

Device Variant Naming Requirements

Version 0.5

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# Introduction

## Overview

There are various terms used to describe device types in markets around the world. In many cases these terms are not defined in standards and consequently they may be interpreted in different ways by different parties.

This document aims to formalise the requirements that underpin such terminology so that all parties can work from a common baseline. It is also intended to serve as a reference document for other GSMA PRDs.

## Scope

This document details the requirements that underpin certain device type definitions. The definitions included here are ones that have wider applicability than a single GSMA technical specification.

## Definitions

| Term  | Description |
| --- | --- |
|  |  |

## Abbreviations

| Term  | Description |
| --- | --- |
| 3GPP | 3rd Generation Partnership Project |
| eUICC | A removable or non-removable UICC which enables the remote and/or local management of Profiles in a secure way |
| IMS | Instant Messsaging Service |
| MNO | Mobile Network Operator |
| MVNO | Mobile Virtual Network Operator |
| OEM | Original Equipment Manufacturer |
| PRD | Permanent Reference Document |
| RCS | Rich Communication Service |
| SIM | Subscriber Identity Module |
| UICC | Universal Integrated Circuit Card; the physical entity that contains as a minimum the SIM/USIM application |
| VoLTE | Voice over LTE |

## References

| Ref | Doc Number | Title |
| --- | --- | --- |
| 1.
 | RFC 2119 | “Key words for use in RFCs to Indicate Requirement Levels”, S. Bradner, March 1997. Available at <http://www.ietf.org/rfc/rfc2119.txt>  |
|  | RFC8174  | Ambiguity of Uppercase vs Lowercase in RFC 2119 Key Words |
|  | 3GPP TS22.022 | Personalisation of Mobile Equipment |

## 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 RFC 2119 [1] (RFC8174) [22] when, and only when, they appear in all capitals, as shown here.

# Device Types

## SIM Locked Device

A “SIM Locked” Device is a commercially available device that has an active SIM, network, service provider or subsidy lock. This is known as “personalised” in 3GPP terminology. These locks are technical restrictions that allow services providers to restrict the use of these phones to specific countries and/or networks, or allow end users to limit device use to a unique SIM.

|  |  |
| --- | --- |
| Requirement ID | Requirement |
| TS59\_2.1\_REQ\_1 | A SIM Locked Device SHALL have one or more active locks according to 3GPP TS22.022 (ETSI TS 122 022) [1] “Personalisation of Mobile Equipment” |
| TS59\_2.1\_REQ\_2 | A device MAY support 3GPP Personalisation according to 3GPP TS22.022 without being SIM Locked. A device is only SIM Locked when personalisation is active. |

## OEM Locked Device

A “OEM Locked” Device is a device that is locked using a method outside of 3GPP personalisation:

|  |  |
| --- | --- |
| Requirement ID | Requirement |
| TS59\_2.2\_REQ\_1 | A OEM Locked Device SHALL have limitations on1. where it can operate and/or
2. the capabilities available

These limitations SHALL be implemented by a method other than “SIM lock” as described above. |
| TS59\_2.2\_REQ\_2 | A full set of services on a OEM Locked Device SHALL be obtained when appropriate provisioning servers and profiles are in place.  |
| TS59\_2.2\_REQ\_3 | Implementation of the server/profiles in TS59\_2.2\_REQ\_2 MAY require the network operator to work directly with the device manufacturer. |

## Unlocked Device

An “Unlocked” Device is not locked as per the definition of OEM Locked Device above, nor is it a SIM Locked Device:

|  |  |
| --- | --- |
| Requirement ID | Requirement |
| TS59\_2.3\_REQ\_1 | An Unlocked Device SHALL NOT be SIM Locked |
| TS59\_2.3\_REQ\_2 | An Unlocked Device SHALL NOT be OEM Locked |
| TS59\_2.3\_REQ\_3 | An Unlocked Device MAY have hardware or software compatibility limitations (such as radio bands implemented) that prevent operation with certain networks. Technical incompatibility does not constitute locking. |

## Custom Device

A “Custom” Device has software and settings optimised for use on a specific network or group of networks.

|  |  |
| --- | --- |
| Requirement ID | Requirement |
| TS59\_2.4\_REQ\_1 | A Custom Device SHALL have software and settings optimised for use on a specific network or group of networks. |
| TS59\_2.4\_REQ\_2 | A Custom Device MAY be SIM locked. |
| TS59\_2.4\_REQ\_3 | A Custom Device MAY be OEM locked. |
| TS59\_2.4\_REQ\_4 | A Custom device MAY adjust its settings if a SIM from a different network is installed, or an eUICC profile for a different network is activated. |

## Open Market Device

Unlike a Custom Device, an “Open Market” Device has software intended for use on any network operating to appropriate industry standards (i.e., GSMA PRDs for IMS based services, such as voice, video, messaging, etc., and GSMA PRDs for Data services).

|  |  |
| --- | --- |
| Requirement ID | Requirement |
| TS59\_2.5\_REQ\_1 | When a SIM (or its equivalent) from a network operating to appropriate industry standards is inserted into an Open Market Device, the device SHALL install and use the profile values of that network. |
| TS59\_2.5\_REQ\_2 | If the Open Market Device is capable of VoLTE and/or RCS, then the device SHALL install and use the network settings for VoLTE and/or RCS services. |
| TS59\_2.5\_REQ\_3 | An Open Market Device SHALL NOT be OEM locked |
| TS59\_2.5\_REQ\_4 | If a OEM Locked Device is unlocked it MAY become an Open Market Device. This will require its software being compatible with all other MNO networks. |
| TS59\_2.5\_REQ\_5 | An Open Market Device MAY be SIM Locked. However, once the SIM lock is removed, an Open Market Device SHALL be capable of accepting any SIM / eUICC profile and loading appropriate settings as in TS59\_2.5\_REQ\_1 |

1. Document Management
	1. Document History

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| --- | --- | --- | --- | --- |
| Version | Date | Brief Description of Change | Approval Authority | Editor / Company |
| 1.0 |  | New PRD (WG Doc nn/nnn). | WG #nnEMC #nn | Richard Ormson / Hutchison |
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* 1. Other Information

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| --- | --- |
| Type | Description |
| Document Owner | TSG |
| Editor / Company | Richard Ormson / Hutchison |

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