IOT INTEROPERABILITY MODEL-BASED TESTING
A FIWARE CASE STUDY

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CONTEXT & RESEARCH OBJECTIVES

• FIWARE is a future internet platform for IoT
• Building confidence in FIWARE leads to testing challenges
• Use of Model Based Testing on FIWARE platform
• Standard compliance
  • Functional compliance
  • Integration testing
• Acceptance testing of deployed IoT systems
• Managing complexity & Heterogeneity
  • Input and output data are complex
  • Millions of actuators and sensor’s
• Integration Testing
• Offline & online testing
RESULTS SO FAR

- EspR4FastData Generic Enabler implementation tested
FUTURE WORK

- Additional FIWARE case studies => Integration Testing
- Expand the test environment setup (TTCN3 publisher, HTML-Unit publisher,...)
- Passive testing approach on current working Generic Enablers implementation
- Test the solutions on Smart cities implementations.