

FIESTA-IoT

Federated Interoperable Semantic IoT/cloud Testbeds and Applications

FIESTA works towards providing a blueprint experimental infrastructure, tools, techniques, processes and best practices enabling IoT testbed/platforms operators to interconnect their facilities in an interoperable way.

Experimentation as a Service

- FIESTA is opening new opportunities in the development and deployment of experiments that exploit IoT data and capabilities from multiple testbeds at a EU (and global) scale.
- FIESTA focuses on opening new horizons in the development and deployment of IoT applications for experimentation.
- FIESTA project works on integrating IoT platforms, testbeds and their associated IoT data silos and vertical applications.

“FIESTA Project empowers Experimentation-as-a-Service (EaaS) paradigm for sharing and reusing IoT data”

Tools, Techniques and Best Practices

- FIESTA aims to provide to researchers with tools for accessing IoT data resources (including Linked sensor data sets) independently of their source IoT platform/testbed.
- Enable execution of experiments across multiple IoT testbeds, based on a single API for submitting the experiment and a single set of credentials for the researcher.
- Portability of IoT experiments across different testbeds, through the provision of interoperable standards-based IoT/cloud interfaces over diverse IoT experimental facilities.

“FIESTA Project works close to the research industry and academic researchers to share and reuse data from diverse IoT testbeds in a seamless and flexible way”

Expected Impact

- FIESTA's experimental infrastructure available not only European experimenters but World Wide.
- Facilitate the execution of experiments across multiple IoT testbeds.
- IoT experimentation across different testbeds and the provision of interoperable standards-based IoT/cloud interfaces

“FIESTA brings Experimentation as a Service close to users by means of Orchestration and Federation APIs”



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