

**ANSI/NIST
Fingerprint Standard Update
Workshop**

RESOLUTIONS

April 28, 2005

Harmonize ANSI/NIST & M1 Minutiae Data Formats

- Define a new M1-Type block of fields in the Type-9 record format to mimic existing fields
- Add angles to Core and Delta location
- Add a field to indicate compliance with Appendix F
- Add fields to indicate size of original image

Harmonize ANSI/NIST Type-14 & M1 Image Data Formats

- Add fields for:
 - horizontal image capture
 - vertical image capture
 - count of views
 - view number
 - finger the image quality scale and value
 - CBEFF product ID & Capture Device ID

NEW: IRIS IMAGE RECORD

- 18:001: LEN
- 18.002: IDC
- 18.004: Source Agency
- 18.005: Iris Capture Date
- 18.006: Horizontal Length (capture)
- 18.007: Vertical Length (capture)
- 18.008: CBEFF Product ID
- 18.009: Capture Device ID
- 18.010: Globally Unique ID

IRIS IMAGE RECORD (continued)

- 18.011: Compression Algorithm
- 18.012: Bits per Pixel
- 18.013: Iris Position
- 18.014: Rotation Angle of Eye
- 18.015: Rotation Uncertainty
- 18.022: Iris Image Quality Scale
- 18.023: Iris Image Quality Value
- 18.999: Iris Image Data

ADJUST MAX SLAP SIZES (Table 6)

Finger Position	Finger Code	Width (inch)	Length (inch)
Plain Right Thumb	11	1	2.0
Plain Left Thumb	12	1	2.0
Plain Right 4-Fingers	13	3.3	3.0
Plain Left 4-fingers	14	3.3	3.0
Plain Thumbs (2)	15	3.3	3.0

ADDITIONAL PALM CODES

Palm Position	Palm Code	Width (in)	Length (in)
Right Interdigital	31	5.5	3.0
Right Thenar	32	3.0	4.0
Right Hyperthenar	33	3.0	5.5
Left Interdigital	34	5.5	3.0
Left Thenar	35	3.0	4.0
Left Hyperthenar	36	3.0	5.5

SOURCE AGENCY FIELD SIZE

- Proposal: Increase size of source agency /ORI to a maximum of 50 characters for all records Types 10 and above

IMPRESSION TYPES AND VENDOR IDENTIFICATON

- Update Table 5 to include entries for:
 - **Swipe impression image**
 - **Contactless image**
 - **Additional entries submitted by Steve Meagher**
- Add vendor identification fields to all image and minutiae records

THIRD LEVEL DETAILS

- An ad hoc group shall be formed to develop an approach to encoding third level details for fingerprints
- This group shall include:
 - Steve Meagher (or SWGFAST rep)
 - Motorola representative
 - Bill Long
 - Michael McCabe
 - Volunteers.....

INCREASED SCANNING RESOLUTION

- Change those references stating:
- *it is strongly recommended that the minimum scanning resolution*
 - to
- *the required minimum scanning resolution shall be*
- 39.38 ppmm or 1000 ppi for all friction ridge images

NEW: M1/CBEFF RECORD STRUCTURE

- Proposal

ANSI/NIST FORMAT'S ROADMAP TO XML

- Recommendations:

ADDITIONAL RESOLUTIONS

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