GSNA

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The GSMA TAC Application Form will be updated with changes made in this version of this PRD within a few months of the publication date of this version.

Compliance Notice

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This Permanent Reference Document is classified by GSMA as an Industry Specification, as such it has been developed and is maintained by GSMA in accordance with the provisions set out in GSMA AA.35 - Procedures for Industry Specifications.

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1 Introduction

1.1 Overview

This document provides information to help Manufacturers with the completion and submission of the different application forms used to process TAC applications.

Within this document references made to the "Manufacturer" also apply to the "Brand Owner".

Due to regulatory requirements in some countries, the GSMA requires that the Brand Owner selling the device should be identical to the company requesting and owning the TAC. This will help to avoid problems with regional regulators and customs agencies.

1.2 Scope

This document is restricted to the forms used within the TAC Allocation process, as documented on GSMA.com, these are:

- the Manufacturer TAC Registration Application form
- the TAC Allocation Request form.

All forms MUST be completed in English.

Full details of the TAC Allocation and Approval Process are available in PRD TS.06 and it is strongly recommended that TS.06 is completely read before registering a company and applying for TAC. The GSMA has also produced training manuals for all the key steps of the process. The training modules are available in English and Chinese and can be found on gsma.com/tac.

Term	Description
ADP	Automatic Processing of Data Equipment primarily used to automatically process received input to generate output but may also support voice communication for unplanned events. Includes Point of Sale (PoS) device used in association with a payment identity token owned by a customer (e.g. credit / debit card, NFC-enabled phone, biometric asset, etc.) to authorise a payment transaction via a 3GPP Mobile Network.
	Any kind of Asset Scanner device (e.g. handheld device used in a warehouse or shop to scan items) and is connected to a 3GPP Mobile Network.
Brand Owner - BO	Brand Owners are Private Labels that neither design nor manufacture any products. These companies generally select and acquire existing products from Original Design Manufacturers (ODMs) who offer their off-the-shelf portfolio to their customers. Brand Owners / Private Labels sometimes also work through IDHs for their design requirements and Electronic Manufacturing Services (EMSs) for contract manufacturing. These companies market the procured products under their own brand names to the consumers
Electronic Manufacturing Services - EMS	Companies that provide manufacturing services to other companies including Original Equipment Manufacturers (OEMs) and Independent Design Houses (IDHs). EMSs do not sell or market any product under their own brand
eUICC	A removable or non-removable UICC which enables the remote and/or local management of Profiles in a secure way (As defined in SGP.21 & SGP.22)

1.3 Definition of Terms

IMEI	International Mobile Equipment Identity
Independent Design House - IDH	Companies that have independent in-house design expertise and produce custom / reference designs for other companies including ODMs, OEMs, and EMSs but do not provide any manufacturing services to their customers neither do they sell or market any products under their own brand.
NGSO	Non- Geosynchronous Orbit Satellite
Original Design Manufacturer - ODM	Companies that design and manufacture products that are sold by other companies under their own brand names. The ODMs do not sell or market their products directly to the consumers
Original Equipment Manufacturer - OEM	Company that designs, manufacture, sell, and market products under their own brand name. Some OEMs only design their products while the manufacturing is outsourced to contract manufacturers, generally referred to EMS / ECM (Electronic Manufacturing Services / Electronic Contract Manufacturing).
PoS	Point of Sale
RedCap	Reduced Capability as defined in 3GPP TS 38.306
PRD	Permanent Reference Document
RB	Reporting Body – these are the organisations that review the manufacturer / brand owner registration form and approve the TAC Allocation requests (These are NOT automatic processes)
TAC	Type Allocation Code
UICC	As defined in ETSI TR 102 216

1.4 Document Cross-References

Ref	Document Number	Title
[1]	GSMA PRD TS.06	TAC Allocation and Approval Process
[2]	3GPP TS.36.101	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio transmission and reception
[3]	3GPP TS 38.101	NR: User Equipment radio transmission and reception
[4]	3GPP TS 38.306	NR; User Equipment (UE) radio access capabilities

2 Manufacturer TAC Registration Application Form

When a Manufacturer / Brand owner requires a TAC it must first register its company and contact details using the GSMA's Manufacturer TAC Registration Application Form.

The following table shows the different fields that are required to be completed by a Manufacturer / Brand Owner when it registers its company.

Most of the requested information is Mandatory (M) however a few fields are Optional (O). Completion of the Optional fields will help with the verification of the manufacturer registration.

2.1 Company Details

M / O	Requested Information	Example of Completed Information	Notes
м	Company Name (Text Box)	ABC Mobile Phones	Only one company name is allowed per registration form.
м	The Registered Head Office Address (Text Box)	55 High Street London	
М	Country where the Head Office is located (drop-down list)	United Kingdom	Select the country where your head office is located from the drop-down list.
М	Office Phone Number (Text Box)	+44 1234 567 890	To be completed in an international format. This should be the head office main switch board phone number.
Μ	Company Registration Number (Text Box)	ABCD1234	This is a number obtained from your local authority when the company was first registered. A copy of this registration certificate will be requested by the appropriate Reporting Body (RB).
ο	Company Website (Text Box)	www.ABCM.co.uk	
0	ISO 9000 Certificate Allocation Body (Text Box)		The organisation issuing your ISO9000 certificate
0	ISO 9000 Certificate Number (Text Box)		
м	Do you manufacturer and sell devices under your own brand name?	Yes No	_
м	Do you manufacturer devices which are sold under other	Yes	
	companies brand names?		
М	Do you sell device under your brand name, which are made by other manufacturers?	Yes No	_
м	Company Registered Brand Name (Text Box)	ABC	
М	Company Registered Brand Name certificate number		A copy of the brand registration certificate must be sent to the RB when requested.
м	My company is a GSMA Member	Yes	The GSMA offers a 10% discount to GSMA members.
		No	Eligibility will be confirmed by the RB.
м	Are you aware of GSMA's PRD TS.06 TAC Allocation	Yes	
	and Approval Process	No	

2.2 Main Contacts Details (This should be a director or a senior manager of the company)

M / O	Requested Information	Example of Completed Information	Notes
М	Name (Title, First Name & Family Name (text boxes)	Mr Fred Flintstone	This person will be contacted to approve any changes to the second contacts details.
м	Job Title (Text Box)	Director	
м	Mobile Phone Number	+44 1234 567 890	To be completed in an international format. This should be the main contact's own phone number.
М	Email (Text Box)	fflintstone@ABC.com	
0	Comments (Text Box)	I will be importing devices from China and I need to give the manufacturer my TAC	

2.3 Second Contacts Details (This may be agent working for the registered company or may be the person tasked with requesting the TAC)

M / O	Requested Information	Example of Completed Information	Notes
М	Name (Title, First Name & Surname text boxes)	Mr Fred Flintstone	
м	Job Title (Text Box)	Director	
м	Mobile Phone Number	+44 1234 567 890	To be completed in an international format. This should be the contact's own phone number.
М	Email (Text Box)	fflintstone@ABC.com	
0	Comments (Text Box)	I will be importing devices from China and I need to give the manufacturer my TAC	

2.4 Completion of the Registration Form

M / O	Requested Information	Example of Completed Information	Notes
м	I accept, the Terms & Conditions on behalf of the	Yes	Yes must be selected to proceed with the registration
	company I work for (Check box)	No	After confirmation, the application form will be terminated.
м	Submit, Reset & Back (Buttons)	Submit	This will send a notification to the RB that the registration application has been made.
		Reset	This will clear all of the information and it will need to be entered again.
		Back	This will take the applicant back to the previous page and the completed data will be cleared.

2.4.1 Additional Explanations of the registration form (If required)

Text to be added if/as required.

2.5 What happens next.

Notification of the completed application form is automatically forwarded to the appropriate Reporting Body (RB). The RB will verify the details that have been provided. If more information is needed the RB will contact the applicant's Main Contact directly.

When the form has been verified the Main Contact will be sent a confirmation email with appropriate login details (manufacturer I.D. and password). This process is normally completed by the RB within 2 working days. The Main Contact also receives GSMA TAC Allocation training modules and user guides.

The applicant can now login via gsma.com/tac , using these details, and request a TAC by completing the TAC Allocation Request Form. See TS.06 for the full process details and GSMA TAC Allocation training nodule 5.

3 TAC Allocation Request Form

This form should be completed providing full details of the device that the TAC is to be used for, additional information like a technical specification may be requested by the RB before the TAC is allocated.

Most of the requested information is Mandatory (M) however a few fields are Optional (O). Completion of the Optional fields will help with the verification of the device for which the TAC is being requested.

3.1 Character Encoding

All fields in the database are stored in ASCII encoding and only printable ASCII characters (character codes 32 – 126) are permitted, subject to any further limitations/exclusions below.

3.2 Rules for the creation of the "Model Name", and "Marketing Name" fields

In order to improve the accuracy of the data collected please familiarise yourself GSMA TAC Allocation Governing Rules found in training module 1 as found on gsma.com

3.2.1 Mandatory Syntax Checks

The IMEI Database will check for syntax errors in new entries, this will be applied to all new entries or updates to existing entries.

3.2.2 Whitespace

- No entry SHALL contain leading or trailing spaces
- No entry SHALL contain 2 (or more) consecutive spaces

3.2.3 Forbidden Symbols

• No entry SHALL contain any of the following symbols:

• The following is a list of symbols that can be used as a single entry which is then followed by a letter Aa to Zz, or number 0 to 9. Two or more consecutive symbols as listed below are not allowed. Combinations of symbols from the list below are also not allowed.

• No entry SHALL end with any of the following symbols:

(']	{	/	١	
----	---	---	---	---	--

• No entry SHALL start with any of the following symbols:

) '] } / \

3.2.4 Length of Name

• Names must be between 1 and 50 characters long.

3.2.5 Forbidden Strings

• TBC, tbc, TBA, and tba are forbidden on their own, within single or double quotations

Not allowed

		TBD	tba	TBC	tbc		'TBA'
--	--	-----	-----	-----	-----	--	-------

3.3 Naming Consistency Check

When a new Model Name is added to the TAC Request Form that is similar to an existing name in the database, the database will offer the user a list of names that they have already used that match or are similar to the name they are entering.

The user can select one of the names from the list or confirm that they want to proceed with the name they have entered.

3.4 Details of the device the TAC will be used for.

M / O	Requeste Informat		Example of Completed Information	Notes
м	Applicant	Name	Mr Fred Flintstone	
М	Applicant Address	Email	fflintstone @ABC.com	
М	Brand (Pick list)	Name	ABC	
м	Are you	Yes		
	the OEM?	No	Mr B Rubbel Beadrock Manufacturing Shenzhen PRC b.rubbel@gmail.com	If No then the details of the manufacturer (ODM) or design house (IDH) MUST be completed on TAC application form (Company Name, Address, Contact name, Contact email)
М	Equipment Type (drop-down list)		Mobile Phone/Feature phone	For details of these different equipment types see TS.06
			Smartphone Tablet	
			IoT Device	Note: When an IoT Device is selected on the TAC Application form, support for Cat-NB1 and Cat-M1 will automatically be selected. If the IoT Device does not support Cat-NB1 and / or Cat-M1 then these will need to be deselected by the applicant.
			Wearable	
			Dongle	
			Modem	The following note is to be added to the TAC Certificate for "Modem": "The quantity of UICC / eUICC / IMEI listed on this TAC Certificate shows the maximum quantity supported by this Modem. The end product using this

M / O	Requested Information	Exam Comp Inform	leted	Notes
				Modem may not have used all of the UICC / eUICC / IMEI which are supported by the Modem."
		WLAN	Router	Examples including Fixed Wireless Access (FWA) device etc.
		Device Automa Proces (APD)		Including Point of Sale (PoS) device
		UAS/U	AV	Unmanned Aerial System (UAS) / Unmanned Aerial Vehicle (UAV)
	Does your device type	3GPP NTN	GSO Y/N	Select all the different Satellite Orbits the device can connect to and the applicable NTN Frequencies
	listed above connect via NTN?	Only	NGSO Y/N	bands.
	(Only 3GPP NTN	3GPP NTN	GSO Y/N	Select all the different Satellite Orbits the device can connect to and the applicable NTN Frequencies
м	or	& TN	NGSO Y/N	bands.
	3GPP NTN & NT		I	
	or	No		
	No			
	can be selected).			
м	Model Name (Text Box)	Rock N	Iobile	See section 3.1 and 3.2
М	Marketing Name (Text Box)	Hard R Star	Pock, Rock	This is the name that will be used for the sale of the device. More than one Marketing Name can be added with a comma between each name, max 3. Marketing/sales material and/or technical specifications are to be provided to the RB when requested to show these models are exactly the same. See section 3.1 and 3.2
м	Quantity of TAC Required (drop- down list)	1		In normal circumstances 1 TAC (1,000,000 IMEI) is all that is required. However for production quantities in excess of
		2	2 1,000,000 of the same device	1,000,000 of the same device additional TAC can be
		3		requested.
		4		
		5		
Ο	Device Certification Bodies		C, IC, GCF, 3, CCC, etc.	This should be a list of ALL the different organisations that the device will be approved by. These should be listed with a comma between each organisation.

MLO	Demos	E	Nataa
M / O	Requested Information	Example of Completed	Notes
	mormation	Information	
м	Operating	Android	"None" is automatically selected when the device type
	System/Platform	Android Wear	"Dongle", "Modem" or "WLAN Router" is selected. No
	Supported (drop-down list)	Bada	manual selection is allowed. For more details see TS.06 section 8.0
		BlackBerry	
		CyanogenMod	If the OS that you are using, is not listed, please
		Firefox	contact the <u>tac@gsma.com</u> and they will review if it can be added.
		iOS	can be added.
		KaiOS	
		Linux	
		MAC OS	
		Nucleus	
		Proprietary OS	
		Phoenix	
		RTOS	
		S30	
		Sailfish	
		Symbian	
		ThreadX	
		TIZEN	
		UBUNTU	
		Windows	
		Windows Phone	
		YunOS (Aliyun)	
		None (Automatic selection ONLY)	
Others			
	adio Interfaces Sup	-	
м	Radio Interfaces	CDMA	
		3GPP2	
		None	
		equency band inform	ation must be completed in the Band Profile C Allocation Request form.
	For more infor	mation see the TAC	Training Module 4 stored in gsma.com
м	Does your device support EC-GSM-IoT?	Yes / No?	

M / O	Requested Information	Example of Completed	Notes
		Information	
М	Does your device support Cat-NB1?	Yes / No?	If "Yes" then select the Cat-NB LTE bands supported below. At least one FDD band MUST be selected. TDD Bands are optional
М	Does your device support Cat-NB2?	Yes / No?	If 'Yes' then Cat-NB1 is automatically ticked as well. If "Yes" then select the Cat-NB LTE bands supported below. At least one FDD band MUST be selected. TDD Bands are optional
0	Does your Cat- NB device support multicast.	Yes / No?	Must be completed if Cat-NB1 or Cat-NB2 is ticked.
0	Cat-NB E- UTRA (LTE) FDD	1	These bands are applicable to Cat-NB1 and Cat-NB2. If Cat-NB2 is selected, which implicitly selects Cat- NB1 the same selected bands from this list are applicable to BOTH Cat-NB1 and Cat-NB2
		2	
		3	
		4	
		5	
		6	
		7	
		8	
		9	
		10	
		11	
		12	
		13	
		14	
		15	
		16	
		17	
		18	
		19	
		20	
		21	
		22	
		23	

M / O	Requested Information	Example of Completed Information	Notes
		24	
		25	
		26	
		27	
		28	
		29	
		30	
		31	
		32	
		65	
		66	
		67	
		68	
		69	
		70	
		71	
		72	
		73	
		74	
		75	
		76	
		85	
0	Cat-NB E- UTRA (LTE) TDD	33	These bands are applicable to Cat-NB1 and Cat-NB2. If Cat-NB2 is selected, which implicitly selects Cat- NB1 the same selected bands from this list are applicable to BOTH Cat-NB1 and Cat-NB2
		34	
		35	
		36	
		37	
		38	
		39	
		40	
		41	
		42	
		43	

M / O	Requested Information	Example of Completed Information	Notes
		44	
		48	
		50	
		51	
М	Does your device support Cat-M1?	Yes / No?	If "Yes" then select the Cat-M LTE bands supported below. At least one FDD. TDD band(s) are optional.
Μ	Does your device support Cat-M2?	Yes / No?	If 'Yes' then Cat-M1 is automatically ticked as well. If "Yes" then select the Cat-M LTE bands supported below At least one FDD.TDD band(s) are optional
0	Cat-M E-UTRA (LTE) FDD	1	These bands are applicable to Cat-M1 and Cat-M2. If Cat-M2 is selected, which implicitly selects Cat-M1 the same selected bands from this list are applicable to BOTH Cat-M1 and Cat-M2
		2	
		3	
		4	
		5	
		6	
		7	
		8	
		9	
		10	
		11	
		12	
		13	
		14	
		15	
		16	
		17	
		18	
		19	
		20	
		21	
		22	
		23	

M / O	Requested Information	Example of Completed Information	Notes
		24	
		25	
		26	
		27	
		28	
		29	
		30	
		31	
		32	
		65	
		66	
		67	
		68	
		69	
		70	
		71	
		72	
		73	
		74	
		75	
		76	
		85	
0	Cat-M E-UTRA (LTE) TDD	33	These bands are applicable to Cat-M1 and Cat-M2. If Cat-M2 is selected, which implicitly selects Cat-M1 the same selected bands from this list are applicable to BOTH Cat-M1 and Cat-M2
		34	
		35	
		36	
		37	
		38	
		39	
		40	
		41	
		42	
		43	

M/O	Requested	Example of	Notes
	Information	Completed	
		Information	
		44	
		48	
		50	
		51	
м	Does your Cat- M device support multicast.	Yes / No?	Must be completed if Cat-M1 or Cat-m2 is ticked.
0	Is LTE Category supported in the device?	Yes / No?	If UE supports E-UTRA (LTE) FDD and/or E-UTRA (LTE) FDD then at least 1 of the following must be ticked. Note: This capability is not applicable to UE only supporting Cat-NB.
М	0		
М	1		
М	2		
м	3		
М	4		
М	5		
М	6		
М	7		
М	8		
М	9		
М	10		
М	11		
М	12		
0	Does your device signal explicit LTE DL Category?	Yes / No?	If Yes then at least 1 of the following must be ticked.
М	0		
М	1bis		
М	4		
м	6		
М	7		
м	9		
м	10		
М	11		

M / O	Requested Information	Example of Completed Information	Notes
м	12		
м	13		
м	14		
м	15		
м	16		
м	17		
м	18		
м	19		
м	20		
м	21		
м	22		
м	23		
м	24		
м	25		
м	26		
ο	Does your device signal explicit LTE UL Category?	Yes / No?	If Yes then at least 1 of the following must be ticked.
м	0		
м	1bis		
м	3		
м	5		
м	7		
м	8		
м	13		
м	14		
м	15		
м	16		
м	17		
м	18		
м	19		
м	20		
м	21		
м	22		
м	23		

M / O	Requested Information	Example of Completed Information	Notes
м	24		
м	25		
м	26		

At least one Frequency Band Option must be selected to complete a TAC Request form. This could be one of the LPWAN options and/or GSM and/or WDCMA and/or E_UTRA and/or 5G.

All of the frequency band (2G/3G/4G/5G) information must be completed in the Band Profile before a TAC Request form can be submitted.

For more information see the TAC Training Module 4 stored in gsma.com

	Modes, Bands Supported		
ο	GSM		If "GSM" is selected, then at least one of the frequency bands below must also be selected.
		GSM 450	
		GSM 850 (GSM 800)	
		GSM 900	
		GSM 1800	
		GSM 1900	
0	WCDMA (UTRA) FDD		If "WCDMA FDD" is selected, then at least one of the frequency bands below must also be selected.
		1	
		2	
		3	
		4	
		5	
		6	
		7	
		8	
		9	
		10	
		11	
		12	
		13	
		14	
		19	
		20	

M / O	Requested Information	Example of Completed Information	Notes
		21	
		22	
		25	
		26	
		32	
0	WCDMA (UTRA) TDD/TD- SCDMA		If "WCDMA TDD" is selected, then at least one of the frequency bands below must also be selected. "WCDMA TDD" is also known as "TD-SCDMA Band A"
		А	
		В	
		С	
		D	
		E	
		F	
Ο	E-UTRA (LTE) FDD		If "LTE FDD" is selected, then at least one of the frequency bands below must also be selected. For every FDD band selected options (5), (6), (7) and (8) MUST also be completed.
		1	
		2	
		3	
		4	
		5	
		6	
		7	
		8	
		9	
		10	
		11	
		12	
		13	
		14	
		15	
		16	
		17	

M / O	Requested Information	Example of Completed	Notes
		Information	
		18	
		19	
		20	
		21	
		22	
		23	
		24	
		25	
		26	
		27	
		28	
		29	
		30	
		31	
		32	
		65	
		66	
		67	
		68	
		69	
		70	
		71	
		72	
		73	
		74	
		75	
		76	
		85	
0	E-UTRA (LTE) TDD		If "LTE TDD" is selected, then at least one of the frequency bands below must also be selected. For every TDD band selected options (5), (6), (7) and (8) MUST also be completed.
		33	
		34	
		35	
		36	

M / O	Requested Information	Example of Completed Information	Notes
		37	
		38	
		39	
		40	
		41	
		42	
		43	
		44	
		48	
		50	
		51	
0	E-UTRA (LTE) V2X		If "LTE TDD" is selected, then at least one of the frequency bands below must also be selected.
			For every TDD band selected options (5), (6), (7) and (8) MUST also be completed.
		47	
(5)M	Which of the following modulations does your E- UTRA Band (X) support in	 No Optional Modulations 16QAM 64QAM 256QAM 	 "16 QAM" is the default value. "1" or "2" can only be selected on their own If "3" is selected, then "2" is also selected. If "4" is selected, then "2" and "3" are also selected. Ref: 3GPP TS 36.331
(6)M	"Uplink" Which of the following modulations does your E- UTRA Band (X) support in "Downlink"	 No Optional Modulations 16QAM 64QAM 256QAM 1024QAM 	 "16 & 64QAM" is the default value. "1" or "2" can only be selected on their own. If "3" is selected then "2" is also selected. "3" is the default value. Ref: 3GPP TS 36.331.
(7)M	Which of the following MIMO does your E- UTRA Band (X) support in "Uplink"	1. None 2. 2x2	"None" is the default value with 2x2 as an option. Ref: 3GPP TS 36.331.
(8)M	Which of the following MIMO support does your E-UTRA Band (X) support in "Downlink"	1. None 2. 2x2 3. 4x2 4. 4x4 5. 8x2 6. 8x4 7. 8x8	For IoT device default value is "None". For other devices 2x2 is the default. Ref: 3GPP TS 36.331.

M/O	Requested	Example of	Notes
	Information	Completed	
		Information	
0	Intra-band contiguous Carrier		If "CA" is selected, then at least one of the frequency bands below must also be selected.
	Aggregation (CA) operating bands and configurations		For every CA band selected options (9), (10), (11), (12), (13), (14) and (15) MUST also be completed.
-	lete list of CA ban n the TAC form.	ds and all CA band co	mbinations as defined in 3GPP TS.36.101 [2] will be
the miss	sing information.		please contact tac@gsma.com and they will add ccompanied with a version of the 3GPP TS.36.101 ns.
(9)M	Does your device support the same MIMO for ALL CA bands / CA Band Combinations in DOWNLINK	Yes or No?	If "Yes" is selected, then option (9a) must be completed as a one off and the database will automatically record this information for every CA band or CA band in a CA band combination which is selected. If "No" is selected, then option (9a) must be completed for each CA band and each CA band in a CA band combination which is selected.
(9a)M	MIMO level supported in DOWNLINK	1. None (1x1) 2. 2x2 3. 4x4 4. 8x8	Ref: 3GPP TS 36.331.
(10)M	Does your device support the same MIMO for ALL CA bands / CA Band Combinations In	Yes or No	If "Yes" is selected, then option (10a) must be completed as a one off and the database will automatically record this information for every CA band or CA band in a CA band combination which is selected.
	UPLINK		If "No" is selected, then option (10a) must be completed for each CA band and each CA band in a CA band combination which is selected.
(10a)M	MIMO level supported in UPLINK	1. None (1x1) 2. 2x2 3. 4x4 4. 8x8	Ref: 3GPP TS 36.331.
(11)M	Does your device support the same modulation scheme for ALL CA bands / CA Band Combinations in DOWNLINK	Yes or No	If "Yes" is selected, then option (11a) must be completed as a one off and the database will automatically record this information for every CA band and CA band in a CA band combination which is selected. If "No" is selected, then option (11a) must be completed for each CA band and each CA band in a CA band combination which is selected.

M/O	Requested	Example of	Notes
	Information	Completed	
		Information	
(11a)M	CA bands / CA Band Combinations modulation scheme DOWNLINK	1. 16 2. 64 3. 256 4. 1024 5.	Ref: 3GPP TS 36.331.
(12)M	Does your device support the same modulation scheme for ALL CA bands / CA Band Combinations in UPLINK	Yes or No	If "Yes" is selected, then option (12a) must be completed as a one off and the database will automatically record this information for every CA band and CA band in a CA band combination which is selected. If "No" is selected, then option (12a) must be completed for each CA band and each CA band in a CA band combination which is selected.
(12a)M	CA bands / CA Band Combinations modulation scheme UPLINK	1. 16 2. 64 3. 256 4.	Ref: 3GPP TS 36.331.
(13)M	Does your device support the same CA bandwidth classes for ALL CA bands / CA Band Combinations in DOWNLINK	Yes or No	If "Yes" is selected, then option (13a) must be completed as a one off and the database will automatically record this information for every CA band and CA band in a CA band combination which is selected. If "No" is selected, then option (13a) must be completed for each CA band and each CA band in a CA band combination which is selected. Ref: 3GPP TS 36.101 Table 5.6A-1
(13a)M	CA bandwidth class for one or more CA band / CA Band Combination in DOWNLINK	1. A 2. B 3. C 4. D 5. E 6. F	Ref: 3GPP TS 36.101 Table 5.6A-1
(14)M	Does your		If "Yes" is selected, then option (13a) must be
	device support the same CA bandwidth classes for ALL CA bands / CA Band Combinations in UPLINK	Yes or No	completed as a one off and the database will automatically record this information for every CA band and CA band in a CA band combination which is selected. If "No" is selected, then option (14a) must be completed for each CA band and each CA band in a CA band combination which is selected.

M / O	Requested Information	Example of Completed Information	Notes
			Ref: 3GPP TS 36.101 Table 5.6A-1
(14a)M	CA bandwidth class for one or more CA band / CA Band Combination in UPLINK	1. A 2. B 3. C 4. D 5. E 6. F	Ref: 3GPP TS 36.101 Table 5.6A-1
(15)M	Does your device support the same maximum Power Class for ALL CA bands / CA Band Combinations in UPLINK	Yes or No	If "Yes" is selected, then option (15a) must be completed as a one off and the database will automatically record this information for every CA band and CA band in a CA band combination which is selected. If "No" is selected, then option (15a) must be completed for each CA band and each CA band in a CA band combination which is selected.
(15a)M	Maximum power class supported by the device for a CA band / CA Band Combination UPLINK	1. 1 2. 2 3. 3 4. 4 5. 5 6. 6	Ref: 3GPP TS 36.101, section 6.2
Ο	5G RedCap As defined in 3GPP TS 38.306 [4]		If "5G RedCap" is selected, then all of the 5G NR frequency bands supporting RedCap by the device must be selected. Below is the selectable list. Options (20a), (20b), (20c) & (20d) must also be completed for each band selected. If 5G RedCap is selected, then the ONLY additional frequency ranges that are available for selection are: 4G, LPWAN, 2G3G and Radio Interface
		List of bands as per 3GPP TS 38.101-1 Table 5.2-1	
(20a)M	Supported downlink Modulation Order	 No Optional Modulation QAM64 	"No Optional Modulation" is the default value.
(20b)M	Supported Uplink Modulation Order	 No Optional Modulation QAM64 	"No Optional Modulation" is the default value.

M / O	Requested Information	Example of Completed Information	Notes
(20c)M	Maximum number of MIMO layers in downlink	1. One Layers 2. Two Layers	"One Layers" is the default value.
(20d)M	Maximum number of MIMO layers in uplink	 One Layers Two Layers 	"One Layers" is the default value.
If any ba	ands are missing	l using 3GPP TS 38.101 from the TAC form the re latest version of 3GF	se can be added by contacting the IMEI database
0	5G New Radio (NR) Standalone		If "5G NR" is selected, then all of the 5G NR frequency bands supported by the device must be selected. Below is the selectable list. Options (16), (17), (18) & (19) must also be completed for each band selected.
		List of bands as per 3GPP TS 38.101-1 Table 5.2-1	
0	5G New Radio (NR) Standalone Intra-band Carrier Aggregation (CA) (FR1)		If "5G NR Standalone Intra-band CA" is selected, then all the bands for which 5G NR Intra-band CA supported by the device must be selected. This option conditional on "5G NR Standalone" being selected. Below is the selectable list. Options (16), (17), (18) & (19) must also be completed for each band selected.
		List of bands as per 3GPP TS 38.101-1 Table 5.2A.1-1	
0	5G New Radio (NR) Standalone Two Band Carrier Aggregation (CA) (FR1)		If "5G NR Two Band CA" is selected, then all of the 5G NR Two Band CA frequency band combinations supported by the device must be selected. This option conditional on "5G NR Standalone" being selected. Below is the selectable list. Options (16), (17), (18) & (19) must also be completed for each band selected.
		List of bands as per 3GPP TS 38.101 -1 Table 5.2A.2-1	

M / O	Requested Information	Example of Completed	Notes
		Information	
0	5G New Radio (NR) Standalone Carrier		If "5G NR CA SUL" is selected, then all of the 5G NR CA SUL frequency band combinations supported by the device must be selected. This option conditional on "5G NR Standalone" being selected. Below is the selectable list.
	Aggregation (CA) for SUL		Options (16), (17), (18) & (19) must also be completed for each band selected.
		List of bands as per 3GPP TS 38.101-1 Table 5.2C-1	
0	5G New Radio (NR) Standalone Intra-band Carrier Aggregation (CA) (FR2)		If "5G NR Standalone Intra-band CA" is selected, then all the bands for which 5G NR Intra-band CA supported by the device must be selected. This option conditional on "5G NR Standalone" being selected. Below is the selectable list. Options (16), (17), (18) & (19) must also be completed for each band selected.
		List of bands as per 3GPP TS 38.101-2 Table 5.2A.1	
0	5G New Radio (NR) Standalone Inter-band CA between FR1 and FR2		If "5G NR CA FR1-2" is selected, then all of the 5G NR CA FR1 / FR2 frequency bands supported by the device must be selected. This option conditional on "5G NR Standalone" being selected. Below is the selectable list. Options (16), (17), (18) & (19) must also be completed for each band selected.
		List of bands as per 3GPP TS 38.101- <mark>3</mark> Table 5.2A.1-1	
0	5G New Radio (NR) Standalone Two Band Carrier Aggregation (CA) (FR2)		If "5G NR Two Band CA" is selected, then all of the 5G NR Two Band CA frequency band combinations supported by the device must be selected. This option conditional on "5G NR Standalone" being selected. Below is the selectable list. Options (16), (17), (18) & (19) must also be completed for each band selected.
		List of bands as per 3GPP TS 38.101-2 Table 5.2A.2-1	
0	5G Dual Connectivity (DC)		If "5G DC CA EN-DC 2B" is selected, then all of the 5G DC CA EN-DC 2B frequency band supported by the device must be selected.

M / O Requested Information Example of Completed Information Notes Intra-band CA contiguous EN- DC (Two Band) It of bands as per 3GPP TS 38.101-3 Table 5.5B.2-1 Below is the selectable list. 0 5G Dual Connectivity (DC) If "5G DC CA NC EN-DC 2B" is selected, then all of the 5G NDC CA NC EN-DC 2B frequency bands supported by the device must be selected. 1ntra-band CA non-contiguous EN-DC (Two Band) List of bands as per 3GPP TS 38.101-3 Table 5.5B.3-1 0 5G Dual Connectivity (DC) 1ntra-band CA non-contiguous EN-DC (Two Band) If "5G DC CA NC EN-DC 2B" is selected, then all of the 5G NDC CA NC EN-DC 3B frequency bands supported by the device must be selected. 0 5G Dual Connectivity (DC) If "5G DC CA NC EN-DC 3B frequency bands supported by the device must be selected. 0 5G Dual Connectivity (DC) If "5G DC CA NC EN-DC 3B frequency bands supported by the device must be selected. 0 5G Dual Connectivity (DC) List of bands as per 3GPP TS 38.101-3 Table 5.5B.4.2-1 0 5G Dual Connectivity (DC) If "5G DC BC EN-DC FR1 2B requency bands supported by the device must be selected. 1 0 5G Dual Connectivity (DC) If "5G DC BC EN-DC FR1 2B frequency bands supported by the device must be selected. 1 1 1 1 0 1 1 1 0 1 1 1 1 1 1	MLO	Doguosted	Example of	
Intra-band CA configuous EN- DC (Two Band) Below is the selectable list. Image: Imag	M / O		Completed	Notes
3GPP TS 38.101-3 Table 5.5B.2-1 0 5G Dual Connectivity (DC) Intra-band CA non-contiguous EN-DC (Two Band) 1 List of bands as per 3GPP TS 38.101-3 Table 5.5B.3-1 0 5G Dual Connectivity (DC) 0 5G Dual Connectivity (DC) 1 If "5G DC CA NC EN-DC 2B" is selected, then all of the 5G NDC CA NC EN-DC 3B requency bands supported by the device must be selected. 0 5G Dual Connectivity (DC) 1 If "5G DC CA NC EN-DC 3B" is selected, then all of the 5G DC CA NC EN-DC 3B frequency bands supported by the device must be selected. 1 Intra-band CA non-contiguous EN-DC (Three Band) If "5G DC CA NC EN-DC 3B frequency bands supported by the device must be selected. 1 Intra-band CA non-contiguous EN-DC (Three Band) If "5G DC BC EN-DC FR1 2B" is selected, then all of the 5G DC BC EN-DC FR1 2B" is selected, then all of the 5G DC BC EN-DC FR1 2B frequency bands supported by the device must be selected. 0 5G Dual Connectivity (DC) Inter Band combinations for EN-DC within FR1 (Two Band) If "5G DC BC EN-DC FR1 2B" is selected, then all of the 5G DC BC EN-DC FR1 2B frequency bands supported by the device must be selected. 1 Inter Band combinations for EN-DC within FR1 (Two Band) List of bands as per 3GPP TS 38.101-3		contiguous EN-		Below is the selectable list.
O So Duality (DC) the 5G NDC CA NC EN-DC 2B frequency bands supported by the device must be selected. Intra-band CA non-contiguous EN-DC (Two Band) List of bands as per 3GPP TS 38.101-3 Table 5.5B.3-1 Below is the selectable list. O 5G Dual Connectivity (DC) If "5G DC CA NC EN-DC 3B" is selected, then all of the 5G DC CA NC EN-DC 3B frequency bands supported by the device must be selected. Intra-band CA non-contiguous EN-DC (Three Band) List of bands as per 3GPP TS 38.101-3 Table 5.5B.4.2-1 O 5G Dual Connectivity (DC) List of bands as per 3GPP TS 38.101-3 Table 5.5B.4.2-1 O 5G Dual Connectivity (DC) If "5G DC BC EN-DC FR1 2B" is selected, then all of the 5G DC BC EN-DC FR1 2B frequency bands supported by the device must be selected. Intra-band CA non-contiguous EN-DC (Three Band) If "5G DC BC EN-DC FR1 2B" is selected, then all of the 5G DC BC EN-DC FR1 2B frequency bands supported by the device must be selected. Inter Band combinations for EN-DC within FR1 (Two Band) List of bands as per 3GPP TS 38.101-3			3GPP TS 38.101-3	
3GPP TS 38.101-3 Table 5.5B.3-1 0 5G Dual Connectivity (DC) Intra-band CA non-contiguous EN-DC (Three Band) If "5G DC CA NC EN-DC 3B" is selected, then all of the 5G DC CA NC EN-DC 3B frequency bands supported by the device must be selected. Below is the selectable list. Below is the selectable list. 0 5G Dual Connectivity (DC) List of bands as per 3GPP TS 38.101-3 Table 5.5B.4.2-1 0 5G Dual Connectivity (DC) If "5G DC BC EN-DC FR1 2B" is selected, then all of the 5G DC BC EN-DC FR1 2B frequency bands supported by the device must be selected. Inter Band combinations for EN-DC within FR1 (Two Band) List of bands as per 3GPP TS 38.101-3 List of bands as per 3GPP TS 38.101-3 Below is the selectable list.	0	Connectivity (DC) Intra-band CA non-contiguous EN-DC (Two		the 5G NDC CA NC EN-DC 2B frequency bands supported by the device must be selected.
O Use of band connectivity (DC) Intra-band CA non-contiguous EN-DC (Three Band) the 5G DC CA NC EN-DC 3B frequency bands supported by the device must be selected. Below is the selectable list. Below is the selectable list. O 5G Dual Connectivity (DC) If "5G DC BC EN-DC FR1 2B" is selected, then all of the 5G DC BC EN-DC FR1 2B frequency bands supported by the device must be selected. O 5G Dual Connectivity (DC) If "5G DC BC EN-DC FR1 2B" is selected, then all of the 5G DC BC EN-DC FR1 2B frequency bands supported by the device must be selected. Inter Band combinations for EN-DC within FR1 (Two Band) List of bands as per 3GPP TS 38.101-3 List of bands as per 3GPP TS 38.101-3 List of bands as per 3GPP TS 38.101-3			3GPP TS 38.101-3	
3GPP TS 38.101-3 Table 5.5B.4.2-1 0 5G Dual Connectivity (DC) Inter Band combinations for EN-DC within FR1 (Two Band) If "5G DC BC EN-DC FR1 2B" is selected, then all of the 5G DC BC EN-DC FR1 2B frequency bands supported by the device must be selected. Below is the selectable list. Below is the selectable list.	0	Connectivity (DC) Intra-band CA non-contiguous EN-DC (Three		the 5G DC CA NC EN-DC 3B frequency bands supported by the device must be selected.
Connectivity (DC) the 5G DC BC EN-DC FR1 2B frequency bands supported by the device must be selected. Inter Band combinations for EN-DC within FR1 (Two Band) Below is the selectable list. List of bands as per 3GPP TS 38.101-3 List of bands as per 3GPP TS 38.101-3			3GPP TS 38.101-3	
3GPP TS 38.101-3	0	Connectivity (DC) Inter Band combinations for EN-DC within FR1 (Two		the 5G DC BC EN-DC FR1 2B frequency bands supported by the device must be selected.
			3GPP TS 38.101-3	

M/O	Docupated	Example of	Notes
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0	5G Dual Connectivity (DC) Inter Band combinations for EN-DC within FR1 (Three Band)		If "5G DC BC EN-DC FR1 3B" is selected, then all of the 5G DC BC EN-DC FR1 3B frequency bands supported by the device must be selected. Below is the selectable list.
		List of bands as per 3GPP TS 38.101-3 Table 5.5B.4.2-1	
0	5G Dual Connectivity (DC) Inter Band combinations for EN-DC within FR1 (Four Band)		If "5G DC BC EN-DC FR1 4B" is selected then all of the 5G DC BC EN-DC FR1 4B frequency bands supported by the device must be selected. Below is the selectable list.
		List of bands as per 3GPP TS 38.101-3 Table 5.5B.4.3-1	
0	5G Dual Connectivity (DC) Inter Band combinations for EN-DC within FR1 (Five Band)		If "5G DC BC EN-DC FR1 5B" is selected, then all of the 5G DC BC EN-DC FR1 5B frequency bands supported by the device must be selected. Below is the selectable list.
		List of bands as per 3GPP TS 38.101-3 Table 5.5B.4.4-1	
0	5G Dual Connectivity (DC) Inter Band combinations for EN-DC within FR1 (Six Band)		If "5G DC BC EN-DC FR1 6B" is selected, then all of the 5G DC BC EN-DC FR1 6B frequency bands supported by the device must be selected. Below is the selectable list.

M/O	Requested	Example of	Notes
	Information	Completed	
		Information	
		List of bands as per 3GPP TS 38.101-3 Table 5.5B.4.5-1	
0	5G Dual Connectivity (DC) Inter Band combinations for NE-DC including FR1 (Two Band)		If "5G DC BC NE-DC FR1 2B" is selected, then all of the 5G "5G DC BC NE-DC FR1 2B" frequency bands supported by the device must be selected. Below is the selectable list.
		List of bands as per 3GPP TS 38.101-3 Table 5.5B.4a.1-1	
0	5G Dual Connectivity (DC) Inter Band combinations for NE-DC including FR1 (Five Band)		If "5G DC BC NE-DC FR1 5B" is selected, then all of the 5G "5G DC BC NE-DC FR1 5B" frequency bands supported by the device must be selected. Below is the selectable list.
		List of bands as per 3GPP TS 38.101-3 Table 5.5B.4a.4-1	
0	5G Dual Connectivity (DC) Inter Band combinations for EN-DC including FR2 (Two Band)		If "5G DC BC EN-DC FR2 2B" is selected, then all of the 5G DC BC EN-DC FR2 2B frequency bands supported by the device must be selected. Below is the selectable list.
		List of bands as per 3GPP TS 38.101-3 Table 5.5B.5.1-1	
0	5G Dual Connectivity (DC) Inter Band combinations for EN-DC including FR2 (Three Band)		If "5G DC BC EN-DC FR2 3B" is selected, then all of the 5G DC BC EN-DC FR2 3B frequency bands supported by the device must be selected. Below is the selectable list.

M / O	Requested Information	Example of Completed	Notes
		Information	
		List of bands as per 3GPP TS 38.101-3 Table 5.5B.5.2-1	
0	5G Dual Connectivity (DC) Inter Band combinations for EN-DC including FR2 (Four Band)		If "5G DC BC EN-DC FR2 4B" is selected, then all of the 5G DC BC EN-DC FR2 4B frequency bands supported by the device must be selected. Below is the selectable list.
		List of bands as per 3GPP TS 38.101-3 Table 5.5B.5.3-1	
0	5G Dual Connectivity (DC) Inter Band combinations for EN-DC including FR2 (Five Band)		If "5G DC BC EN-DC FR2 5B" is selected, then all of the 5G DC BC EN-DC FR2 5B frequency bands supported by the device must be selected. Below is the selectable list.
		List of bands as per 3GPP TS 38.101-3 Table 5.5B.5.4-1	
0	5G Dual Connectivity (DC) Inter Band EN- DC including both FR1 and FR2 (Three Band)		If "5G DC IB EN-DC FR1-2 3B" is selected, then all of the 5G DC BC IB-DC FR1-2 3B frequency bands supported by the device must be selected. Below is the selectable list.
		List of bands as per 3GPP TS 38.101-3 Table 5.5B.6.2-1	
0	5 G Dual Connectivity (DC)		If "5G DC IB EN-DC FR1-2 4B" is selected, then all of the 5G DC IB EN-DC FR1-2 4B frequency bands supported by the device must be selected.

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M / O	Requested Information	Example of	Notes
	Information	Completed	
		Information	Delaw is the celestable list
	Inter Band EN-		Below is the selectable list.
	DC including		
	both FR1 and FR2 (Four		
	Band)		
	Danay		
		List of bands as por	
		List of bands as per 3GPP TS 38.101-3	
		Table 5.5B.6.3-1	
			If "5G DC IB EN-DC FR1-2 5B" is selected, then all of
0	5G Dual Connectivity		the 5G DC IB EN-DC FR1-2 5B frequency bands
	(DC)		supported by the device must be selected.
	. ,		Below is the selectable list.
	Inter Band EN- DC including		
	both FR1 and		
	FR2 (Five		
	Band)		
		List of bands as per	
		3GPP TS 38.101-3	
		Table 5.5B.6.4-1	
0	5G Dual		If "5G DC IB EN-DC FR1-2 6B" is selected, then all of
	Connectivity		the 5G DC IB EN-DC FR1-2 6B frequency band
	(DC)		supported by the device must be selected.
	Inter Band EN-		Below is the selectable list.
	DC including		
	both FR1 and FR2 (Six Band)		
		List of bands as per	
		3GPP TS 38.101-3	
		Table 5.5B.6.5-1	
(16)M	Does your		If "Yes" is selected, then option (16a) must be
(16)M	Does your device support		completed as a one off and the database will
	the same		automatically record this information for every CA
	modulation		band and CA band in a CA band combination which is
	scheme for ALL		selected for "5G NR Standalone" and/or "5G NR Non-
	CA bands / CA Band	Veo er No	Standalone".
	Combinations in	Yes or No	
			If "No" is selected, then option (16a) must be
			completed for each CA band and each CA band in a
			CA band combination which is selected for "5G NR
			Standalone" and/or "5G NR Non-Standalone".
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M/O	Requested	Example of	Notes
	Information	Completed	Holes
		Information	
(16a)M	Supported downlink Modulation Order	 No Optional Modulation BPSK-halfpi, BPSK, QPSK, QAM16, QAM64 QAM256 QAM1024 	"No Optional Modulation" is the default value. Ref: 3GPP TS 38.331 section 6.3.3.
(17)M	Does your device support the same modulation scheme for ALL CA bands / CA Band Combinations in UPLINK	Yes or NoIf "Yes" is selected, then option (17a) must be completed as a one off and the database will automatically record this information for every CA band and CA band in a CA band combination wh selected for "5G NR Standalone" and/or "5G NR I Standalone".Yes or NoIf "No" is selected, then option (17a) must be completed for each CA band and each CA band is	
			CA band combination which is selected for "5G NR Standalone" and/or "5G NR Non-Standalone".
(17a)M	Supported uplink Modulation Order	1.No Optional Modulation"No Optional Modulation" is the default value.2.BPSK-halfpi,"Ref: 3GPP TS 38.331 section 6.3.3.3.BPSK,Ref: 3GPP TS 38.331 section 6.3.3.4.QPSK,QAM16,5.QAM16,AM647.QAM256	
(18)M	Does your device support the same maximum number of MIMO layers for ALL CA bands / CA Band	Yes or No	If "Yes" is selected, then option (18a) must be completed as a one off and the database will automatically record this information for every CA band and CA band in a CA band combination which is selected for "5G NR Standalone" and/or "5G NR Non- Standalone".
	Combinations in DOWNLINK		If "No" is selected, then option (18a) must be completed for each CA band and each CA band in a CA band combination which is selected for "5G NR Standalone" and/or "5G NR Non-Standalone".
(18a)M	Maximum number of MIMO layers in downlink	 No Layers Two Layers, Four Layers Eight Layers 	"No Layers" is the default value. Ref: TS 38.331, section 6.3.3.

M / O	Requested Information	Example of Completed Information	Notes
(19)M	Does your device support the same maximum number of MIMO layers for ALL CA bands / CA Band Combinations in UPLINK	Yes or No	If "Yes" is selected, then option (19a) must be completed as a one off and the database will automatically record this information for every CA band and CA band in a CA band combination which is selected for "5G NR Standalone" and/or "5G NR Non- Standalone". If "No" is selected, then option (19a) must be completed for each CA band and each CA band in a
			CA band combination which is selected for "5G NR Standalone" and/or "5G NR Non-Standalone".
M(19a)	Maximum number of MIMO layers in uplink	 No Layers One Layer, Two Layers or Four Layers Or Higher 	"No Layers" is the default value. Ref: TS 38.331, section 6.3.3.
Μ	Does your device support:	Yes / No	
	5G network architecture option 2 series?		
Μ	Does your device support:	Yes / No	
	5G network architecture option 3 series? 3x/3/3A		
М	Does your device support:	Yes / No	
	5G network architecture option 5 series?		
Μ	Does your device support:	Yes / No	
	5G network architecture option 7 series? 7x/7/7A		
М	Does your device support	Yes / No	If "Yes" is selected, then select at least one band from the NTN Frequency Bands list.
141	NTN		If "Yes" was selected in the Satellite Orbit above then "Yes" must be selected.

M / O	Requested Information	Example of Completed Information	Notes
ο	NTN Frequency Bands	E-UTRA B256	
		E-UTRA B255	
		E-UTRA B254	
		E-UTRA B253	
		NR FR1 n256	
		NR FR1 n255	
		NR FR1 n254	
		NR FR1 n253	
		NR FR2 n512	
		NR FR2 n511	
		NR FR2 n510	
0	CDMA2000		If "CDMA2000" is selected then "CDMA2000" below must also be selected.
		CDMA2000	
0	GAN		If "GAN" is selected then "GAN" below must also be selected.
		GAN	
M	Does your device support: Removable UICC	Yes / No	If selected as Yes then the number of UICC supported shall be selectable (1) and the number of IMEI used shall also be selected (3)
М	Does your device support: Removable	Yes / No	If selected as Yes then the number of eUICC shall also be selectable (2) and the number of IMEI used shall also be selected (3)
м	eUICC Does your device support:	Yes / No	If selected as Yes then the number of UICC supported shall be selectable (1)
	Non-Removable UICC		
м	Does your device support:	Yes / No	If selected as Yes then the number of eUICC shall also be selectable (2)
	Non-Removable eUICC		

M/O	Requested	Example of	Notes	
	Information	Completed	NULES	
		Information		
(1a)M	Removable UICC Support (drop-down list)	0 UICC	Select the number of UICC slots that the device supports.	
		1 UICC	At least 1 UICC must be selected either in (1a) or (1b)	
		2 UICC	if 0 eUICC (2a and 2b) and 0 Network-specific	
		3 UICC	Identifier (3) are selected.	
		4 UICC		
(1b)M	Non-removable UICC Support (drop-down list)	0 UICC	Select the number of non-removable UICCs that the device supports.	
		1 UICC	At least 1 UICC must be selected either in (1a) or (1b)	
		2 UICC	if 0 eUICC (2a and 2b) and 0 Network-specific	
		3 UICC	Identifier (3) are selected.	
		4 UICC		
(2a)M	Removable eUICC Support (drop-down list)	0 eUICC	Select the number of removable eUICCs that the device supports.	
1 eUICC				
		2 eUICC	At least 1 eUICC must be selected either in (2a) or (2b) if 0 UICC (1a and 1b) and 0 Network-specific	
		3 eUICC	Identifier (3) are selected.	
		4 eUICC		
(2b)M	Non-removable eUICC Support (drop-down list)	0 eUICC	Select the number of non-removable eUICCs that the device supports.	
		1 eUICC		
		2 eUICC	At least 1 eUICC must be selected either in (2a) or (2b) if 0 UICC (1a and 1b) and 0 Network-specific	
		3 eUICC	Identifier (3) are selected.	
		4 eUICC		
(3)M	Network-specific Identifier	0, 1, 2, 3 or 4	Select the total number of simultaneous connections with Network-specific Identifier supported.	
			At least 1 Network-specific Identifier must be selected if 0 UICC (1) and 0 eUICC (2) are selected.	
(4)M	Total quantity of IMEI used in the device (drop-	1, 2, 3 or 4	Collecting the quantity of IMEI is a regulatory requirement in some countries.	
	down list) The quantity of IMEI indicate		The quantity of IMEI indicated must be the same as the quantity of IMEI listed on the device sales box.	
			Note: Each active connection to the 3GPP/3GPP2 network requires one IMEI.	

M / O	Requested Information	Example of Completed Information	Notes	
			See TS.06 Section 8.0	
(5)M	What is the total number of SIM slots in your device?	0, 1, 2, 3 or 4	If BOTH "Removable UICC" and "Removable eUICC" are selected then the total number of SIM slots supported by the device shall also be selected. If only "Removable UICC" OR "Removable eUICC" is selected then the total number of SIM slots supported by the device shall be the same as the number of "Removable UICC" OR "Removable eUICC" selected and this is not changeable. If only Non-Removable UICC and / or eUICC are selected then the number of SIM slots will be Zero. If only Network-specific Identifier(s) is/are selected then the number of SIM slots will be Zero.	
0	Other 3GPP Frequency bands not listed on the form (Text box)		3GPP Frequency bands not listed above can be listed here	
М	Does the device	Yes		
	support NFC?	No		
м	Does the device	Yes		
	support WLAN?	No		
м	Does the device	Yes		
support Bluetooth?		No		

3.5 GSMA Reporting Body use only (for information only)

M / O	Requested Information	Example of Completed Information	Notes
	TAC	35123456	This is where the RB will add the TAC to the application form

3.6 Supported Frequency Band Confirmation

When the TAC Allocation Request form has been completed, the applicant must confirm that the frequency bands information is correct.

The following list is automatically checked by GSMA's TAC Allocation platform and must be confirmed by the applicant as being correct.

Frequency Bands supported by this device:

- 1. 2G GSM &/or 3G WCDMA Yes / No
- 2. 4G LTE Yes / No

- 3. 4G Carrier Aggregation (CA) Yes / No
- 4. 5G New Radio (NR) Standalone Yes / No
- 5. 5G Dual Connectivity (DC) Yes / No
- 6. LPWAN Yes / No
- 7. 5G RedCap Yes / No
- 8. NTN Yes / No

If the information is not correct the applicant will be directed back to the Frequency Band Profile Sheet to make corrections.

3.7 Completion of the TAC Form

M / O	Requested Information	Example of Completed Information	Notes
М	Submit, Reset & Back (Buttons)	Submit	This will send a notification to the RB that the registration application has been made.
		Reset	This will clear all of the information and it will need to be entered again.
		Back	This will take the applicant back to the previous page and the completed data will be cleared.

3.7.1 Additional Explanations of the TAC form (If required)

Text to be added if/as required.

3.8 What happens next

Notification of the completed TAC Allocation request form is automatically sent to the RB. The RB will verify the details that have been provided. If more information is needed the RB will contact the applicant.

When the form has been verified, the applicant will be sent an email with the TAC number(s) on a certificate along with the device details that the TAC has been allocated for.

See TS.06 for the full process details.

Annex A Document Management

A.1 Document History

Version	Date	Brief Description of Change	Approval Authority	Editor / Company
1.0	25 th September 2014	Submitted to DQRT and will be submitted for PSMC approval	PSMC	Paul Gosden, GSMA
2.0	Oct 2015	Addition CA bands added	TSG	Paul Gosden, GSMA
3.0	Jan 2016	Updated with CR1003 approved at TSG22 meeting.	TSG	Paul Gosden, GSMA
4.0	June 2016	Updated with CR1005 approved at TSG25 meeting	TSG	Paul Gosden, GSMA
5.0	Jan 2017	Updated with CR1006	TSG	Paul Gosden, GSMA
6.0	Sept 2017	Updated with CR1007 & CR1008	TSG	Paul Gosden, GSMA
7.0	Dec 2017	Updated with CR1010	TSG	Paul Gosden, GSMA
8.0	May 2018	Updated with CR1011	TSG	Paul Gosden, GSMA
9.0	July 2018	Updated with CR1012	TSG	Paul Gosden, GSMA
10.0	September 2018	Updated with CR1013	TSG	Paul Gosden, GSMA
11.0	June 2019	Updated with CR1014 & CR1015	TSG	Paul Gosden, GSMA
11.1	June 2019	Implementation dates added to items which are in TS.30 but have not yet been added to the TAC Database	TSG	Paul Gosden, GSMA
12.0	Dec 2019	Updated with CR1016	TSG#38	Paul Gosden, GSMA
13.0	April 2020	Updated with CR1017 and CR1018	TSG	Paul Gosden, GSMA
13.1	October 2020	Updated with CR1019	TSG	Paul Gosden GSMA
14.0	March 2021	Updated with CR1020	TSG(email) / ISAG#8	Paul Gosden GSMA
15.0	Sept 2021	Updated with CR1021 Adding a new device type "ADP"	TSG#45 ISAG#12	Paul Gosden GSMA
16:0	Feb 2022	Implementing CR1022 Adding requirements for device's without SIM	TSG (email) ISAG#17	Paul Gosden GSMA
17.0	May 2022	Implementing CR1023 Adding new section 3.6	TSG (email) ISAG#20	Paul Gosden GSMA
18.0	Dec 2022	Implementing CR1024	TSG#50 ISAG#26	Paul Gosden GSMA

19.0	May 2023	Implementing CR1025	TSG#51 ISAG#30	Paul Gosden GSMA
20.0	July 2023	Implementing CR1026	TSG#52 ISAG#33	Paul Gosden GSMA
21.0	Oct 2023	Implementing CR1027	TSG#53 ISAG#34	Paul Gosden GSMA
22.0	Jan 2024	Implementing CR1028	TSG#54 ISAG#37	Paul Gosden GSMA
23.0	May 2024	Implementing CR1030	TSG#55 ISAG#41	Paul Gosden GSMA

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Your comments or suggestions & questions are always welcome.