Insights for Edge Software Developers

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For: everyone

Episode #5 – MEC Testing
In this episode ... (for MEC Service developers)

• We will learn how:

  • What is conformance testing?
  • Why should I do conformance testing?
  • When should I execute them?
  • How to proceed?
  • ETSI Conformance test suites for MEC platforms
What is conformance testing?

- Requirements Catalogue
- Implementation Conformance Statement
- Implementation eXtra Information for Testing (IXIT)
- Test Purposes (TP)
- The Abstract Test Suite (ATS)
Why should I do conformance testing? (1/2)

• Implementation of a Standard

• Is my implementation compliant with the standard?

• Answer: The conformance tests
Why should I do conformance testing? (2/2)

• To check for the system’s requirements fulfillment

• To check the development, design and evaluation as per specifications and standards

• To minimize the risk of interoperability between MEC Services and MEC applications
When should I execute them?

- Manually but...
- Integrated to CI/CD chain
How to proceed?

• Analyzing Standards and Specifications
• Selecting Test tools and Test suite
• Designing Testing Procedures
• Checking necessary validations
• Adapting relevant testing policies and certifications
ETSI Conformance test suites for MEC platforms

- MEC-10-2 Application Lifecycle Management
- MEC-011 Application Enablement
- MEC-012 Radio Network Information
- MEC-013 Location Service
- MEC-015 Traffic Management
- MEC-028 WLAN Information Service
- MEC-029 Fixed Access Information Service
- MEC-030 V2X Information Service
Conclusions and further resources

What we have learnt:
• The role and the interest to conduct conformance tests
• How to proceed with conformance tests
• The ETSI conformance Abstract Test Suite

Interested to learn more?
• Look https://forge.etsi.org/rep/mec/gs032p3-ttcn-test-suite
• Also https://mecwiki.etsi.org/index.php?title=MEC_testing
• Follow also the next episodes of the MEC TECH Series 😊
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