

Mobile Identification

Remote Fingerprint Systems for Police

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Biography

- Lots of years at OPD
- Lots of experience with fingerprints
- Lots of time working with cops

Agenda

- Why mobile identification?
- OPD Identification Based Information System
- IBIS Results
- OPD Vision
- Future

Why mobile identification?

- Subjects have no ID for large percentage of field stops
- Trip to booking station may/may not identify the subject
 - Process can keep officers off line for hours
 - Inconvenience to both the officer and innocent suspect
- Many 'guilty' are not checked due to effort required
 - **Enables identity theft**

Ontario Police Department Integrated Biometric Identification System (IBIS)

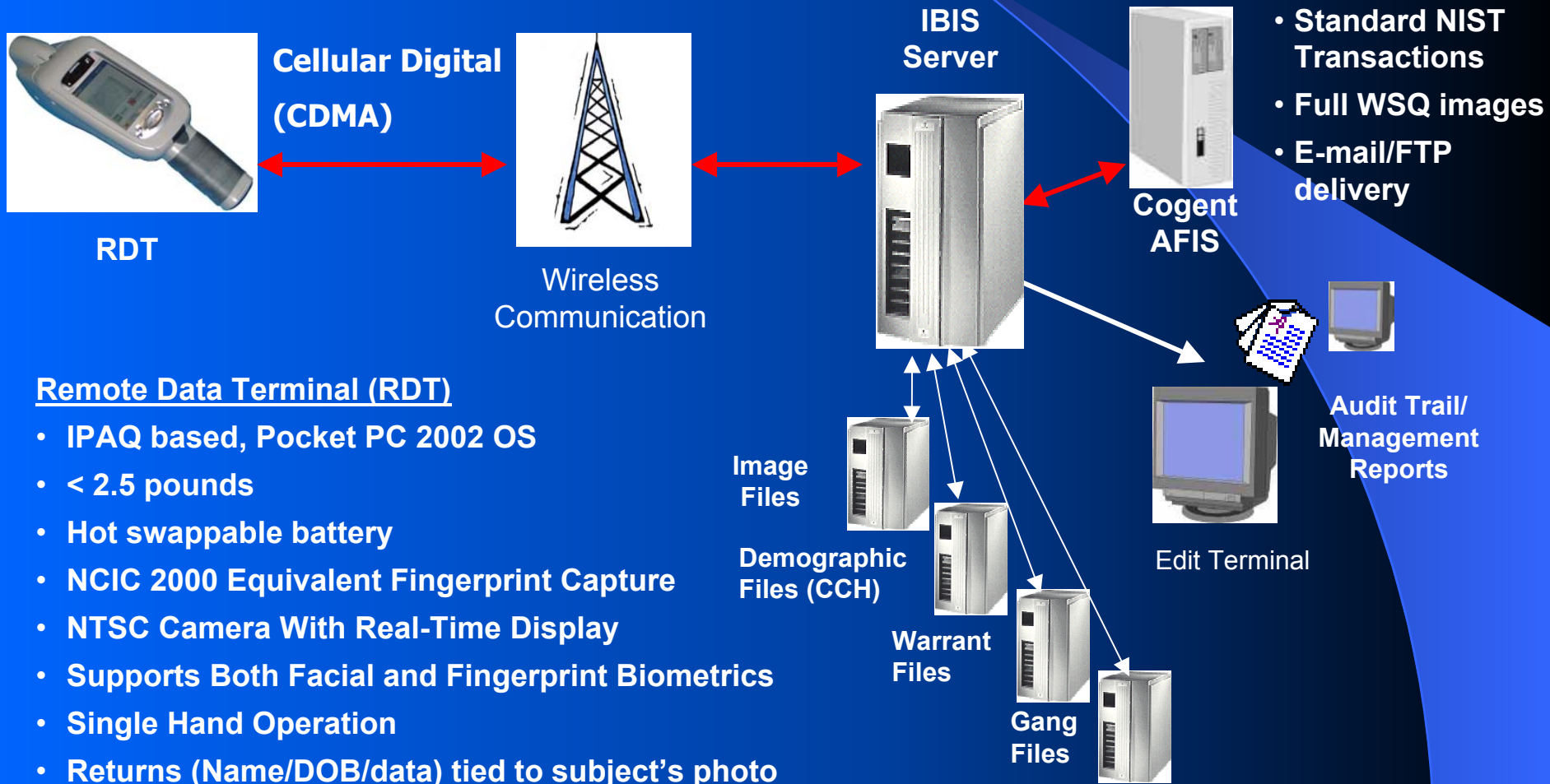
- Implemented under NIJ grant
 - Ontario/Redlands, CA and Hennepin County, MN
- Identix IBIS system
 - 65 Remote Data Terminals (RDT) in squad cars
 - Server at central site: interface to RDTs/AFIS/Databases
 - Communication over cellular digital (CDMA)
- Cogent Systems AFIS
 - NIST standard interface added to Identix server

Mobile ID

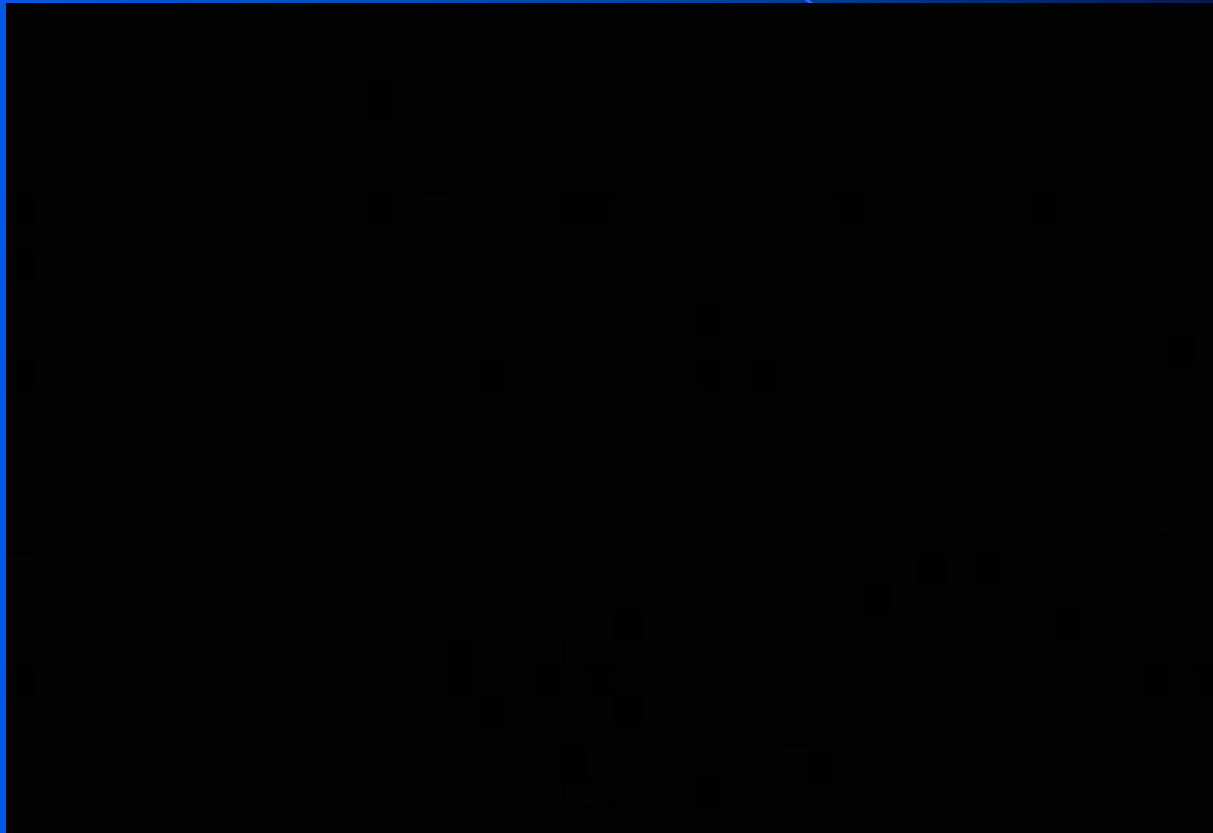
- Wireless connectivity to multiple biometric databases
 - Centralized data versus distributed
 - No decision process on what to distribute
 - Increases opportunity for positive results
- Access to related law enforcement databases
 - Return additional information on single transaction
- Audit and data reporting at central site
- Reliable wireless communication required
 - Constantly improving in today's environment

IBIS

Identification Based Information System



IBIS Operation



OPD IBIS Results

- **First RDTs deployed October, 2001** (16 RDTs: All 802.11b)
- **2nd generation RDT deployed June, 2003** (65 RDTs: All CDMA)
- **Seven Neighboring Agencies on I-10 and Highway Patrol**
- **Search results (Data through 7/31/04)**

Transactions	Hits (%)	Detentions (%)
7473	1584 (21%)	274 (4%)*

* - Detentions thru 2003, OPD only: unable to track other agencies.

OPD IBIS Results

- **Detentions verified by subsequent bookings at jail**
- **IBIS has identified bodies (3)**
- **IBIS verified subject was victim of identity theft**
 - **Brother used the subject's name/DOB, warrant issued**
 - **On stop, subject protested**
 - **Subject's fingerprint did not match print on record**
 - **Subject was released without being detained**

OPD IBIS Results:

- Matching Accuracy

- Thresholds based on two finger search results.
- Thresholds set high to insure zero false positives.

- Results

- 100% of hits verified correct by operators after completion of transaction.
- False negatives estimated <0.3%.

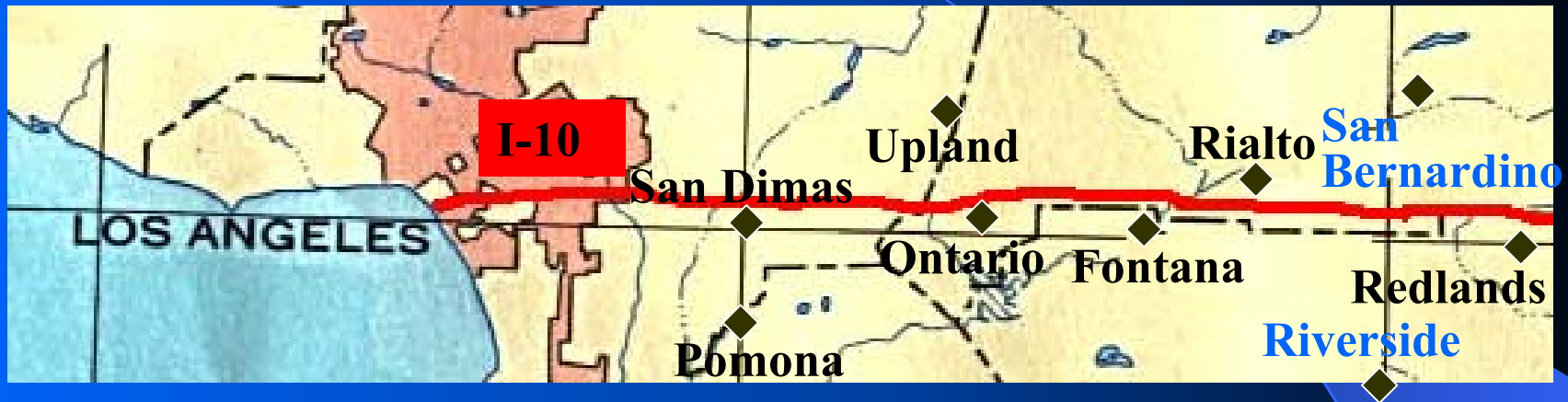
(Negative searches deleted after results returned to RDT.)

- Response times (typical)

- Processing time: < 60 seconds
- Wireless Transmission: < 30 seconds
- Server/AFIS search: < 30 seconds

OPD Vision

I-10 Regional Identification System



- 50 miles of dense population
- Criminal activity migrates city to city
- Added agencies in CY2003
- Future: interoperability with county agencies

OPD: Future

- Interoperability
 - Multiple AFIS databases
 - Local, county, state, national
- Cite and Release
 - PDA Based Ticketing with Biometrics
- Communications
 - Amber Alert
 - CJIS/NLETS/NCIC
- Local Applications
 - Caring Hands: Alzheimer's patients

