



GSMA Network Settings Exchange User Guide for

Mobile Network Operators and Mobile Virtual Network Operators

Version 3.0

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Document History

Version	Date	Description
V1.0	22 September 2019	First release of GSMA Network Settings Exchange user manual
V2.0	19 December 2019	Edit Settings Online
V3.0	15 October 2020	Registration Amendments and File Download workflow additions

Document References

TS.32	View document here
TS.36	View document here

Abbreviations

NSX	GSMA Network Settings Exchange
MNO	Mobile Network Operator
MVNO	Mobile Virtual Network Operator
OEM	Original Equipment Manufacturer
IMEI Db	IMEI Database

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 for an Enterprise Licence

MNOs and MVNOs who require an Enterprise Licence (rather than a Multi-affiliate Licence) 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 “GET IN TOUCH” button.

(see below Fig 1: GSMA Network Setting Exchange product home page)

GSMA **IMEI DATABASE** MNO / MVNO Demo FAQs Participants Helpdesk

The world's first network settings hub for smooth, simple sharing of network settings information for mobile devices.
GSMA NETWORK SETTINGS EXCHANGE

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.

User ID
Password
Forgot Password? **LOGIN**

HOW IT WORKS

- Operators upload their latest settings to the GSMA Network Settings Exchange platform.
- Manufacturers visit one location for seamless access to the latest network settings to host on their servers.
- When non-provisioned devices access these settings, they will be configured correctly.

FIND OUT MORE

MNOs and MVNOs
View licence types and enquire today
GET IN TOUCH

OEMs / CHIPSET PROVIDER
Submit application form
CREATE ACCOUNT

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

MORE INFORMATION

PRODUCT BROCHURE

MNO / MVNO USER GUIDE

OEM USER GUIDE

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

Figure 1: [GSMA Network Settings Exchange Homepage](#)



IMEI DATABASE

[MNO / MVNO Demo](#) | [FAQs](#) | [Participants](#) | [Helpdesk](#)



Network Settings Exchange

MNO / MVNOs – Licencing Options and Get in Touch

GSMA Network Settings Exchange requires the settings provider organisations to pay a nominal annual fee to use the service. In return your organisation has access to one central repository to upload your settings in a standardised format for the world's OEM community to ingest. With the number of late customisation / open market devices on the increase it has never been more important that devices at the point of manufacture have the correct network settings information.

Submit your details below and a member of the team will be in touch to discuss your requirements.

<p>* First Name</p> <input style="width: 90%;" type="text"/>	<p>* Last Name</p> <input style="width: 90%;" type="text"/>
<p>* Company Name</p> <input style="width: 90%;" type="text"/>	<p>* Job Title</p> <input style="width: 90%;" type="text"/>
<p>* Email Address</p> <input style="width: 90%;" type="text"/>	<p>* Country / Region</p> <input style="width: 90%;" type="text"/>

* Message

EMAIL CONSENT

To ensure you stay up-to-date on the latest developments in the mobile industry, the GSMA would like to send you information about events, products, services and initiatives, as well as industry news. Please subscribe by ticking this box; once subscribed, you can tailor what you receive from us at any time, or unsubscribe, should you wish.

I'm not a robot



reCAPTCHA
Privacy - Terms

reCAPTCHA helps prevent automated form spam.
The submit button will be disabled until you complete the CAPTCHA.

Figure 2: [Enterprise or Multi-Affiliate Licence options](#)

Fill in the contact form as displayed on Figure 2 and a member of the GSMA Client Relations Outreach team will contact you to discuss your requirements.

Enterprise Licence process

The GSMA will issue an invoice for the annual licence fee. Once payment is received, the GSMA helpdesk will send a link to register your organisation.

- a. Once you select the link, the registration form will be displayed as shown below:

IMEI DATABASE Home

New MNO / MVNO Registration

Note: The GSMA Network Settings Exchange is the central location for seamless sharing of network settings information with mobile device manufacturers. Network settings uploaded to the service will be accessed by manufacturers from around the world and can be used to enable the accurate configuration of non-provisioned mobile devices using your network. Mobile devices configured to the latest and most appropriate network settings are then able to deliver an optimised network experience to your customers. Register now for your annual licence using the form below.

Operator Details

Operator Name:

Operator Type:

Address Line 1:

Address Line 2 [Optional]:

City:

State/Province/Region:

Zip/Postal/Area Code:

Country:

Mobile Country Code (MCC):

Mobile Network Code (MNC):

Website [Optional]:

Telephone Number:

Note

- * Operator Name - Only one Operator name is allowed per registration form.
- * Country - Select the country where your head office is located from the drop down list.
- * Multiple Mobile Country Code (MCC) values can be provided separated by comma. Each Mobile Country Code (MCC) values shall be 3 digits between 000 - 999 digits
- * Multiple Mobile Network Code (MNC) values can be provided separated by comma. Each Mobile Network Code (MNC) value shall be 2 - 3 digits between 00 - 999
- * Telephone Number - To be completed in an international format. This should be the office main switch board phone number.

Main Contact Details

Title: Mr Miss Mrs Ms Dr

First Name:

Last Name:

Job Title:

Email:

Telephone Number:

Mobile [Optional]:

Next

* Telephone Number - To be completed in an international format. This should be the main contact's own phone number. Example:
 1. USA: 12481234507.
 2. UK: 449456123456.
 3. China: 861050445454

Figure 3: MNO/MVNO Organisation Registration form

- b. Provide the mandatory details and submit the form.
- c. 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.
- d. 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.

Once the registration request is received, the helpdesk will activate your account. 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 require a multi-affiliate license, fill in the contact form as displayed on Figure 2 and a member of the GSMA Client Relations Outreach team will contact you to discuss your requirements. PLEASE NOTE TO QUALIFY FOR A MULTI-AFFILIATE DISCOUNT THERE CAN ONLY ONE SINGLE CENTRAL PROUCEMENT AND BILLING ADDRESS. The main contact will be licensed to add settings for their affiliates rather than just for their own network.

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

IMEI DATABASE Contact

The world's first network settings hub for smooth, simple sharing of network settings information for mobile devices.
GSMA NETWORK SETTINGS EXCHANGE

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.

USER ID

PASSWORD

[Forgot Password?](#) **LOGIN**

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

- MOBILE NETWORK OPERATORS (MNOs) / MOBILE VIRTUAL NETWORK OPERATORS (MVNOs)**
Select appropriate licence type
APPLY NOW
- OEMs / CHIPSET PROVIDER**
Submit application form
CREATE ACCOUNT
- PDF DOWNLOAD**

Figure 5: 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.



The image shows a web form titled "Account Security Question". At the top left of the form is a red padlock icon. The title "Account Security Question" is in a large, bold, black font. Below the title, there are two input fields. The first is labeled "Security Question" and contains the text "Favourite Colour". The second is labeled "Security Answer" and is empty. At the bottom of the form is a large orange button with the text "Verify" in white.

Figure 6: 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.

The image shows a web interface for user registration. It is divided into two main sections: 'Change Password' and 'Security Questions'.

Change Password Section:

- Header: Change Password (with a lock icon)
- Text: This is your first login. Change the temporary password provided to you.
- Section: Password Policy
 - At least 8 characters in length. Maximum 15.
 - Contains at least 1 lowercase character (a through z)
 - Contains at least 1 uppercase character (A through Z)
 - Contains at least 1 numeric digit
 - Contains at least 1 non-alphanumeric character (!, ~, ^, #, @, &, *, \$, (,), +, ?, /, _ , -)
- Form: Two input fields labeled 'Enter New Password' and 'Confirm New Password'.

Security Questions Section:

- Header: Security Questions (with a shield icon)
- Text: Create 5 mandatory questions and answers which you can remember. The system will use a question to authenticate when you login.
- Form: Two columns of input fields. The left column is labeled 'Security Questions' and the right column is labeled 'Security Answers'. There are five rows of input fields.
- Button: A 'Confirm' button at the bottom center.

Figure 7: Change Password & Security Questions

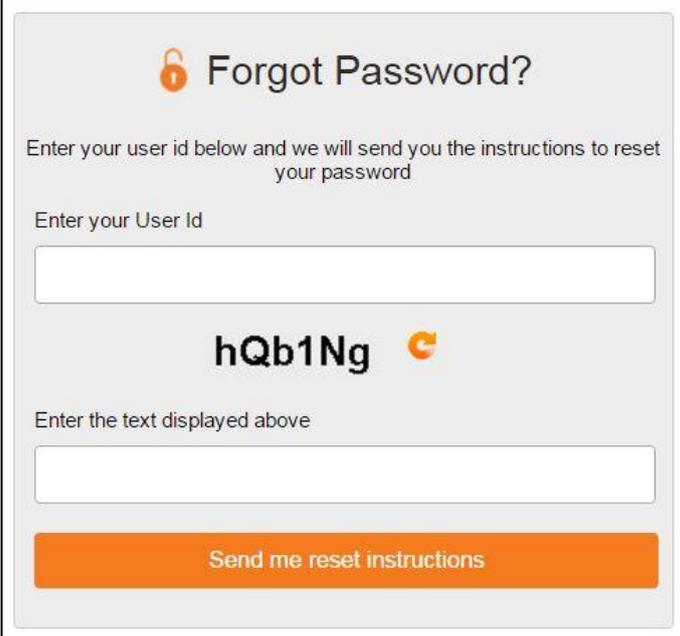
Forgot Password

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 user 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 user 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'.

The screenshot shows the GSMA Network Settings Exchange homepage. At the top left is the GSMA logo, and at the top right is a 'Contact' link. The main banner features the text: 'The world's first network settings hub for smooth, simple sharing of network settings information for mobile devices. GSMA NETWORK SETTINGS EXCHANGE'. Below the banner, there is a paragraph of text: '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.' To the right of this text is a login form with fields for 'User ID' and 'Password', a 'Forgot Password?' link circled in red, and a 'LOGIN' button with a right arrow. Below the login form are three service benefit cards: '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), and 'OPTIMIZED CUSTOMER EXPERIENCE' (Customers receive the right settings, even if the device is not provisioned to a network). Underneath these are three 'HOW IT WORKS' steps: 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. At the bottom, there are three 'ONLINE APPLICATION PROCESS' cards: 'MOBILE NETWORK OPERATORS (MNOs) / MOBILE VIRTUAL NETWORK OPERATORS (MVNOs)' (Select appropriate licence type, APPLY NOW), 'OEMs / CHIPSET PROVIDER' (Submit application form, CREATE ACCOUNT), and 'PDF DOWNLOAD' (PDF DOWNLOAD).

Figure 8: Forgot Password



Forgot Password?

Enter your user id below and we will send you the instructions to reset your password

Enter your User Id

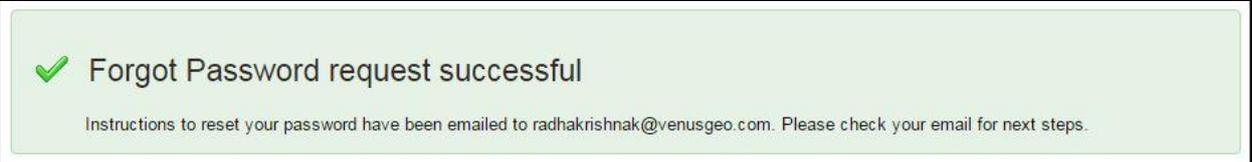
hQb1Ng 

Enter the text displayed above

Send me reset instructions

Figure 9: 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.



 **Forgot Password request successful**

Instructions to reset your password have been emailed to radhakrishnak@venusgeo.com. Please check your email for next steps.

Figure 10: 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 IMEIDB Database password rules mentioned on the password policy as shown in Figure 12 below.

 **Change Password**

IMEIDB's security guidelines requires you to change your password every 60 days.
Change your password to continue using IMEI Database.

Password Policy

- At least 8 characters in length. Maximum 15.
- Contains at least 1 lowercase character (a through z)
- Contains at least 1 uppercase character (A through Z)
- Contains at least 1 numeric digit
- Contains at least 1 non-alphanumeric character (!, ~, ^, #, @, &, *, \$, (,), +, ?, /, _ , -)

Old Password

New Password

Confirm New Password

Confirm

Figure 11: Change Password & Security Questions

On successful change of new password, the system will display a confirmation message as shown in Figure below.



Figure 12: Password Changed

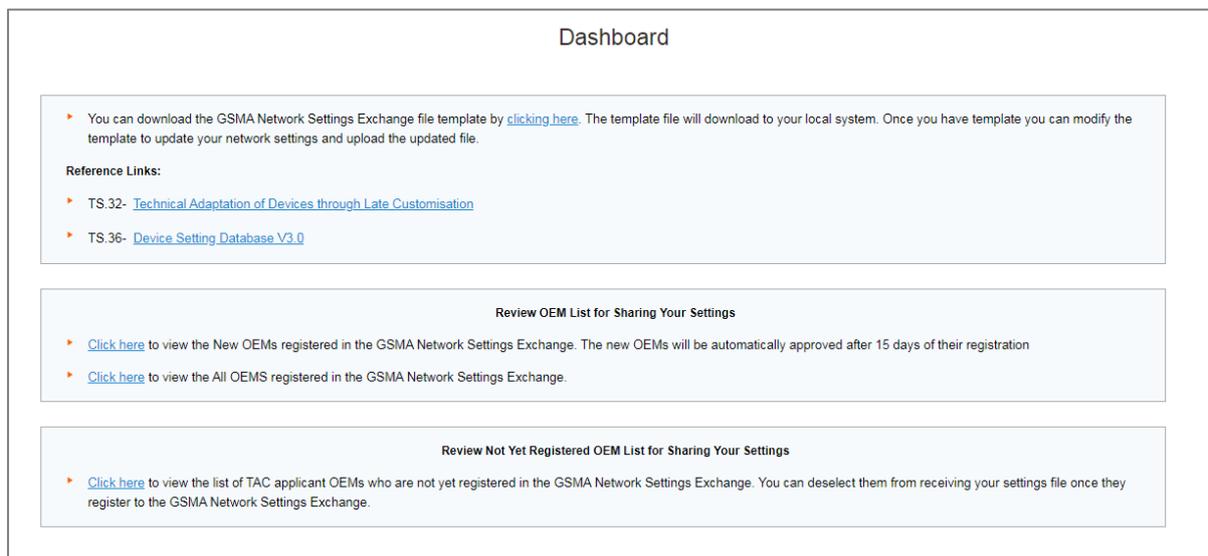
The password will be valid for a period of 60 days. After 60 days, the password will expire, and the user is required to change the password after login.

Dashboard

The processes described in this section can also be viewed [by watching the Service Demo here](#).

Once you login to your account, you will see the dashboard as shown in figure below

From the dashboard you can download the latest TS.32 settings file template) and the reference files of both TS.32 and TS.36



The dashboard also provides links to view the registered and unregistered OEMs and de-select them from receiving your settings file on upload.

Once you click on the link, the system will display list of OEMs as per the selected category as shown in the image below

Review OEM list

This page lists all the OEMs that are currently registered to the Network Settings Exchange and the new OEMs registered in the IMEI Database who are prospects to gain access to Network Settings Exchange

Review unregistered OEM list

This page lists all the OEMs that are currently registered to the IMEI database but not yet to the Network Settings Exchange

By default, all OEMs who have access to 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").

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

The screenshot displays the 'Review OEM List for Sharing Your Settings' page. At the top, there are navigation tabs for 'Account Settings', 'Settings Management', and 'Registered OEMs'. The main heading is 'Review OEM List for Sharing Your Settings'. Below this, there are two progress indicators: 'NSX REGISTERED OEMS' and 'NOT YET REGISTERED OEMS'. A note explains that the list shows OEMs registered in the GSMA Network Settings Exchange, approved by default, and that users can restrict access by default to any OEM by selecting them and clicking 'Reject'. The main content is a table with 10 rows, each representing an OEM. The table has columns for 'Select', 'ID No', 'OEM Name', and 'Country'. Below the table, there is a 'Reject' button and a checkbox option: 'Do not show this page again (Use this if you have completed your selection)'. At the bottom right, there is a link: 'Go to Not Yet Registered OEMs >>>'. The footer contains 'Copyright © GSMA' and links for 'Disclaimer', 'Terms of Use', 'Privacy Policy', and 'Cookie Policy'.

Select	ID No	OEM Name	Country
<input type="checkbox"/>	1	fsaf	Albania
<input type="checkbox"/>	2	OSMA-TEST	United Kingdom
<input type="checkbox"/>	3	OSMA-TEST	United Kingdom
<input type="checkbox"/>	4	OSMA-TEST	United Kingdom
<input type="checkbox"/>	5	Mara Phones Limited	Rwanda
<input type="checkbox"/>	6	Vertu International Corporation Limited	United Kingdom
<input type="checkbox"/>	7	Tyler Devices	United States
<input type="checkbox"/>	8	NTmore Co Ltd	Korea, Republic of
<input type="checkbox"/>	9	Rain drop	Afghanistan
<input type="checkbox"/>	10	Longsung Technology (Shanghai) Co Ltd	Mainland China

Figure 13: Review OEM List for Sharing Your Settings

The list of OEMs is shown in two pages

1. First page lists the OEMs registered in the NSX
2. Second page lists the OEMs from IMEI Database who are prospects to register to NSX

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 link below

<https://www.gsma.com/newsroom/wp-content/uploads//TS.32-v3.0.xlsx>

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.

NETWORK SETTINGS EXCHANGE

Logged in as : ungsvp001
GSMA MNO Test United States
310UMNO004505 | User Profile | Logout

MNO Upload Settings Form

UPLOAD FORM | OEM ACCESS

Download the latest GSMA Network Settings Exchange file template (TS.32 v5) provided with default values by [clicking here](#).

- The template file will download to your local system.
- You can add the recommended value for each setting in the 'MNO Recommended Value' column.
- The system will not accept in case the data type or data value is not of the required format.

Upload the filled in settings file using the form below. The file will be saved and processed within 24 hours. You will be notified once the processing is completed through email. The OEMs can download the settings only after the file processed successfully. In case of any failure, you can make changes to the file and upload the file again.

Reference Links:

TS.32- [Technical Adaptation of Devices through Late Customisation](#)

TS.37- [Device Setting Database V3.0](#)

1 Network Identifiers

MCC	MNC	IMSI (MSIN Start) [optional]	IMSI (MSIN Stop) [optional]	ICCID [optional]
--Select--	--Select--			MII MCC II 89

Service Provider Name (SPN) [optional] | Group Identifier Level_1 (GID_1) [Optional]

2 Upload File

Upload the settings file

Choose File | No file chosen

Supported file types are .xls and .xlsx

Abbreviations:

- MCC - Mobile Country Code, MNC - Mobile Network Code
- IMSI - International Mobile Subscriber Identity
- ICCID - Integrated Circuit Card Identifier
- MI - Major Industry Identifier, II - Issuer Identifier

Next

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You can download the latest settings file template by clicking the link here

Figure 14: MNO Upload Settings Form → Upload Form

You will be receiving an email acknowledging the file was uploaded to the GSMA Network Settings Exchange platform and that you will be receiving another email once the file process is complete. The format of the email is given below:

Subject: GSMA Network Settings Exchange – New File uploaded

Miss Joanna Fernandez,

This is to acknowledge the file **TS.32v3_upc at international.XLSX** has been received in the GSMA Network Settings Exchange.

The processing of the file is in progress and will be completed within a maximum of 24 hours. You will be notified through email once the file processing is complete.

Once the processing is successful, the approved OEMs will be notified of the new file.

For any clarifications please reach imeihelpdesk@gsma.com

Regards
GSMA IMEI Database Helpdesk

For and on behalf of GSMANetwork Settings Exchange.

Figure 16b: MNO Upload Settings Form → Email on file upload

Settings File Processing

The GSMA Network Settings Exchange platform picks up the setting files uploaded and queued for processing. The system will parse the settings file for valid information and also capture each setting data to the database. This will allow the MNO to later edit the settings data using the 'Edit Settings' menu online rather than upload the file again for minor settings data updates.

Once all the setting data is successfully uploaded to the GSMA Network Settings Exchange platform, an email notification is sent to all OEMs approved to receive your data.

In case of any incorrect information or missing information, the system will reject the file and an email will be sent to the user with the reason for rejection. The email will contain an attachment of log file which lists the settings that failed along with the reason for failure. This should help you to correct the data and re-upload the file.

The processing of the file should be complete within a couple of hours, however, sometimes it may take up to 24 hours in case there are a more setting files uploaded by different operators.

The format of the email when the file process is successful is shown below.

Subject: GSMA Network Settings Exchange – New File Processed Successfully

Content:

Miss Joanna Fernandez,

This is to acknowledge the file **TS.32v3_upc at international.XLSX** uploaded on 12 Dec 2019 has been processed successfully in the GSMA Network Settings Exchange.

The OEMs are then notified of the new file via the automated email service.

You can download a report of who accessed your settings using the below menu, after logging to GSMA Network Settings Exchange Settings Management --> File Download Report

For any clarifications please reach the Regards,
GSMA IMEI Database Helpdesk

For and on behalf of GSMA Network Settings Exchange

Note: This is a system generated email.

Figure 17.1 – Email to MNO on successful file processing

Below is the format of the email received when the file process failed due to some invalid data or file format.

Subject: GSMA Network Settings Exchange – Settings File Error

Miss Joanna Fernandez,

This is to let you know the settings file TS.32v3_upc at international.XLSX uploaded on 10 Dec 2019 had failed to process in the GSMA Network Settings Exchange.

The reasons for the reject are attached as a log file for your reference

Refer the TS.32 v5 for instructions on valid data to be provided

Please correct the data in the file and upload it again. The file is not yet shared with the selected OEMs.

For any clarifications please reach imeihelpdesk@gsma.com

Kind Regards,

GSMA IMEI Database Helpdesk - Network Settings Exchange.

Note: This is a system generated email.

Figure 17.2 – Email to MNO on failed file processing

View Uploaded File

You can view the status of the uploaded file via Settings Management -> View Uploaded Settings. The status will be indicated in orange where the file is still under processing. The indicator will change green once the file is successfully processed. File are notviewable until the case file failed as been validated and rejected. 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.

You can also view the uploaded files of group companies. However, you will not be able to Delete or Edit files uploaded by group companies.

Similarly, you cannot perform any action on the file that is still in processing

List of Uploaded Files								
S.No	File Name	Organisation Name	Upload By	Selected OEM's	Action	Status	Upload Date	Last Updated
1	TS_32v3_upc at international.XLSX	GSMAMNO Test, United States	Miss Joanna Fernandez			: File Processing in Progress	18 Dec 2019 05:38	18 Dec 2019 05:38
2	TS_32 v5.0_1.1.xlsx	Test MNO, India	Mr Stephen Jackson			: File Processing Completed	13 Dec 2019 06:15	13 Dec 2019 06:15
3	TS_32 v5.0_1.2.xlsx	Test MNO, India	Mr Stephen Jackson			: File Processing Completed	13 Dec 2019 04:40	13 Dec 2019 05:52
4	TS_32 v5.0_v1.xlsx	GSMAMNO Test, United States	Miss Joanna Fernandez			: File Processing Completed	08 Dec 2019 15:10	08 Dec 2019 15:23
5	TS_32 v5.0.xlsx	GSMAMNO Test, United States	Miss Joanna Fernandez			: File Processing Completed	08 Dec 2019 07:43	18 Dec 2019 04:49
6	Template_V1.xls	GSMAMNO Test, United States	Miss Joanna Fernandez			: File Processing Completed	03 Dec 2019 10:08	03 Dec 2019 10:14
7	TS_32v3_upc at international.XLSX	GSMAMNO Test, United States	Miss Joanna Fernandez			: File Processing Completed	06 Jun 2019 10:27	06 Jun 2019 10:27
8	TS_32v3_upc at national.XLSX	GSMAMNO Test, United States	Miss Joanna Fernandez			: File Processing Completed	06 Jun 2019 10:27	06 Jun 2019 10:27
9	TS_32v3_upc ch international.XLSX	GSMAMNO Test, United States	Miss Joanna Fernandez			: File Processing Completed	06 Jun 2019 10:26	06 Jun 2019 10:26
10	TS_32v3_upc ch salt national.XLSX	GSMAMNO Test, United States	Miss Joanna Fernandez			: File Processing Completed	06 Jun 2019 10:26	06 Jun 2019 10:26
11	TS_32v3_upc hu international.XLSX	GSMAMNO Test, United States	Miss Joanna Fernandez			: File Processing Completed	06 Jun 2019 10:25	06 Jun 2019 10:25
12	TS_32v3_upc hu national.XLSX	GSMAMNO Test, United States	Miss Joanna Fernandez			: File Processing Completed	06 Jun 2019 10:25	06 Jun 2019 10:25
13	TS_32v3_virgin mobile.ie	GSMAMNO Test, United States	Miss Joanna Fernandez			: File Processing Completed	06 Jun 2019 10:24	06 Jun 2019 10:24

Figure 18: List of Uploaded Files

Delete Uploaded File

You can remove the file from the 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 Network Settings Exchange. The file will no longer be available for the OEMs to download.

In case of 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 download to your local system

Edit Uploaded File

You can edit any settings data of a file by clicking the 'Edit' icon respective to the file. See 'Edit Settings' section for details

Edit Settings

Once you click on Edit Settings icon under the action in the View uploaded files, you will see a screen like the figure below.

Edit Settings File

File Name : TS.32 v5.0.xlsx Confirm the changes Reset the changes

File Uploaded Date : 08 Dec 2019 07:43

GSM	UTRA	HSPA	LTE	LTE FGI	IMS V5	Other	APN	MNO Supplementary
Index	Setting Name	Permissible Setting Value	GSMA Default Value	MNO Recommended Value				
GSM 1.01	VOID						<input type="text"/>	
GSM 1.02	VOID						<input type="text"/>	
GSM 1.03	A5/1	Activate/Deactivate	Activate				DeActivate	Edit
GSM 1.04	A5/3	Activate/Deactivate	Activate				deActivate	Edit
GSM 1.05	A5/4	Activate/Deactivate	Deactivate				Deactivate	Edit
GSM 1.06	GEA1 Encryption	Activate/Deactivate	Activate				Activate	Edit
GSM 1.07	GEA3 Encryption	Activate/Deactivate	Activate				Activate	Edit
GSM 1.08	GEA4 Encryption	Activate/Deactivate	Activate				Activate	Edit
GSM 1.09	VOID						<input type="text"/>	
GSM 1.10	VAMOS Level	0,1,2	0				1	Edit
GSM 1.11	VOID						<input type="text"/>	
GSM 1.12	GSM_AMR-Wideband	Activate/Deactivate	Activate				deActivate	Edit
GSM 1.13	VOID						<input type="text"/>	
GSM 1.14	Dual Transfer Mode	Activate/Deactivate	Activate				Activate	Edit
GSM 1.15	Randomized L2 fill bits in Uplink	Activate/Deactivate	Activate				Activate	Edit
GSM 1.16	GEA2 Encryption	Activate/Deactivate	Activate				Activate	Edit

Confirm the changes Reset the changes

Figure 19: Edit Settings

The settings data parsed from the file will be displayed in the format of excel worksheet to look similar to the settings file.

You can click on the 'Edit' link respective to the settings value you want to change. The field will change to an editable format. The edit link will change as 'Save' and 'Cancel'. You can make the change and click Save to save the change. After clicking Edit if you do not want to change the value click Cancel.

Once you edited and saved any one of the setting's value, the buttons 'Confirm the changes' and 'Reset the changes' becomes active. Refer screen 'Edit Settings – Confirm button is active' below.

After editing and saving all the required changes you need to click on 'Confirm the changes' to push the changes to the database. In case Confirm the changes is not clicked all the edited and saved values will not be updated to the database. After editing and saving the changes, if you feel to revoke the changes all together, you can click 'Reset the changes.' This will rollback the saved changes to the previous value and does not push the changes to the database

Edit Settings File

File Name : TS.32 v5.0.xlsx
 File Uploaded Date : 08 Dec 2019 07:43

GSM		UTRA	HSPA	LTE	LTE FGI	IMS V5	Other	APN	MNO Supplementary
Index	Setting Name	Permissible Setting Value	GSMA Default Value	MNO Recommended Value					
GSM 1.01	VOID			<input type="text"/>					
GSM 1.02	VOID			<input type="text"/>					
GSM 1.03	A5/1	Activate/Deactivate	Activate	<input type="text" value="DeActivate"/>					Edit
GSM 1.04	A5/3	Activate/Deactivate	Activate	<input type="text" value="Activate"/>					Save Cancel
GSM 1.05	A5/4	Activate/Deactivate	Deactivate	<input type="text" value="Deactivate"/>					Edit
GSM 1.06	GEA1 Encryption	Activate/Deactivate	Activate	<input type="text" value="Activate"/>					Edit

Figure 19.1 – Edit Settings - Save and Cancel

Edit Settings File

File Name : TS.32 v5.0.xlsx
 File Uploaded Date : 08 Dec 2019 07:43

GSM		UTRA	HSPA	LTE	LTE FGI	IMS V5	Other	APN	MNO Supplementary
Index	Setting Name	Permissible Setting Value	GSMA Default Value	MNO Recommended Value					
GSM 1.01	VOID			<input type="text"/>					
GSM 1.02	VOID			<input type="text"/>					
GSM 1.03	A5/1	Activate/Deactivate	Activate	<input type="text" value="DeActivate"/>					Edit
GSM 1.04	A5/3	Activate/Deactivate	Activate	<input type="text" value="Activate"/>					Edit
GSM 1.05	A5/4	Activate/Deactivate	Deactivate	<input type="text" value="Deactivate"/>					Edit
GSM 1.06	GEA1 Encryption	Activate/Deactivate	Activate	<input type="text" value="Activate"/>					Edit
GSM 1.07	GEA3 Encryption	Activate/Deactivate	Activate	<input type="text" value="Activate"/>					Edit
GSM 1.08	GEA4 Encryption	Activate/Deactivate	Activate	<input type="text" value="Activate"/>					Edit
GSM 1.09	VOID			<input type="text"/>					
GSM 1.10	VAMOS Level	0,1,2	0	<input type="text" value="1"/>					Edit
GSM 1.11	VOID			<input type="text"/>					
GSM 1.12	GSM_AMR-Wideband	Activate/Deactivate	Activate	<input type="text" value="deActivate"/>					Edit
GSM 1.13	VOID			<input type="text"/>					
GSM 1.14	Dual Transfer Mode	Activate/Deactivate	Activate	<input type="text" value="Activate"/>					Edit
GSM 1.15	Randomized L2 fill bits in Uplink	Activate/Deactivate	Activate	<input type="text" value="Activate"/>					Edit
GSM 1.16	GEA2 Encryption	Activate/Deactivate	Activate	<input type="text" value="Activate"/>					Edit

Figure 19.2 - Edit Settings – Confirm the changes

When you save the changes, in case the value provided does not match the required value or not in the right format, the system will reject the change and the alert stating the issue will be displayed as shown in the screen below.

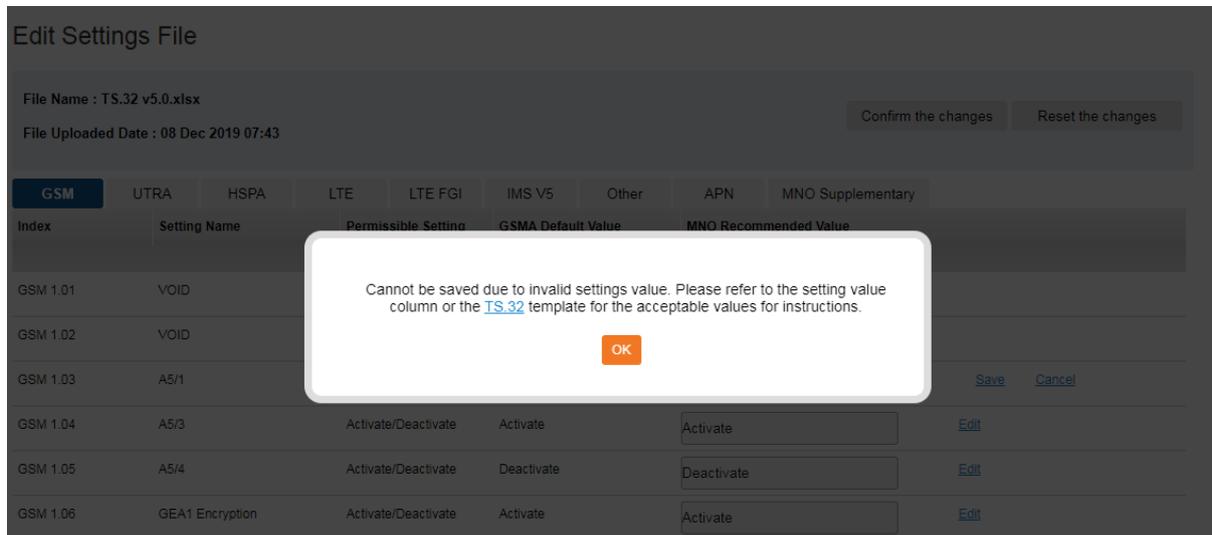


Figure 19.3 – Invalid data message

Please note, the edit settings is available only for the files uploaded later than 15 December 2019. In case you click Edit for an old file, you will see a message as shown in the figure below. To make changes to the settings value in the old files, you need to delete the file and upload again.

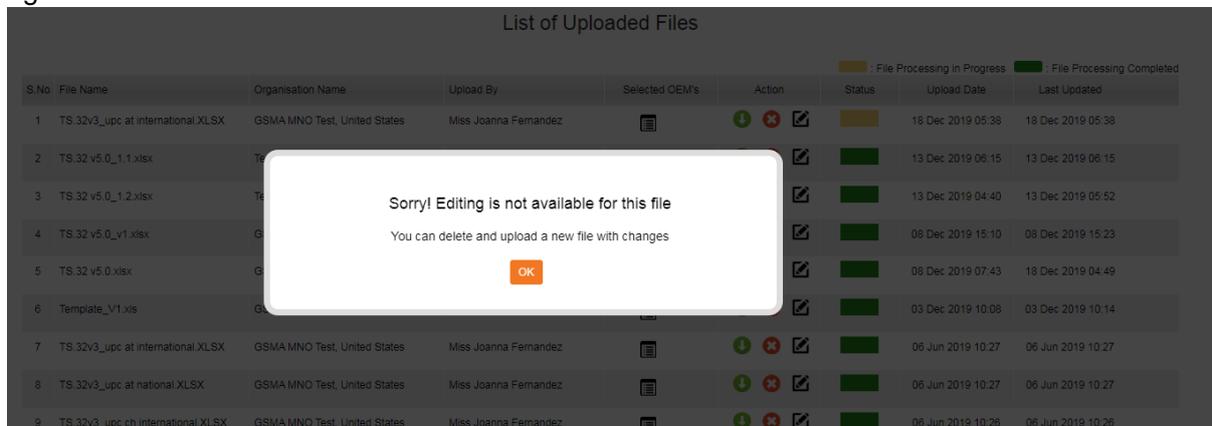


Figure 19.4 – Edit not allowed for old files message

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 you're 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

Search By: 6 of 6

Note: List of OEMs registered in the last 15 days. To restrict access for any OEM to your organisation settings file, you can reject them. No action is required if you would want to provide them access to your settings file. After 15 days of their registration, the OEM will automatically be approved to access your settings.

S.No	OEM Name	Country	Reject
1	fafaf	Alberia	<input type="button" value="Reject"/>
2	GSMA TEST	United Kingdom	<input type="button" value="Reject"/>
3	GSMA TEST	United Kingdom	<input type="button" value="Reject"/>
4	GSMA TEST	United Kingdom	<input type="button" value="Reject"/>
5	Mara Phones Limited	Rwanda	<input type="button" value="Reject"/>
6	Vertu International Corporation Limited	United Kingdom	<input type="button" value="Reject"/>

Figure 19: 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

List of OEMs

List by status:

Approved (OEM who are allowed to take your settings)
 Rejected (OEM who are not allowed to take your settings)
 All

Search By: 1 - 10 of 64

Note: The page displays the list of OEMs who have been approved or restricted access to your settings

S.No	OEM Name	Country	Status
1	Tyler Devices	United States	Approved
2	N/more Co Ltd	Korea, Republic of	Approved
3	Rain drop	Afghanistan	Approved
4	Longsung Technology (Shanghai) Co Ltd	Mainland China	Approved
5	Iclusion Ltd	United States	Approved
6	Sierra Wireless	United States	Approved
7	Airfone Ltd	United States	Approved
8	Mobwire SAS	United States	Approved
9	Sonim Technologies Int	United States	Approved
10	Organisation 123	Armenia	Approved

[Next >](#) [Last >](#)

Figure 20: List of OEMs

File Download Report

The File Download Report provides details on the OEMs who downloaded a settings file, when it was downloaded and how many times.

To view the details of the OEMs who download a settings file, click 'Settings Management -> File Download Report'. The report as shown below will be displayed. The report lists the settings uploaded and the number of times the file was downloaded by OEMs

The screenshot shows the 'File Download Report' interface. On the left is a navigation menu with options: Account Settings, Settings Management, Upload Settings, View Uploaded Settings, File Download Report (selected), and Registered OEMs. The main area has a 'Search Result' section with two radio buttons: 'By Period' (selected) and 'By Operator Settings File Name'. There are input fields for 'Start Period', 'End Period', and 'Settings File Name', along with a 'Search' button. Below this is a note: 'Click on the total to view the list of OEMs who downloaded the file'. An 'Export to Excel' button is also present. At the bottom, a table shows the following data:

S.No	File Name	File Uploaded Date	Total Number of times OEMs Downloaded
1	TS.32v2_Smart_456_06_1_170726.xlsx	31 May 2019	15

Figure 21: Settings File Download Report

Use the Search to filter the list of settings. You can filter the settings by period, based on the date the settings uploaded to the NSX or by providing the name of the settings file.

The report can be extracted to an excel file using 'Export to Excel'. The system will create an excel file of the report displayed and download to the user local system

Click on the number respective to the settings under the 'Total Number of times OEMs Downloaded', to view the list of OEMs who downloaded the file

The report has shown below will be displayed. The report displays the name of the OEM, the date when the file was downloaded and how many times.

The screenshot shows the 'File Download Report' interface with search filters. The 'By Period' radio button is selected. Below the search filters, the file name is 'TS.32v2_Smart_456_06_1_170726.xlsx' and the file uploaded date is '31 May 2019'. An 'Export to Excel' button is visible. Below this is a detailed table showing the following data:

S.No	OEM	OEM Country	File Downloaded Date	Number of Times Downloaded
1	Zebra Technologies	United Kingdom	16 Mar 2020	1
2	UNISOC	Mainland China	13 Nov 2019	1
3	Punkt Tronics AG	Switzerland	09 Jan 2020	1
4	Qualcomm Technologies Inc.	United States	26 Aug 2019	1
5	ROKIT Corp Limited	United Kingdom	04 Feb 2020	1
6	G-Mobile Devices Private Limited	India	02 Jan 2020	1
7	Zebra Technologies	United Kingdom	13 Nov 2019	1
8	UNISOC	Mainland China	04 Mar 2020	3

Figure 22: Settings File Downloaded Report – Detailed by OEM

The report can download to an excel file using the 'Export to Excel' option

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.

Figure 23: Edit Profile

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.