/i5nTC>

NMaaS information: <https://wiki.geant.org/display/NMAAS>

NMaaS production instance: <https://nmaas.eu>

NMaaS sandbox instance: <https://nmaas.geant.org>

## NMaaS Infoshare – Agenda

- 13:00 – Introduction
- 13:10 – NMaaS concept, architecture and deployment
- 13:20 – NMaaS application portfolio
- 13:30 – NMaaS GÉANT production service
- 13:35 – NMaaS infrastructure requirements
- 13:45 – Demonstration
  - NMaaS for RARE
  - Application deployment process
- 14:05 – Q&A



# Thank you

Any questions?

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