



eSIM
Discovery

TSG #44

GSMA eSIM Discovery

Jun 2021

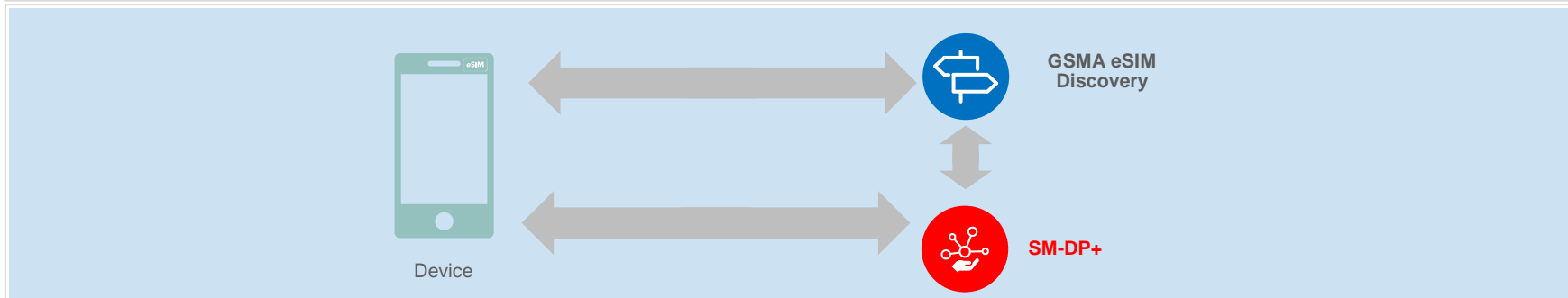


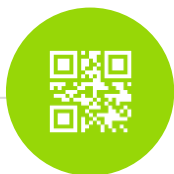
gsma.com/esimservices



GSMA Root SM-DS

- With the absent of the SM-SR in the Consumer Specification, it is required to link the SM-DP+ with the Device in order to be able to trigger the profile download. In eSIM Technical specification, there are three mechanism to trigger the profile download.
- The GSMA Root SM-DS is a common standard to trigger the Profile Download for all devices fitted with an eSIM
- There is only one Root SM-DS





Rely on manual / partial digitalise process

- Learning curve for consumer
- Operational issue for large scale deployment



Device dependent customer experience

- Smartphone and Consumer IoT devices has various different enrolment and download process
- Increase customer support challenges and cost



Implementation Dependent

- Solutions that may not support every device type
- Bespoke integration may needed for specific devices, complicates deployment



Challenges for Consumer IoT Device

Selected device with limited user interface requires complicated procedure

- Devices without camera
- Devices which MNOs cannot pre-configure



Introducing the GSMA eSIM Discovery



The GSMA eSIM Specifications provide a common standard to enable Remote SIM Provisioning (RSP) for all devices fitted with an eSIM



The eSIM industry, 130+ major companies, asked the GSMA to maintain the universally required default eSIM Discovery service to enable customers devices to locate and download their network operator profiles



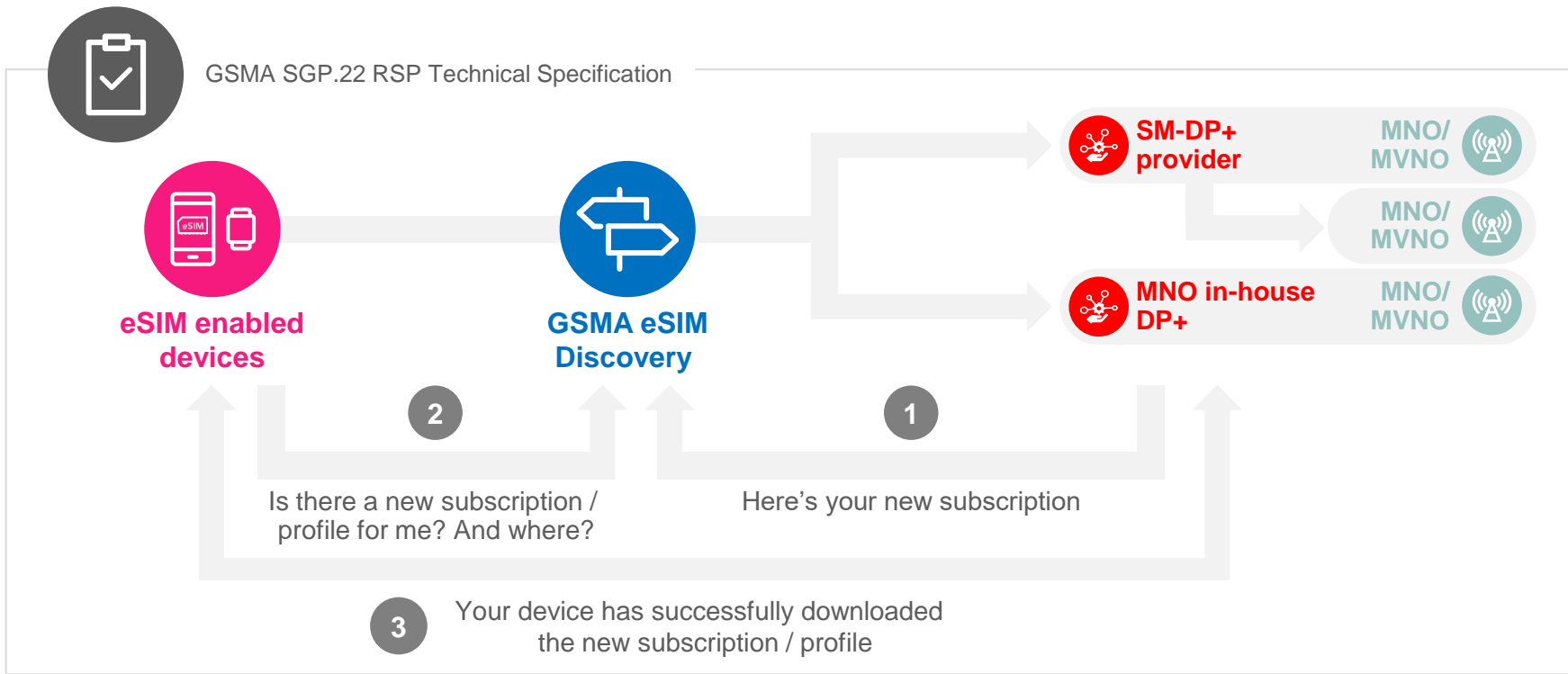
Directs the device's eUICC to the chosen mobile network operator (MNO) where the device owner's profile is waiting



Truly digital, integrated and standardized. Enable MNOs and OEMs to assist in providing an auto profile lookup



eSIM ecosystem actors and their Remote SIM Provisioning (RSP) roles





Devices Connected with eSIM Discovery



SAMSUNG



S21, S20, Note 20 Series, Z flip, Z fold and more

Google



Pixel 5, 4a and more

SHARP



AQUOS sense4 lite

oppo



Oppo A73, Oppo Watch and more



Razr and Razr 5G

Rakuten Mobile



Microsoft



And more

Source: System Data May 2021

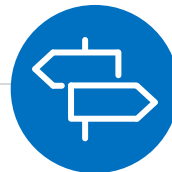


eSIM Discovery in Numbers



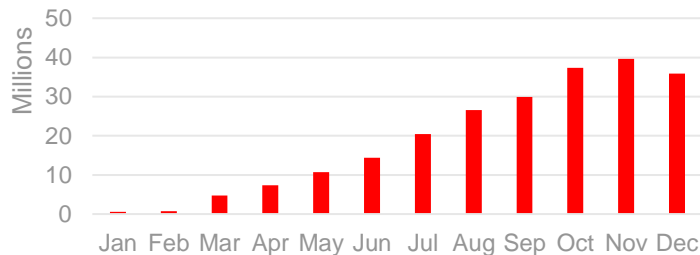
Operator Participation

- 19 MNO using the service today through 3 resellers
- Additional 30 MNOs plan to use the GSMA eSIM Discovery
- MNOs also discussing with consumer IoT device manufacturers on using eSIM Discovery for new deployment strategy



GSMA eSIM Discovery usage

2020 Device Queries

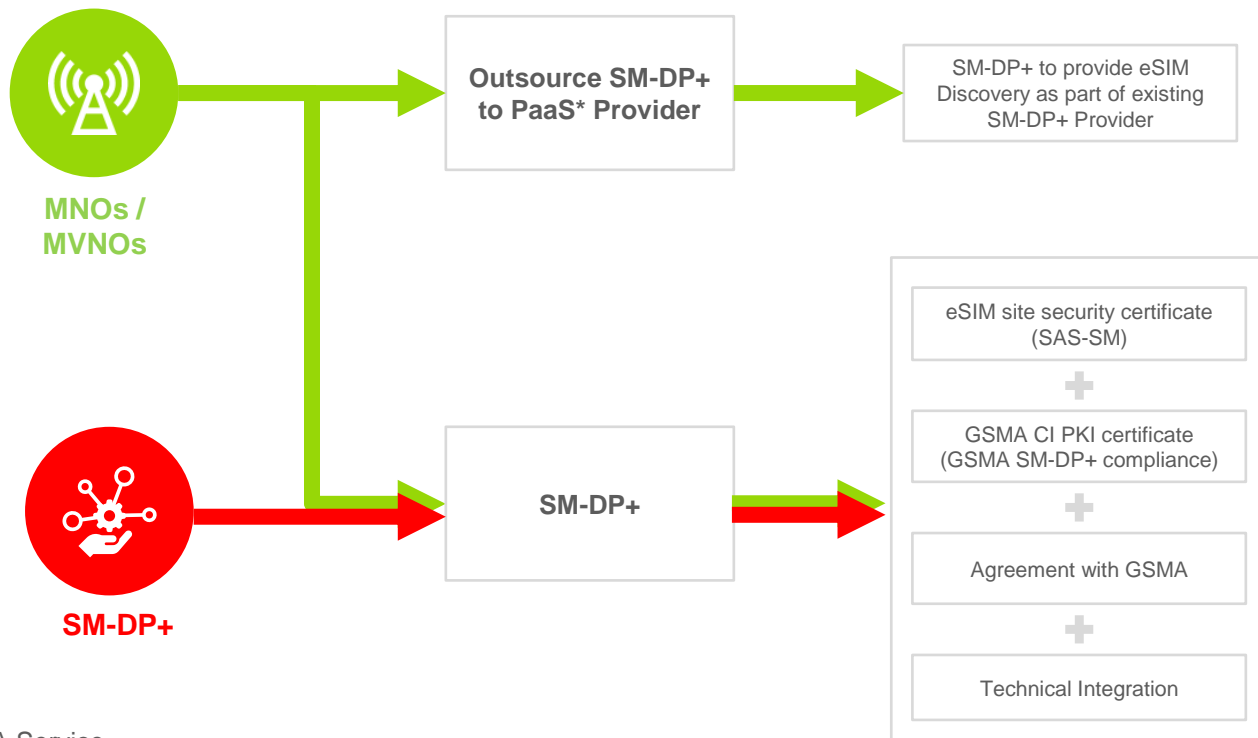


- eSIM Discovery served 10M+ Devices and 225M+ device queries
- Other OEMs in different stages of on-boarding

* GSMA conducted MNO Survey May 2020;



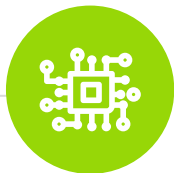
Easy On-boarding



* PaaS: Platform As A Service



GSMA eSIM Discovery service value proposition



Fully digitised

- Interfaces to SM-DP+ / Cost reduction
- Zero-delay business processes



Very good customer experience

- Simple, standard flow



Universal and standardised

- Supports all use cases / devices
- “spec compliance” of devices sufficient
- Single integration enables all spec-compliant device access



Best option for IoT devices

Unrestrained support of any IoT device, e.g.

- Devices without camera
- Devices which MNOs cannot pre-configure



Act Now



Operator

- Contact your eSIM Service provider to include eSIM Discovery as part of your consumer onboarding strategy



Device Manufacturer

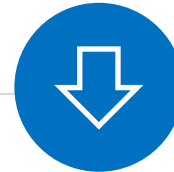
- Procure eUICC that has GSMA eSIM Discovery address built-in
- Share your contact with eSIM Discovery team to establish contact / support
- Declare compliance on eSIM Support with SGP.24

Upcoming Changes in Version 3 Specification on SM-DS



Multiple Root DS

- Coexistence of multiple Root SM-DS to allow:
 - Flexibility regarding the choice of the Root SM-DS on the Device side
 - Choice of a Root SM-DS located in specific region



SM-DS Push Service

- Push services can be used by the SM-DSs
 - to inform the LPA on the eSIM device about a new event in a timely manner and
 - provide the information about which SM-DS to query.

Full Version 3 Specification target to be published in Nov 2022



Contact Details



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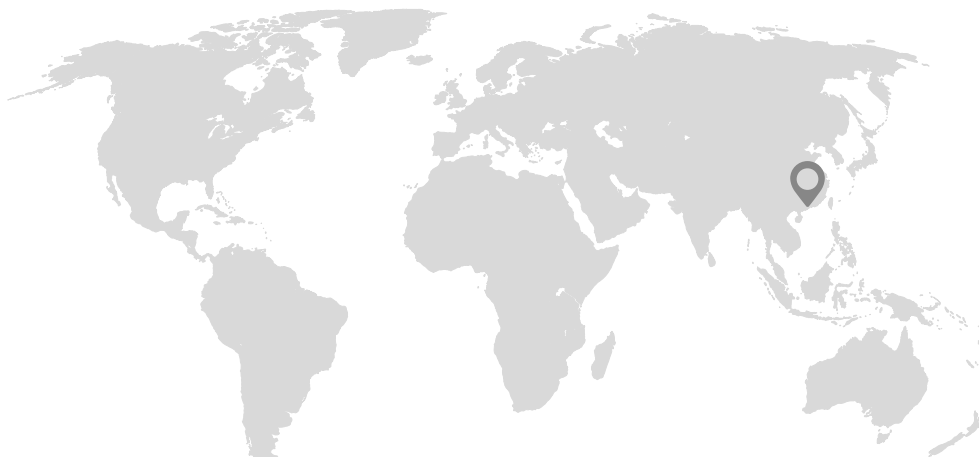
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