Enablers Framework: an approach to develop applications using FIWARE

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Current Industrial Panorama

- Too much technologies
- Too much end to end solutions
- No global standards
- It is costly to adapt existing technologies
Objectives:

Provide a standard solution for the Industrial Panorama

Manage factory related computer hardware and software resources

Provide and integrate common services for factory computational programs
Main Role

Act as a bridge between service providers and service consumers.
Enablers as Service Providers

Why to use them?
Enablers offer reusable and shared modules, which include protocols and interfaces for operation and communication, able to cover several usage areas among different sectors.

Coverage Areas

- Cloud Hosting
- Data context/management
- Internet of things
- Applications, Services and Data Delivery
- Security
- Interface with Networks and Devices (I2ND)
- Architecture
- Advanced Web-based User Interface
Factory Service Providers

Enablers

- Specific Enablers
- Generic Enablers

[Logos: Hitman, Fi-WARE, VF-OS]
Enablers Framework as a Bridge

- Create Enablers Instances
  - Using API and GUI
- Install Enablers
  - Through Docker Platform
- Interface Enablers
  - Using API and Libraries

www.vf-os.eu
Components Functionalities
Enablers Framework Business Opportunities

- Facilitate enablers creation to be utilised in the development of vApps or to facilitate plug and play of other resources.
- Interface the access to Enablers services to be consumed by vApps and other components.
- Contribute to vf-OS Ecosystem and act as the bridge between service providers and consumers.

To teach karate

Define Control robot movements

E.g. Robot Producer

To be used in academic teaching
FIWARE is an open sustainable ecosystem, built around public, royalty-free and implementation-driven software standards. We make and share open source technology for smart solutions.

The proposed Enablers Framework, intends to integrate enablers with the applications, acting as a bridge between them.

- Acting as an approach to develop applications using FIWARE
- It relies on a Docker-based approach to provide (if needed) several instances of the enablers, without the user having to pass through its installation process.
- The enabler can then be accessed through the EF API
- The orchestration of the services can be achieved through the Process Enabler, which generates a BPMN to be integrated in the vApp to execute the defined tasks.
Questions?

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