Contents

Introduction .................................................................................................................. 4
Registration ................................................................................................................. 4
Login ............................................................................................................................. 9
  Login for the first time ............................................................................................... 11
Forgot Password ......................................................................................................... 12
Change Password ....................................................................................................... 14
Dashboard on first time login .................................................................................... 16
Upload Settings and share to OEMs ......................................................................... 17
  View Uploaded File .................................................................................................. 18
  Delete Uploaded File ................................................................................................. 18
  Download Uploaded File ......................................................................................... 18
New OEM Onboards .................................................................................................... 19
View All OEMs ............................................................................................................ 19
Update your Profile ..................................................................................................... 20
Additional User Registration ...................................................................................... 21
Annual Subscription Renewal ..................................................................................... 21
Document History

<table>
<thead>
<tr>
<th>Version</th>
<th>Date</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
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</tr>
</tbody>
</table>

Document References

<table>
<thead>
<tr>
<th>Reference</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TS.32</td>
<td>[View document here]</td>
</tr>
<tr>
<td>TS.36</td>
<td>[View document here]</td>
</tr>
</tbody>
</table>

Abbreviations

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NSX</td>
<td>GSMA Network Settings Exchange</td>
</tr>
<tr>
<td>MNO</td>
<td>Mobile Network Operator</td>
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<tr>
<td>MVNO</td>
<td>Mobile Virtual Network Operator</td>
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<td>OEM</td>
<td>Original Equipment Manufacturer</td>
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<tr>
<td>IMEI Db</td>
<td>IMEI Database</td>
</tr>
</tbody>
</table>
Introduction

GSMA Network Settings Exchange as defined in TS.36 is to be used to enable the efficient transfer of settings, for the automatic technical configuration of mobile devices, not sold through the MNO sales channels, to ensure that the device can provide the customer with the services being promoted and offered by the MNO.

GSMA Network Settings Exchange will contain settings from all mobile network operators (MNOs), including mobile virtual network operators (MVNOs) and provide them to all Original Equipment Manufacturers (OEMs) in order to allow for the appropriate customisation of their devices, through one database.

This document helps an MNO / MVNO user to register for an account and understand how to upload and share their settings with the OEMs.

Registration

MNOs and MVNOs must register in the GSMA IMEI Database to access the GSMA Network Settings Exchange service.

Follow the steps below to register for the network settings exchange account.

Note: If you already have an account with the IMEI Database, you will need to register separately to open a GSMA Network Settings Exchange service account.

To get started, enter the IMEI Database URL https://imeidb.gsma.com in your web browser and click through to the GSMA Network Settings Exchange product page or go directly to the GSMA Network Settings Exchange product home page.

Click the relevant MNO / MVNO “APPLY NOW” button within the Online Application Process (see below Fig 1: GSMA Network Setting Exchange product home page)
The GSMA Network Settings Exchange has been developed in collaboration with manufacturers and network operators around the world, through the GSMA Terminal Steering (TS) Group.

An industry first, this new service provides operators’ one location to distribute their latest network settings information to manufacturers around the world. This allows accurate configuration of non-provisioned / open market mobile devices to ensure they can support the customer with the services being promoted and offered by the MNO / MVNO from the first insertion of a SIM.

**SERVICE BENEFITS**

**ONE GLOBAL LOCATION**
Seamless access to the latest network settings for device manufacturers.

**TIME EFFICIENT**
No need to share network settings with individual device manufacturers.

**OPTIMIZED CUSTOMER EXPERIENCE**
Customers receive the right settings, even if the device is not provisioned to a network.

**HOW IT WORKS**

1. Operators upload their latest settings to the GSMA Network Settings Exchange platform.

2. Manufacturers visit one location for seamless access to the latest network settings to host on their servers.

3. When non-provisioned devices access these settings, they will be configured correctly.

**ONLINE APPLICATION PROCESS**

**MORE INFORMATION**

**MOBILE NETWORK OPERATORS (MNOs) / MOBILE VIRTUAL NETWORK OPERATORS (MVNOs)**
Select appropriate licence type

**OEMs / CHIPSET PROVIDER**
Submit application form

**PDF DOWNLOAD**

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Figure 1: GSMA Network Settings Exchange Home page
Select the licence appropriate for your organisation.

**Enterprise Licence process**

Select the enterprise license and move directly to complete a registration form and to accept the service Terms of Use. The GSMA will then issue an invoice for the annual licence fee. Once payment is received your account will then be activated.
a. Once you select enterprise license, the registration form will be displayed as shown below:

![Registration Form](image)

**Figure 3: MNO/MVNO Organisation Registration form**

b. Provide the mandatory details and submit the form.

c. Once you submit the form, you then need to read, sign and accept the GSMA Network Settings Exchange Terms of Use.

d. Include a PO number if it is required on your invoice. The invoice will be sent directly to you and copied to the finance contact person provided by you in the registration form.

e. Providing the signee details is the way of signing / accepting the Terms of Use. An invoice cannot be raised before the Terms of Use are accepted.

![Terms and Conditions](image)

**Figure 4: MNO / MVNO Organisation Terms of Use signing page**

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GSMA Network Settings Exchange MNO/MVNO User Manual v1.01 November 2019
f. If there are any errors with the information provided, the system will alert you and allow you to make revisions. Resolve any issues identified by the system and click submit.
g. Once the form is complete, click submit to complete the registration.

On successful completion of the registration, the main contact will receive a system generated e-mail acknowledgement and an invoice for the GSMA Network Settings Exchange annual licence fee will be provided via email to the contact listed. Once the payment is received, GSMA will approve your registration.

On approval, an organization ID will be generated and your service account will be created. The organization ID along with the username and system generated password will be sent in an email to the main contact of the organisation. The username and the password should be used to login and access the service.

Multi-Affiliate Licence process

If you choose multi-affiliate license, you will be redirected to the MNO / MVNO Enquiry Form as shown below. This form will be directed to one of the GSMA Client Relations Outreach team members who will contact you to discuss your requirements. PLEASE NOTE TO QUALIFY FOR A MULTI-AFFILIATE DISCOUNT THERE CAN ONLY ONE SINGLE CENTRAL PROUCREMENT AND BILLING ADDRESS. The main contact will be licensed to add settings for their affiliates rather than just for their own network.

Figure 5: MNO / MVNO Multi-Affiliate Enquiry Form
Login

To login to the service you can navigate through the IMEI Database URL and through to the GSMA Network Settings Exchange product page or by entering the link below directly in your web browser

https://imeidb.gsma.com/nsx

The GSMA Network Settings Exchange homepage will be displayed as shown below

Figure 6: GSMA Network Settings Exchange homepage
Enter your username and password provided at the time of registration.

If the user ID and password does not match the details available in the database, the system will display an error 'Invalid Username / Password'.

On successful entry of user ID and password, the system will redirect to the Account Security Question page as shown in Figure below. You must give a correct security answer to login successfully into the system.

Figure 7: Account Security Question

On successful authentication, the system will log in to the GSMA Network Settings Exchange and the dashboard will be displayed.
**Login for the first time**

On the first login after the registration, you will be prompted to change the system generated password provided at the time of registration as shown in Figure below.

The system will allow access to other functions only after successfully changing the password and setting Security Question & Answers.

![Change Password & Security Questions](image-url)

*Figure 8: Change Password & Security Questions*
Forgot Password

If the password is forgotten or lost, it can be retrieved by selecting the Forgot Password option from the login screen as shown in Figure 9. The organisation Id for the account is required to begin the password retrieval process.

1. Go to GSMA Network Settings Exchange homepage.
2. Click on Forgot Password link displayed below the login form.
3. The system would change the display to enter organisation ID.
4. Provide the username in the ‘User ID’ field.
5. As an additional security, a Captcha text must be entered as shown in Figure 6.
6. Click ‘Send me reset instruction’.

Figure 9: Forgot Password
Figure 10: Retrieve Password

Once you submit the information, the system verifies the details and sends the reset password instructions to your registered email id. The message ‘Forgot Password request successful’ will be displayed as shown in Figure 11 below.

Figure 11: Forgot Password request success

On receiving the reset email, you can click on the reset link and change your password by following the instructions.
Change Password

The user can also change the password anytime using the menu ‘User Management > Change Password’. The screen below will be displayed

1. Enter the old password
2. Enter the new password
3. Enter the new password again in the Confirm Password field
4. Click Confirm.

The new password should follow the IMEI Database password rules mentioned on the password policy as shown in Figure 12 below.

![Change Password Form]

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Figure 12: Change Password & Security Questions
On successful change of new password, the system will display a confirmation message as shown in Figure below.

![Password Change](image.png)

**Figure 13: Password Changed**

The password will be valid for a period of 60 days. After 60 days, the password will expire, and the user is required to change the password after login.
Dashboard on first time login

The processes described in this section can also be viewed by watching the Service Demo here.

Once you login to your account the first time after your organisation’s account is successfully created and access is provided, the following page will be displayed.

This page lists all the OEMs that are currently registered to the GSMA Network Settings Exchange and, if you click on the right hand radial button, the OEMs registered in the GSMA IMEI Database for TAC allocation, but who have yet to register to gain access to this service.

This page allows you to reject the OEMs who are currently registered and who may register so that they cannot appear in the list of the OEMs when you upload the settings.

By default, all OEMs who have access to GSMA Network Settings Exchange can view and download the settings uploaded by your organisation. You can restrict the availability of your settings file by providing the download privilege only to OEMs you select during the upload process (Refer section “MNO Upload settings form”).

The list of OEMs is shown in two pages

1. First page lists the OEMs registered for GSMA Network Settings Exchange
2. Second page lists the OEMs from IMEI Database who have yet to register for the service

You can reject the OEMs one by one or by selecting multiple organisations and click Reject.

To list all OEMs in each page, click List All.

To find an organisation you can search by organisation name or by country.
Upload Settings and share to OEMs

To upload settings, go to menu Settings Management and select ‘Upload Settings’

The form in Figure 15, as shown below, will be displayed.

Before uploading the settings ensure you have filled in the Settings file with the necessary setting details. In case you do not have the settings template, you can download the template from the


The upload settings form will accept the settings file in the .xls or .xlsx format only

Provide the Mobile Country Code (MCC) and Mobile Network Code (MNC) supported by the settings. Note, the MCC and MNC are listed based on the values provided during registration. These fields are mandatory to be filled when uploading the file.

You can also provide other identifiers for the file, the Service Provider Name, Group Identifier Level_1 (GID_1), International Mobile Subscriber Identity (IMSI) MSIN Start, International Mobile Subscriber Identity (IMSI) MSIN Stop, Integrated Circuit Card Identifier (ICCID). These are optional fields.

To add multiple identifiers for the file, click the + sign after adding an identifier.

Select the file from your system and click upload. In case of any validation issues, the system will display the error message. Please correct the information and upload the file again.

Figure 15: MNO Upload Settings Form → Upload Form
Once successfully uploaded, you can select the OEMs to whom the settings file can be shared. By default, all OEMs approved by you can receive the file, however, you can uncheck any OEM to whom you do not want to share the settings. Similarly, you can also select any OEM from the rejected list to receive the settings file.

![MNO Upload Settings Form](image)

**Figure 16: MNO Upload Settings Form → OEM Access**

After making the selections, you can submit the form. The settings is uploaded to the GSMA Network Settings Exchange platform and an email is sent to all OEMs who were selected by you to receive the file.

**View Uploaded File**

You can view the uploaded file via Settings Management -> View Uploaded Settings. See image below. The list will display the files uploaded by you or any other contacts from your organisation. Click the ‘Selected OEMs’ icon to view the list of OEMs who were selected to receive the file.

![List of Uploaded Files](image)

**Figure 17: List of Uploaded Files**

**Delete Uploaded File**

You can remove the file from the GSMA Network Settings Exchange platform by clicking the ‘Delete’ icon respective to the file. You will be requested to confirm the deletion. Once you confirm, the file will be removed from the service. The file will no longer be available for the OEMs to download.

In case of any errors in the file or to modify the details in the file, you should remove the file first and upload a new file.
Download Uploaded File
You can download the file by clicking the ‘Download’ icon respective to the file. The file will be downloaded to your local system.

New OEM Onboards
When a new OEM registers to the GSMA Network Settings Exchange the main contact will receive an email notification. The new OEMs are approved by default to receive your settings file. If your organisation choose to reject any new OEMs from receiving your settings, follow the steps below;

1. Login to your account
2. Go to Registered OEMs -> New OEMs
3. The list of new OEMs will be displayed as shown in the picture below
4. Click on Reject respective to the OEM you would like to reject. The rejected OEM will be removed from the list

![New OEM List](image)

Figure 18: New OEM List

The new OEMs will be shown in the list for a period of 15 calendar days after which there is no provision to reject the OEM. However, the OEM can be deselected from the ‘Approved’ list while uploading a settings file (Refer section “View All OEMs”).

View All OEMs
To view the complete list of OEMs registered to the GSMA Network Settings Exchange, go to menu Registered OEMs and click on ‘View All OEMs’.

The list as shown below will be displayed.

You can filter the list either by status (Approved or Rejected by your organisation) or search by name.
Update your Profile

To view your account details, click ‘User Profile’ on the top right of your account once logged in. You can edit your details by clicking ‘Edit Profile’. The form as shown below will be displayed.

You can update the details below

- Job Title
- Email Address
- Telephone Number
- Mobile Phone Number

Once submitted, the details will be reviewed and approved by the GSMA Helpdesk.
Additional User Registration
To add additional users, contact the GSMA IMEI Helpdesk at imeihelpdesk@gsma.com

Annual Subscription Renewal
You will receive a notification 90 days before the expiry of the annual subscription. GSMA will raise a new invoice for the renewal of the subscription. Once payment is cleared for the renewal your account subscription will be renewed for a period of one year.

In case the subscription renewal fee is not paid before the end of the subscription period, your account will be deactivated. You will not be able to login to your account and upload settings.

The account will be activated once the renewal payment is received by GSMA.