

Standard Operating Procedure for eUICC M2M Profile Validation Process

Version Control

Document Name	Version	Date
M2M eUICC Profile Validation procedure	v1.1	27-07-2020

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Revision History

Issue	Date	Reason for change
1	27-07-2020	First issue
1.1	22-03-2022	Minor changes including updated version of checklist document (v1.1)

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Introduction

This document defines the standard procedure for validating eUICC M2M card.

Procedure

The eUICC M2M card developed needs to be validated against Remote Provisioning Architecture for Embedded UICC Technical Specification v3.2 or later. For card validation, eUICC Profile Editor tool needs to be used. For testing the M2M operations, UL Mobile Card tester shall be used.

M2M operations to be validated

Minimal tests to be covered (Remote Profile Management Procedures) :

- 1) Download Profile
- 2) Enable Profile
- 3) Disable Profile
- 4) Delete Profile
- 5) Change Fallback attribute of a profile

Extended tests to be covered (Remote eUICC Management Procedures):

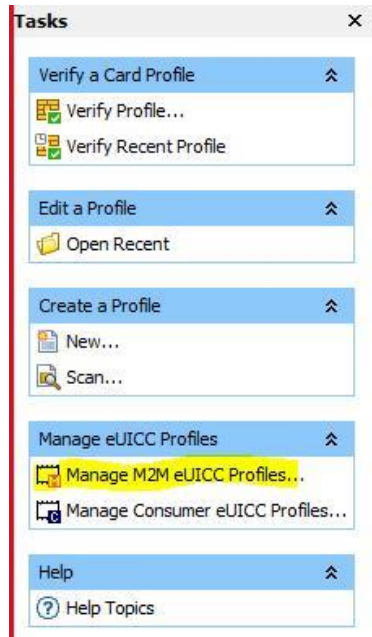
- 1) Update Connectivity Parameters
- 2) Update Policy Rules
- 3) Audit eUICC

Pre-requisite for above tests – Operational profile (ASN.1 or der) using standard eUICC template. This can be generated from eUICC Profile editor.

Details of test operations to be conducted by UL Mobile Card tester

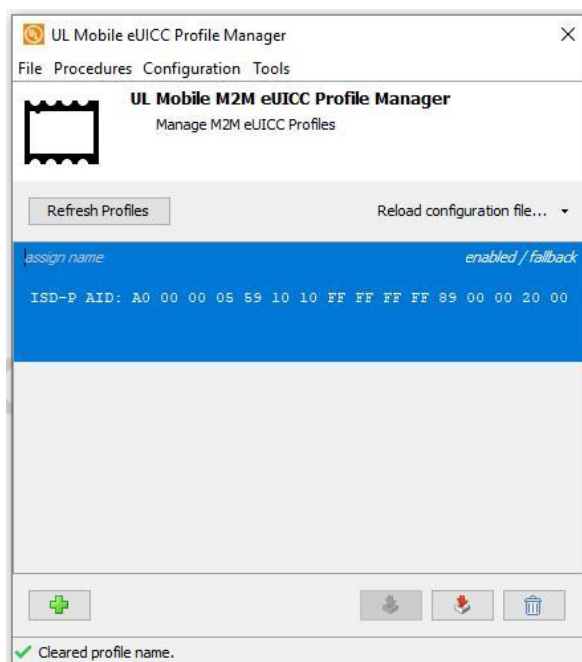
This section explains the process to conduct RSP M2M operations.

- 1) Open UL Mobile Card Profile Tester
- 2) Click on Manage M2M eUICC Profile Manager



- 3) Create new eUICC Configuration file. (Refer UL Mobile Card Profile Tester – M2M SOP for details).
- 4) Once the configuration file is prepared and selected in the tool, click on “Refresh Profiles”.

This will list the ISD-P AIDs of existing profiles on the card. Sample snapshot below:



Download Profile

- 1) Select Load Profile.
- 2) Choose the ASN.1 file for the operational profile which needs to be downloaded on the card for testing.
- 3) Click on Confirm Profile Load to continue with the operation.
- 4) Once the operation is completed, the new ISD-P AID of the operational profile will be displayed in the profile list.

(Refer UL Mobile Card Profile Tester – M2M SOP for details).

Enable Profile

- 1) Select the Operational Profile which needs to be enabled.
- 2) Click on Enable Profile.
- 3) Once the operation is completed, 'enable' status will be displayed on the operational profile.

(Refer UL Mobile Card Profile Tester – M2M SOP for details).

Disable Profile

- 1) Select the Operational Profile which needs to be disabled.
- 2) Click on Disable Profile.
- 3) Once the operation is completed, 'enable' status will be removed from the operational profile which has been disabled. 'Enable' status will be displayed on the bootstrap/fallback profile.

(Refer UL Mobile Card Profile Tester – M2M SOP for details).

Delete Profile

- 1) Select the Operational Profile which needs to be deleted.
- 2) Click on Delete Profile.
- 3) Once the operation is completed, the ISD-P of the operational profile will no longer be visible in the profiles list.

(Refer UL Mobile Card Profile Tester – M2M SOP for details).

Change Fallback attribute of a profile

- 1) Select the Profile for which fallback needs to be set as True.
- 2) Click on Set Fallback attribute.
- 3) Once the operation is completed, 'fallback' will be displayed along with the profile for which the operation has been conducted.

(Refer UL Mobile Card Profile Tester – M2M SOP for details).

Audit eUICC

- 1) Click on Audit eUICC.
- 2) The information is displayed on the screen.

(Refer UL Mobile Card Profile Tester – M2M SOP for details).

ASN.1 Validation of Operational Profile

This needs to be done if the Operational Profiles are being developed for the customer. The tool to be used for this validation will be UL Mobile Card Profile Tester.

Functionality tests to be conducted on a Bootstrap and Operational profile

Regular UICC tests need to be conducted on both bootstrap and operational profile in accordance with **SOP_BAP cards validation_v2.01**.

EIS Validation

- 1) Check the generic XML syntax/format of the XML file by opening the file in a XML viewer (ex: IE, Google Chrome, Mozilla Firefox).
- 2) Check the below values in EIS file manually (against the customer requirements):
 - a) Eum-id
 - b) Cald
 - c) Smsr-id
 - d) Mno-id of bootstrap profile
 - e) Pol2 rules of bootstrap profile
 - f) Transport key label value
 - g) Version and index of SCP80 and SCP81 keyset

Checklist for eUICC M2M Profile



M2M eUICC Profile
Validation Checklist

TITLE	SOP for eUICC M2M Profile Validation Process_v1.1
FILE NAME	SOP for eUICC M2M... Process_v1.1.pdf
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