

Comment Disposition on ANSI INCITS 379-2004, Iris Image Interchange Format in response to M1/06-0418 and M1/06-0675

Date: 2006-11-20	Document: M1/06-0987
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1	2	(3)	4	5	(6)	(7)
RCM	Clause No./ Subclause No./ Annex (e.g. 3.1)	Paragraph/ Figure/Table/ Note (e.g. Table 1)	Type of comment ¹	Comment (justification for change)	Proposed change	Proposed Editors Disposition
IRID 1	Introduction	1st paragraph	ed	Change "a sample record"	"several sample records"	Accept
IRID 2	2	3 rd sentence	te MAJ	Quality should not be interpreted by the standard as three different levels, but expressed as a continuum from 1 to 100.	Replace sentence with "Quality is specified as a value from 1 to 100."	Accept
IRID 3	3	Reference to JPEG-LS	te MIN	Availability of lossless JPEG2000 renders JPEG-LS superfluous.	Delete.	Accept
IRID 4	4.8	JPEG-LS definition	ed	See IRID3	Delete.	Accept

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IRID 5	5.2.3		ed	See IRID3	Change to "If lossless compression is used, the image data shall be compressed in accordance with JPEG2000 lossless compression specified in ISO/IEC 15444."	Accept
IRID 6	5.3.2.6	4 th sentence	ed	Describes resampling method that is not an industry standard	Change to "The intensity of each polar image sample $p(r,\theta)$ shall be computed using nearest-neighbor resampling or other industry-standard method." Delete 5th sentence.	Accept
IRID 7	5.3.2.6		te MAJ	Definition of the standard transformation method is not clear.	Add text to describe the meaning of the "Image transformation" entry in Table 2, the "standard transformation", and the allowed use of "nonstandard" polar transformations.	Partly Accept As for the standard transformation, append to section 5.5..6, item TRANS_STD: "The angular points of the pupil boundary are defined as described in 5.3.2.6. The angular points of the iris boundary are defined analogously. Their starting point shall be the intersection of a 6 o'clock spoke from the

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						iris center with the iris boundary.” A description of a non-standard polar transformation should not be part of the standard. The tag TRANS_UNDEF merely helps prevent misinterpretation of iris data packages.
IRID 8	5	Table 2, B.1, B.3, B.5	ed	No interpretation of header version is provided	Add text indicating that first 2 digits signify major version and 3rd digit is minor version, and that the value at time of publication is 010. Correct hex value is 0x30313000.	Reject (satisfied in BTF2)
IRID 9	5	Table 4	te MIN	Image length ranges from 0 – 4294967295. Zero length image is not allowed.	Change to 1 – 4294967295 or 1 to (2 ³² -1)	Accept

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IRID 10	5.6.2		ed	Specifies interpretation of different ranges of quality value. This is inappropriate (see comment IRID2)	Delete section.	Accept
IRID 11	A.1	Text following A.1 heading	ed	Hanging paragraph	Insert header A.1.1 with title "General". Renumber following subsections.	Accept
IRID 12	A.1.1, A.1.2, A.1.3		ge	Specific definition of quality in terms of pixel resolution and expected iris diameter is not appropriate or supported.	Replace with more general text that suggests interpretation of the quality score and indicates that the provider of the data is responsible for generating a score that is predictive of match performance when used with that vendor's matching algorithms.	Accept "The quality scores may be dependent on several quality factors, including resolution, contrast, image noise level and iris area. Averaged over a larger number of images, it shall predict the identification and verification performance of the algorithm used. For a particular pair of iris images from the same eye it shall predict the comparison score/distance."

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BTF 1	5.2.3 (p. 4)		ed	... specified specified ...	Accept
BTF 2	5	Table 2 (p. 10)	te MIN	n n n 0x0	'n' 'n' 'n' 0x00	Reject Change to: n m k 0x00 in accordance with Iritec's comments and add the explanation "The first two ASCII digits, n and m, shall represent the major revision number and the third digit, k, shall represent the minor revision number." to satisfy comment IRID8

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BTF 3	5	Table 2 (p. 11)	ed	..._RGB_JPEG = 8 (0x0008)	..._RGB_JPEG = 8 (0x0008)	Accept
BTF 4	5	Table 3 (p. 12)	ed	... feature, 1 65,535	... feature, 1-65,535	Accept
BTF 5	5.5.6 (p. 12)		ed	"SCAN_TYPE_UNDEFINED" is not defined	SCAN_TYPE_UNDEFINED – the image was captured using unknown type scanning	Partly Accept Change to: "SCAN_TYPE_UNDEF – the image was captured using unknown type scanning"

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BTF 6	5.6.2 (p. 14)		ed	"IMAGE_QUAL_UNDEF" is not defined	Need to provide an appropriate clause	Accept Add "—IMAGE_QUAL_UNDEF means that an image quality score is not available." as first item to 5.6.2.
BTF 7	A.7		ed	... diameter range of 9,5 mm to 13, 5 mm diameter range of 9,5 mm to 13,7 mm ...	Accept
BTF 8	A.7		ed	... diameter range of 9,5 mm to 13,5 mm ...	Replace with better explanation of what these two values represent	Accept Replace 1st sentence in A.7 by: "The image scale should be such that irises with diameters between 9,5mm and 13,7mm, will show at least 100 pixels diameter in the digital image to meet the recommended minimum quality level of A.1.1.

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BTF 9	B	Table B.1 and B.3 (p. 21, 23 and 24)	ed	Image quality medium = 0x32 – 0x4B	Image quality medium =0x38, 0x3A, 0x35, and 0x4B in four image quality fields	Reject Change “Image quality medium = 0x32 - 0x4B” to “Image quality: medium (0x33 -- 0x4B)” at four locations in Table B.3

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