

**Aware comments on Biometric Sample Quality Standard Draft (M1/06-0948) in response to call for contribution (M1/06-0949)**

Date: 2006-05-24	Document: <b>M1/06-0980</b> Comments received against M1/06
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1	2	(3)	4	5	(6)	(7)
<b>MB<sup>1</sup></b>	<b>Clause No./ Subclause No./ Annex</b> (e.g. 3.1)	<b>Paragraph/ Figure/Table/ Note</b> (e.g. Table 1)	<b>Type of comment<sup>2</sup></b>	<b>Comment (justification for change) by the MB</b>	<b>Proposed change by the MB</b>	<b>Proposed Editors Disposition</b>
Aware1	0.1	All	Ed	Section is 19794 specific.	Remove section.	
Aware2	throughout		Ed	Spelling of “normalisation”, “behaviour” is incorrect	Spell “normalization”, “behavior”	
Aware3	6	All	Ed	“General Biometric System” section required in Part 1 of ISO Framework documents, but not required in INCITS documents	Remove section.	
Aware4	8.1	Table 2	Te	<p>Recommendation of inclusion of data quality fields should be preceded by the successful implementation of systems and tools needed to properly assign values to the fields. It is premature to allocate fields in those cases where the tools and systems needed to fulfil the requirements of the fields does not exist.</p> <p>Quality Algorithm Classification field implies that an algorithm certification program is envisioned. This program is out of scope of this standard, has not been defined, and there is no consent on its form or value.</p> <p>Quality Score Normalization Dataset fields rely on a QSND infrastructure, which is currently undefined, and there is inadequate consent on its form or value.</p> <p>Signal Processing Fidelity Score and Quality Impairment Bitfield are similarly undefined, and there is a lack of consensus regarding their value in data interchange formats.</p>	Replace Data Fields Summary table with table suggested by NIST to ISO common headers group, as shown below, which includes QAID fields.	
Aware5	8.4 thru 8.7			See Aware4	Remove sections 8.4 through 8.7	
Aware6	Annex A	Page 28 line 36		The QSND appendix refers to a particular quality scoring algorithm, NFIQ. References to specific algorithms should be removed from this text.	Remove sentences referring to NFIQ	
	Annex A	Page 28, 29 Tables I and II		Example presents a five-bin method, while alignment with 4-bin assignment as outlined by BioAPI is allegedly more desirable.	Edit tables to present 4 bins and not 5. A discussion of the relationship between bin resolution and algorithm “alignability” might be useful.	
Aware7	New Section			QSPR, Quality Score Percentile Rank, is a relatively easy and effective mechanism to help align sample quality scores from different algorithms. See Aware contribution for detail.	Include text of Section 2.2 of Aware contribution M1/06-0979, preceded by text: “Normalization of quality score output by means of the QSPR method described below is recommended as a best practice.”	

1 **MB** = Member of M1 - affiliation

2 **Type of comment:** **ge** = general **te** = technical **ed** = editorial – For technical comments, please indicate whether your comment is a MAJOR or MINOR technical comment. **NOTE** Columns 1, 2, 4, 5 and 6 are compulsory.

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**Table 1**

description	size	valid values	Note
Quality Score	1 byte	[0,100] 254, 255	0: lowest 100: highest 254: no attempt made 255: failed attempt
Quality Algorithm Vendor ID	2 bytes	"0" if Quality Score = 254 [1,65535] otherwise	1 <sup>st</sup> two bytes are vendorID registered by IBIA and the other two bytes are algorithm ID provided by the vendor (optionally registered with IBIA).
	2 bytes	"0" if Quality Score = 254 [1,65535] otherwise	

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