

# Scanner Relevant Standards

## 10-Print Scanner Technology Workshop

October 14, 2005

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# *Standards & Specifications*

- ❑ **EFTS FBI CJIS-RS-0010(V7.1) 2005**
  - **Specification for doing business with FBI**
- ❑ **Requires equipment certification with requirements documented in the IQS EFTS/App F**
- ❑ **Requires WSQ certified image CODEC**
- ❑ **Requires the use of ANSI/NIST-ITL 1-2000**
- ❑ **NIST Fingerprint Image Quality:**  
*[ftp://sequoyah.nist.gov/pub/nist\\_internal\\_reports/ir\\_7151/ir\\_7151.pdf](ftp://sequoyah.nist.gov/pub/nist_internal_reports/ir_7151/ir_7151.pdf)*

# ***ANSI/NIST-ITL 1-2000***

- ❑ Standard Data Format for the Interchange of Fingerprint, Facial, & Scar Mark & Tattoo (SMT) Information**
- ❑ It describes the Fingerprint Data Interchange Format Used by Law Enforcement agencies**
  - *Federal, state, and local agencies*
  - *International organizations*
- ❑ Format similar to commercial M1 standards**
- ❑ Chosen for its long term compatibility with FBI processing**

# Structure of Standard

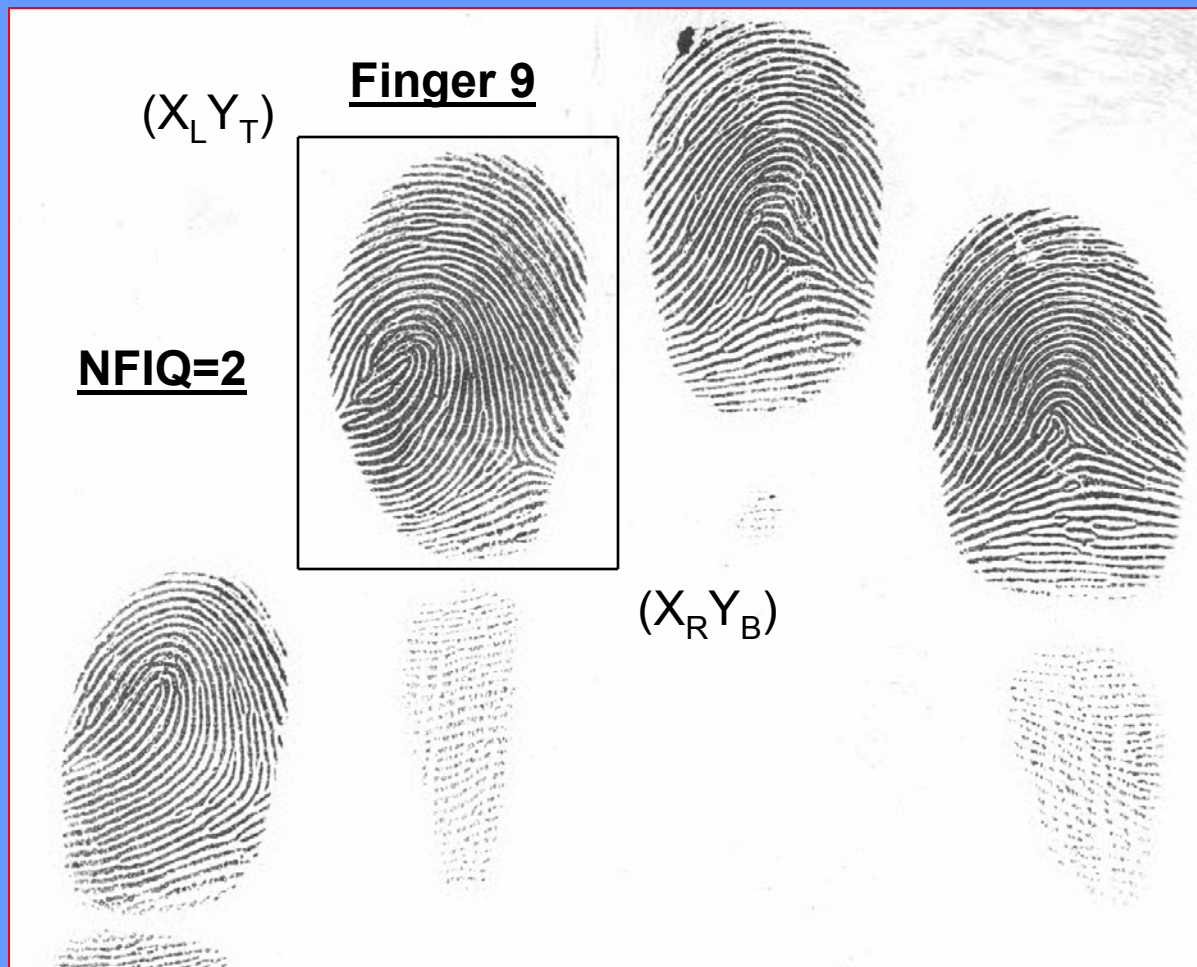
- ❑ Sixteen record types - ASCII, binary, or combination
- ❑ Used for exchanging information describing:
  - Transaction itself
  - Descriptive, demographic, and rap sheet information
  - Finger and palm print image and minutiae information
  - Facial image
  - Scar mark and tattoo image and descriptive information
  - User defined type record.
- ❑ In the flat application a type 14 (tagged field) record is used to transmit the flat images from the scanner.

# Left Slap

3" x 3.2"



# Segment & Assign NFIQ



# ***Back Up Slides***

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# Type 14 Record Example

<i>Field ID</i>	<i>Field #</i>	<i>Data Type</i>	<i>Example</i>
<i>LEN</i>	<i>14.001</i>	<i>N</i>	<i>14.001:40164 &lt;GS&gt;</i>
<i>IDC</i>	<i>14.002</i>	<i>N</i>	<i>14.002:01&lt;GS&gt;</i>
<i>IMP</i>	<i>14.003</i>	<i>A</i>	<i>14.003:0&lt;GS&gt;</i>
<i>SRC</i>	<i>14.004</i>	<i>AN</i>	<i>14.004:CA0000001&lt;GS&gt;</i>
<i>TCD</i>	<i>14.005</i>	<i>N</i>	<i>14.005:20040227&lt;GS&gt;</i>
<i>HLL</i>	<i>14.006</i>	<i>N</i>	<i>14.006:1600&lt;GS&gt;</i>
<i>VLL</i>	<i>14.007</i>	<i>N</i>	<i>14.007:1450&lt;GS&gt;</i>
<i>SLC</i>	<i>14.008</i>	<i>N</i>	<i>14.008:1&lt;GS&gt;</i>
<i>HPS</i>	<i>14.009</i>	<i>N</i>	<i>14:009:500&lt;GS&gt;</i>



# Type 14 Record Example (continued)

<i>Field ID</i>	<i>Field #</i>	<i>Data Type</i>	<i>Example</i>
VPS	14.010	N	14.010:500<GS>
CGA	14.011	A	14.011:1<GS>
BPX	14.012	N	14.012:8<GS>
FGP	14.013	N	14.013:14<GS>
SEG	14.021	N	14.021:10<US>3<US>352<US>725<US>126 5<RS>9<US>375<US>750<US>175<US>76 5<RS>8<US>800<US>1150<US>5<US>581 <RS>7<US>1200<US>1598<US>274<US>8 01<GS>
IQM	14.022	N	14.022:10<US>3<RS>9<US>2<RS>8<US>1 <RS>7<US>2<GS>