

# RSP Compliance Process Version 3.1 22 March 2024

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# 1 Introduction

#### 1.1 Overview

This document describes the common set of compliance requirements by which Remote SIM Provisioning (eSIM) products can demonstrate and declare compliance with the GSMA Consumer eSIM Architecture and Technical PRDs; SGP.21 [1] and SGP.22 [2].

Specific requirements to declare compliance are described according to the eSIM product or service, and include the following:

- Functional compliance to GSMA's Consumer eSIM PRDs,
- Product security; both platform (hardware) and specific eUICC security requirements,
- eUICC production site security, referencing GSMA's SAS-UP audit scheme
- Subscription Management server site security, referencing GSMA's SAS-SM audit scheme

eSIM compliance is an eligibility pre-requisite for the issuance of the X.509 PKI certificates used in Consumer eSIM authentication to eUICC manufacturers and subscription management service providers.

This version of SGP.24, including its associated annexes, supersedes previous versions, as detailed in Annex C.

## 1.2 Scope

The requirements within this document are applicable to the following Products:

- 1. Devices supporting an LPA in the device (LPAd) or LPA in the eUICC (LPAe)
- 2. eUICC, with or without an LPA
- 3. SM-DP+ and SM-DS providing a Subscription Management service

#### 1.3 Intended Audience

Consumer eSIM product vendors, telecom service providers, test and certification bodies, and other industry organisations working in the area of eSIM.

Term	Description	
	As defined in RFC.5280 [9] or GlobalPlatform specifications	
	Identifies its issuing certification authority	
Digital Certificate (Public	Names or identifies the subscriber of the certificate	
Key)	Contains the subscriber's public key	
	Identifies its operational period	
	Is digitally signed by the issuing certification authority.	
eSIM	As defined in SGP.21 [1].	
eUICC	As defined in SGP.21 [1].	
Evidence Documentation	Evidence of product compliance to the requirements detailed within this document.	

## 1.4 Definition of Terms

Term	Description
Field-Test eUICC	A pre-production eUICC whose functional or security certifications are not yet completed by the EUM.
eSIM Product	eUICC, Field-Test eUICC, SM-DP+ (Subscription Manager Data Preparation), SM-DS (Subscription Manager Discovery Services) and Devices that are designed to support the GSMA defined Remote SIM Provisioning feature.
eSIM Product Vendor	The manufacturer or service provider of an eSIM Product
Tamper Resistant Element	As defined in SGP.21 [1].
Type Allocation Code	Initial eight-digit portion of the 15-digit IMEI used in 3GPP mobile devices

## 1.5 Abbreviations

Abbreviation	Description
EID	eUICC identifier
eSA	eUICC Security Assurance
EUM	eUICC manufacturer
IMEI	International Mobile Equipment Identity
LPA	Local Profile Assistant
PRD	Permanent Reference Document
SAS	GSMA Security Accreditation Scheme
SAS-SM	SAS for Subscription Management
SAS-UP	SAS for UICC Production
SM-DP+	Subscription Manager Data Preparation +
SM-DS	Subscription Manager (Root or Alternative) Discovery Service
TAC	Type Allocation Code
TRE	Tamper Resistant Element

#### 1.6 References

Refer to the eSIM Certification Applicability table in Annex C of this document to identify the valid versions(s).

Ref	Document Number	Title
[1]	GSMA PRD SGP.21	eSIM Architecture Specification
[2]	GSMA PRD SGP.22	eSIM Technical Specification
[3]	GSMA PRD SGP.23	eSIM Test Specification
[4]	GSMA PRD SGP.25	eUICC for Consumer Devices Protection Profile
[5]	GSMA PRD FS.04	Security Accreditation Scheme for UICC Production – Standard
[6]	GSMA PRD FS.08	GSMA SAS Standard for Subscription Manager Roles

Ref	Document Number	Title
[7]	GSMA PRD SGP.14	GSMA eUICC PKI Certificate Policy
[8]	RFC 2119	"Key words for use in RFCs to Indicate Requirement Levels", S. Bradner http://www.ietf.org/rfc/rfc2119.txt
[9]	RFC 5280	Internet X.509 PKI Certificate and CRL Profile
[10]	GSMA PRD SGP.06	eUICC Security Assurance Principles
[11]	GSMA PRD SGP.07	eUICC Security Assurance Methodology
[12]	Void	Void
[13]	GSMA PRD AA.35	Procedures for Industry Specifications Product
[14]	GSMA PRD SGP.08	Security Evaluation of Integrated eUICC based on PP-0084
[15]	eUICC Profile Package	Trusted Connectivity Alliance (TCA) eUICC Profile Package: Interoperable Format Technical specification
[16]	TCA Test	Trusted Connectivity Alliance (TCA) eUICC Profile Package: Interoperable Format Test Specification
[17]	GSMA PRD SGP.18	Security Evaluation of Integrated eUICC based on PP-0117

## 1.7 Conventions

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in RFC2119 [8].

## 2 Compliance Overview

The GSMA Consumer eSIM architecture PRD, SGP.21 [1], specifies the high level security and functional requirements for eSIM Product compliance. The eSIM Technical Specification, SGP.22 [2], provides the technical description of the eSIM architecture, and is the technical reference for test and compliance requirements.

Compliance is essential for interoperability within the Consumer eSIM ecosystem. This document provides the framework within which:

- eUICC, SM-DP+ and SM-DS requiring eSIM PKI certificates for eSIM operation can demonstrate the prerequisite functional and security compliance to the Consumer eSIM requirements.
- Field-Test eUICC requiring eSIM PKI certificates for eSIM operation are exempted from the compliance rules set in this document if the Field-Test eUICC is operated according to the requirements set for Field-Test eUICCs in SGP.21 [1] (version 2.4 or higher) and SGP.22 [2] (version 2.4 or higher).
- An eSIM Device can demonstrate functional compliance to the Consumer eSIM requirements.

The expected means to demonstrate compliance are detailed in this document, together with the declaration templates to be used for an SGP.24 declaration.

Specific references for all compliance requirements can be found in Annex C, categorised as either "Site Security Requirements", "Product Security Requirements" or "Functional Requirements".

It is recommended to refer to Annex C when planning a product or service compliance in order to identify the validity and applicability of referenced specifications and requirements.

# 3 Compliance Declarations Types

To declare compliance with SGP.24, the product SHALL:

- Be compliant with the technical requirements defined in the GSMA PRD SGP.21 [1] and GSMA PRD SGP.22 [2].
- Have demonstrated its compliance using the means described in SGP.24, and its Annex C.

The compliance declaration templates are in Annex A of this document, and SHALL be submitted to <u>RSPCompliance@gsma.com</u> for verification once all compliance requirements have been met. The Compliance declaration comprises:

- Completed template Annex A.1: the Product Declaration, which also provides details of the organisation responsible for the declaration,
- Completed template Annex A.2 or A.3 or A.4 or A.5 or A.9 (as applicable): the compliance details of the declared eSIM Product or service.

The GSMA turnaround time for issuing a confirmation of compliance declaration is 2 working days.

Product type	Details of Company and Product Declaration	Details of Product Compliance
Device (LPAd)	Annex A.1	Annex A.2
eUICC	Annex A.1	Annex A.3
SM-DP+	Annex A.1	Annex A.4
SM-DS	Annex A.1	Annex A.5
Self- Assessment of eUICC Certified products	Annex A.1	Annex A.9

## Table 1: Compliance declaration templates

NOTE1: No compliance declarations are required for Field-Test eUICC products.

NOTE2: Annexes A.6, A.7 and A.8 are reserved for future use.

#### 3.1 Compliance Maintenance

A compliance declaration is an indication of:

• the initial compliance of the product, at the time of declaration,

• the ongoing compliance of the product, including any hardware or software updates affecting eSIM features.

#### 3.1.1 New Declarations or Major Updates Declarations

For Major updated declarations, it is important to indicate in Annex A.1 that the declaration type is *'Major Product Update'*.

A new declaration is to be submitted new eSIM products or major changes to previously declared eSIM products such as:

#### eUICC Products:

- IC Platform Changes
- Major version update (e.g: v2.0 to v3.0)
- Software Security Changes (part of the security TOE)

The process to follow for new or major updates eUICC declarations is to fill and send the latest SGP.24 template (A.1 plus A.3) with all the new information in it.

GSMA will issue a new or updated confirmation of compliance and a new RSP reference (if listed on GSMA Compliance data base) for the new declaration.

#### Device (LPAd) Products:

- Major version update (e.g: v2.0 to v3.0)
- Changes on GCF/PTCRB certification

The process to follow for new or major updates Device (LPAd) declarations is to fill and send the latest SGP.24 template (A.1 plus A.2) with all the new information in it.

GSMA will issue a new or updated confirmation of compliance and a new RSP reference (if listed on GSMA Compliance data base) for the new declaration.

#### <u>SM-DP+ or SM-DS Products:</u>

• Major version update (e.g: v2.0 to v3.0)

The process to follow for new or major updates SM-DP+ or SM-DS declarations is to fill and send the latest SGP.24 template (A.1 plus A.4 or A.5) with all the new information in it.

GSMA will issue a new or updated confirmation of compliance and a new RSP reference (if listed on GSMA Compliance data base) for the new declaration.

#### 3.1.2 Minor Updated Declarations

For Minor updated declarations, it is important to indicate in Annex A.1 that the declaration type is *'Minor Product Update'*.

A minor updated declaration is to be submitted for any changes to eSIM product that impact RSP functionality such as:

#### eUICC Products:

- Addition or deletion of a new SAS site for the production of the product.
- Minor Version support update (e.g: v2.1 to v2.2).

• Addition or removal of optional features within the same SGP.22 version

For SAS-UP site updates new or deleted SAS-UP certificate SHOULD be provided, and in any other case new functional testing SHOULD be performed on the product using any of the allowed functional testing methods.

The process to follow for minor updated eUICC declarations is to fill and send the latest SGP.24 template (A.1 plus A.3) reusing the previous information and updating only what is new or updated.

GSMA will issue an updated 'Confirmation of PKI Certificate Issuance' for the updated product and will update the GSMA Compliance data base (if listed) with:

- new updated information
- update date

In the cases detailed in sections 3.1.1 and 3.1.2, the declaration will be verified to check the product has demonstrated compliance using the applicable version of SGP.24 (i.e. the initial or latest version) according to the reason for compliance maintenance.

#### Device (LPAd) Products:

- Minor Version support update (e.g: v2.1 to v2.2).
- Addition or removal of optional feature within the same SGP.22 version.

For addition or removal of optional features, new functional testing SHOULD be performed on the product using any of the allowed functional testing methods.

The process to follow for minor updated Device (LPAd) declarations is to fill and send the latest SGP.24 template (A.1 plus A.2) reusing the previous information and updating only what is new or updated.

GSMA will issue an updated 'Confirmation of Device Compliance' for the updated product and will update the GSMA Compliance data base (if listed) with:

- new updated information
- update date

In the cases detailed in sections 3.1.1 and 3.1.2, the declaration will be verified to check the product has demonstrated compliance using the applicable version of SGP.24 (i.e. the initial or latest version) according to the reason for compliance maintenance.

#### SM-DP+ or SM-DS Products:

- Minor Version support update (e.g: v2.1 to v2.2).
- Addition or removal of optional feature within the same SGP.22 version.

For SAS-SM site updates new or deleted SAS-SM certificate SHOULD be provided, and in any other case new functional testing SHOULD be performed on the product using any of the allowed functional testing methods.

The process to follow for minor updated SM-DP+ or SM-DS declarations is to fill and send the latest SGP.24 template (A.1 plus A.4 or A.5) reusing the previous information and updating only what is new or updated.

GSMA will issue an updated 'Confirmation of PKI Certificate Issuance' for the updated product and will update the GSMA Compliance data base (if listed) with:

- new updated information
- update date

In the cases detailed in sections 3.1.1 and 3.1.2, the declaration will be verified to check the product has demonstrated compliance using the applicable version of SGP.24 (i.e. the initial or latest version) according to the reason for compliance maintenance.

#### 3.1.3 Self-Assesment of eUICC Certified Products Updates Declarations

For Self-Assessment declarations, it is important to indicate in the Annex A.1 declaration that the declaration type is 'Self-Assessment of eUICC Certified Products Updates'.

A Self-Assessment is to be submitted for any changes to eUICC product that do not impact the RSP functionality, SAS processes nor they are part of the security TOE.

The process to follow for Self-Assessment declarations is to fill and send the latest SGP.24 template A.9 Self-Assessment of eUICC Certified products updates declaration including:

- List the changes made to the eUICC product
- Indicate the impact on the eUICCs deployed on the field.
- Add reference/report made by eUICC Manufacturer or third party lab
- Indicate if the change is confidential to GSMA only or to be visible on the GSMA Compliance data base

GSMA will issue a revision of the previously issued 'Confirmation of PKI Certificate Issuance' and will update the GSMA Compliance data base (if listed) with:

- new SW version
- update date
- Note to indicate 'Updated via self-assessment'

#### 3.1.4 **Product Withdrawal**

Changes to a compliant product that result in it no longer being compliant to the initially declared specifications SHALL be notified to the GSMA with a request for compliance to be withdrawn.

The process to follow for a withdrawal of compliance declaration is to complete Annex A.1 indicating the product withdrawal and the reason for it and send an email to <u>RSPCompliance@gsma.com</u> with this information.

As a consequence, GSMA will remove the declaration from its GSMA eSIM Compliance data base.

## 3.1.5 Fast Track Update

For Fast Track updates declarations, it is important to indicate in Annex A.1 that the declaration type is *'Fast Track Update'*.

To expedite urgent fixes of the eUICCs that already declared compliance, an updated compliance declaration can indicate fast-track if all of the following conditions are met:

- The eUICC has already declared compliance (i.e., the compliance declaration is "active"<sup>1</sup>) with either SOG-IS Common Criteria or GSMA eSA security evaluation schemes;
- The updated eUICC maintains compliances to the same versions of SGP.21 [1] and SGP.22 [2] in the updated compliance declaration;
- The updated eUICC support the same features (optional and mandatory) as the original eUICC; and
- The updated eUICC has been evaluated (with code review and, if the update affects RSP functions, functional testing) by the security laboratory and impact assessment report has been issued by the security laboratory<sup>2</sup> indicating that the updated eUICC product is resistant against high attack potential.
- NOTE 1: While an eUICC is marked as "update ongoing" on the compliance declaration by the GSMA, there cannot be another fast-track certification update.
- NOTE 2: Issuing the impact assessment report SHOULD be advised by the certification body in advance. Otherwise, the fast-track declaration update might fail to provide a certification report, revoking the compliance declaration; see below.

An updated compliance declaration indicating fast-track SHALL:

- Be acknowledged by GSMA by marking the compliance declaration as "update ongoing";
- Provide the security certification report reference of the existing declaration of the eUICC (see also Annex A.3);
- Be followed by an updated compliance declaration with re-issued certification report references as soon as they are available. This MUST be completed within 4 months, where GSMA MAY allow additional 2 months upon request from the security lab. Otherwise GSMA will remove the compliance declaration from its GSMA eSIM Compliance database data by marking it as "expired".

## 3.2 eUICC Compliance Expiration

The eUICC manufacturer SHALL maintain SAS-UP accreditation by proper renewal of sites security audits according to GSMA Security Accreditation Scheme (SAS) requirements during the whole manufacturing life of the declared eUICC products.

Functional and security certifications have no expiration dates. Functional and security certification are valid during the whole life cycle of the eUICC for existing products in the field for existing products in the field unless otherwise updated during its lifecycle.

# 4 Compliance Requirements

The compliance requirements are derived from the GSMA SGP.21 [1] eSIM Architecture specification. This section details these requirements and their applicability to eSIM product as:

- Site security requirements for eUICC production sites and Subscription Management service sites,
- Product security requirements (eUICC only),
- Functional requirements, including interoperability.

#### 4.1 Site Security Requirements

All eUICC production sites and all SM-DP+ and SM-DS service sites used in GSMA eSIM must hold a valid site security accreditation for the entire time they are being used for eUICC production or Subscription Management service provision.

Accreditation is from the GSMA Security Accreditation Scheme (SAS). Further details can be found on the GSMA's <u>SAS</u> webpage.

The SAS-UP or SAS-SM certificate reference shall be included in the compliance declaration for an eUICC (annex A.3), SM-DP+ (annex A.4) or SM-DS (annex A.5).

Product type		SAS requirement	Compliance
	Scheme	Required Scope	requirement
eUICC	SAS-UP	<ul> <li>Management of PKI certificates</li> <li>Generation of data for personalisation</li> <li>Personalisation</li> </ul>	Provisional or Full certification
SM-DP+	SAS-SM	<ul><li>Data centre operations &amp; management</li><li>Data Preparation +</li></ul>	Provisional or Full certification
SM-DS	SAS-SM	<ul><li>Data centre operations &amp; management</li><li>Discovery Service</li></ul>	Provisional or Full certification

#### Table 2: Operational Security Compliance requirements per product type

#### 4.1.1 Lapse of Compliance

In case of any lapses of RSP compliance as a consequence of a lapse in any individual SAS-UP or SAS-SM certification at eUICC production sites, SM-DP+ or SM-DS services sites used in GSMA eSIM, the following provisions SHALL apply:

- 1. The GSMA RSP Compliance Team SHALL notify the above loss of SAS certification to all the stakeholders using the listed sites in their eSIM Product declarations (see. Annexes A.3, A.4 and A.5).
- 2. If all the SAS certifications used by a declared eSIM Product lapse, the GSMA RSP Compliance Team SHALL notify this loss of compliance to relevant stakeholders (primarily participants in the eSIM PKI ecosystem) via the GSMA RSP compliance

products database, and via other GSMA communications (e.g. relevant GSMA mailing lists, newsletters, meetings) considered appropriate to inform those stakeholders.

Following a restoration of any individual SAS-UP or SAS-SM certification after a lapse, it will normally be sufficient for a site to submit a valid SAS-UP or SAS-SM certificate to the GSMA RSP Compliance Team in order to regain RSP compliant status. Resubmission of other declaration templates required by this PRD to gain initial RSP compliance is normally not needed unless the information in those declarations has changed.

## 4.1.2 Specific Considerations for eUICC

All SAS-UP scope requirements must be fulfilled; either at the same production site or at multiple production sites, according to the SAS accredited production arrangements for the eUICC.

- Details of all manufacturing sites used in the production of the eUICC shall be provided in its Annex A.3 declaration, clearly identifying the SAS scope for each site,
- All three SAS scope requirements shall be covered by the eUICC production site(s),
- The organisation and site intending to apply for the Digital (PKI) Certificate from the GSMA Root CI shall:
  - be named on the Annex A.1 declaration for the eUICC
  - have Management of PKI Certificates within its SAS-UP accreditation scope

## 4.2 **Product Security Requirements (eUICCs only)**

A protection profile has been developed for eUICC software implementing the GSMA eSIM architecture for Consumer Devices. The protection profile is published as GSMA PRD SGP.25 [4], and registered as a Protection Profile by BSI, reference BSI-CC-PP-0100.

eUICC security evaluations are expected to include:

- the complete Target of Evaluation defined in SGP.25 [4]
- the secure IC platform and OS
- the runtime environment (for example Java Card system)

The IC/hardware platform on which the eUICC is based shall be certified to either PP-0084 or PP-0035

The Common Criteria certificates or certificate references

(<u>www.commoncriteriaportal.org/products</u>) shall be included in the declaration as evidence of product security compliance.

Product type	Product Security Requirement	Compliance requirement
Discrete eUICC	Security IC Platform Protection Profile with Augmentation Package Certification (PP-0084) or	Common Criteria certified and listed, or scan of certificate attached.

Security IC Platform Protection Profile, Version 1.0 (PP-0035)	
Security evaluation reflecting the security objectives defined in SGP.25 [4], with resistance against high level attack potential. See Annex A.3 for permitted methodologies.	Refer to Annex A.3, section A.3.4.2
Testing to be performed at a SOG-IS lab, accredited in the Smartcards & similar devices technical domain.	

## Table 3: Product Security Compliance requirements for Discrete eUICC

A Field-Test eUICCs SHALL use a certified IC platform according to table 4:

Product type	Product Security Requirement	Compliance requirement
Discrete Field- Test eUICC	or and the second se	Common Criteria certified and listed
Integrated Field- Test eUICC	Integrated TRE certified following SGP.08 [14] methodology or SGP.18[17] methodology Note: the applicability period of SGP.08 [14] and SGP.18[17] are defined in Annex C.	Certification Report

#### Table 4: Secure IC Platform requirements for Field-Test eUICC

Product type	Product Security Requirement	Compliance requirement
	Integrated TRE certified following SGP.08 [14] methodology or SGP.18[17] methodology Note: the applicability period of SGP.08 [14] and SGP.18[17] are defined in Annex C.	Certification Report
	, , ,	Refer to Annex A.3, section A.3.4.2

#### Table 5: Product Security Compliance requirements for Integrated eUICC

#### 4.2.1 Lapse of Compliance

In case of any lapses of RSP compliance as a consequence of a lapse in any individual SAS-UP or SAS-SM certification at eUICC production sites, SM-DP+ or SM-DS services sites used in GSMA eSIM, the following provisions SHALL apply:

- 1. The GSMA RSP Compliance Team SHALL notify the above loss of SAS certification to all the stakeholders using the listed sites in their eSIM Product declarations (see. Annexes A.3, A.4 and A.5).
- 2. If all the SAS certifications used by a declared eSIM Product lapse, the GSMA RSP Compliance Team SHALL highlight this loss of compliance to relevant stakeholders (primarily participants in the eSIM PKI ecosystem) via the GSMA RSP compliance products database, and via other GSMA communications (e.g. relevant GSMA mailing lists, newsletters, meetings) considered appropriate to inform those stakeholders.

Following a restoration of any individual SAS-UP or SAS-SM certification after a lapse, it will normally be sufficient for a site to submit a valid SAS-UP or SAS-SM certificate to the GSMA RSP Compliance Team in order to regain RSP compliant status. Resubmission of other declaration templates required by this PRD to gain initial RSP compliance is normally not needed unless the information in those declarations has changed.

#### 4.2.2 Security Recertification

For eUICC, the impact of the change(s) on the current security certification SHALL be evaluated as per the eSA or CC processes, when product maintenance is performed. An assessment of the eUICC operating system changes would be required to determine if a further security certification is required and eventually its type, e.g. a delta certification, full certification etc.

#### 4.3 Functional Compliance Requirements

Functional compliance is a requirement for all eSIM Products to assure correct operation. The eSIM Test Specification, SGP.23 [3], provides details of all applicable interface and procedural testing.

Each test in SGP.23 [3] can be mapped to a specific set of requirements in the eSIM Technical Specification, SGP.22 [2].

To demonstrate product functional compliance to SGP.22 [2], an eSIM Product shall successfully pass all tests applicable to its supported eSIM capability. The permitted, product dependent, test methodologies are:

- Functional testing via industry partner certification schemes (for eUICC and Devices),
- Functional testing via vendor implemented test methodologies referencing SGP.23 [3] tests (for SM-DP+ and SM-DS).

## 4.3.1 Functional Compliance via Industry Partner Certification Schemes

eSIM Compliance test programmes have been established by industry certification schemes GlobalPlatform, GCF and PTCRB. These provide the required means of test for eUICCs and Devices, referencing the SGP.23 [3] test requirements.

eUICC (annex A.3) and devices (annex A.2) are judged to have met the eSIM functional compliance requirement for a named product if they have a valid, product specific, certification reference from either Global Platform, GCF or PTCRB.

Product	Product Functional test organisation Compliance requirement (see Annex C for details)		Link to industry certification scheme
	GCF	GCF Certification including eSIM	GCF
Device		GCF eSIM Standalone certification	GCF
	PTCRB	PTCRB Certification including eSIM	PTCRB
eUICC	GlobalPlatform,	GP Product Functional Certification to: (1) GSMA eUICC Consumer functional test suite (2) TCA Interoperable Profile' test suite (eUICC Profile Package [14])	<u>GlobalPlatform</u>

Table 6: Functional compliance via GSMA industry certification scheme partners

## 4.3.2 Functional Compliance via Vendor Defined Test Plan

Permitted for Subscription Management products (SM-DP+ and SM-DS). The vendor specified test plans SHALL reference all SM-DP+/SM-DS tests from the eSIM test specification, SGP.23 [3]. Annex A.4 and Annex A.5 provide further details.

Product type	Vendor specified test plan permitted	Reference
SM-DP+	Yes	SGP.23 [3]
SM-DS	Yes	SGP.23 [3]

#### Table 7: Functional compliance via Vendor defined test plan

# 5 eSIM Digital Certificates (PKI)

GSMA eSIM uses a Public Key Infrastructure (PKI) Digital Certificate to authenticate the following eSIM system entities that have been confirmed as SGP.24 compliant:

- eUICC
- SM-DP+
- SM-DS

The Public Key Infrastructure (PKI) Digital Certificate of GSMA eSIM may also be used for a Field-Test eUICC which is considered as SGP.24 compliant for the purpose of certificate use if it is operated according to the requirements set for Field-Test eUICCs in SGP.21 [1] (version 2.4 or higher) and SGP.22 [2] (version 2.4 or higher).

Digital Certificates are issued and managed in accordance with GSMA's PKI Certificate Policy, SGP.14 [9]. Digital Certificate issuance to SGP.24 compliant product is operated on a commercial basis by GSMA appointed Root CIs.

## 5.1 Specific Considerations for eUICC Certificates

The manufacturer of an SGP.24 compliant eUICC is eligible to request *an EUM Certification Authority Certificate* from the GSMA CI. The issued EUM CA certificate can be used by the eUICC manufacturer to generate eUICC certificates, as needed.

An issued EUM (PKI) Certificate for the initially declared eUICC product is also allowed to be used with additional eUICC product(s). The following provisions apply:

- A new SGP.24 declaration SHALL be submitted for each additional eUICC product intending to re-use an existing EUM CA certificate,
- The additional product reusing an existing EUM CA Certificate SHALL:
  - Have its own evidence of GlobalPlatform Product Functional Certification,
  - Have its own evidence of security evaluation using a GSMA approved methodology valid at the time of declaration (as identified in SGP.24 Annex C),
  - Be manufactured at a SAS accredited site.

Different EUM CA Certificates MAY be requested for the same eUICC product. A new/updated SGP.24 declaration shall be submitted for any change of SAS site(s) intended to be used to manufacture of a declared eUICC product.

An issued EUM (PKI) certificate for the initially declared eUICC product is also allowed to be used with additional Field-Test eUICC product(s). In this case the provisions set in SGP.21 [1] (version 2.4 or higher) and SGP.22 [2] (version 2.4 or higher) for Field-Test eUICC product(s) apply instead of the requirements for functional compliance and security evaluation. The SAS requirements for handling the PKI certificates and credentials apply in any case. The Field-Test eUICC SHALL use a certified hardware according to section 4.2 of this document.

# Annex A Declaration Templates

An eSIM Product declaration consists of Annex A.1 plus either Annex A.2, A.3, A.4 or A.5, according to the product type. Refer to the SGP.24 zip file for the following Annex A templates:

- A.1 eSIM Product Declaration
- A.2 Details of Declared Device
- A.3 Details of Declared eUICC
- A.4 Details of Declared SM-DP+
- A.5 Details of Declared SM-DS
- A.9 Details of Self-Assessment of eUICC Certified products updates declaration

## Annex B VOID

## Annex C eSIM Certification Applicability (Normative)

This Annex identifies the current requirements and specification versions for Consumer eSIM compliance declarations, and includes:

- Security requirements,
- Functional requirements, including means of test.
- Currently recognised exemptions from compliance.

Organisations either planning SGP.24 compliance activities, or interested in the current status of compliance requirements are recommended to reference this table when planning product compliance.

## Table C.1 eSIM Certification Applicability

	Reference	Version	Applicability	Current status for compliance	Active from	Expiry Date	Notes
	<b>GSMA PRD SGP.23-1</b> eUICC Test Specification	V3.X	eUICC	Active	Refer to:		
H H	GSMA PRD SGP.23-2	V3.X	LPA	Active	https://www.gsma specification/	a.com/esim/esim-	
ö	<b>GSMA PRD SGP.23-3</b> Server Test Specification	V3.X	Server	Active			
	GSMA PRD SGP.22	3.0	All eSIM product	Active	2022-10-19		
		3.1	All eSIM product	Active	2023-12-01		

eSIM Core Specification: Technical				
	3.0	All eSIM product	Active	2022-03-28
eSIM Core Specification: Architecture	3.1	All eSIM product	Active	2023-12-01
BSI-CC-PP-0084-2014				
Security IC Platform Protection Profile with Augmentation Packages Certification (PP-0084)	1.0	eUICC	Active	2017-10-16
BSI-CC-PP-0035-2007				
Security IC Platform Protection Profile (PP- 0035)	1.0	eUICC		
Security IC Platform Protection Profile (PP- 0035) GSMA PRD SGP.25 Embedded UICC for Consumer Devices	1.0	eUICC	Active Ref Annex A.3.4.2(b) Option 1	2019-11-15
Protection Profile	2.0	Consumer and IoT eUICC	Active	2023-12-19
<b>GSMA PRD SGP.06</b> eUICC	1.0	eUICC	Active	2020-07-07
Security Assurance Principles	2.0	Consumer and IoT eUICC	Active	2023-12-19
GSMA PRD SGP.07	1.0	eUICC	Active	2020-07-07

#### GSM Association SGP.24 RSP Compliance Process

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	eUICC Security Assurance Methodology	20	Consumer and IoT eUICC	Active	2023-12-19	
	SAS for LUCC	Refer to: GSMA.com/SAS for details	eUICC	Active	Refer to GSMA.com/SAS	
		Refer to: GSMA.com/SAS for details	SM-DP+/SM-DS	Active	Refer to GSMA.com/SAS	
	GSMA PRD SGP.08	1.1	Integrated eUICC	Expired	2021-06-30	
	Security Evaluation of Integrated eUICC	1.2	Integrated eUICC	Active	2022- 09-19	
	<b>GSMA PRD SGP.18</b> Security Evaluation of Integrated eUICC based on PP-0117	1.0	Integrated eUICC	Active	2022-09-19	
	Vendor specified RSP		SM-DP+	Active	SGP.24v1.0	
	Functional test	n/a	SM-DS	Active	SGP.24v1.0	
nce	GCF: GCF-CC			Active	SGP.24v2.0	
မိ	GCF RSP	Refer to GCF for applicable version(s)	Device	Active	SGP.24v3.1	
0		Refer to GP for applicable version(s)	eUICC	Active	SGP.24v2.0	All TCA eUICC Profile Package versions declared in Annex A.3.2 must be covered by the product functional compliance test.

	eUICC Consumer v2.1 and v2.2 (SGP.22 Spec.)				
	GP Test Suites: - eUICC Consumer SGP.23 Compliance Test Suite (eUICC Consumer SGP.23 Test Spec)				
	- eUICC Consumer - SIMalliance Interoperable Profile Test Suite (TCA Test Spec)				
Permitted	Permitted Exceptions agreed for SGP.24 declarations	no agreed exceptions in this version of t	SGP.24		

Status for Compliance	Description
	Specification or reference that is currently valid for SGP.24 declarations. Where multiple versions of the same specification or reference are active, the certifier shall identify which version has been used.

#### GSM Association SGP.24 RSP Compliance Process

Non-confidential

Planned:	Specification or reference that is under development.
Expired:	Specification or reference that is no longer valid for SGP.24 declarations.
Deprecated:	Specification or reference for which an expiry date has been stated, and will no longer be recognized for GSMA eSIM compliance after the expiry date.
Permitted:	Permitted as an alternative to a mandatory requirement until the indicated expiry date.
Active from:	The start date from when a specification or reference can be used for SGP.24 declaration.
Expiry date:	The last date on which an SGP.24 declaration can reference the specification or reference. Declarations using an expired specification or reference will not be accepted.

Update requests for this annex, including new requirements, transition timing to new requirements, and expiry dates for deprecated requirements, are via the GSMA CR process. Approved CRs will be reflected in an updated version of this document.

For further details, contact: <u>RSPcompliance@gsma.com</u>.

# Annex D Document Management

# D.1 Document History

Version	Date	Brief Description of Change	Approval Authority	Editor / Company
V1.0	6 <sup>th</sup> Feb 2017	Initial version of SGP.24 V1.0 eSIM Compliance Products	RSPLEN/PSMC	Gloria Trujillo, GSMA
V1.1	30 <sup>th</sup> May 2017	Minor revision to SGP.24 V1.1 ESIM Compliance Products	RSPLEN	Gloria Trujillo, GSMA
V2.0	15 <sup>th</sup> Feb 2018	Introduction of functional testing via industry certification schemes. Addition of IC based PP for eUICC (PP-0084) as an interim PP (hardware only) whilst the SGP.25 PP is under development. Addition of an eSIM Certification Applicability table as the means to manage compliance requirements and spec dependencies. Restructure of document to be requirements centric.	RSPLEN	Valerie Townsend, GSMA
V2.1	7 <sup>th</sup> Dec 2018	Field Test eUICC and other needed changesField Test eUICC and other needed changes	RSPLEN	Valerie Townsend, GSMA
V2.2	29 <sup>th</sup> May 2019	Updated to include the following CRs: RSPCERT39 Doc 7r1: Section 5: align with SAS on PKI reuse RSPCERT39 Doc 8r1: Section 3.1 added on compliance maintenance. RSPCERT39 Doc 13r0: Annex C updated RSPCERT42 Doc 7r0: Section 4.2 and A.3 on security assurance (interim methodology) RSPCERT42 Doc 6r1: Annex C update to security assurance RSPCERT42 Doc19r2: editorials RSPCERT43 Doc 8r2: editorials	eSIM Group	Valerie Townsend, GSMA

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		RSPCERT43bis Doc 3r1:updates following working group review.		
		eSIMWG4#1 Doc 018: updates to Section 3.1 and A.3.4.2 (option 2)		
V2.3		CR001R002 Addition of eUICC Assurance Scheme Annex A.3 CR004R005 Annex A.4 - Details of SGP.23 testing related to Application Note Issues and check box for revised declaration CR006R001 SGP.24 Introduce GSMA eSA CR007R001 Changes in Annex C	eSIM Group	Gloria Trujillo, GSMA
V2.4	30 June 2021	CR0009R01 Clarification of the SGP.22 V2.2 eSIM Application Note CR0012R01 eUICC Statement of Security Evaluation Completion validity five years CR0013R01 Deadline to commence interim solution evaluations CR0014R01 Add of Integrated eUICC CR0015R00 Evaluation project start and finalisation CR0016R00 Optional SetEditDefaultDpAddr and SetEditNickname CR0017R00 Optional support of downloading PPR to removable eUICC CR0018R02 Change SIMalliance to TCA in SGP.24 CR0019R01 Change SIMalliance to TCA in SGP.24 Annex A.3 CR0020R00 - Fix in Annex C CR0021R02 eUICC Supporting multiple TCA ePP specs	ISAG	Gloria Trujillo, GSMA
V2.4.1	16 <sup>th</sup> December 2021	CR0025R01 - NFC compliance CR0026R00 - Editorial change section 4.2 table 4 CR0027R01 - Alignment of Table C2 with chapter 3.1 CR0029R00 - Removing self-reference in Table C1 CR0023R02 – Interim Security Certification Extension	ISAG	Gloria Trujillo, GSMA
V2.4.2	28th January 2022	CR0034R01 - Add Consumer v2.4 to Annex C	ISAG	Gloria Trujillo, GSMA

		CR0028R04 - Enable field test eUICC and add Consumer v2.4 to Annex C		
V2.4.3	19 <sup>th</sup> May 2022	CR0033R02 – Add flexibility on EUM PK Certificate use CR0032R03 – Lapses in Compliance	ISAG	Gloria Trujillo, GSMA
V2.4.4	8 <sup>th</sup> August 2022	CR0057R02 – Bug fixing related to contradictory dates CR0060R01 – SAS-UP subsequent update v2.4.4 CR0062R01 – SAS-SM subsequent update v2.4.4 - SM-DP+ CR0064R01 – SAS-SM subsequent update v2.4.4 - SM-DS CR0065R02 - Removal of interim methodology in Annex A.3 CR0068R01 - eUICC Category Note V2.4.4 CR0069R00 - Annex A.1, add linkage to other SGP.24 annexes CR0070R00 - Update SGP.08 reference	ISAG	Gloria Trujillo, GSMA
V2.5	28 <sup>th</sup> March 2023	CR0074R01 - Remove application note from Core Spec CR0075R00 - Remove application note from Annex A.4 CR0077R01 - Add reference to SGP.09 CR0079R01 - Add SGP.09 in Annex A.3 CR0080R02 - Add SGP.18 V1.0 reference CR0081R02 - Add SGP.18 V1.0 in Annex A.3 CR0089R01 - Add SGP.21 V2.5 reference CR0084R04 - Fast Track for updated compliance declarations of Euicc CR0085R02 - Add certification expiration CR0091R01 - Product declaration type definiton	ISAG	Gloria Trujillo, GSMA
3.0	1 <sup>st</sup> December 2023	CR0035R01 - Addition of V3.0 optional features into Annex A.2 CR0036R01 - Addition of V3.0 optional features into Annex A.3 CR0037R01 - Addition of V3.0 optional features into Annex A.4	ISAG	Gloria Trujillo, GSMA

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	CR0038R01 - Addition of V3.0 optional	
	features into Annex A.5	
	CR0039R01 - Annex A.5 alignment	
	with Annex A.4	
	CR0040R00 - Annex A.4 alignment	
	with Annex A.5 for functional testing	
	CR0041R00 - Modify Certificate	
	Revocation Management from optional	
	to conditional into Annex	
	A.3CR0042R00 - Modify Certificate	
	Revocation Management from optional	
	to conditional into Annex A.4	
	CR0043R00 - Modify Certificate	
	Revocation Management from optional	
	to conditional into Annex A.5	
	CR0044R00 - Remove Certificate	
	Revocation Management from optional	
	feature in Annex A.2	
	CR0045R01 - Covering the PKI	
	infrastructure defined in SGP.22 v3.0 -	
	Annex A.1	
	CR0046R01 - Covering the PKI	
	infrastructure defined in SGP.22 v3.0 -	
	Annex A.3	
	CR0047R01 - Lapse in Compliance	
	CR0048R01 - Covering the PKI	
	infrastructure defined in SGP.22 v3.0 -	
	Annex A.4	
	CR0049R01 - Covering the PKI	
	infrastructure defined in SGP.22 v3.0 -	
	Annex A.5	
	CR0050R01 – AnnexA.4	
	CR0051R01 – AnnexA.5	
	CR0052R01 - Annex A.1, add linkage	
	to other SGP.24 annexes	
	CR0056R00 - SM-DS Additional	
	Optional items and features	
	CR0053R01 - eUICC Additional	
	Optional items and features	
	CR0054R01 - SM-DP+ Additional	
	Optional items and features	
	CR0055R01 - Device Additional	
	Optional items and features	
	CR0058R01 - Avoid redundancy on	
	dates	
	CR0059R01 - SAS-UP subsequent	
	update v3.0	
	-	
	CR0061R01 – SAS-SM subsequent	
	update v3.0 SM-DP+	

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CR0063R01 - SAS-SM subsequent		
update v3.0 SM-DS		
CR0066R02 - Removal of interim		
methodology in Annex A.3		
CR0067R01 - eUICC Category Note V3.0		
CR0071R01 – Update Applicability table with SGP.21 V3.0		
CR0072R01 – Remove application note from Core Spec		
CR0073R01 - Remove application note from Annex A.4		
CR0076R01 – Add reference to		
SGP.09		
CR0078R01 - Add SGP.09 in Annex		
A.3		
CR0082R02 - Add SGP.18 V1.0		
reference		
CR0083R02 - Add SGP.18 V1.0 in		
Annex A.3		
CR0088R01 - Add SGP.21 v2.5 and		
SGP.21 and SGP.22 V3.0 references		
CR0091R01 – Product declaration type		
definiton		
CR0092R01 - Add certification		
expiration		
CR0093R00 - Remove Term		
Infocentre2 from Annex A.2		
CR0094R00 – Remove Term		
Infocentre2 from Annex A.4		
CR0095R00 – Remove Term		
Infocentre2 from Annex A.5		
CR0096R01 - Remove Term		
Infocentre2 from SGP.24 Core Spec		
CR0097R01 - Fast-track for updated		
compliance declarations of Euicc		
CR0111R01 - GlobalPlatform		
Terminology Changes		
CR0112R01 - Applicability Table		
Changes CR0113R01 - Product Variant		
clarifications on Core Spec		
CR0120R01 - Annex A.1 GSMA		
Database Visibility		
CR0121R01 - SGP.XX V3.1 reference		
in Applicability Table		

SGP.24 V3.1	22 March 2024	CR0122R03 - Compliance Maintenance Clarification v3.1 CR0123R04 - Product declaration type changes alignement with compliance maintenance CR0126R02 - Delete all V2.X references from Applicability Table CR0131R01 - New Annex A.6 – Self- Assessment CR0135R01 - Add new SGP.25, SGP.06 and SGP.07 V2.0 CR0137R00 - Change title to Fast Track Update CR0133R03 - Security Recertification v3 CR0140R00 - Removal of Product declaration table from Annex A.3 CR0141R01 - Changes in Annex A.1 for aligment with SGP.24 V2.6 CR0143R02 - Changes on Product declaration Type in SGP.24 V3.1 core specification CR0145R00 - Applicability Table Changes in SGP.24 V3.1 CR0149R00 - Clarifying Root SM-DS in SGP.24 v3.1	ISAG	Gloria Trujillo, GSMA
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#### D.2 Other Information

Туре	Description
Document Owner	Gloria Trujillo
Editor / Company	GSMA

It is our intention to provide a quality product for your use. If you find any errors or omissions, please contact us with your comments. You may notify us at <a href="mailto:prd@gsma.com">prd@gsma.com</a>

Your comments, suggestions or questions are always welcome.