



FINESCE Project

Software Defined Utility

Ireland/Barcelona

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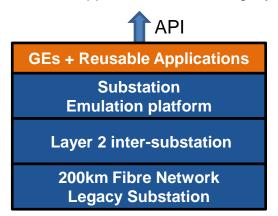


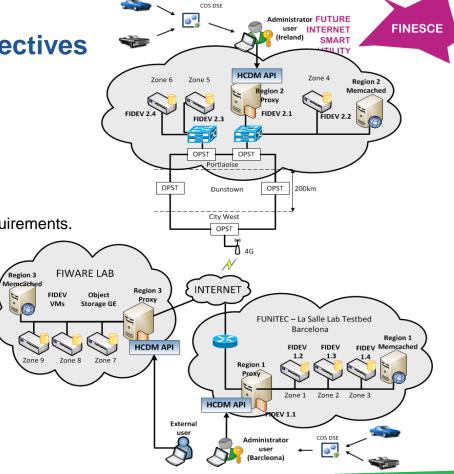




Software Defined Utility Trial - objectives

- Objective One:
 - Demonstrate handling of utility Information.
 - Distribution in public & private clouds.
 - Platform for Smart Grid applications.
- Objective Two:
 - Build advanced optical network.
 - Demonstrate support for future and legacy utility requirements.



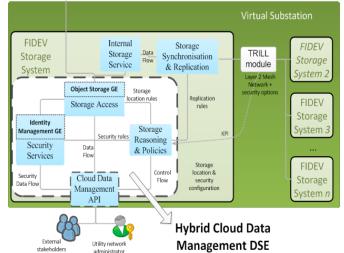


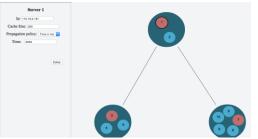
Software Defined Utility Trial - Results

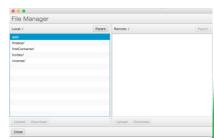
- FIDEVs' integration and interconnection in three sites (Barcelona, Ireland, FIWARE Lab).
 - Manager users (from ESB, WIT or FUNITEC) and external users to public containers.
 - -HCDM DSE A component for the "Software Define Utility": to provide transparent access to the Hybrid Cloud infrastructure for the data management.
 - -High business potential.
- Completed built of 200km fibre wrap infrastructure.
- Comparison between TRILL vs VXLAN (NVGRE) vs OpenFlow networking solutions.
- · Security functionalities provided by GEs have been tested.
 - -Vulnerabilities found and fixed.











Software Defined Utility Trial - Conclusions



- •HCDM DSE: a good example of the combination of GEs in order to create a flexible service for utilities. It can help SMEs to learn how to use GEs and assess the benefits of the FIWARE ecosystem.
- More efficient, flexible and secure data storage for utilities. Data management nearer the generation and application point for fast operation and latency reduction.
- Tool for secure and easy exchange of data with external stakeholders to learn how to use GEs and assess the benefits of the FIWARE ecosystem.
- GEs allow to develop and integrate complex solutions with multiple components more rapidly and at lower cost.
- It allowed utilities to realize the business potential of flexible, low-cost, software-based approach for managing distribution network of the Smart Grid.