

Towards Common Architectures and APIs - Joint Workshop: Internet of Things for Smart Cities & Communities (IoT4SCC)

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TMF Smart City Reference Architecture

Smart City Business Capabilities

Smart City Technical Capabilities

IoT and Smart City Data
Models (TMF, ETSI,
FIWARE, GSMA
FrontRunner)

TMF Smart City Open
Source API Suite

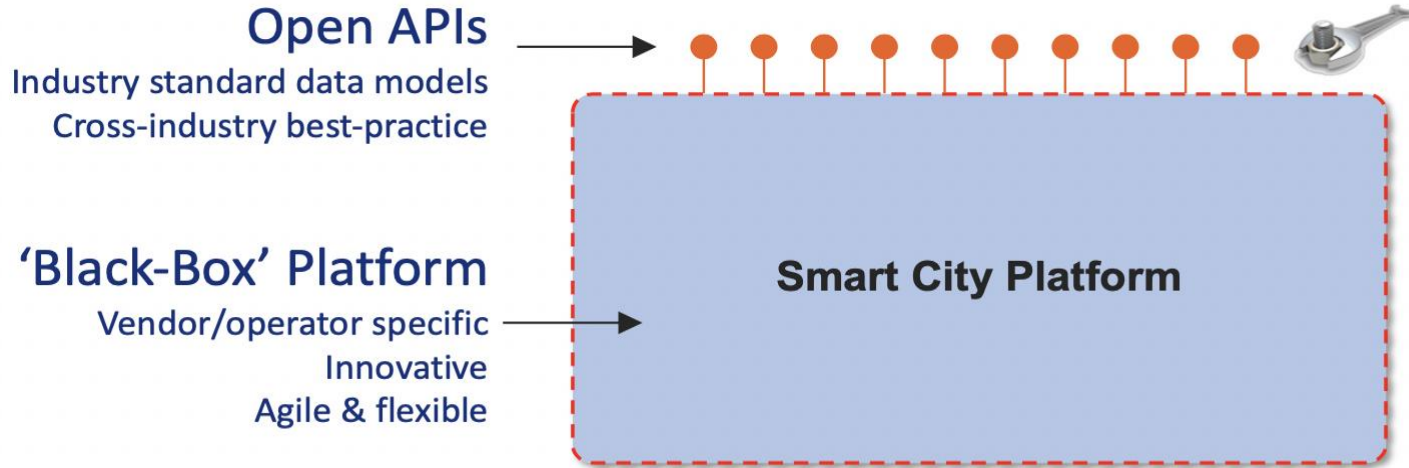
TMF IoT Service and
Device Management Open
Source API Suite

FIWARE Standard Open
Source Data Access APIs
NGSI

TM Forum Open APIs for Enabling Ecosystems



- From IoT device management to complex B2B value fabrics
- Managing partner arrangements across any business boundary
- Onboarding, SLA management, policy management and revenue sharing & settlement

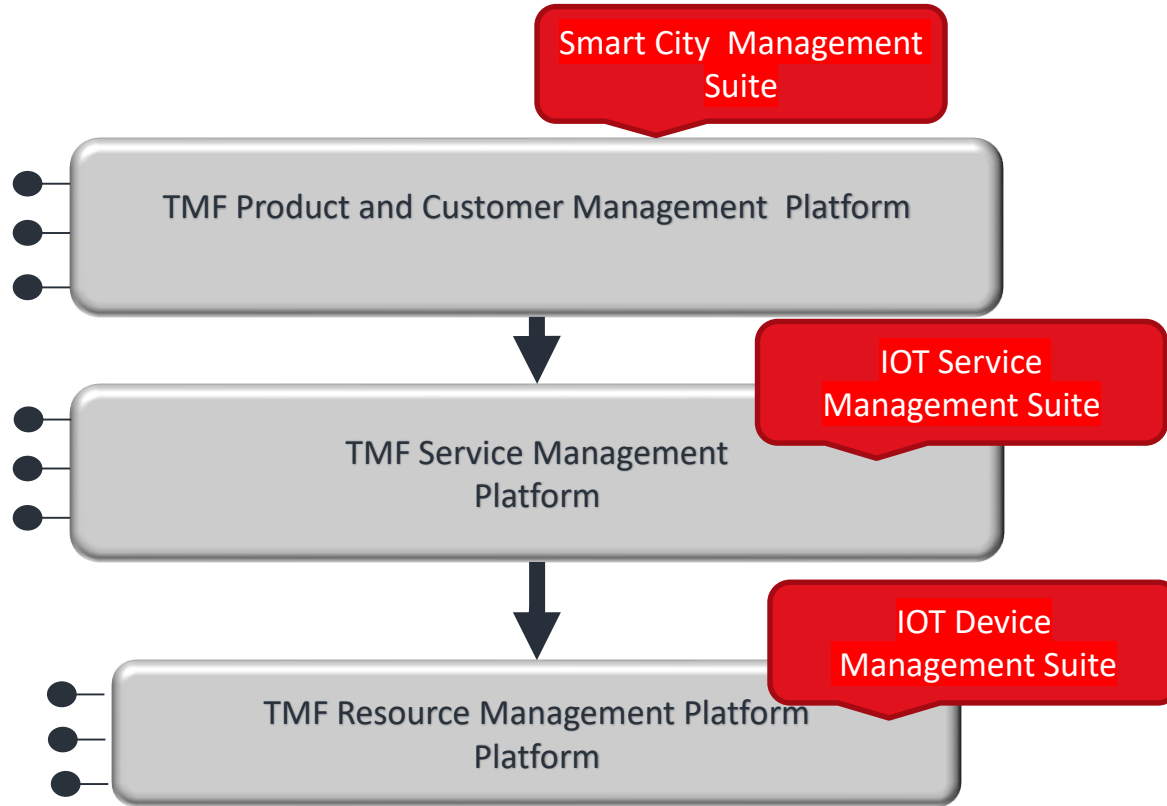


TM Forum Open APIs based Platforms

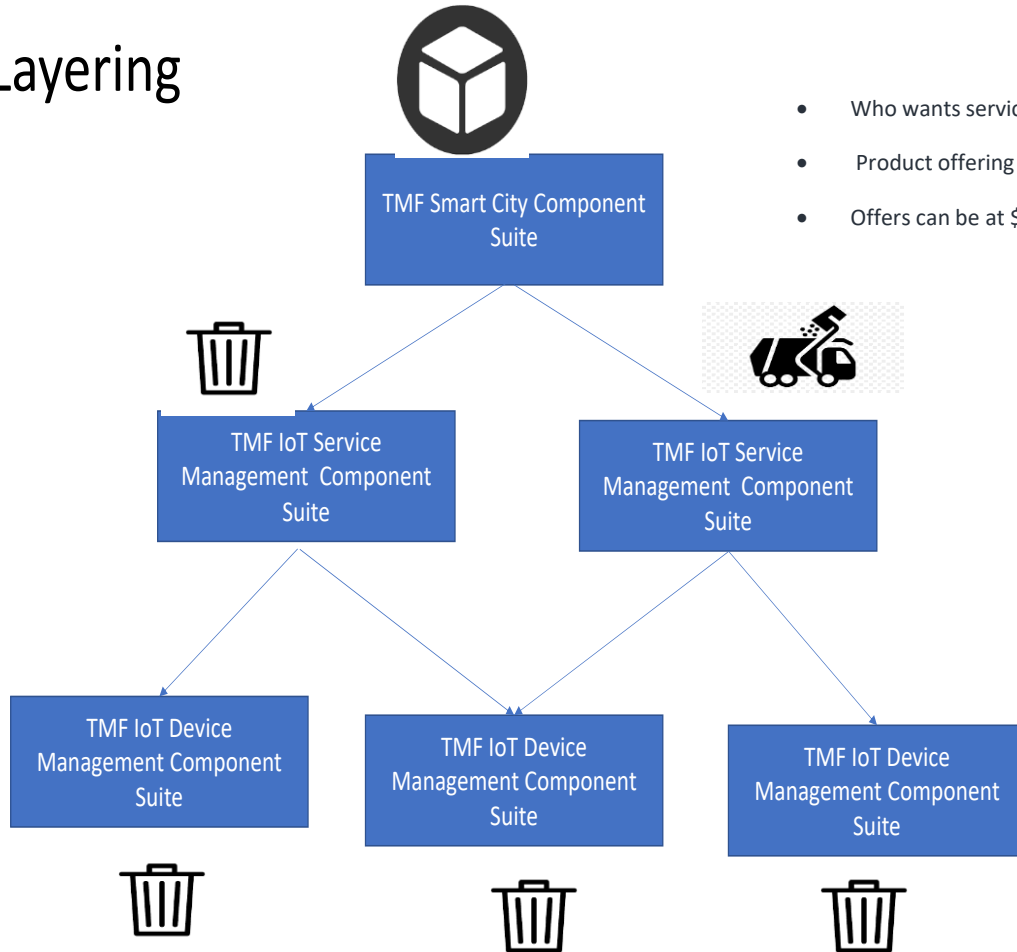
Customer Product Management Domain
A set of APIs supporting the E2E
Management of Customer, Product Offerings
,Orders, Charging and Billing

Service Management Domain
A set of APIs supporting the E2E
Management of Services

Resource Management Domain
A set of APIs supporting the E2E
Management of
Resources/Devices



Layering



- Who wants services? dedicated access offers for example.
- Product offering that depends on the services of the IOT service component suite.
- Offers can be at \$ 0.

- Raw data Service that can be categorized by location, QoS, vendor, and so on
- Augmented data Service for example optimized routes in the context of garbage cans

- Management of sensors and sensor data.
- Open Source IoT and Smart City data models
- Standard Data Access API NGSI (OMA standard)

Smart City and IoT Data Models

Models maintained
in Open Source
Front Runner and
TMF Data Model

Harmonized with
FIWARE

JSON Schemas
(similar to TMF
Data Models)



TMF API Component Suite for IoT Device Management

- TMF xxx
- Version xxx
- October 2018



<https://projects.tmforum.org/wiki/display/IM/TMFxxx+-++API+Component+Suite+for+IoT>



Latest Update: TM Forum Release 18.X.X	Draft
Version X.X.X	IPR Mode: RAND

Thanks!

