



"Challenges and Solutions for SMART Solutions: Protocols, Interoperability, Testing and Collaboration"

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Protocols – Privacy

- Challenge
 - Data derived may imply the identity of a person
 - New notions: (un) linkability and (un)observability
- Solutions
 - Dynamic identities
 - Privacy Policy Manager (PPM) in oneM2M specifications
 - Standardised list of privacy attribute value pairs
 - Automatic comparison of a users privacy preferences and an applications privacy policies (what, when, why information is collected and or shared) and creation of ACL

Interoperability

- Challenge
 - Compliance with oneM2M only now being asked for in RFI, RFP, ITT, s etc. sent to potential service providers platform vendors
 - Legal issue only specify a requirement not a solution
- Solutions
 - Model forms of contract
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Testing

- Challenge
 - Multitude of unattended devices in remote locations, especially important where the infrastructure is the sort of "street furniture" that goes unremarked by passers-by
- Solutions
 - Detectability; the need for the machine to become aware of and react to a security breach such as tampering..
 - Recoverability: since the equipment may be dispersed or inaccessible, it must be possible to undertake at least some remediation and reset functions remotely.
 - Learning point from UK Smart cities need to close a road to access a lamppost containing M2M/IoT Infrastructure

Collaboration - with other SDO's

Challenge

- 400 documents on their agenda
- Liaison statements with a large attachment no time to open so "noted" for the next meeting – "next agenda item please"
- But next meeting 450 documents and new Liaisons
- Solutions
 - Joint face to face meetings with time for guest presentation perhaps- but takes 6 months to plan