

अनिवार्य आवश्यकताएं

संख्या : TEC40162409

Essential Requirements

ER No. : TEC40162409

SIM

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MTCTE के तहत जारी:

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Telecommunication Engineering Centre

Government of India

Khurshid Lal Bhawan, Janpath, New Delhi-110001, INDIA

Essential Requirements for:

SIM

Certification Scheme: **SCS**

Product Fee Group: **C**

This document lays down the ER under MTCTE notified by GoI vide Gazette Notification No. G.S.R. 113 (E) dated 05-09-2017 for SIM to be used in Indian Telecom Network for Consumer or Machine and Machine interfaces up to 5G cellular technology.

Note: Annexures referred to in this ER are Annexures as mentioned in "Annexures to ERs" No. TEC/SD/DD/TCP-222/02/June19 as updated from time to time and available on MTCTE portal.

This product has the following variants:

1. eUICC – Consumer (GSMA compliance) / eSIM-Consumer
2. eUICC-M2M (GSMA compliance) / eSIM-M2M
3. eUICC -M2M (Non-GSMA compliance)
4. SIM- Pluggable form factor
5. UICC based ISIM- Pluggable form factor
6. USIM- Pluggable form factor
7. eUICC – IoT (GSMA compliance) / eSIM-IoT
- 8. iUICC (GSMA compliance)/iSIM (Integrated SIM)**

1. Variant 1 : eUICC – Consumer (GSMA compliance) / eSIM-Consumer

1.1 Parameters Linked with Product Variant

S.No.	Parameter Name	Standard Name
1.1.1	Answer to reset eUICC	Clause 6.3 of ETSI TS 102 221 Rel 9 and above Annex.-S

1.1.2	If there is no Enabled Profile on the eUICC	Clause 3.4.3 of GSMA SGP .22 RSP Technical Specification v 2.4 and above Annex.-S
1.1.3	Local eUICC management- Retrieve eID eUICC memory Reset	Clause 3.3.1 & 3.3.2 of GSMA SGP .22 RSP Technical Specification v 2.4 and above Annex.-s
1.1.4	Local profile Management	Clause 3.2 of GSMA SGP .22 RSP Technical Specification v2.4 and above Annex.-s
1.1.5	Remote provisioning- Profile download and installation	Clause 3.1.3 of GSMA SGP .22 RSP Technical Specification v2.4 and above Annex.-S
1.1.6	Remote provisioning- Profile download initiation	Clause 3.1 of GSMA SGP .22 RSP Technical Specification v2.4 and above Annex.-S
1.1.7	Voltage classes eUICC	Clause 5.0 ETSI TS 102 221 Rel 9 and above, Clause 7.1 of ETSI TS 102 671 (UICC shall not Power Class A) Rel 9 and above Annex.-S

2. Variant 2 : eUICC-M2M (GSMA compliance) / eSIM-M2M

2.1 Parameters Linked with Product Variant

S.No.	Parameter Name	Standard Name
2.1.1	Answer to reset eUICC	Clause 6.3 of ETSI TS 102 221 Rel 9 and above Annex.-S
2.1.2	eUICC Profile Package: Interoperable Format Technical Specification	Trusted connectivity alliance V3.3.1 and above Annex.-S
2.1.3	Profile download & Installation	Clause 3.1 GSMA SGP .02 v4.2.1 and above Annex.- S
2.1.4	ISD-R shall be able to perform Platform management function on ISD-Ps	Clause 2.2.1.1. GSMA SGP .02 v4.2.1 and above Annex.-S
2.1.5	No LOCKED state supported to ISD-R	Clause 2.2.1.1. GSMA SGP .02 v4.2.1 and above Annex.-S
2.1.6	Physical and Logical Characteristics eUICC	Clause 6 & 7 of ETSI TS 102 671 Rel 9 and above Annex.-S

2.1.7	Secure Packet and Remote APDU structure for UICC based Applications	Clause 5 of ETSI TS 102 225 Rel 9 and above Clause 5, 7, 8 of ETSI TS 102 226 Rel 9 and above Global Platform Card Specification 2.2 Amendment B v1.1.3 – RAM over HTTP Annex.-S
2.1.8	Subscription Manager send disable commands to the eUICC with a previously downloaded profile	Clause 4.1.1.3 GSMA SGP .02 v4.2.1 and above Annex..-S
2.1.9	Subscription Manager send enable commands to the eUICC with a previously downloaded profile	Clause 4.1.1.2 GSMA SGP .02 v4.2.1 and above Annex.-S
2.1.10	Subscription Manager sends commands to delete a disabled profile	Clause 4.1.1.4 GSMA SGP .02 v4.2.1 and above Annex.-S
2.1.11	The ECASD application Shall be installed by EUM during eUICC manufacturing	GSMA-SAS-UP compliance manufacturing certificate Annex.-S
2.1.12	There shall be only one ECASD present	Clause 2.2.1.2. GSMA SGP .02 v4.2.1 and above Annex. -S
2.1.13	There shall be only one ISD-R and it is personalized by EUM during manufacturing	Clause 2.2.1.1. GSMA SGP .02 v4.2.1 and above Annex.- S
2.1.14	Voltage classes eUICC	Clause 5.0 ETSI TS 102 221 Rel 9 and above, Clause 7.1 of ETSI TS 102 671 (UICC shall not Power Class A) Rel 9 and above Annex.-S

2.2 Interface 1 : Pre-personalised Profiles ISIM

S.No.	Parameter Name	Standard Name
2.2.1	Pre-personalised Profiles ISIM	Clause 4 of ETSI TS 131 103 Rel 9 and above Annex.-S

2.3 Interface 2 : Pre-personalised Profiles SIM

S.No.	Parameter Name	Standard Name
2.3.1	Pre-personalised Profiles SIM	Clause 10 of ETSI TS 151.011 release 4 and above Annex.-S

2.4 Interface 3 : Pre-personalised Profiles USIM

S.No.	Parameter Name	Standard Name
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2.4.1	Pre-personalised Profiles USIM	Clause 4 of ETSI TS 131 102 Rel 9 and above Annex.-S
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3. Variant 3 : eUICC -M2M (Non-GSMA compliance)

3.1 Parameters Linked with Product Variant

S.No.	Parameter Name	Standard Name
3.1.1	Administrative commands for telecommunications applications in Integrated Circuit Cards (ICC) USIM	Clause 6 of ETSI TS 102 222 Release 9 and above annex.- S
3.1.2	Electrical specification of UICC with terminal interface	Clause 5 of ETSI TS 102 221 Rel 9 and above Annex.-S
3.1.3	Minimum application clock frequency USIM	Clause 5.3.1 of ETSI TS 131 101 Rel 9 and above Annex.-S
3.1.4	Security mechanisms for the (U)SIM application toolkit Stage 2	Clause 5, 6, 7, 8, 9 of ETSI TS 123 048 Rel 5 and above Annex.-S
3.1.5	Subscriber Identity Module Application Programming Interface (SIM API) for JAVA Card (Stage 2)	Clause 6 and Annexure-A of ETSI TS 143 019 Rel 5 and above Annex.-S
3.1.6	Support for PIN and PUK USIM	ISO7816-4 Clause 9 of ETSI TS 102 221 Rel 9 and above Annex.-S
3.1.7	Transmission protocols USIM	Clause 7 of ETSI TS 102 221 rel 9 and above onwards Annex.-S
3.1.8	Transmission Speed USIM	Clause 6.3 of ETSI TS 102 221 Rel 9 and above Annex.-S
3.1.9	USIM shall support special SSD (Supplementary Secure Domain)	Clause 7.2 of Global Platform Specifications version 2.1.1 and above Annex.-S
3.1.10	Voltage classes (Class A Class B Class C at least two consecutive classes Eg AB or BC) USIM	Clause 6A.2 of ETSI TS 131 101 Rel 9 and above Annex.-S

3.2 Interface 1 : Pre-personalised Profiles ISIM

S.No.	Parameter Name	Standard Name
3.2.1	Pre-personalised Profiles ISIM	Clause 4 of ETSI TS 131 103 Rel 9 and above Annex.-S

3.3 Interface 2 : Pre-personalised Profiles SIM

S.No.	Parameter Name	Standard Name
3.3.1	Pre-personalised Profiles SIM	Clause 10 of ETSI TS 151.011 release 4 and above Annex.-S

3.4 Interface 3 : Pre-personalised Profiles USIM

S.No.	Parameter Name	Standard Name
3.4.1	Pre-personalised Profiles USIM	Clause 4 of ETSI TS 131 102 Rel 9 and above Annex.-S

3.5 Interface 4 : SIM-ME-USIM

S.No.	Parameter Name	Standard Name
3.5.1	Subscriber Identity Module Mobile Equipment (SIM ME) interface USIM	ISO-7816-4, Clause 6 of ETSI TS 151.011 Rel 4 and above Annex.- S

4. Variant 4 : SIM- Pluggable form factor

4.1 Parameters Linked with Product Variant

S.No.	Parameter Name	Standard Name
4.1.1	Interface protocols SIM	Clause 5.4 of ETSI TS 131 101 Rel.9 and above Annex-S
4.1.2	Minimum application clock frequency SIM	Clause 5 of ETSI TS 102 221 Rel 9 and above Annex.-S
4.1.3	Security Features - SIM	Clause 7 of ETSI TS 151 011 Rel 4 and above Annex.-S

4.1.4	Passive authentication SIM	Clause 7 of ETSI TS 151 011 Rel 4 Annex.-S
4.1.5	Physical and Logical Characteristics SIM	Clause 4A, 5 Of ETSI TS 131 101 Rel.9 and above Annex.-S
4.1.6	Read or Update access to NVM controlled by Operating System and Issuer SIM application	ISO 7816 4 Clause 9 of ETSI TS 151 011 Release 4 and above Annex. -S
4.1.7	Security mechanisms for the SIM application toolkit Stage 2	Clause 5 6 7 8 9 of ETSI TS 123 048 Rel 5 and above Annex.-S
4.1.8	SIM Application	Clause 4 5 6 7 of ETSI TS 102 223 Rel 9 and above Annex.-S
4.1.9	SIM shall support special SSD (Supplementary Secure Domain) for SIM based apps. For Java card based SIMs	Clause 7.2 of Global Platform Specifications Version 2.1.1 and above Annex.-S
4.1.10	Subscriber Identity Module Application Programming Interface (SIM API) (Stage 1)	Clause 4 5 6 7 8 ETSI TS 142 019 Rel 5 and above Annex.-S
4.1.11	Subscriber Identity Module Application Programming Interface (SIM API) for Java Card TM (Stage 2)	Clause 6 and Annexure-A of ETSI TS 143 019 Rel 5 and above Annex.-S
4.1.12	Transmission Speed SIM	Clause 6.3 of ETSI TS 102 221 Rel 9 and above Annex.-S
4.1.13	Voltage classes (Class A Class B Class C at least two consecutive classes eg AB or BC)- SIM on UICC	Clause 6A.2 of ETSI TS 131 101 Rel 9 and above Annex.-S

4.2 Interface 1 : SIM ME

S.No.	Parameter Name	Standard Name
4.2.1	Software Components shall include Operating System and SIM Tool Kit Applications	Clause 4 5 6 7 of ETSI TS 102 223 Rel 9 and above Annex.- S
4.2.2	Subscriber Identity Module Mobile Equipment (SIM ME) interface	ISO-7816-4,Clause 6 of ETSI TS 151.011 Rel 4 and above Annex.S

5. Variant 5 : UICC based ISIM- Pluggable form factor

5.1 Parameters Linked with Product Variant

S.No.	Parameter Name	Standard Name
5.1.1	Administrative commands for telecommunications applications in Integrated Circuit Cards (ICC) ISIM	Clause 6 of ETSI TS 102 222 Rel 5 and above Clause 4, 5, 6, 7 of ETSI TS 131 103 Rel 9 and above Annex.-S
5.1.2	Get IDENTITY for SUPI type NSI or GLI when SUCI calc done by USIM Hw	Clause 7.5.2.1 of ETSI TS 131 102 Rel 17 and above Annex.- S
5.1.3	Get Identity (SUCI Initiation)	Clause 7.5 of ETSI 131 102 Rel 16 and above Annex.-S
5.1.4	Hardware accelerator to enable Subscription Concealed Identifier (SUCI)	Clause 4.4.11.8 of ETSI 131 102 Rel 16 and above Annex.- S
5.1.5	Interface protocols ISIM on UICC	Clause 6.3 of ETSI TS 102 221 Rel 9 and above Annex.-S
5.1.6	ISIM Commands	Clause 7 of ETSI 131 103 Rel 9 and above Annex.- S
5.1.7	Minimum application clock frequency ISIM	Clause 5.3.1 of ETSI TS 131.101 Rel 9 and above Annex.-S
5.1.8	Physical and Logical Characteristics ISIM	Clause 4A and 5 Of ETSI TS 131 101 Rel.9 and above Annex.-S
5.1.9	Security mechanisms for the (U)SIM application toolkit Stage 2 ISIM	Clause 5, 6, 7, 8, 9 of ETSI TS 123 048 Rel 5 and above Annex.-S
5.1.10	SIM shall support special SSD (Supplementary Secure Domain) for SIM based apps ISIM.	Clause 7.2 of Global Platform Specifications version 2.1.1 and above Annex.-S
5.1.11	Subscription Permanent Identifier (SUPI)	Clause 4.4.11.10 of ETSI 131 102 Rel 16 and above Annex.-S
5.1.12	Support for PIN and PUK	ISO7816-4, Clause 9 of ETSI TS 102 221 Rel 9 and above Annex.-S
5.1.13	Transmission Speed ISIM	Clause 6.3 of ETSI TS 102 221 Rel 9 and above Annex.-S
5.1.14	Voltage classes (Class A Class B Class C at least two consecutive classes e.g. AB or BC) ISIM	Clause 6A.2 of ETSI TS 131.101 Rel.9 and above Annex.-S

6. Variant 6 : USIM- Pluggable form factor

6.1 Parameters Linked with Product Variant

S.No.	Parameter Name	Standard Name
6.1.1	Administrative commands for telecommunications applications in Integrated Circuit Cards (ICC) USIM	Clause 6 of ETSI TS 102 222 Release 9 and above Clause 4, 5, 6, 7 of ETSI TS 131 103 Rel 9 and above annex.- S
6.1.2	Authentication 3G/4G procedure	Clause 11.1.16 of ETSI TS 102 221 Rel 9 and above Procedure Clause 7.1 of ETSI TS 131 102 Rel 15 and above Annex.-S
6.1.3	Authentication procedure for 5G AKA	Clause 6.1.3.2 of ETSI TS 133 501 Rel 15 and above Annex.- S
6.1.4	Characteristics of the Universal Subscriber Identity Module (USIM) application	Clause 4.0 of ETSI TS 131 102 Rel 9 and above Annex.-S
6.1.5	Get Challenge	Clause 11.1.18 of ETSI TS 102 221 Rel 9 and above Annex.-S
6.1.6	Get IDENTITY for SUPI type NSI or GLI when SUCI calc done by USIM Hw	Clause 7.5.2.1 of ETSI TS 131 102 Rel 17 and above Annex.- S
6.1.7	Get Identity (SUCI Initiation)	Clause 7.5 of ETSI 131 TS 102 Rel 16 and above Annex.-S
6.1.8	Hardware accelerator to enable Subscription Concealed Identifier (SUCI)	Clause 4.4.11.8 of ETSI 131 TS 102 Rel 16 and above Annex.- S
6.1.9	Interface protocols USIM	Clause 6.3 of ETSI TS 102 221 rel 9 and aboveonwards Annex.- S
6.1.10	Manage Channel	Clause 11.1.17 od ETSI TS 102 221 Rel 17 and above Annex.- S
6.1.11	Minimum application clock frequency USIM	Clause 5.3.1 of ETSI TS 131 101 Rel 9 and above Annex.-S
6.1.12	Physical and Logical Characteristics USIM	Clause 4 & 5 of ETSI TS 131 101 Rel.9 and above Annex.-S
6.1.13	Power saving mode	Clause 5.1.10 of ETSI TS 131 102 Rel 15 and above Annex.- S
6.1.14	Security mechanisms for the (U)SIM application toolkit Stage 2	Clause 5, 6, 7, 8, 9 of ETSI TS 123 048 Rel 5 and above Annex.-S

6.1.15	SIM shall support special SSD (Supplementary Secure Domain) for SIM based apps.	Clause 7.2 of Global Platform Specifications Version 2.1.1 and above Annex.-S
6.1.16	Subscriber Identity Module Application Programming Interface (SIM API) for Java Card TM Stage 2 USIM	Clause 6 and Annexure-A of ETSI TS 143 019 Rel 5 and above Annex.-S
6.1.17	Subscriber Identity Module Application Programming Interface (SIM API) Stage 1 USIM	Clause 4, 5, 6, 7, 8 ETSI TS 142 019 Rel 5 and above Annex.-S
6.1.18	Subscription Permanent Identifier (SUPI)	Clause 4.4.11.10 of ETSI TS 131 102 Rel 16 and above Annex.-S
6.1.19	Support for PIN and PUK USIM	ISO7816-4 Clause 9 of ETSI TS 102 221 Rel 9 and above Annex.-S
6.1.20	Transmission Speed USIM	Clause 6.3 of ETSI TS 102 221 Rel 9 and above Annex.-S
6.1.21	Voltage classes (Class A Class B Class C at least two consecutive classes Eg AB or BC) USIM	Clause 6A.2 of ETSI TS 131 101 Rel 9 and above Annex.-S

6.2 Interface 1 : SIM-ME-USIM

S.No.	Parameter Name	Standard Name
6.2.1	Subscriber Identity Module Mobile Equipment (SIM ME) interface USIM	ISO-7816-4, Clause 6 of ETSI TS 151.011 Rel 4 and above Annex.- S

7. Variant 7 : eUICC-IoT (GSMA compliance)/eSIM-IoT

7.1 Parameter linked with Product Variant:

S.No.	Parameter Name	Standard Name
7.1.1	Answer to reset eUICC Content	Clause 6.3 of ETSI TS 102 221 Rel 9 and above Annex.-S
7.1.2	If there is no Enabled Profile on the eUICC, eUICC File Structure	Clause 3.8.3 of GSMA SGP .32 eSIM IoT Technical Specification v1 and above Annex.-S
7.1.3	Local eUICC management- eUICC memory Reset	Clause 5.9.5 of GSMA SGP .32 eSIM IoT Technical Specification v1 and

		above Annex.-S
7.1.4	Profile State Management- disable profile, enable profile, Delete profile.	Clause 3.4 of GSMA SGP .32 eSIM IoT Technical Specification v1 and above Annex.-S
7.1.5	Profile download and installation	Clause 3.2 of GSMA SGP .32 eSIM IoT Technical Specification v1 and above Annex.-S
7.1.6	Voltage classes eUICC	Clause 5.0 ETSI TS 102 221 Rel 9, ETSI TS 102 671 (UICC shall not Power Class A) Rel 9 and above Annex.-S
7.1.7	eUICC Package Handling- Generic eUICC Package Download and Execution & Profile Rollback	Clause 3.3 of GSMA SGP .32 eSIM IoT Technical Specification v1 and above Annex.-S
7.1.8	eIM Configuration at eUICC	Clause 3.5 of GSMA SGP .32 eSIM IoT Technical Specification v1 and above
7.1.9	IoT Device and eUICC Initialisation	Clause 3.8 of GSMA SGP .32 eSIM IoT Technical Specification v1 and above

8. Variant 8 : iUICC (GSMA compliance)/iSIM (Integrated SIM)

8.1 Parameter linked with Product Variant:

S.No.	Parameter Name	Standard Name
8.1.1	If there is no Enabled Profile on the iUICC, iUICC File Structure	Clause 3.8.3 of GSMA SGP .32 eSIM IoT Technical Specification v1 and above Annex.-S
8.1.2	Local UICC management- iUICC memory Reset	Clause 5.9.5 of GSMA SGP .32 eSIM IoT Technical Specification v1 and above Annex.-S
8.1.3	Profile State Management- disable profile, enable profile, Delete profile.	Clause 3.4 of GSMA SGP .32 eSIM IoT Technical Specification v1 and above Annex.-S
8.1.4	Profile download and installation	Clause 3.2 of GSMA SGP .32 eSIM IoT Technical Specification v1 and above

		Annex.-S
8.1.5	eUICC Package Handling- Generic eUICC Package Download and Execution & Profile Rollback	Clause 3.3 of GSMA SGP .32 eSIM IoT Technical Specification v1 and above Annex.-S
8.1.6	eIM Configuration at iUICC	Clause 3.5 of GSMA SGP .32 eSIM IoT Technical Specification v1 and above Annex.-S
8.1.7	IoT Device and eUICC Initialisation	Clause 3.8 of GSMA SGP .32 eSIM IoT Technical Specification v1 and above Annex.-S

Annexure-S: Subscriber Identity Module (SIM) Group: SIM

SIM Form factor	Product Variant	Cellular Technology Features				Pre-personalize Application	Remarks
		GSM	WCDMA	LTE/ LTE(A)	5G		
eUICC (M2M)	eUICC-M2M (GSMA compliance) / eSIM-M2M	Yes	Yes	Yes	Yes	SIM USIM ISIM	Single or multiple profile with GSMA Remote Service Provisioning
	eUICC- M2M (Non-GSMA compliance)	Yes	Yes	Yes	Yes	SIM USIM ISIM	Single or multiple profile without GSMA Remote Service Provisioning
eUICC (Consumer)	eUICC – Consumer (GSMA compliance) / eSIM-Consumer	Yes	Yes	Yes	Yes	None	
UICC (Pluggable)	SIM	Yes				SIM	
	USIM	Yes	Yes	Yes	Yes	USIM/SIM	
	ISIM			Yes	Yes	USIM/ ISIM	
eUICC (IoT)	eUICC-IoT (GSMA Compliance)/ eSIM-IoT	Yes	Yes	Yes	Yes	SIM USIM ISIM	Single or multiple profile with GSMA Remote Service Provisioning
iUICC/iSIM	iUICC (GSMA compliance)/iSIM (Integrated SIM)	Yes	Yes	Yes	Yes	SIM USIM ISIM	Single or multiple profile with GSMA Remote Service Provisioning

S. No.	Parameter Name	Standard	Test Specification	Applicability/ Remarks
S.1	Answer to reset eUICC	Clause 6.3 of ETSI TS 102 221 Rel 9 and above	Clause 6.4.2 of ETSI TS102 230-2 Rel 11 and above	eUICC - M2M (GSMA compliance) / eSIM-M2M
S.2	Physical and Logical Characteristics eSIM	Clause 6 & 7 of ETSI TS102 671 Rel 9 and above	Clause 6.2 of ETSI TS 102 230-2 Rel 11 and above	eUICC - M2M (GSMA compliance) / eSIM-M2M
S.3	Voltage classes eUICC	Clause 5.0 ETSI TS 102 221 Rel 9 and above, Clause 7.1 of ETSI TS 102 671 (UICC shall not Power Class A) Rel 9 and above	Clause 6 of ETSI TS 102 230-2 Rel 11 and above	eUICC - M2M (GSMA compliance) / eSIM-M2M
S.4	There shall be only one ISD-R and it is personalized by EUM during manufacturing	Clause 2.2.1.1. GSMA SGP .02 v4.2.1 and above	Clause 5.2 GSMA SGP 11 v4.2.1 and above	eUICC - M2M (GSMA compliance) / eSIM-M2M
S.5	No LOCKED state supported to ISD-R	Clause 2.2.1.1. GSMA SGP .02 v4.2.1 and above	Clause 5.2.2 of GSMA SGP .11 v4.1	eUICC - M2M (GSMA compliance) / eSIM-M2M
S.6	ISD-R shall be able to perform Platform management functionon ISD-Ps	Clause 2.2.1.1. GSMA SGP .02 v4.2.1 and above	Clause 4.2.3 ISDP creation and management	eUICC - M2M (GSMA compliance) / eSIM-M2M
S.7	There will be only one ECASD present	Clause 2.2.1.2. GSMA SGP .02 v4.2.1 and above	Clause 5.2 GSMA SGP 11 v4.1	eUICC - M2M (GSMA compliance) / eSIM-M2M
S.8	The ECASD application SHALL be installed by the EUM during eUICC manufacturing	GSMA-SAS-UP compliance manufacturing certificate	GSMA SAS -UP Certificate	eUICC - M2M (GSMA compliance) / eSIM-M2M

S.9	Secure Packet and Remote APDU structure for UICC based Applications	Clause 4.2 of ETSI TS 102 225rel 9 and above Clause 5, 7 , 8 of ETSI TS 102 226 rel 9 and above Global Platform Card Specification 2.2 Amendment B v1.1.3 – RAM over HTTP	Clause 5 of ETSI TS 103 481 Release 16 and above	eUICC - M2M (GSMA compliance) / eSIM-M2M
S.10	Profile download & Installation	Clause 3.1 GSMA SGP .02 v4.2.1 and above	Clause 4. of GSMA SGP .11v 4.2.1 and above interface compliance testing	eUICC - M2M (GSMA compliance) / eSIM-M2M
S.11	Subscription Manager sends enable commands to the eUICC with a previously downloaded profile	Clause 4.1.1.2 GSMA SGP .02 v4.2.1 and above	Clause 4. of GSMA SGP .11v 4.2.1 and above interface compliance testing	eUICC - M2M (GSMA compliance) / eSIM-M2M
S.12	Subscription Manager sends disable profile commands to the eUICC with a previously enabled profile	Clause 4.1.1.3 GSMA SGP .02 v4.2.1 and above	Clause 4. of GSMA SGP .11v 4.2.1 and above interface compliance testing	eUICC - M2M (GSMA compliance) / eSIM-M2M
S.13	Subscription Manager sends commands to delete a disabled profile	Clause 4.1.1.4 GSMA SGP .02 v4.2.1 and above	Clause 4. of GSMA SGP .11v 4.2.1 and above interface compliance testing	eUICC - M2M (GSMA compliance) / eSIM-M2M
S.14	eUICC Profile Package: Interoperable Format Technical Specification	Trusted connectivity alliance V3.3.1 and above	eUICC-Interop-Profile-Test-Specification-v3.3.1 from TCA	eUICC - M2M (GSMA compliance) / eSIM-M2M
S.15	Answer to reset eUICC	Clause 6.3 of ETSI TS 102 221 Rel 9 and above	Clause 6.4.2 of ETSI TS 102 230-2 Rel 11 and above	eUICC – Consumer (GSMA compliance) / eSIM-Consumer

S.16	Voltage classes eUICC	Clause 5.0 ETSI TS 102 221 Rel 9 and above, Clause 7.1 of ETSI TS 102 671 (UICC shall not Power Class A) Rel 9 and above	Clause 6 of ETSI TS 102 230-2 Rel 11 and above	eUICC – Consumer (GSMA compliance) / eSIM-Consumer
S.17	If there is no Enabled Profile on the eUICC	Clause 3.4.3 of GSMA SGP .22 RSP Technical Specification v2.4 and above	Clause 5.2.4 of test specification of SGP .23 eUICC v1.15 and above	eUICC – Consumer (GSMA compliance) / eSIM-Consumer
S.18	Remote provisioning – Profile download initiation	Clause 3.1 of GSMA SGP .22 RSP Technical Specification v2.4 and above	Clause 4 of the test specification GSMA SGP .23 v1.15 and above	eUICC – Consumer (GSMA compliance) / eSIM-Consumer
S.19	Remote provisioning – Profile download and installation	Clause 3.1.3 of GSMA SGP .22 RSP Technical Specification v2.4 and above	Clause 4 of the test specification GSMA SGP .23 v1.15 and above	eUICC – Consumer (GSMA compliance) / eSIM-Consumer
S.20	Local Profile Management	Clause 3.2 of GSMA SGP .22 RSP Technical Specification v2.4 and above	Clause 4 of the test specification GSMA SGP .23 v1.15 and above	eUICC – Consumer (GSMA compliance) / eSIM-Consumer
S.21	Local eUICC management - Retrieve eID, eUICC memory Reset	Clause 3.3.1 & 3.3.2 of GSMA SGP .22 RSP Technical Specification v2.4 and above	Clause 4 of the test specification GSMA SGP .23 v1.15 and above	eUICC – Consumer (GSMA compliance) / eSIM-Consumer
S.22	Administrative commands for telecommunications applications in Integrated Circuit Cards (ICC) USIM	Clause 6 of ETSI TS 102 222 Rel 9 and above	Clause 6 of ETSI TS 102 222 Rel 9 and above	eUICC -M2M (Non-GSMA compliance)
S.23	Transmission protocols USIM	Clause 7 of ETSI TS 102 221 Rel 9 and above	Clause 6.5 of ETSI TS 102 230-2 Rel 11 and above	eUICC -M2M (Non-GSMA compliance)

S.24	Minimum application clock frequency USIM	Clause 5.3.1 of ETSI TS 131 101 Rel 9 and above	Clause 8.2.3 of ETSI TS 131 122 Rel 17 and above	eUICC -M2M (Non-GSMA compliance)
S.25	Electrical specification of UICC with terminal interface	Clause 5 of ETSI TS 102 221 Rel 9 and above	Clause 8 of ETSI TS 131 122 Rel 18 and above	eUICC -M2M (Non-GSMA compliance)
S.26	Security mechanisms for the (U)SIM application toolkit Stage2	Clause 5 6 7 8 9 of ETSI TS 123.048 (Release 5.and above)	Clause 5 of ETSI TS 131 048 Release 5 and above	eUICC -M2M (Non-GSMA compliance)
S.27	USIM shall support special SSD (Supplementary Secure Domain	Clause 7.2 of Global Platform Specifications Version 2.1.1 or higher	Global Platform UICC Configuration v2.0 Compliance Test Suite v3.5.0.3	eUICC -M2M (Non-GSMA compliance)
S.28	Subscriber Identity Module Application Programming Interface (SIM API) for Java Card (Stage 2)	Clause 6 and annexure A of ETSI TS 143 019 Rel 5 and above	Clause 4 & 5 of ETSI TS 131 213 Rel 18 and above	eUICC -M2M (Non-GSMA compliance)
S.29	Support for PIN and PUK USIM	ISO7816 4 Clause 9 of ETSI TS 102 221 Rel 9 and above	Clause 6.7 of ETSI TS 102 230-2 Rel 11 and above	eUICC -M2M (Non-GSMA compliance)
S.30	Transmission Speed USIM	Clause 6.3 of ETSI TS 102 221 Rel 9 and above	Clause 6.4.2 of ETSITS102 230-2 Rel 11 and above	eUICC -M2M (Non-GSMA compliance)
S.31	Voltage classes (Class A ClassB Class C at least two consecutive classes Eg AB or BC) USIM	Clause 6A.2 of ETSI TS 131 101 Release 9 and above	Clause 8.2.2 of ETSI TS 131 122 Rel 17 and above	eUICC -M2M (Non-GSMA compliance)
S.32	Interface protocols SIM	Clause 5.4 of ETSI TS 131 101 Rel 9 and above	Clause 6.4.2 & 6.5.2.2 of ETSI TS 102 230-2 Rel 11 and above	SIM – Pluggable Form Factor
S.33	Minimum application clock frequency SIM	Clause 5 of ETSI TS 102 221 Rel 9 and above	Clause 6.3.4 of ETSITS 102 230-2 Rel 11 and above	SIM – Pluggable Form Factor
S.34	Security Features- SIM	Clause 7.1, 7.2 of ETSI TS 151 011 Rel 4 and above	Clause 6.4 of ETSI TS 151 017 Rel 4 and above	SIM – Pluggable Form Factor
S.35	Passive authentication SIM	Clause 7 of ETSI TS 151 011 Rel 4	Clause 6.4 of ETSI TS 151 017 Rel 4 and above	SIM – Pluggable Form Factor

S.36	Physical and Logical Characteristics SIM	Clause 4A, 5 Of ETSI TS 131 101 Rel.9 and above	Clause 6 of ETSI TS 151 017 Rel 4 and above	SIM – Pluggable Form Factor
S.37	Read or Update access to NVM controlled by OperatingSystem and Issuer SIM application.	ISO 7816 4, Clause 9 of ETSI TS 151 011 Rel 4 and above	Clause 6 of ETSI TS 151 017 Rel 4 and above	SIM – Pluggable Form Factor
S.38	Security mechanisms for the SIM application toolkit Stage 2	Clause 5, 6, 7, 8, 9 of ETSI TS 123 048 Rel 5 and above	Clause 5 of ETSI TS 131 048 Release 5 and above	SIM – Pluggable Form Factor
S.39	SIM Application	Clause 4,5,6,7 of ETSI TS 102 223 Rel 9 and above	Clause 6 of ETSI TS 151 013 Rel 5 and above	SIM – Pluggable Form Factor
S.40	SIM shall support special SSD (Supplementary Secure Domain) for SIM based apps.-For Java card based SIMs	Clause 7.2 of Global Platform Specifications of SIM Alliance Forum Version 2.1.1 and above	Global Platform Specifications Version 2.1.1 and above	SIM – Pluggable Form Factor
S.41	Subscriber Identity Module Application Programming Interface (SIM API) (Stage 1)	Clause 4, 5, 6, 7, 8 ETSI TS 142 019 rel 5 and above	Clause 6 of ETSI TS 151 013 Rel 5 and above	SIM – Pluggable Form Factor
S.42	Subscriber Identity Module Application Programming Interface (SIM API) for Java Card TM (Stage 2)	Clause 6 and Annexure-A of ETSI TS 143 019 Rel 5 and above	Clause 6.3 of ETSI TS 151 013 Rel 16 and above	SIM – Pluggable Form Factor
S.43	Transmission Speed SIM	Clause 6.3 of ETSI TS 102 221 Rel 9 and above	Clause 6.4.2 of ETSITS102 230-2 Rel 11 and above	SIM – Pluggable Form Factor
S.44	Voltage classes (Class A ClassB Class C at least two consecutive classes eg AB or BC) SIM on UICC	Clause 6a.2 of ETSI TS 131.101 Rel 9 and above	Clause 8.2.2 of ETSI TS 131 122 Rel 17 and above	SIM – Pluggable Form Factor

S.45	Administrative commands for telecommunications applications in Integrated Circuit Cards (ICC) ISIM	Clause 6 of ETSI TS 102 222 Rel 5 and above Clause 4, 5, 6, 7 of ETSI TS 131 103 Rel 9 and above	Clause 6.6 of ETSI TS 151 017 rel 4 Clause 7.3 of ETSI TS 131 122 rel 17	UICC based ISIM – PluggableForm Factor
S.46	Interface protocols ISIM on UICC	Clause 6.3 of ETSI TS 102 221 rel 9 and above	Clause 6.5.2.2 of ETSI TS 102 230-2 Rel 11 and above	UICC based ISIM – PluggableForm Factor
S.47	Minimum application clock frequency ISIM	Clause 5.3.1 of ETSI TS 131 101 Rel 9 and above	Clause 8.2.3 of ETSI TS 131 122 Rel 17 and above	UICC based ISIM – PluggableForm Factor
S.48	Physical and Logical Characteristics ISIM	Clause 4A and 5 Of ETSI TS 131 101 Rel.9 and above	Clause 8.2 of ETSI TS 131 122 Rel 17 and above	UICC based ISIM – PluggableForm Factor
S.49	Security mechanisms for the (U)SIM application toolkit Stage2 ISIM	Clause 5, 6, 7, 8, 9 of ETSI 123 048 rel 5 and above	Clause 5 of ETSI TS 131 048 Release 5	UICC based ISIM – PluggableForm Factor
S.50	SIM shall support special SSD (Supplementary Secure Domain) for SIM based apps ISIM.	Clause 7.2 of Global Platform Specifications of SIM Alliance Forum version 2.1.1 and above	Global Platform Specifications Version 2.1.1 and above	UICC based ISIM – PluggableForm Factor
S.51	Support for PIN and PUK	ISO7816 4 Clause 9 of ETSI TS 102 221 Rel 9 and above	Clause 6.7 of ETSI TS 102 230-2 Rel 11 and above	UICC based ISIM – PluggableForm Factor
S.52	Transmission Speed ISIM	Clause 6.3 of ETSI TS 102 221 Rel 9 and above	Clause 6.4.2 of ETSITS102 230-2 Rel 11 and above	UICC based ISIM – PluggableForm Factor
S.53	Voltage classes (Class A ClassB Class C at least two consecutive classes e.g. AB or BC)	Clause 6A.2 of ETSI TS 131.101 Rel 9 and above	Clause 8.2.2 of ETSI TS 131 122 Rel 17 and above	UICC based ISIM – PluggableForm Factor

S.54	ISIM commands	Clause 7 of ETSI 131 103 Rel 9 and above	Clause 6.9.1.18 of ETSI TS 102 230-2 Rel 11 and above Clause 7.3.1 of ETSI TS 131 122 Rel 17 and above	UICC based ISIM – PluggableForm Factor
S.55	Hardware accelerator to enable Subscription Concealed Identifier (SUCI)	Clause 4.4.11.8 of ETSI 131 102 Rel 16 and above	Clause 5.3.3, 5.3.4 of ETSI 131 121 rel 15 and above	UICC based ISIM – PluggableForm Factor
S.56	Subscription Permanent Identifier (SUPI)	Clause 4.4.11.10 of ETSI 131 102 Rel 16 and above	Testing with 5G NR Simulator	UICC based ISIM – PluggableForm Factor
S.57	GET IDENTITY (SUCI initiation)	Clause 7.5 of ETSI 131 102 Rel 16 and above	Clause 5.3.3 of ETSI 131 121 Rel 16 and above Clause 7.3.3 of ETSI 131 122 Rel 17 and above	UICC based ISIM – PluggableForm Factor
S.58	Get IDENTITY for SUPI type NSI or GLI when SUCI calc done by USIM Hw	Clause 7.5.2.1 of ETSI TS 131 102 Rel 17 and above	Clause 7.3.3 of ETSI 131 122 Rel 16 and above	UICC based ISIM – PluggableForm Factor
S.59	Administrative commands for telecommunications applications in Integrated Circuit Cards (ICC) USIM	Clause 6 of ETSI TS 102 222 Release 5 and above Clause 4, 5, 6, 7 of ETSI TS 131 103 Rel 9 and above	Clause 6 of ETSI TS 102 222 Release 5 and above	USIM – Pluggable FormFactor
S.60	Interface protocols USIM	Clause 6.3 of ETSI TS 102 221 rel 9 and above and above	Clause 6.4.2 & 6.5.2.2 of ETSI TS 102 230-2 Rel 11 and above	USIM – Pluggable FormFactor
S.61	Minimum application clock frequency USIM	Clause 5.3.1 of ETSI TS 131 101 Rel 9 and above	Clause 8.2.3 of ETSI TS 131 122 Rel 17 and above	USIM – Pluggable FormFactor

S.62	Physical and Logical Characteristics USIM	Clause 4 & 5 Of ETSI TS 131 101 Rel.9 and above	Clause 8.2 of ETSI TS 131 122 Rel 17 and above	USIM – Pluggable FormFactor
S.63	Security mechanisms for the (U)SIM application toolkit Stage 2	Clause 5, 6, 7, 8, 9 of ETSI TS 123 048 rel 5 and above	Clause 5 of ETSI TS 131 048 Release 5 and above	USIM – Pluggable FormFactor
S.64	SIM shall support special SSD (Supplementary Secure Domain) for SIM based apps.	Clause 7.2 of Global Platform Specifications of SIM Alliance Forum Version 2.1.1 and above	Global Platform Specifications Version 2.1.1 and above	USIM – Pluggable FormFactor
S.65	Subscriber Identity Module Application Programming Interface (SIM API) for Java CardV TM Stage 2 USIM	Clause 6 7 of ETSI TS 143.019 Release 5 and above	Clause 6 and Annexure-A of ETSI TS 143 019 Rel 5 and above	USIM – Pluggable FormFactor
S.66	Subscriber Identity Module Application Programming Interface (SIM API) Stage 1 USIM	Clause 4, 5, 6, 7, 8 ETSI TS 142 019 rel 5 and above	Clause 6 of ETSI TS 151 013 Rel 5 and above	USIM – Pluggable FormFactor
S.67	Support for PIN and PUK USIM	ISO7816 4 Clause 9 of ETSI TS 102 221 Rel 9 and above	Clause 6.7 of ETSI TS 102 230-2 Rel 11 and above	USIM – Pluggable FormFactor
S.68	Transmission Speed USIM	Clause 6.3 of ETSI TS 102 221 Rel 9 and above	Clause 6.4.2.2 of ETSI TS102 230-2 Rel 11 and above Clause 8.2.1 of ETSI TS 131 122 Rel 16 and above	USIM – Pluggable FormFactor
S.69	Voltage classes (Class A ClassB Class C at least two consecutive classes Eg AB or BC)	Clause 6A.2 of ETSI TS 131.101 Rel.9 and above	Clause 8.2.2 of ETSI TS 131 122 Rel 17 and above	USIM – Pluggable FormFactor
S.70	Authentication 3G/4G procedure	Clause 11.1.16 of ETSI TS 102 221 Rel 9 and above Clause 7.1 of ETSI 131 102 Rel 9 and above	Clause 7.3.1 of ETSI TS 131 122 Rel 17 and above	USIM – Pluggable FormFactor

S.71	Characteristics of the Universal Subscriber Identity Module (USIM) application	Clause 4.0 of ETSI TS 131 102 Rel 9 and above	Clause 6.10, 7.1 of ETSI TS 131 122 Rel 9 and above	USIM – Pluggable FormFactor
S.72	Hardware accelerator to enable Subscription Concealed Identifier (SUCI)	Clause 4.4.11.8 of ETSI TS 131 102 Rel 16 and above	Clause 5.3.3, 5.3.4 of ETSI TS 131 121 rel 15 and above	USIM – Pluggable FormFactor
S.73	Subscription Permanent Identifier (SUPI)	Clause 4.4.11.10 of ETSI TS131 102 Rel 16 and above	Testing with 5G NR Simulator	USIM – Pluggable FormFactor
S.74	GET IDENTITY (SUCI initiation)	Clause 7.5 of ETSI TS 131 102 Rel 16 and above	Clause 5.3.3 of ETSI TS 131 121 Rel 16 and above Clause 7.3.3 of ETSI TS 131 122 Rel 17 and above	USIM – Pluggable FormFactor
S.75	Power saving mode	Clause 5.1.10 of ETSI TS 131 102 Rel 15 and above	Clause 5.1.10 of ETSI TS 131 102 Rel 15 and above	USIM – Pluggable FormFactor
S.76	Get IDENTITY for SUPI type NSI or GLI when SUCI calc done by USIM Hw	Clause 7.5.2.1 of ETSI TS 131 102 Rel 17 and above	Clause 7.3.3 of ETSI TS 131 122 Rel 16 and above	USIM – Pluggable FormFactor
S.77	Authentication procedure for 5G AKA	Clause 6.1.3.2 of ETSI TS 133 501 Rel 15 and above	Clause 7.3.1 of ETSI TS 131 122 Rel 16 and above	USIM – Pluggable FormFactor
S.78	Manage Channel	Clause 11.1.17 of ETSI TS 102 221 Rel 9 and above	Clause 6.9.1.17 of ETSI 102 230-2 Rel 11 and above	USIM – Pluggable FormFactor
S.79	Get Challenge	Clause 11.1.18 of ETSI TS 102 221 Rel 9 and above	Clause 6.9.1.18 of ETSI TS 102 230-2 Rel 11 and above	USIM – Pluggable FormFactor
S.80	Pre-personalized Profiles ISIM	Clause 4 of ETSI TS 131 103 Rel 9 and above	Clause 7.1 of ETSI TS 131 122 Rel 17 and above	Pre-personalized Profiles ISIMfor eUICC - M2M (GSMA compliance) / eSIM-M2M

S.81	Pre-personalized Profiles SIM	Clause 10 of ETSI TS 151.011 Rel 4 and above	Clause 6.7 of ETSI TS 151.017 release 4 and above	Pre-personalized Profiles SIM for eUICC - M2M (GSMA compliance) / eSIM-M2M
S.82	Pre-personalized Profiles USIM	Clause 4 of ETSI TS 131 102 Rel 9 and above	Clause 7.1 of ETSI TS 131 122 Rel 17 and above	Pre-personalized Profiles USIM for eUICC - M2M (GSMA compliance) / eSIM-M2M
S.83	Subscriber Identity Module Mobile Equipment (SIM ME) interface USIM	Clause 6 of ETSI TS 151 011 Release 4 and above	Clause 6.3 of ETSI TS 151 017 rel 4 and above	SIM-ME-USIM Interface for eUICC - M2M (Non-GSMA compliance)
S.84	Pre-personalized Profiles ISIM	Clause 4 of ETSI TS 131 103 Rel 9 and above	Clause 4 of ETSI TS 131 103 Rel 9 and above	Pre-personalized Profiles ISIM for eUICC - M2M (Non-GSMA compliance)
S.85	Pre-personalized Profiles SIM	Clause 10 of ETSI TS 151.011 Rel 4 and above	Clause 6.7 of ETSI TS 151.017 and above	Pre-personalized Profiles ISIM for eUICC - M2M (Non-GSMA compliance)
S.86	Pre-personalized Profiles USIM	Clause 4. 5 of ETSI TS 131 102 Rel 9 and above	Clause 7.1 of ETSI TS 131 122 Rel 17 and above	Pre-personalized Profiles ISIM for eUICC - M2M (Non-GSMA compliance)
S.87	Software Components shall include Operating System and SIM Tool Kit Applications	Clause 4,5,6,7 of ETSI TS 102 223 Rel 9 and above	Clause 27 of ETSI TS 131 124 Rel 11 and above	SIM-ME Interface for SIM – Pluggable Form Factor
S.88	Subscriber Identity Module Mobile Equipment (SIM ME) interface	ISO-7816-4 Clause 6 of ETSI TS 151.011 Release 4 and above.	Clause 6.3 of ETSI TS 151 017 rel 4 and above	SIM-ME Interface for SIM – Pluggable Form Factor
S.89	Subscriber Identity Module Mobile Equipment (SIM ME) interface USIM- Pluggable	ISO-7816-4 Clause 6 of ETSI TS 151.011 Release 4 and above.	Clause 6.3 of ETSI TS 151 017 rel 4 and above	SIM-ME-USIM for USIM – Pluggable Form Factor

S.90	Answer to reset eSIM content	Clause 6.3 of ETSI TS 102 221 Rel 9 and above	Clause 6 of ETSI TS 131 120 Rel 9 and above Clause 6.1 6.4.2 of ETSI TS 102 230-1 2 Rel 11 and above	eUICC – IoT (GSMA compliance) / eSIM-IoT
S.91	Voltage classes eUICC	Clause 5.0 ETSI TS 102 221 Rel 9, ETSI TS 102 671 (UICC shall not Power Class A) Rel 9 and above	Clause 6 of ETSI TS 102 230-2 Rel 11 and above	eUICC – IoT (GSMA compliance) / eSIM-IoT
S.92	If there is no Enabled Profile on the eUICC, eUICC File Structure	Clause 3.8.3 of GSMA SGP .32 eSIM IoT Technical Specification v1 and above	Clause 5.2.4 of test specification of SGP.23 eUICC v2.4 and above	eUICC – IoT (GSMA compliance) / eSIM-IoT
S.93	Local eUICC management- eUICC memory Reset	Clause 5.9.5 of GSMA SGP .32 eSIM IoT Technical Specification v1 and above	Clause 4 of the test specification GSMA SGP.33-1v1.2 and above	eUICC – IoT (GSMA compliance) / eSIM-IoT
S.94	Profile State Management- disable profile, enable profile, Delete profile.	Clause 3.4 of GSMA SGP .32 eSIM IoT Technical Specification v1 and above	Clause 4 of the test specification GSMA SGP.33-1v1.2 and above	eUICC – IoT (GSMA compliance) / eSIM-IoT
S.95	Profile download and installation	Clause 3.2 of GSMA SGP .32 eSIM IoT Technical Specification v1 and above	Clause 4 of the test specification GSMA SGP.33-1v1.2 and above	eUICC – IoT (GSMA compliance) / eSIM-IoT
S.96	eUICC Package Handling- Generic eUICC Package Download and Execution & Profile Rollback	Clause 3.3 of GSMA SGP .32 eSIM IoT Technical Specification v1 and above	Clause 4 of the test specification GSMA SGP.33-1v1.2 and above	eUICC – IoT (GSMA compliance) / eSIM-IoT
S.97	eIM Configuration at eUICC	Clause 3.5 of GSMA SGP .32 eSIM IoT Technical Specification v1 and above	Clause 4 of the test specification GSMA SGP.33-1v1.2 and above	eUICC – IoT (GSMA compliance) / eSIM-IoT
S.98	IoT Device and iUICC Initialisation	Clause 3.8 of GSMA SGP .32 eSIM IoT Technical Specification v1 and above	Clause 4 of the test specification GSMA SGP.33-1v1.2 and above	eUICC – IoT (GSMA compliance) / eSIM-IoT

S.99	If there is no Enabled Profile on the iUICC, iUICC File Structure	Clause 3.8.3 of GSMA SGP .32 eSIM IoT Technical Specification v1 and above	Clause 5.2.4 of test specification of SGP.23 eUICC v2.4 and above	iUICC (GSMA compliance)/iSIM
S.100	Local UICC management- iUICC memory Reset	Clause 5.9.5 of GSMA SGP .32 eSIM IoT Technical Specification v1 and above	Clause 4 of the test specification GSMA SGP.33-1v1.2 and above	iUICC (GSMA compliance)/iSIM
S.101	Profile State Management- disable profile, enable profile, Delete profile.	Clause 3.4 of GSMA SGP .32 eSIM IoT Technical Specification v1 and above	Clause 4 of the test specification GSMA SGP.33-1v1.2 and above	iUICC (GSMA compliance)/iSIM
S.102	Profile download and installation	Clause 3.2 of GSMA SGP .32 eSIM IoT Technical Specification v1 and above	Clause 4 of the test specification GSMA SGP.33-1v1.2 and above	iUICC (GSMA compliance)/iSIM
S.103	eUICC Package Handling- Generic eUICC Package Download and Execution & Profile Rollback	Clause 3.3 of GSMA SGP .32 eSIM IoT Technical Specification v1 and above	Clause 4 of the test specification GSMA SGP.33-1v1.2 and above	iUICC (GSMA compliance)/iSIM
S.104	eIM Configuration at iUICC	Clause 3.5 of GSMA SGP .32 eSIM IoT Technical Specification v1 and above	Clause 4 of the test specification GSMA SGP.33-1v1.2 and above	iUICC (GSMA compliance)/iSIM
S.105	IoT Device and iUICC Initialisation	Clause 3.8 of GSMA SGP .32 eSIM IoT Technical Specification v1 and above	Clause 4 of the test specification GSMA SGP.33-1v1.2 and above	iUICC (GSMA compliance)/iSIM

Comments on Draft Standard for Essential Requirement (ER) of SIM.

Name:

Organization:

Contact Details:

Clause No.	Clause	Comments	Other Remarks, if any