



Grant agreement: 688467

Open virtual neighbourhood network to connect intelligent buildings and smart objects







COMPANY Introduction

OptionsNet was founded in 2000, aiming to provide innovating technological solutions in the ICT sector. **Since 2014**, OptionsNet strategically has been focusing in the area of Maritime ICT, participating in innovative EU and National projects (*FP7*, *H2020*, *SME instrument*, *FIWARE*) and delivering high quality technological services in global markets.

SaMMY (www.sammyacht.com) is a spin out activity of OptionsNet providing innovative solutions for Intelligent Marina Management and real-time services to the yachting community







The Problem









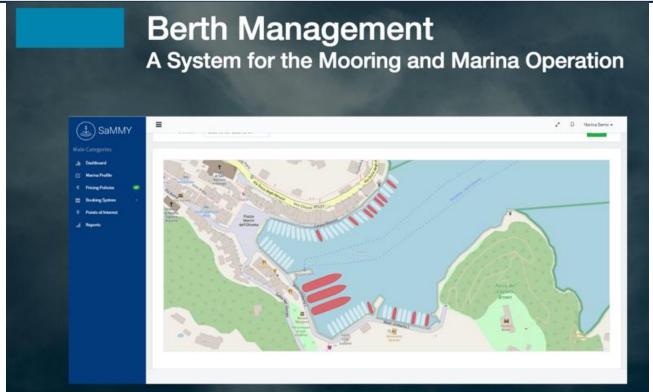
The Solution











VICINITY The Product



- GatewayMeshlium-PRO-3G-AP
- Plug&Sense, Smart Water (pH, temp, ORP)
- Plug&Sense , Smart City (temp, humidity)
- Plug&Sense, SmartSecurity(Ultrasound Sensor)
- Water Proof: IP67 standard
- Communication protocol: 802.15.4 standard







Deployment Area: Patras Port (Mega-yacht Mooring dock)

The IoT devices have been placed inside the pillars, sensors and wiring in special pipes & boxes for protection while the meshlium gateway has been installed in the administrator 's office







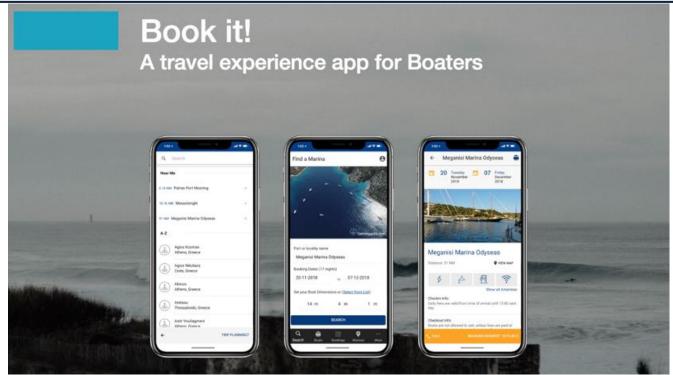
















VICINITY Vicinity Project Main Goals

Expose data coming from operating SaMMY's IoT devices, and integrate with VICINITY API in order to be used by 3rd party crossdomain applications or other members of the VICINITY ecosystem.

Create a new monitoring dashboard environment fusing data that will become through the VICINITY virtual neighborhood and from the SaMMY's IoT devices.







INITY IoT resources for VICINITY

Sixteen (16) of SaMMY's platform IoT resources will be registered/integrated into VICINITY:

- 5-resources related to weather & water conditions
- 11-resources related to berth spaces (availability)

Resource(s)	Description	Туре	Observed property
Air Temperature	Air temperature sensor	Sensor	Temperature (°C)
Humidity	Humidity sensor	Sensor	Humidity (%)
Water ORP	ORP sensor	Sensor	Oxidation Reduction Potential (OX)
Water pH	pH measurement	Sensor	Number (0-10)
Water Temperature	Water temperature sensor	Sensor	Temperature (°C)
Water Level	Water Level sensor	Sensor	Level 0,5m – 1m (On/Off)
BS5-BS15 (11)	Berth Space No5-15	Sensor	Availability (On/Off)







Implementation status

1st month: study of the technical documentation provided, setup of the infrastructure in which the extension is to be hosted (a dedicated Virtual Machine in a cloud server) and the installation of the prerequisite software tools.

2nd month: attend the Skype technical Workshop and got a deeper insight of the VICINITY platform and the technical requirements for the development of the SaMMY Adapter and the overall realisation of the integration with the VICINITY platform. The technical action phases and certain Key Performance Indexes (KPIs) were identified in order to provide the necessary benchmark for the evaluation of the results. The VICINITY platform elements were downloaded and deployed into SaMMY's dedicated VM.

3rd month: SaMMY platform was registered as a VICINITY organization, the VICINITY components configured and integrated to function correctly. SaMMY IoT devices were identified and the relevant JSON description (things descriptions) files were created. Finally, the resources were finalised and registered into the VICINITY neighbour.







ITY Benefits for VICINITY

- Enable VICINITY to offer a set of cross-domain, context-based information services.
- VICINITY members can exploit the opportunity of introducing **complementary services** or apps which are important for the recreational sea-travellers and coastal tourism development.
- Third service providers will be able to connect with new vertical targetmarkets
- Provide real time data from the coastal areas like water quality environmental data etc.to VICINITY virtual neighborhood





 Be a member of VICINITY technological ecosystem and recognized by a wide IoT technical & business community

 Complement other (IoT-based or typical) marina management systems, enhancing the availability of marina's data resources, through the exploitation of the SaMMY's open architecture





 Share data (coming from the installed IoT devices through RESTFul services), able to be used by 3rd party cross-domain applications or other members of the VICINITY ecosystem.

 Exploit external IoT devices, as well as other VICINITY resources for improving SaMMY market potential and upraise its value proposition to clients (Marinas and Yachters)







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