Fifth ITU Workshop on "Data Processing and Management for IoT and Smart Cities & Communities" (Geneva, 25 November 2019)

ITU-T FG-DPM: The Way Forward

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From Connecting Devices to Creating Value



Artificial Intelligence of Things Al: Data-based learning Big Data: Capture, storage, analysis of data IOT: Data Collection through IoT

1st Forum on Data Management (Dubai)



FG-DPM: Overall objectives

- Promote the establishment of trust-based data management frameworks for IoT and SC&C
- Investigate existing and emerging technologies
- Identify and address standardization gaps and challenges



ITU-T FG-DPM Meetings (1)

1st meeting: 17-19 July 2017 (Geneva)

2nd meeting: 20-25 October 2017 (Geneva)



3rd meeting: 19-23 February 2018 (Brussels)

4th meeting: 1-3 May 2018 (Cairo)



FG-DPM Meetings (2)

5st meeting: 17-20 September 2018 (Tunis)

6th meeting: 14-18 January 2019 (Seoul)



7th meeting: 3-7 April 2019 (Geneva)



8th meeting: 15-19 July 2019 (Geneva)



ITU-T DPM Workshops

1st workshop: 19 February 2018 (Brussels, EC)



https://webcast.ec.europa.eu/workshop-on-data-processing-and-management-for-iot-and-smart-cities

2nd workshop: 17 September 2018 (Tunis)



3rd workshop: 14 January 2019 (Seoul)





FG-DPM Core Deliverables



ITU-T FG-DPM - list of Deliverables

All 15 Deliverables: https://www.itu.int/pub/T-FG-DPM

Deliverable	Title	Output document
D0.1	Technical Specification "Data Processing and Management for IoT and Smart Cities and Communities: Vocabulary"	<u>FG-DPM-O-172</u> -R2
D0.2	Technical Report "Data Processing and management for IoT and smart cities and communities: methodology for data processing and management concept building"	FG-DPM-O-173-R1
D1.1	Technical Specification "Use case analysis and requirements for data processing and management to support IoT and smart cities and communities"	FG-DPM-O-174-R1
D2.1	Technical Specification "Data processing and management framework for IoT and smart Cities and communities"	<u>FG-DPM-O-175</u> -R3
D2.3	Technical Report "Web based data model for IoT and smart city"	<u>FG-DPM-O-176</u>
D3.2	Technical Specification "SensorThings API – Sensing"	FG-DPM-O-156
D3.3	Technical Specification "Framework to support data interoperability in IoT environments"	FG-DPM-O-157
D3.5	Technical Report "Overview of blockchain for supporting IoT and SC&C in DPM aspects"	<u>FG-DPM-O-151</u>
D3.6	Technical Specification "Blockchain-based data exchange and sharing for supporting IoT and SC&C"	<u>FG-DPM-O-177</u>
D3.7	Technical Specification "Blockchain-based data management for supporting IoT and SC&C"	FG-DPM-O-152
D3.8	Technical Specification "Identity framework in blockchain to support DPM for IoT and SC&C"	<u>FG-DPM-O-178</u>
D4.1	Technical Report "Framework for security, privacy, risk and governance in data processing and management"	FG-DPM-O-170-R1
D4.3	Technical Report "Overview of technical enablers for trusted data"	<u>FG-DPM-O-168</u> -R2
D4.4	Technical Report "Framework to support data quality management in IoT"	FG-DPM-O-171-R1
D5	Technical Specification "Data economy: commercialization, ecosystem and impact assessment"	FG-DPM-O-169



Point A: Trusted, and Processed data over the Trust and Data lifecycle dimensions, but not commercialised Point B: Processed and commercialised data over the Data lifecycle and commercialisation dimensions, but not trusted Point C: Trusted, Processed and commercialised data over the Trust , the Data lifecycle and commercialisation dimensions



Impact of FG-DPM Deliverables





Concluding Remarks

Data is the new Oil

- DPM is an essential element in emerging converged technologies (IoT, Big Data, Analytics).
- ITU-T FG-DPM
 - Pave the way for standardization on data ecosystem and services
- Future Plan
 - Accelerate ITU-T SG20 activities
 - Closely collaborate with other groups in ITU and related SDOs
 - Promoting activities
 - Advertise FG-DPM deliverables
 - Academic publications



Thank You



