Needs and Applications for Latent Processing using ULW

NIST Latent Testing Workshop
April 5, 2006
Discussion

- **Application Modification**
  - Processing
  - Comparisons

- **Transaction Handling**
  - Auto Mailer
  - Transaction Queue
  - Error Notification

- **Latent Case Management**
  - Case Management
  - Tracking statistics
Discussion

- **Future Search Capabilities**
  - Queued Submissions
  - Latent sizing
  - Simultaneous search
  - Lights out processing
  - Plain Impressions and Palms
  - Search by Group Designation
  - Reverse Search Notifications
Application Modification - Processing

Maintain Feature Sets

- Cropping
- Image Reversal
- Image Orientation
Application Modification - Processing

Filters

- Unsharp Mask
- Pattern removal filters
- Fade filter opacity
- Multiple filters
Ridge Counting

- Auto minutiae vs. manual plotting
- Minutiae designation?
- Clarification on ridge counting
- Time consuming
Application Modification - Comparisons

- Auto Size
- Features on Tenprint
- Image and minutiae mismatch
Transaction Handling

- Auto Mailer
- Indicates processing error

IAFIS AutoMail Program

1 Files have been emailed to the FBI. Please check the Log File in the F:\04_04_2006 Folder for Details.

This Program is a restricted to authorized users of the United States Secret Service.
### Transaction Handling

#### Transaction Queue

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<th>Size</th>
<th>Type</th>
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## Transaction Handling

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Transaction Handling

- Error Notification

- IRR’s not returned
  - incorrect FBI No.
Latent Case Management

- Organize and save latent transactions by designation
  - Case number, examiner, submission no.
- Reporting statistics
  - Submissions, identifications, errors, case statistics
Future Search Capabilities

- Queued Submissions – timed release
- Latent Sizing
  - threshold allowance for non 1:1
- Simultaneous Search
- Lights out processing
  - Set threshold
  - Auto search by clusters
- Plain impressions, lower joints, palms
Future Search Capabilities

- Search by Group Designation
  - Terrorists
  - Regional
  - Gang related
  - US Visit

- Reverse Search Notifications
Questions