

# **Standard Operating Procedure for eUICC Consumer Profile Validation procedure**

## Version Control

Document Name	Version	Date
SOP eUICC Consumer Profile Validation procedure	V1.2	26-May-2022

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## Revision History

Issue	Date	Reason for change
1	20-June-2020	First issue
1.1	03-Mar-2022	Name changes (SIMAlliance to TCA, Arm to Kigen), TCA eUICC Technical Specification Package references.

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## Introduction

This document defines the standard process of validating a Consumer eUICC ASN.1 profile.

Pre-requisite:

- Profile Validation Inputs –
  - Profile setup and provisioning output, including
    - LPA String/QR codes for test profiles provisioned
  - Technical specification along with Metadata details – signed by customer
  - Developer notes for validation
  - Internal acceptance test document
  - BAP Validation checklist for profile
- Tools/Cards/Platforms –
  - Tools application for SOP BAP UICC Validation Procedure
  - UL Mobile Card Profile Tester
  - NXP Samples Test Suite
  - Kigen eUICC OS / Sample
  - SDMS
  - eSIM handsets
  - Kigen Consumer eUICC removable card with Live Certificate
  - eSIM.me live consumer eUICC card

## Roles and Responsibilities

### Technical Consultant/Developer:

Please ensure below points should be covered before delivering fully developed profile package for validation:

**SOP Reference: SOP\_eUICC\_Consumer\_Profile\_Development\_v1.0**

- To ensure that eUICC technical specification requirements are duly signed off by customer
- ASN.1 profile is duly tested using dedicated unit testing tools/options (refer SOP eUICC development)
- Developer notes are added with details for required support for profile validation by validation engineer

### Technical Engineer/Deployment:

Please ensure below points should be covered before delivering duly provisioned eSIM profiles after profile type setup and provisioning steps:

**SOP Reference: SOP\_eUICC\_Consumer\_Profile\_Type\_Setup\_v1.0**

- To ensure profile type setup procedure outlined in this document is followed
- To ensure profile provisioning procedure outlined in this document is followed

### Technical Engineer/Validation:

Please ensure below points should be covered for the profiles received for testing after the profile type setup and provisioning steps completed by Deployment Engineer

- To ensure profile management tests and profile validation tests have been completed according to customer eSIM technical specification and

## Procedure

### eUICC Profile Validation , Functional and Device Testing

- Validation team performs the testing from the platform on a live card and devices present in Workz Test devices repository.
- Functional profile tests [File system verification, PIN/PUK/ADM verification, authentication tests, OTA – RFM and RAM, STK (if present), applet testing (if present)] needs to be conducted in accordance with SOP BAP UICC validation document for Profile validation.
- The results are recorded in “TSS\_BAP\_Checklist\_&\_Validation\_Report\_v1.8”, “Workz\_eSIM\_Handset\_Test\_Reports\_Customer\_name\_v1.2” and “Consumer RSP SM-DP+ eSIM Platform UAT v1.1” documents.
- “Consumer RSP SM-DP+ eSIM Platform UAT v1.1” and “Summary\_Validation\_checklist” documents are sent for internal sign-off to TSS Manager.
- Once signed, the validator to place the documents in “03\_Validation→ 06\_Docs\_for\_Internal\_Sign-Off” folder.
- After completing above steps, the process is handed over to deployment team.

### eSIM BAP Profiles Release – done by Deployment team

- Deployment team provisions all the profiles received from PDM team in BAP generated data file in the platform.
- As part of deliverables, the customer is provided “QRcodes (in pdf and/or csv file)”, “BAP Approval Form”, “UAT document” and “Profile\_Technical\_Specification\_document”.

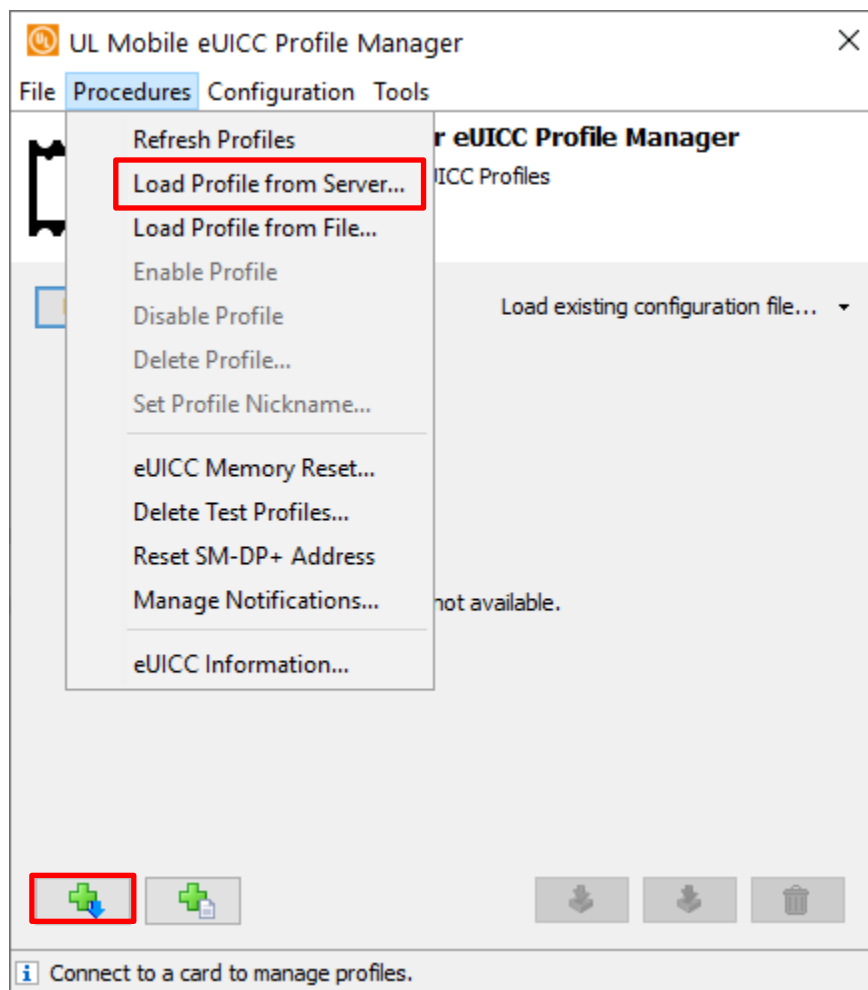
### Installation on Live GSMA based consumer eUICC card from SM-DP+ platform

#### Pre-requisites: Removable Consumer eUICC Cards with Live GSMA Certificate

The UL Mobile Card Tester Platform allows us to load eSIM profiles directly from Live SM\_DP+ platform to live GSMA based consumer eUICC card using “**Manage Consumer eUICC Profiles**” component.

This feature is available at the “Procedures > Load Profile from Server” menu or using the quick access menu as in the image below.

Please refer “SOP Consumer eUICC functional Test using UL Tool” for detailed information.



### eSIM profile validation (using profile downloaded on removable eUICC card – Kigen OS)

The tests on the loaded profile will be validated based on the “SOP\_BAP cards validation\_v2.01”.

Checklist to be populated: TSS\_BAP\_Checklist\_& Validation\_Report\_v1.8



TSS\_BAP\_Checklist\_  
& Validation\_Report

### Live Handset tests (using profile downloaded on removable eUICC card)

Checklist to be populated: **Workz\_SIM\_Handset\_Test\_Reports\_Customer\_name\_v1.2**

eSIM capable handset/device list: Refer test device inventory file



Workz\_eSIM\_Handset\_Test\_Reports\_Customer\_name\_v1.2

### Platform UAT (Internal) tests – Part#1 (using profile downloaded on removable eUICC card)

The profile provisioned will be tested on live devices with eSIM capability. **These tests will be based on “Consumer RSP SM-DP+ eSIM Profile UAT v1.1.docx”**

### Platform UAT (Internal) tests – Part#2 (using NXP sample kit)

Please refer following SOP videos for 1) setting up NXP eUICC Kit , 2) Connecting with UL CPT tool & Performing Profile Management Tests.

<https://workz1.sharepoint.com/:v:/r/sites/ITS-ProcessImprovementInitiatives/Shared%20Documents/Process%20Improvement%20Initiatives/SOP/Release/SOP%20-%20eUICC%20Consumer%20Profile%20Validation%20process/SOP%20NXP%20eUICC%20Kit/1.Setting%20up%20NXP%20eUICC%20Kit.mp4?csf=1&web=1&e=uzEZ7I>

<https://workz1.sharepoint.com/:v:/r/sites/ITS-ProcessImprovementInitiatives/Shared%20Documents/Process%20Improvement%20Initiatives/SOP/Release/SOP%20-%20eUICC%20Consumer%20Profile%20Validation%20process/SOP%20NXP%20eUICC%20Kit/1.Setting%20up%20NXP%20eUICC%20Kit.mp4?csf=1&web=1&e=S3Ra2T>



1.Setting up NXP eUICC Kit.mp4



2. Connecting with UL CPT & Performing

The profile provisioned will be tested on live NXP eUICC kit with eSIM capability. **These tests will be based on “Consumer RSP SM-DP+ eSIM Profile UAT v1.1.docx”**

### Platform UAT (Internal) tests – Part#3 (using eSIM.me removable eUICC samples)

The profile provisioned will be tested on live eSIM.me removable eUICC with eSIM capability. **These tests will be based on “Consumer RSP SM-DP+ eSIM Profile UAT v1.1.docx”**



Consumer RSP  
SM-DP+ eSIM Platfo

## Summary Validation Checklist File



eUICC Profile  
Validation Summary



<b>TITLE</b>	SOP_Consumer_eUICC_Profile_Validation_v1.2
<b>FILE NAME</b>	SOP_Consumer_eUIC...lvalidation_v1.2.pdf
<b>DOCUMENT ID</b>	a437c715a352b191db47425b931095adcf24f4ba
<b>AUDIT TRAIL DATE FORMAT</b>	DD / MM / YYYY
<b>STATUS</b>	● Signed

## Document history



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