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|  | | TSG Doc xx\_xx  **AI Mobile Device Requirements Specification** | |
| Meeting Information | | | |
| Meeting Name and Number | | TSGAI#26 | |
| Date | | 2022.03.30 | |
| Location | | e-meeting | |
| Document Information | | | |
| Document Author(s) | | Qualcomm Incorporate. | |
| Document Creation Date | | 23March 2022 | |
|  | | Approval | X |
| This document is for: *(mark X as appropriate)* | | Discussion |  |
|  | | Information only |  |
| Security Classification | | | |
| Confidential | | GSMA Full, Associate & Rapporteur members | X |
| Document Summary | | | |
| For each biometric system, explicit performance requirements for FAR and FRR are provided. Testing biometric performance requires significant effort and this can create a major burden for mobiles to support AI requirements. This burden can be reduced by not requiring OEM to repeat testing. For this reason, it is sufficient for OEM to either perform biometric testing using a GCF certified test house or to provide FIDO/IFAA certification. This extends the biometric requirements to allow such approach. | | | |
| Document History | | | |
| Date | Version | Author / Comments | |
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### Biometric Performance Requirements

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| TS47\_3.4.1\_REQ\_001 | An AI Mobile Device SHOULD support a 2D facial biometric system. |
| TS47\_3.4.1\_REQ\_002 | An AI Mobile Device SHOULD support a 3D facial biometric system. |
| TS47\_3.4.1\_REQ\_003 | An AI Mobile Device SHOULD support a fingerprint biometric system. |
| TS47\_3.4.1\_REQ\_003a | An AI Mobile Device supporting a biometric system SHALL either fulfil explicit requirements for that biometric system (i.e., TS47\_3.4.1\_REQ\_004 and/or TS47\_3.4.1\_REQ\_005 and/or TS47\_3.4.1\_REQ\_006) or it SHALL fulfil FIDO/IFAA certification as perTS47\_3.4.1\_REQ\_007. |
| TS47\_3.4.1\_REQ\_004 | An AI Mobile Device supporting 2D facial biometric system SHALL support the biometric KPI requirement TS47\_3.4.1\_REQ\_004.1 for each of the use cases: Device Unlock, Application Login and Payment Authorization. |
| TS47\_3.4.1\_REQ\_004.1 | 2D Facial FAR <= (0.002)% and FRR <= (3)% simultaneously |
| TS47\_3.4.1\_REQ\_005 | An AI Mobile Device supporting 3D facial biometric system SHALL support the biometric KPI requirement TS47\_3.4.1\_REQ\_005.1 for each of the use cases: Device Unlock, Application Login and Payment Authorization. |
| TS47\_3.4.1\_REQ\_005.1 | 3D Facial FAR <= (0.001)% and FRR <= (3)% simultaneously. |
| TS47\_3.4.1\_REQ\_006 | An AI Mobile Device supporting fingerprint biometric system SHALL support the biometric KPI requirement TS47\_3.4.1\_REQ\_006.1 for each of the use cases: Device Unlock, Application Login and Payment Authorization. |
| TS47\_3.4.1\_REQ\_006.1 | Fingerprint FAR <= (0.002)% and FRR <= (3)% simultaneously. |
| TS47\_3.4.1\_REQ\_007 | The biometric key performance indicators (KPIs) for the supported biometric system SHOULD be certified by one or more of the following programs:  Fast IDentity Online (FIDO) Alliance Biometric Component Certification Program.  Internet Finance Authentication Alliance (IFAA) biometric Certification Program. |