



Network Settings
Exchange

SETTINGS



TIME TO TAKE CONTROL

MAKE SURE YOUR NETWORK SETTINGS ARE CORRECT ON
90% OF THE WORLD'S DEVICES

MNOs and MVNOs, you and your subscribers deserve so much more

The move to 4G and 5G packet technology and the fact that more and more mobile devices are bought on the open market, means mobile network operators (MNOs) and some mobile virtual network operators (MVNOs) are having to rely on default settings for devices on their networks. This is a cause of customer complaints, as a device that has not been configured with the correct device network settings cannot provide all the services the end user expects. Not to mention the inefficiencies and costs to you, the operator.

Add to this the ever-growing number of devices, models, as well as OEMs, and it's become very difficult to maintain the one-to-one relationships that in the past made sure your latest settings were always updated. For instance, an operator might only have the time and resources to share settings with 20 OEMs, although they've identified 1000 different device models on their network.



So, what is the GSMA Network Settings Exchange?

A secure central location for MNOs and MVNOs to upload and maintain their latest network settings, so the world's device manufacturers can easily download them – they're all the settings needed to make sure the devices on your network operate efficiently, including the vital IMS settings.

How it works

1.

Operators upload their latest device network settings to the GSMA Network Settings Exchange platform



2.

Device manufacturers are notified of new or updated settings, and download these settings to their local servers



3.

New subscribers switching on their device receive the correct and most up-to-date settings, while current subscribers receive updated settings for ongoing optimal performance



The future of your network depends on it

This is why the GSMA Network Settings Exchange was created, in collaboration with the Terminal Steering Group – a unique solution to address the device settings challenge, giving you more control over them. It's come at just the right time, with the switch to 4G and 5G on the horizon, and the sun setting over 2G and 3G circuit technologies, because now there's an essential need for the right device network settings that allow VoLTE and ViLTE to run smoothly. When an MNO switched off 2G and rolled out ViLTE, there was a 300% increase in customer complaints as 50% of devices on their network could not run video call services.



Take control with these benefits



BETTER CUSTOMER EXPERIENCE

Make sure your services run as smoothly as possible, as OEMs are able to download your latest settings quickly and easily, then configure them to your end users' devices. This way, along with the basic services, your subscribers can enjoy the multitude of apps that rely on the more sophisticated 4G and 5G technologies.



REDUCED COSTS

Reduce operational costs with the ability to upload your latest settings, for over 300 device manufacturers to download – in one go. It takes time, resource and cost to make arrangements with those manufacturers individually.



LOWER CUSTOMER CHURN

By giving your subscribers the services they expect, they're less likely to leave to go to another network that supports those services.



FUTURE-PROOFED NETWORK

Be ready for the 4G and 5G switchover, by making sure the more intricate IMS and APN settings are configured correctly on devices in your network. In the future, subscribers and businesses will continue to demand the quality and speed of services like VoLTE and ViLTE, and the big-data capacity of 5G.



REACHING THE WORLD'S OEMS

The GSMA Network Settings Exchange provides a standardised template, so operators can share settings far more quickly and easily with OEMs across the world – it's one upload that can be downloaded to their local servers.



ROAMING RELIABILITY

Ensure your Device Network Settings are correct on devices that switch to your network, especially the complex ones associated with 4G and 5G, so your services run efficiently, and the end user has a good experience when roaming on your network.



SECURE DATA

You control which OEMs can see your settings. The service also provides instantaneous reporting, so you can keep track of which OEMs have downloaded your settings, which ones they downloaded and when, plus how many times.

The vital settings for an optimal network

The 3 groups of settings required from MNOs and MVNOs are laid out below. They've been decided in collaboration with manufacturers and network operators around the world, through the GSMA Terminal Steering Group.

GENERAL SETTINGS

Operator/MVNO name and MCC, MNC

APN info

Registration settings

Local numbering format policy

Voice bearer preferences (home and roaming)

Local break out or home routing preferences when roaming

Circuit switch fall back preferences

WiFi to Cellular handover preferences

Voice/Video over WiFi preferences

Emergency call over WiFi parameters

IPv4 and IPv6 support

IMS / IP SERVICES

Voice/Video over LTE preferences

Conference bridge platform address and settings

Voice composer (presence) preferences

RCS Capability Discovery preferences

RCS – Integrated or separate IMS core

SMS over IP and alphabet

Supplementary Service platform address and settings

USSD over IP

SIP signalling parameters

Voice/Video codec and bandwidth preferences

RADIO SETTINGS

LTE radio signalling parameters

LTE radio, mode and bearer transmission parameters

2G, 3G, 4G handover preferences

3G settings

2G settings

CDMA 2000 and TD SCDMA support

Data centric only device designation

Other GSMA Services



TAC Databases

The originating source of TAC, our data accurately identifies type of device, the model and its attributes for device validation, network management and marketing purposes.



Device Check

A look-up service that uses the flagged IMEIs from the GSMA Device Registry to quickly identify the status of a device, i.e. reported lost, stolen, broken or found.



Device Registry

Cross border exchange of IMEI data between Mobile Network Operators and trusted third parties for common good.



TAC Allocations

We issue the 3GPP-specified device identifiers and certificates for all connected devices and equipment types, on behalf of the global mobile industry.

