

U.S. Army BTF Contribution on Defect Areas in INCITS 385

International Committee for Information Technology Standards
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DOC: M1/06-0593

Date: 1 August 2006

**U.S. Army BTF Technical Contribution to M1.3 -
Report on Potential Defects in Face Recognition Format for Data Interchange
Standard**

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1 Purpose

This report provides description of potential defects in the original clauses of Face Recognition Format for Data Interchange standard (ANSI/INCITS 381-2004). Further, this report provides the BTF recommendations on possible resolution of these defects.

2 Face Recognition Format for Data Interchange Standard (ANSI/INCITS 385-2004)

The Face Recognition Format for Data Interchange Standard (ANSI/INCITS 385-2004) has six potential defect areas. The following Table 1 lists these defect areas, stating the text of the original clauses and proposed new texts:

Table 1. Defect Areas of ANSI/INCITS 385-2004

Item No.	Paragraph/Table/Figure	Original Text	Proposed change	Explanation
1	Table 2 (page 9)	Valid Values of Record length = $0 < \text{Record Length} \leq 2^{32} - 1$	Valid Values of Record length = $46 < \text{Record Length} \leq 2^{32} - 1$	Following the last paragraph of 5.1 (page 7): The minimum record length should be calculated by following equation: 14 (a fixed-length Facial Record Header) + 20 (a fixed-length Facial Information) + 12 (a fixed-length Image Information) = 46 bytes
2	8.3.4 (page 31)	None	The CC should always less than A. (The CC and A are defined in the Figure 8)	The section 8.3.4 should provide the maximum limitation of Width of Head.
3	Table 14 (page 33)	X coordinate of Second (left) Eye = $0.625 * W$	X coordinate of Second (left) Eye	The equation will be provided in "Value" field.
4	Table 14 (page 33)	$(0.375 * W) - 1$	$0.375 * W + 1$	The origin X an Y coordinates are counted start at 1's.
5	Table 14 (page 33)	$(0.625 * W) - 1$	$0.625 * W$	The origin X an Y coordinates are counted start at 1's.
6	Figure 9 (page 34)	The equations and values in figure are not appropriate.	The equations and values in figure should be corrected.	The original equations in Table 14 are not appropriate.

3 References

a) ANSI/INCITS 381-2004, Finger Image-Based Data Interchange Format Standard (May 13, 2004)