



oneM2M Certification and the GCF – a Test Vendor View: part 2

November 2017



Introduction

- ~~Background to oneM2M conformance testing~~
- A test vendor (Spirent) requirements for GCF oneM2M certification
 - Only covering areas of concern for a Test Vendor
 - Other (very important) areas raised in GCF presentation not covered: Certification program management, GCF business model, marketing and communication activities, long term funding model, ...

Test Vendor Business Case

**Summary: business case
is not good! ☹️**



- Software-only test tools
 - “Value” of test tool perceived to be “low”
- > 600 TTCN-3 test cases (including permutations/variants but excluding protocol bindings) for Release 1. Release 2 could double this ...
 - Validation and maintenance costs “high” whatever we do
- Test time is very short (2 hours for Release 1)
 - “Value” of test tool perceived to be “low” for both vendors and test labs
 - On-line / remote certification testing very likely. (What role for test labs?)
- Assumptions
 - Will use GCF “Platform” certification methodology, so customer base may not be very large



A Test Vendor (Spirent) Requirements for oneM2M Testing ... 1

- GCF (Re-)Validation costs must be kept “very low”:
 - Propose: mutual recognition of Validations agreed by other certification bodies (TTA, ...) – so no need to re-validate or validate multiple times
 - Propose: self-validation by test vendor or “Validation-Lite” by Test Lab (to maintain quality)
 - TP variants not individually Validated (after “sanity check”)
 - “Lite” “Transfer Validations” used for similar TPs in a sub-group
 - Note: TTCN-3 is anyway pre-verified by oneM2M TST
 - Propose: only one protocol binding required for Validation
 - Propose: no re-validation required when moving TPs to a new oneM2M release (only XSD file changed) (see additional slides)
 - ...

Note: it is likely that different IoT work items will require their own “special conditions” for validations etc., but some of the above requirements may well be common for other future IoT work items



A Test Vendor (Spirent) Requirements for oneM2M Testing ... 2

- Other areas for consideration:
 - Other existing GCF procedures for test vendors probably OK:
 - Observer membership – OK
 - Test platform “approval” – OK
 - Work item procedure – OK – but will there be enough full-member supporters?
 - Certification issues for oneM2M Vendors:
 - Self-Certification or “Certification-Lite” by Test Lab?
 - Role of Test Labs?
 - Issues for GCF
 - Handling and number of TPs (logistics, database size, ...)
 - ...

Note: most of the above requirements/issues will be common for other IoT work items



Questions / comments?



Additional Slides

Release Management

