ETSI

The Standards People

IoT Conference 2023

Looking into the future of…
… the oneM2M standards
development process

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Legacy process

‣ From 1988 and the GSM work ETSI has been publishing specifications

‣ Move to electronic representation thanks to computer editing software

‣ oneM2M (and many other standardisation initiatives/bodies) still rely on a process that translates the paper-based approach into the digital world

‣ No significant leverage of tools available today

Looking at software development practices

- The text of a standard has several commonalities with software source code

- What if we leverage tools available for software in the context of standards development?

Expected results

- Immediate availability of new baselines once contributions are approved

- Strict adherence to drafting rules

- Decreased workload for rapporteurs & editors

- Independence from the publishing format

Current efforts in oneM2M

‣ oneM2M is experimenting with a new contribution process for which a proof of concept is available

‣ Under the supervision of the oneM2M Technical Plenary, the Testing & Developers Ecosystem (TDE) working group is leading the effort
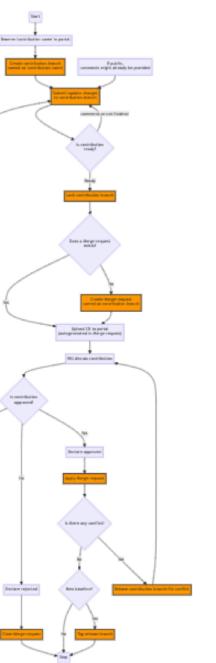
‣ All formats & tools used are openly available

Adapting open source practices to standards development

Use software development practices and open source document formats for the standards development process

‣ Markdown for documents

‣ GitLab for collaboration and version control

‣ Mermaid, PlantUML, SVG and others for diagrams and drawings

Trialed in oneM2M for some of the technical reports and specifications

Status of trial

‣ oneM2M's TDE and RDM in the process of creating first markdown baselines

‣ Technical Report within WI on oneM2M Enhanced Filter and Queries to be developed entirely using the trial process

‣ Ongoing analysis and mapping to formal process and drafting rules

Thank You!