

FG-DPM WG3 : Data sharing , Interoperability and Blockchain

Liangliang ZHANG

WG3 Chair, ITU-T FG-DPM

Liangliang.zhang@Huawei.com



FG DPM WG3:

Data sharing, Interoperability and Blockchain

WG3

Data sharing, Interoperability and Blockchain

- Data accessibility and data sharing
- Data interoperability
- Use of blockchain approach in DPM

FG DPM WG3:

Data sharing, Interoperability and Blockchain

WG3 Deliverables

1	D3.2	Technical Enablers for Open Data Platform
2	D3.3	Framework to support data interoperability in IoT environment
3	D3.5	Overview of Blockchain for supporting IoT and SC&C in DPM aspects
4	D3.6	Blockchain-based data exchange and sharing
5	D3.7	Blockchain-based data management
6	D3.8	Identity framework for supporting blockchain based data sharing

FG DPM WG3:

Data sharing, Interoperability and Blockchain

D3.2 – Technical Enablers for Open Data Platform

D3.3 – Data Interoperability Framework

D3.5 – Blockchain and DPM

D3.6 – Blockchain-Based Data Sharing

D3.8 – Identity Framework For Blockchain-Based Data sharing

D3.7 – Blockchain-Based Data Management

WG3

FG DPM WG3 Progress

WG3 initials another 2 Deliverables
(D3.2 and D3.3)

-2017.10

-2018.05



-2017.07

-2018.02

FG DPM WG3 initials
3 Deliverables (D3.5, D3.6 & D3.7)

WG3 initials new deliverable (D3.8)

-2019.01

-2019.07



-2018.09

-2019.04

WG3: **4** Deliverables were agreed
and forwarded to ITU-T SG20

WG3 had
completed
6 deliverables



FG-DPM WG3 outputs: (D3.2 and D3.3)

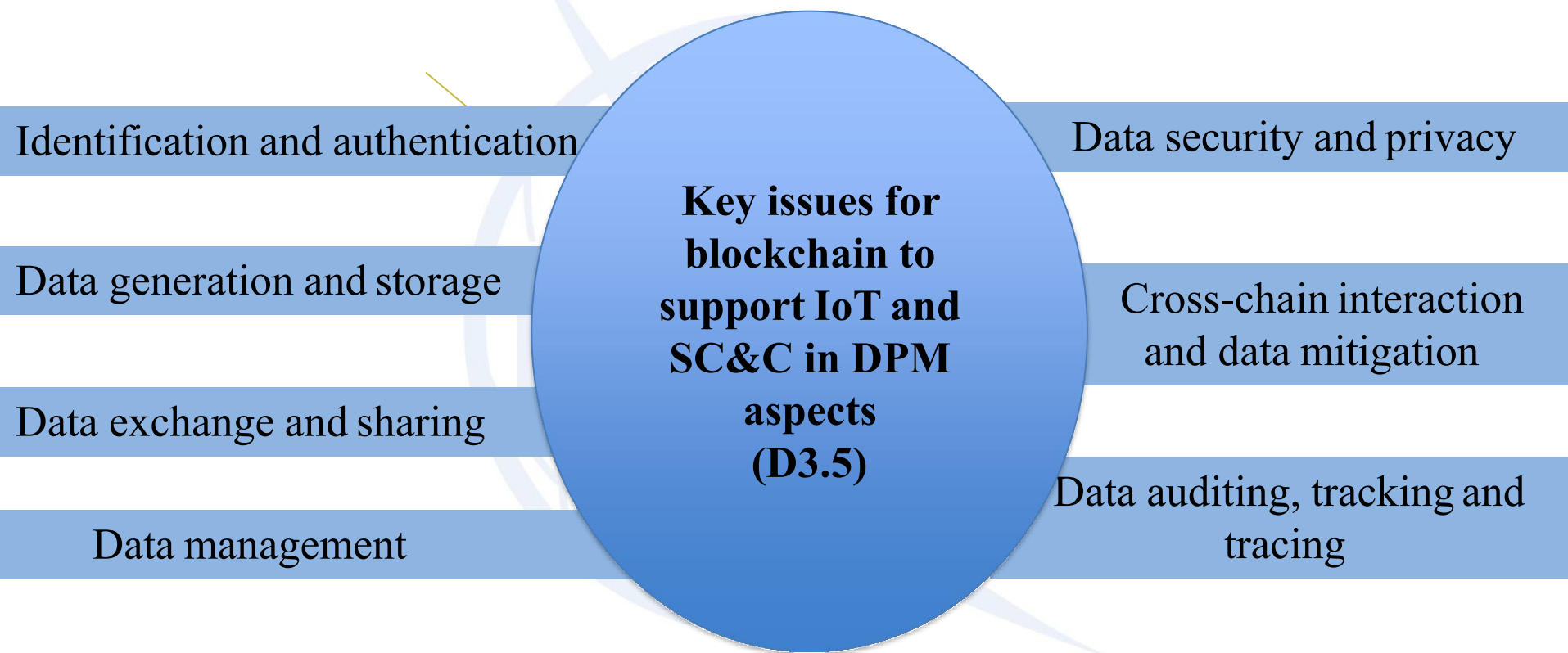
WG3	Data sharing, Interoperability and Blockchain
D3.2 TS: Sensor Things API – Sensing	• The SensorThings API provides an open standard-based and geospatial-enabled framework to interconnect the Internet of Things devices, data, and applications over the Web.
D3.3 TS: Framework to support data interoperability in IoT environments	• Overview of data interoperability in IoT environments; • Requirements to support data interoperability; • Functional model to support data interoperability; • Details on the semantic mediation functions, syntactic mediation functions, interoperable object abstractions functions ect;

FG-DPM WG3 Outputs :

Blockchain (D3.5-D3.8)

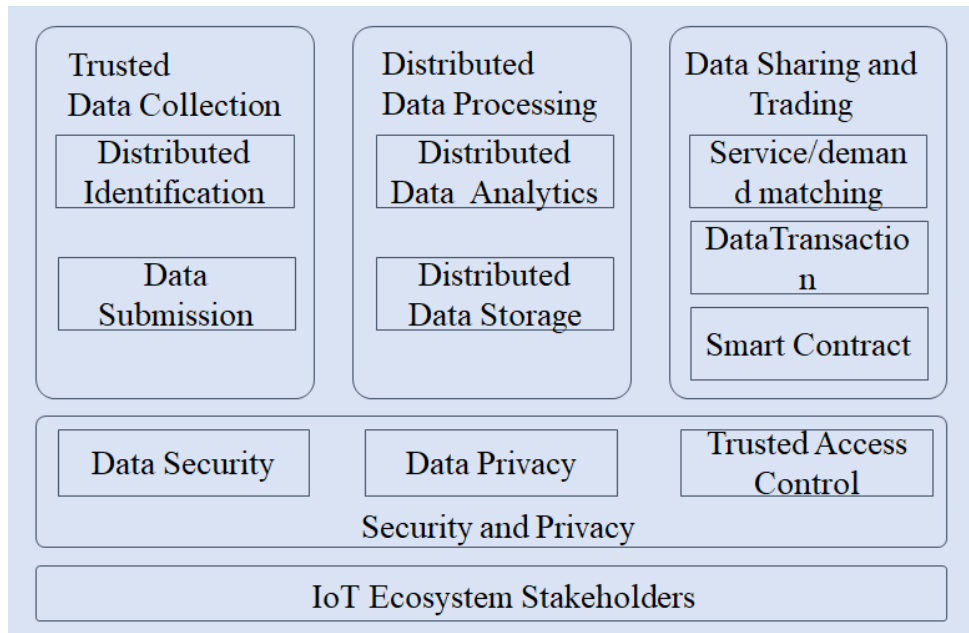
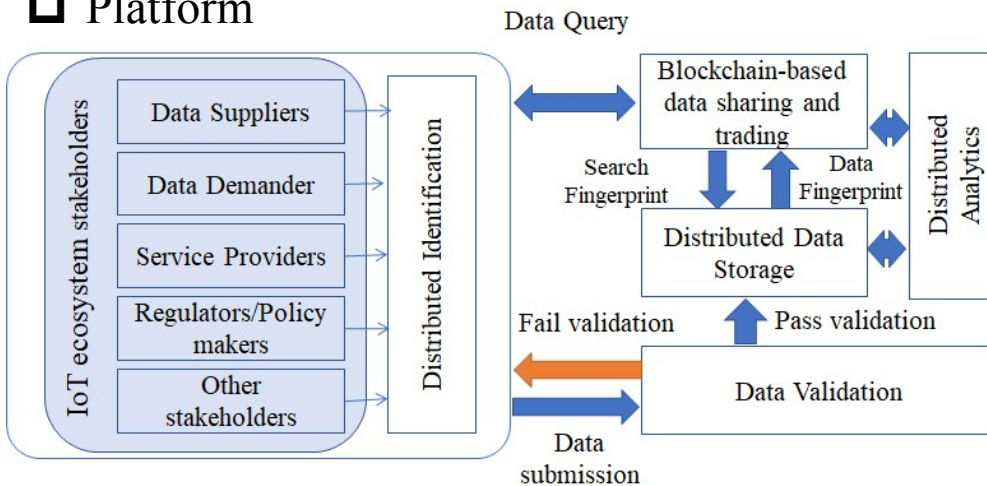
D3.5 TR: Overview of IoT and Blockchain in for supporting IoT and SC&C in DPM aspects	• Analysis on challenges, characteristics, common reference model of blockchain in DPM in DPM aspects • Analysis on key issues for blockchain in DPM aspects; • Analysis on effects when using blockchain in DPM aspects.
D3.6 TS: Bockchain based Data Exchange and Sharing for supporting IoT and SC&C	• Requirements ,Functional models and platform of blockchain-based data exchange and sharing; • Deployment modes for blockchain-based data exchange and sharing
D3.7 TS: Bockchain-based Data Exchange and Sharing for supporting IoT and SC&C	• Requirements of blockchain-based data management; • Generic reference model of blockchain-based data management; • Common capabilities and procedures of blockchain-based data management
D3.8 TS: Identity framework in blockchain to support DPM for IoT and SC&C	• Overview of identity framework in blockchain; • Requirements of identity framework in blockchain to support DPM • Functional model of blockchain identity framework to support DPM

Key issues on blockchain in DPM

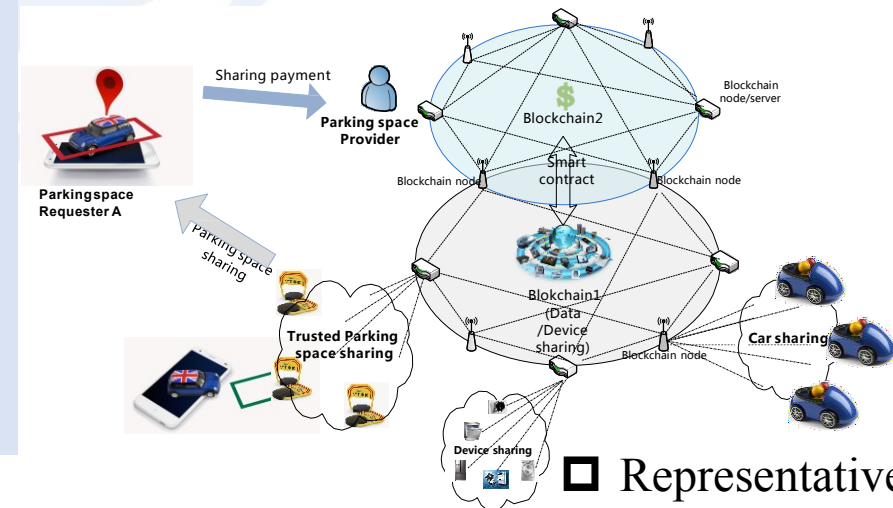
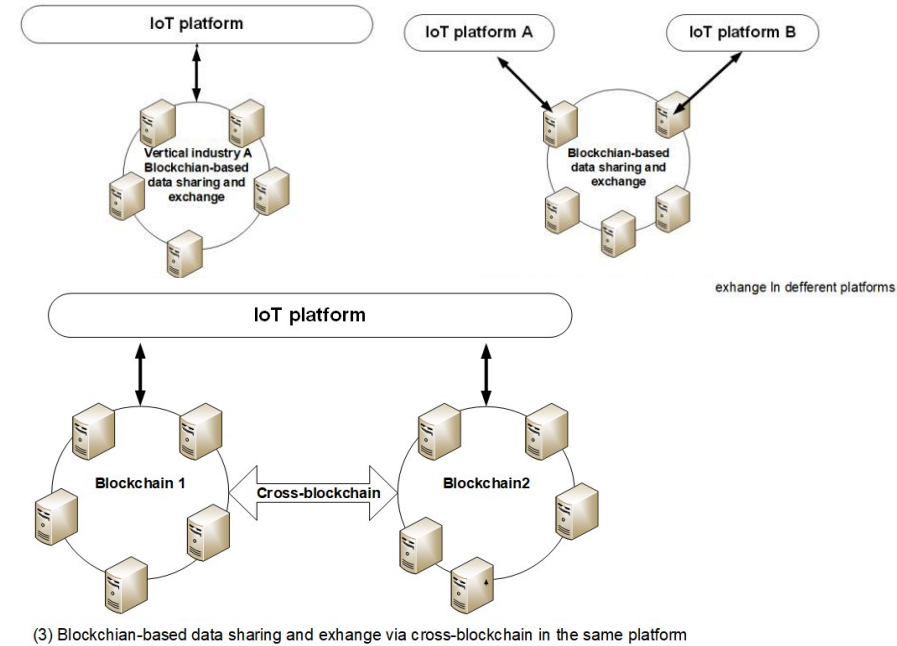


Blockchain based data sharing and exchange

Platform



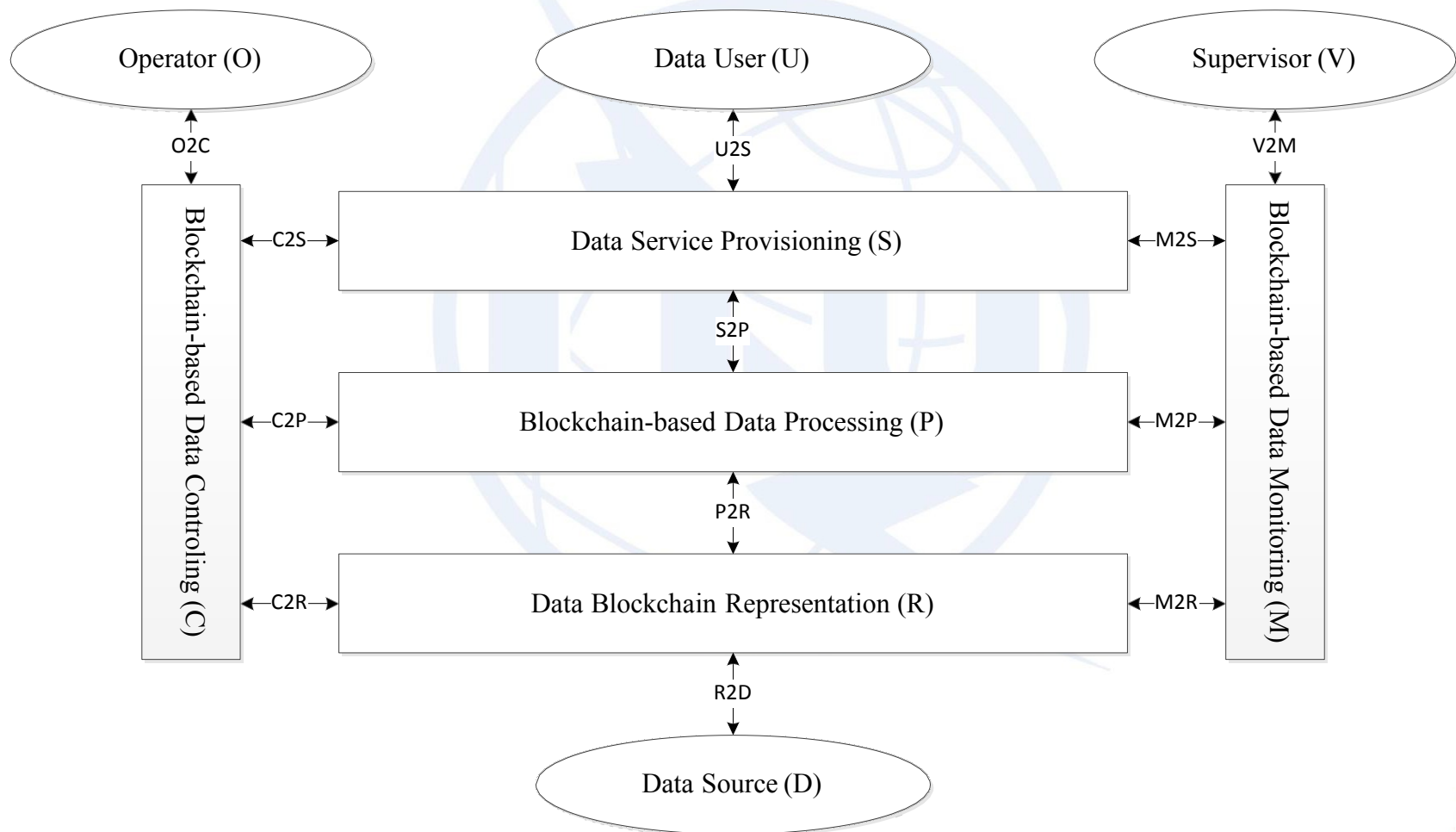
Deployment modes



Functional models

Representative

Blockchain-based data management





Thank you!