



Federal Bureau of Investigation



IAFIS

*How It Works
and
Where It's Going*

2004 Biometric Consortium



IAFIS: How It Works



*Integrated Automated Fingerprint
Identification System*

is

*The United States law enforcement
identification system and repository
for criminal and civil fingerprint
records*



IAFIS: How It Works



Statistically Speaking:

- *Over 47 Million Criminal Records*
- *Over 75 Million Civil Records*
 - *5 million automated*
- *Over 650,000 Digital Photos*
- *Processes Over 50,000 Transactions/Day*
 - *Capable of Both Ten-print and Latent*



IAFIS: How It Works



IAFIS Performance Metrics:

Criminal Electronic Submission Responses

- *94.4% within 2 hours**

Civil Electronic Submission Responses

- *99.2% within 24 hours**



IAFIS: How It Works



IAFIS Segments:

- *Interstate Identification Index (III)*
 - *Computerized Criminal History*
- *Identification Tasking Network*
 - *Traffic Cop*
 - *Electronic Fingerprint Conversion (EFCON)**
- *AFIS*
 - *Automated Sequence Check*
 - *III Verify*
 - *Search*
 - *Filter Process*
 - *Match and Identification*



IAFIS: How It Works

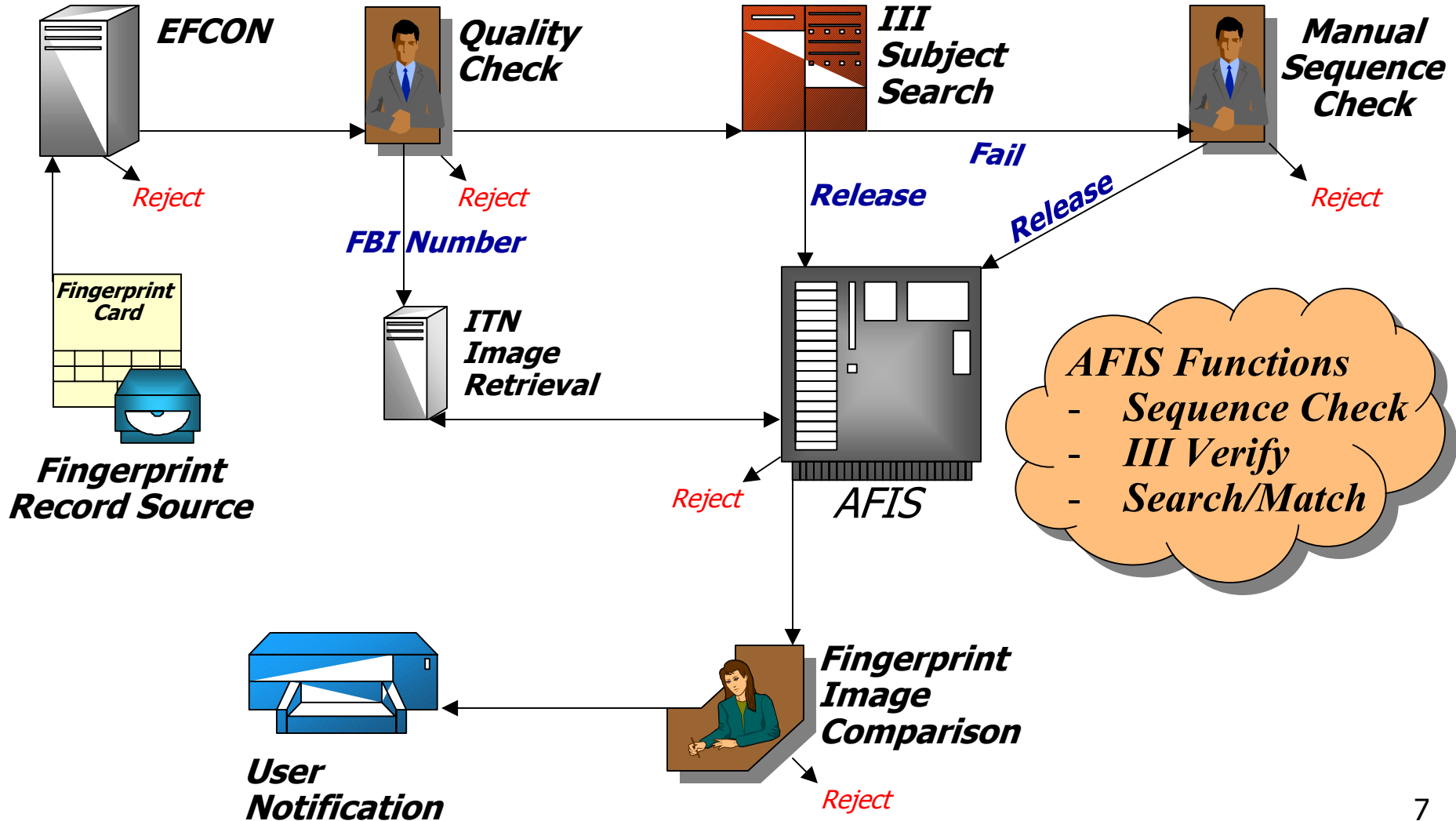


Service Provider Functions:

- *Quality Check*
- *Manual Sequence Check*
- *Fingerprint Image Comparison*



IAFIS: How It Works





IAFIS: How It Works



Ten-Print Success Story

Date: March 16, 2004

- Subject arrested in Richmond, Va. on drug charges*
 - Subject provides false identity to police*
 - Fingerprint search reveals subject wanted in Pennsylvania for homicide and, New Jersey for resisting arrest and failure to appear*
- * Response time 7 minutes*





IAFIS: Where It's Going



IAFIS "Next Generation"

Primary Initiatives

- 1. Provide quicker fingerprint processing and more accurate searches*
- 2. Provide more complete criminal history information*
- 3. Solve more crimes through latent processing*



IAFIS: Where It's Going



Initiative 1: Provide quicker fingerprint processing and more accurate searches.

- ***Automate Manual Processing Functions***
 - ***Quality check***
 - ***AFIS identifications***
- ***Increase Fingerprint Search Capacity***
 - ***200,000 ten-print/day***
 - ***1,000 latent/day***
- ***Expand Fingerprint Search Capability***
 - ***Flat impressions***
 - ***Less than 10 impressions***
- ***Improve Accuracy Rate to 99.9%***
 - ***Reduce false acceptance and false rejection rates***



IAFIS: Where It's Going



Initiative 1 Practical Applications:

- *IAFIS “Lights Out” Processing*
- *Enhanced Terrorist Identification Service (ETIS)*
 - *Allows rapid searches against fingerprints of potential terrorists and wanted persons with foreign or unknown places of birth*
 - *Uses 10 or less images*
 - *Response time measured in seconds*
 - *Dual response – “All Clear” or “Warning”*
 - *“Warning” response requires follow-up ten-print submission*



IAFIS: Where It's Going



Initiative 2: Provide more complete criminal history information

- ***Expand Interstate Photo File capability***
 - *Enable more than 10 photo sets/FBI number*
 - *Accept non-facial photos and photos for civil submissions*
 - *Submit photos without a tie to the date of arrest*
 - *Accept bulk/batch records*

- ***Provide new means to submit dispositions***
 - *CJIS Wide Area Network*
 - *With and without biometric identifier*
 - *Explore Internet solutions*
 - *Federal Courts direct connectivity to IAFIS*
 - *Interstate Identification Index*



IAFIS: Where It's Going



Initiative 2: Provide more complete criminal history information

- ***Enhance civil file functionality***
 - ***Rap Back for positions of trust***
 - ***Ability to make authorized modifications***
 - ***Response format determination***



IAFIS: Where It's Going



Initiative 3: Solve more crimes through latent processing

- *Develop latent palm-print capability*
 - *Accept, store and search palm-print capability*



Conclusion



Our Vision

To continue to meet our customer's needs through evaluation of current services and development of new services



Questions ?



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