

SAS for UICC Production (SAS-UP) Scope Definitions Version 1.0 5 September 2018

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1 Introduction

1.1 Overview

This document provides definitions of each of the following areas of scope in which a site participating in SAS for UICC Production (SAS-UP) may gain accreditation.

- Generation of data for personalisation;
- Personalisation;
- · Management of PKI certificates, and
- Post-personalisation packaging.

1.2 Abbreviations

Term	Description
2FF	2 nd Form Factor ("Mini SIM")
3FF	3 rd Form Factor ("Micro SIM")
4FF	4 th Form Factor ("Nano SIM")
ECASD	Embedded UICC Controlling Authority Security Domain
eUICC	Embedded Universal Integrated Circuit Card
GSMA	GSM Association
ISD-R	Issuer Security Domain - Root
M2M	Machine-to-Machine
MFF	Machine to Machine Form Factor
OEM	Original Equipment Manufacturer
PKI	Public Key Infrastructure
RSP	Remote SIM Provisioning
SD (Card)	Secure Digital (Card)
UICC	Universal Integrated Circuit Card
VQFN	Very-Thin Quad Flat-Pack, No-Leads
WLCSP	Wafer-Level Chip Scale Package

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2 Generation of data for personalisation

Definition	Scop	Scope Options		
Definition	UICC	eUICC		
Generation of personalisation data refers to the generation of any data that is to be encoded into a device intended to act as a UICC/eUICC to make it uniquely identifiable. This data may be:				
 Unique security keys that control future access to the device; An Embedded UICC Controlling Authority Security Domain (ECASD) and Issuer Security Domain - Root (ISD-R), and/or 	Generates data for conventional UICCs only. Will typically process customer-generated input files to produce personalisation data and customer response data.	Generates data for eUICCs, including the generation of individual eUICC certificates and data files for subscription management.		
MNO profile data.				
The generated data may be used to personalise UICCs at the certified site, or at another site.				

3 Personalisation

Definition	Scope Options		
Definition	Card	Embedded	Wafer
Personalisation is the process of encoding each device intended to act as a UICC/eUICC with the information (personalisation data) generated during the data generation process. The table indicates the form factor(s) of the devices that are personalised. Personalisation may be carried out using data generated at the certified site, or at another site.	Personalises card form-factor UICCs/eUICCs. Typically includes standard ID1/2FF/3FF/4FF cards/plug-ins/repluggable form-factors designed to be user-removable, but can be extended to non-standard user-removable form-factors	Personalises embedded form factor UICCs/eUICCs. Typically includes MFF2/VQFN8 silicon packages and similar small-form factors designed to be solder- or socket-mounted directly onto circuit boards	Personalises UICCs/eUICCs in parallel at wafer level, normally as part of wafer testing. Dies from personalised wafers will typically be used to produce WLCSP packages that can be directly mounted onto circuit boards.

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Definition	Scope Options		
Definition	Card	Embedded	Wafer
	such as SD cards.personalisation data and customer response data.	and are not designed to be user-removable.	

4 Management of PKI certificates

Definition	Scope Options	
Definition	GSMA PKI	
Management of PKI certificates is the process of:		
 Securely generating a key pair and certificate signing request and submitting this to a recognised certificate authority / issuer. 		
 Securely storing the key pair and certificate and making them available under appropriate control for the generation of eUICC certificates. 	Has appropriate controls in place for issue of certificate(s) as part of the GSMA PKI from one of the Association's certificate issuers. Where the key pair and certificate are used by a site SAS-UP certified for "Generation of data for personalisation / eUICC" then the resulting eUICC certificates will be accepted as part of the GSMA's PKI for M2M/RSP as appropriate.	
The scope statement refers only to the management of the key pair and certificate; the		
process of generating individual eUICC device certificates is included within the scope of "Generation of data for personalisation / eUICC".		

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5 Post-personalisation packaging

Definition	Scope Options ¹		
Definition	Card	Wafer	
Post-personalisation packaging is the process of performing some value-added operation on personalised UICC/eUICC.	Machine wrapping or manual processing of personalised UICCs into retail or customer packages. May include standard or customer-specific wrapping or packaging design. Certified sites will have demonstrated appropriate controls for end-to-end asset management and reconciliation.	Processing of personalised wafers into individual dies and packaging into reel-tape or other medium for delivery to the customer or OEM integrator. May include additional processing steps for each wafer. Will include identification and separation of good and bad UICCs from the wafer, with a responsibility to reconcile and report on good UICCs included within the output medium.	

These are current definitions and applicable scopes. Definitions will be updated and scopes extended as appropriate.

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¹ "Embedded" is not included as a scope option, as post-personalisation packaging of embedded form-factor UICCs does not normally occur as a separate production activity.

Annex A Document Management

A.1 Document History

Version	Date	Brief Description of Change	Approval Authority	Editor / Company
1.0	5 Sep 2018	First version	GSMA SAS subgroup	James Messham, FML

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