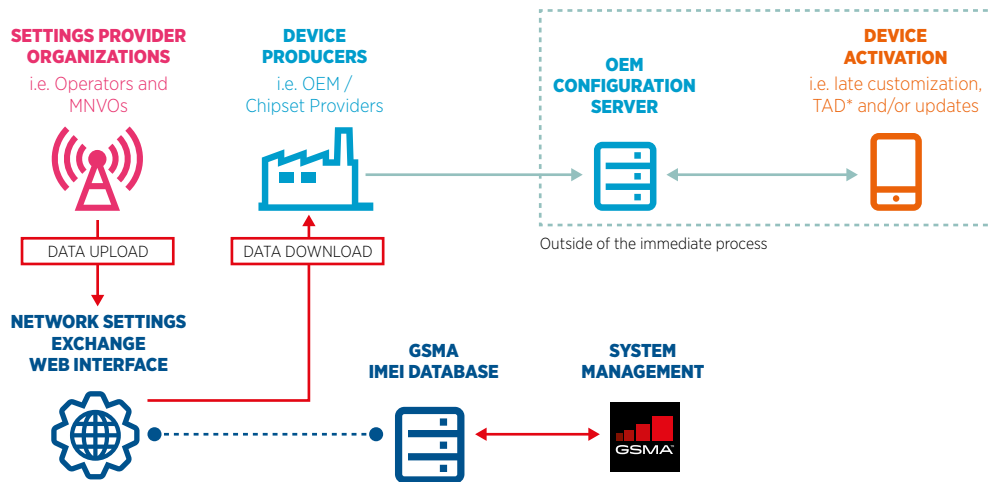**Network Settings Exchange**

AN INDUSTRY FIRST
THE WORLD'S FIRST NETWORK SETTINGS HUB FOR SMOOTH SIMPLE SHARING OF NETWORK SETTINGS INFORMATION FOR MOBILE DEVICES

A new central location for all mobile network operators (MNOs) and mobile virtual network operators (MVNOs) to upload their latest network settings for the world's device manufacturers to easily access and download. For the first time the industry has one location for the smooth simple sharing of network settings information with mobile device manufacturers.

Introducing GSMA Network Settings Exchange

GSMA Network Settings Exchange enables operators to distribute their network settings to device manufacturers around the world through a single secure location, to enable the correct technical configuration of open market (OMD)/non-provisioned mobile devices. It is now straightforward for these types of mobile devices to be configured accurately with correct network settings information to ensure an optimized experience for all users across different MNO/MVNO networks.

Growth in open market devices / non-provisioned mobile devices

The demand for OMD handsets is increasing as consumers opt to purchase new or reused devices direct from manufacturers or operator-neutral retailers, or are simply swapping out their connectivity provider. In 2018, the US market sales of open market / non-provisioned mobile devices grew by 27%. (NPD report - 2018)

Currently, OMD technical configuration occurs at first insertion of the SIM by a process known as Late Customization. However, because network settings information is typically shared via

individual bi-lateral agreements only a small proportion of manufacturers regularly receive the latest customized versions.
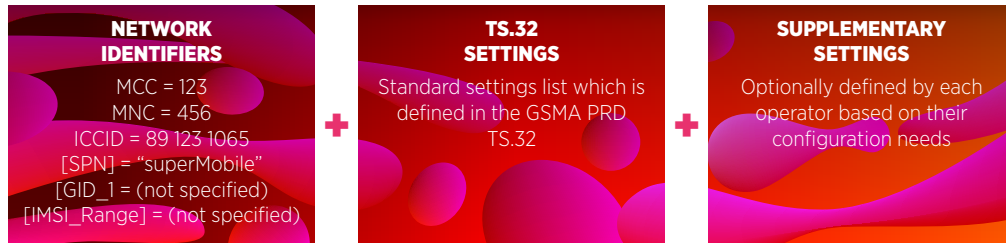
Consequently, many mobile device manufacturers configure their devices using generic or legacy settings meaning the devices once activated are unlikely to deliver specific network services or the newer network services such as VoLTE. This causes a poor user experience, unnecessary frustration and reflects poorly on both the device and connectivity provider brands.

Network Setting Exchange stakeholders

SETTINGS PROVIDER ORGANIZATIONS
i.e. Operators and MNVOs

DEVICE PRODUCERS
i.e. OEM / Chipset Providers

OEM CONFIGURATION SERVER

DEVICE ACTIVATION
i.e. late customization, TAD* and/or updates

DATA UPLOAD

DATA DOWNLOAD

Outside of the immediate process

NETWORK SETTINGS EXCHANGE WEB INTERFACE

GSMA IMEI DATABASE

SYSTEM MANAGEMENT

GSMA

* Technical Adaptation of Devices (TAD) is the technical configuration of a device using Late Customisation

How it works

1.
Networks upload their latest network settings and updates to the Network Settings Exchange platform

2.
Manufacturers signed up to the service have access to these settings to host on their servers

3.
Consumers booting up a device for the first time automatically receive the correct and most up-to-date settings

The Network Settings core components

The service requires the settings provider organizations, MNOs and MNVOs, to upload their information in a uniform manner, the diagram below lays out the three key groups of settings.

NETWORK IDENTIFIERS
MCC = 123
MNC = 456
ICCID = 89 123 1065
[SPN] = "superMobile"
[GID_1 = (not specified)
[IMSI_Range] = (not specified)

+

TS.32 SETTINGS
Standard settings list which is defined in the GSMA PRD TS.32

+

SUPPLEMENTARY SETTINGS
Optionally defined by each operator based on their configuration needs

GSMA Network Settings Exchange key benefits

A GLOBAL REACH
The GSMA will bring together over 1500 manufacturers, and 1000 network operators and virtual network operators from around the world to access the Network Settings Exchange service.

CONSISTENT FORMAT
The GSMA Network Settings Exchange template ensures network settings information is delivered in a standardized and consistent format to support the easy transfer of information between operators and manufacturers.

STAY UP TO DATE
Manufacturers no longer need to check whether the network settings stored on their servers are the latest available. As soon as new settings are uploaded or updated, the Network Settings Exchange emails you – direct to your inbox.

MASS DOWNLOAD
The service allows manufacturers to download as many network settings as they need in a one go. The days of receiving information on an individual basis really are gone!

ON DEMAND REPORTING
The service provides operators with instantaneous reporting to keep track of who has accessed and when they downloaded your network settings information.

OPTIMIZED NETWORK EXPERIENCE
Open market / non-provisioned devices not configured correctly can deliver a sub-optimal network experience which can lead to customer complaints. This service enables operators and manufacturers to deliver the most accurate and up to date network settings to devices, helping customers to enjoy best possible experience from the moment the SIM card is activated.

To learn more or apply online

imeidb.gsma.com/networksettingsexchange