

# ISO/IEC TR 30125:2016-05 (E)

## Information technology - Biometrics used with mobile devices

---

<b>Contents</b>		<b>Page</b>
Foreword .....		iv
Introduction .....		v
<b>1</b>	<b>Scope .....</b>	<b>1</b>
<b>2</b>	<b>Normative references .....</b>	<b>1</b>
<b>3</b>	<b>Terms and definitions .....</b>	<b>1</b>
<b>4</b>	<b>Abbreviated terms .....</b>	<b>2</b>
<b>5</b>	<b>The use of biometrics in mobile devices .....</b>	<b>2</b>
<b>5.1</b>	<b>Taxonomy of usage of biometrics in mobile devices .....</b>	<b>2</b>
<b>5.1.1</b>	<b>General .....</b>	<b>2</b>
<b>5.1.2</b>	<b>Generic considerations for all use cases .....</b>	<b>2</b>
<b>5.1.3</b>	<b>Access to the device .....</b>	<b>4</b>
<b>5.1.4</b>	<b>Access to the local applications, services and/or data .....</b>	<b>4</b>
<b>5.1.5</b>	<b>Access to the communications channel .....</b>	<b>5</b>
<b>5.1.6</b>	<b>Verification/authentication of, or to, a remote resource or point of transaction .....</b>	<b>5</b>
<b>5.2</b>	<b>Generic challenges in the integration of biometrics in mobile devices .....</b>	<b>6</b>
<b>5.2.1</b>	<b>Computational power .....</b>	<b>6</b>
<b>5.2.2</b>	<b>Data protection and privacy .....</b>	<b>6</b>
<b>5.2.3</b>	<b>Biometric sample capture .....</b>	<b>8</b>
<b>5.2.4</b>	<b>Sample authentication process .....</b>	<b>9</b>
<b>5.2.5</b>	<b>Usability .....</b>	<b>10</b>
<b>5.2.6</b>	<b>Solution testing .....</b>	<b>12</b>
<b>5.2.7</b>	<b>Challenges common to other scenarios and platforms .....</b>	<b>12</b>
<b>6</b>	<b>Biometrics services within the OS of the mobile device .....</b>	<b>13</b>
<b>7</b>	<b>Biometric services at the application level in a mobile device .....</b>	<b>15</b>
<b>8</b>	<b>Biometric application development [using the biometric engine(s) provided] .....</b>	<b>16</b>
<b>9</b>	<b>Functional and operational guidance .....</b>	<b>20</b>
<b>9.1</b>	<b>General guidance .....</b>	<b>20</b>
<b>9.1.1</b>	<b>Guidance on functional architecture .....</b>	<b>20</b>
<b>9.1.2</b>	<b>Guidance on environmental conditions and constraints .....</b>	<b>20</b>
<b>9.2</b>	<b>Guidance for enrolment .....</b>	<b>20</b>
<b>9.2.1</b>	<b>General guidance for enrolment .....</b>	<b>20</b>
<b>9.2.2</b>	<b>Supervised enrolment .....</b>	<b>21</b>
<b>9.2.3</b>	<b>Unsupervised enrolment .....</b>	<b>21</b>
<b>9.3</b>	<b>Guidance for authentication .....</b>	<b>22</b>
<b>9.3.1</b>	<b>Remote unsupervised authentication .....</b>	<b>22</b>
<b>9.3.2</b>	<b>Local unsupervised authentication .....</b>	<b>23</b>
<b>10</b>	<b>Use of multi-factor authentication .....</b>	<b>23</b>
<b>10.1</b>	<b>Fusion and scores for multi-biometrics .....</b>	<b>23</b>
<b>10.2</b>	<b>Combining biometric and non-biometric authentication techniques for greater security and/or usability .....</b>	<b>24</b>

<b>11</b>	<b>Biometric modality specific guidance .....</b>	<b>24</b>
	<b>Bibliography .....</b>	<b>27</b>