Needs and Applications for Latent Processing using ULW

NIST Latent Testing Workshop
April 5, 2006

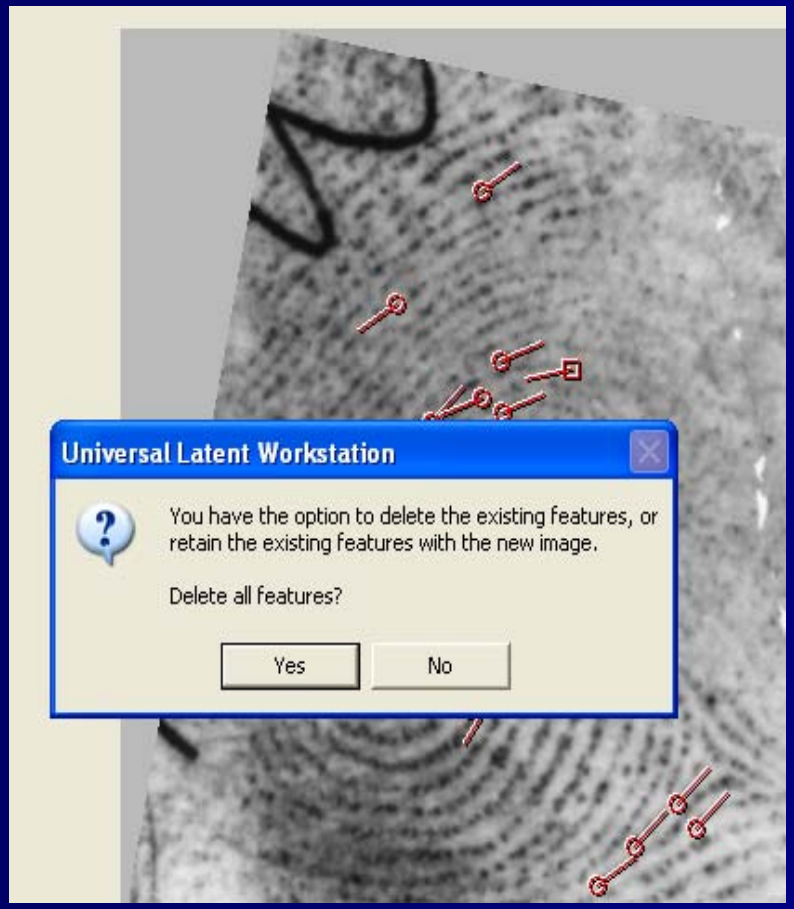
Discussion

- **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

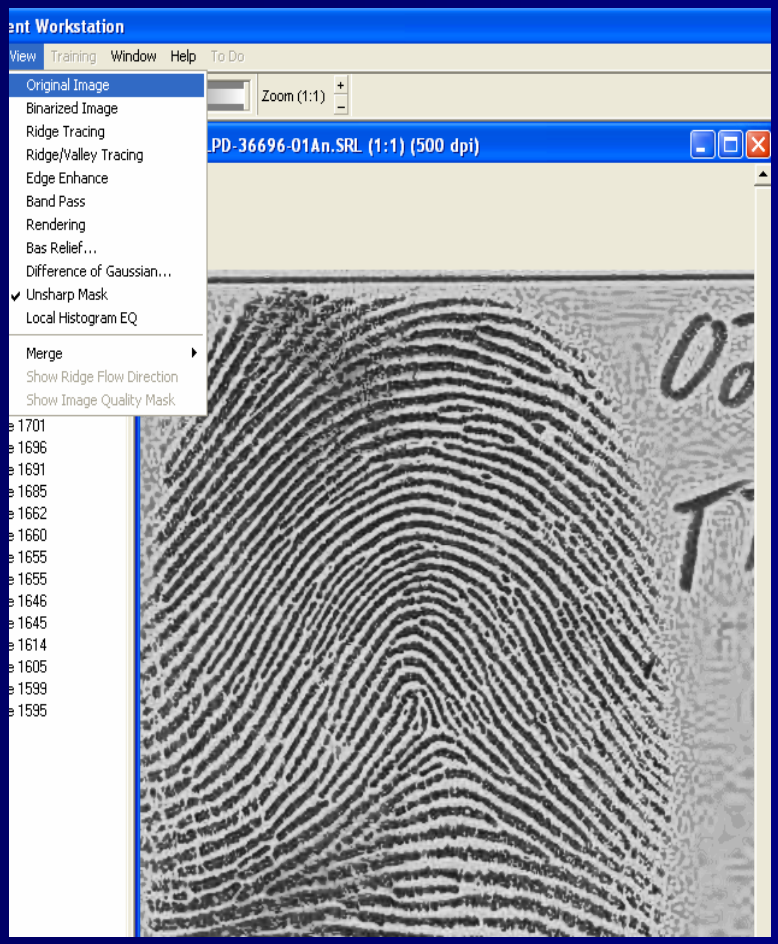
Application Modification - *Processing*



Maintain Feature Sets

- Cropping
- Image Reversal
- Image Orientation

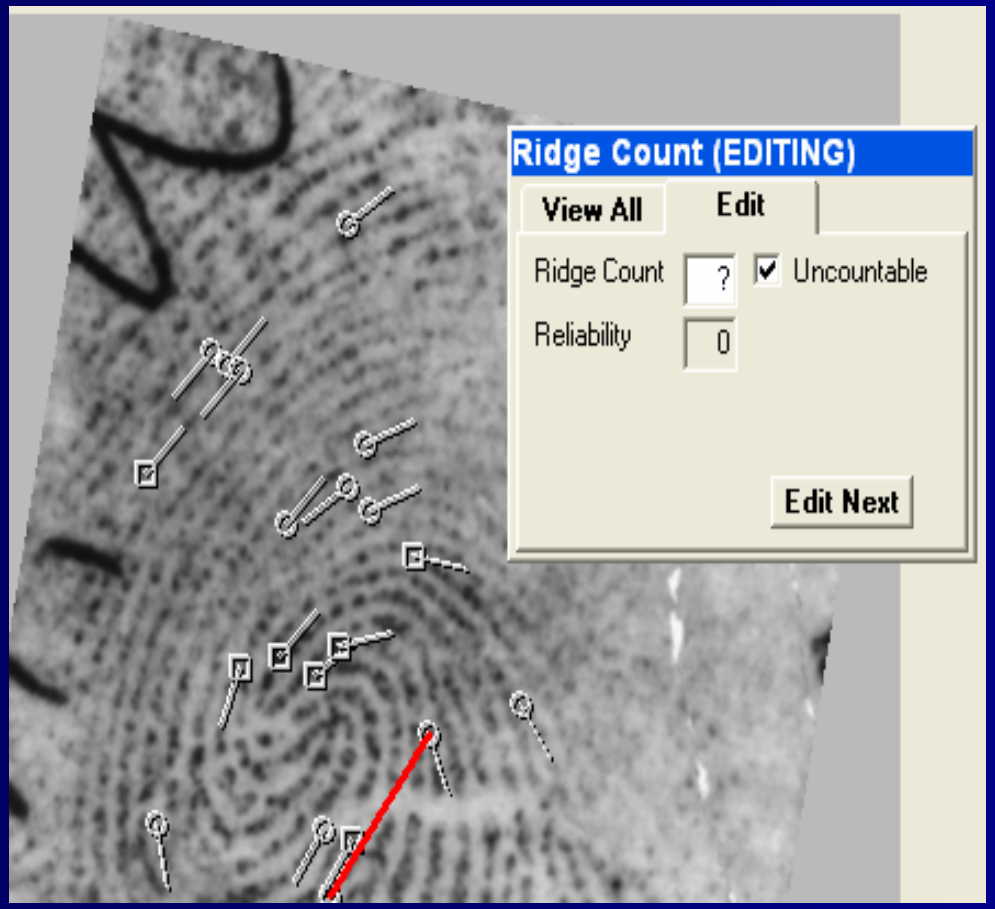
Application Modification - *Processing*



Filters

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

Application Modification - *Processing*

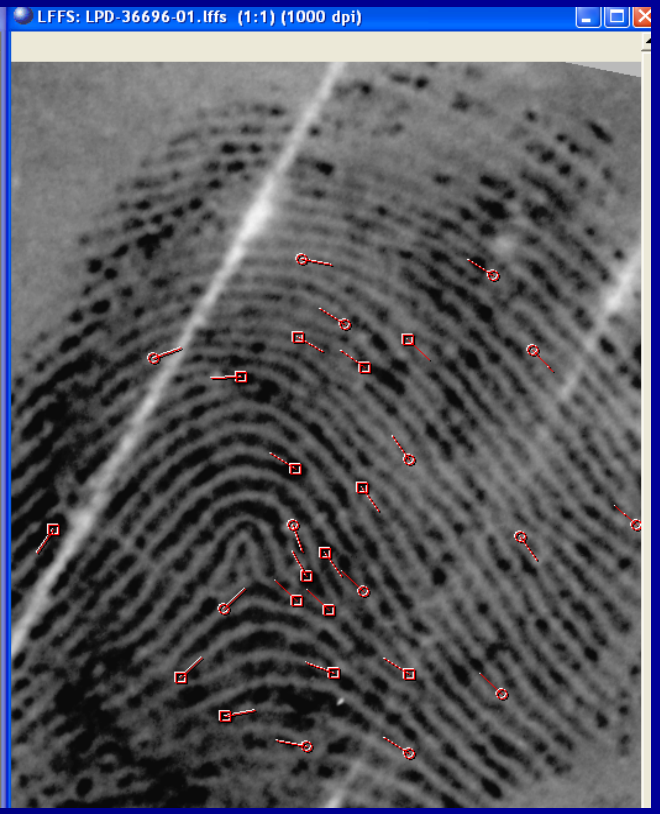


Ridge Counting

- 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

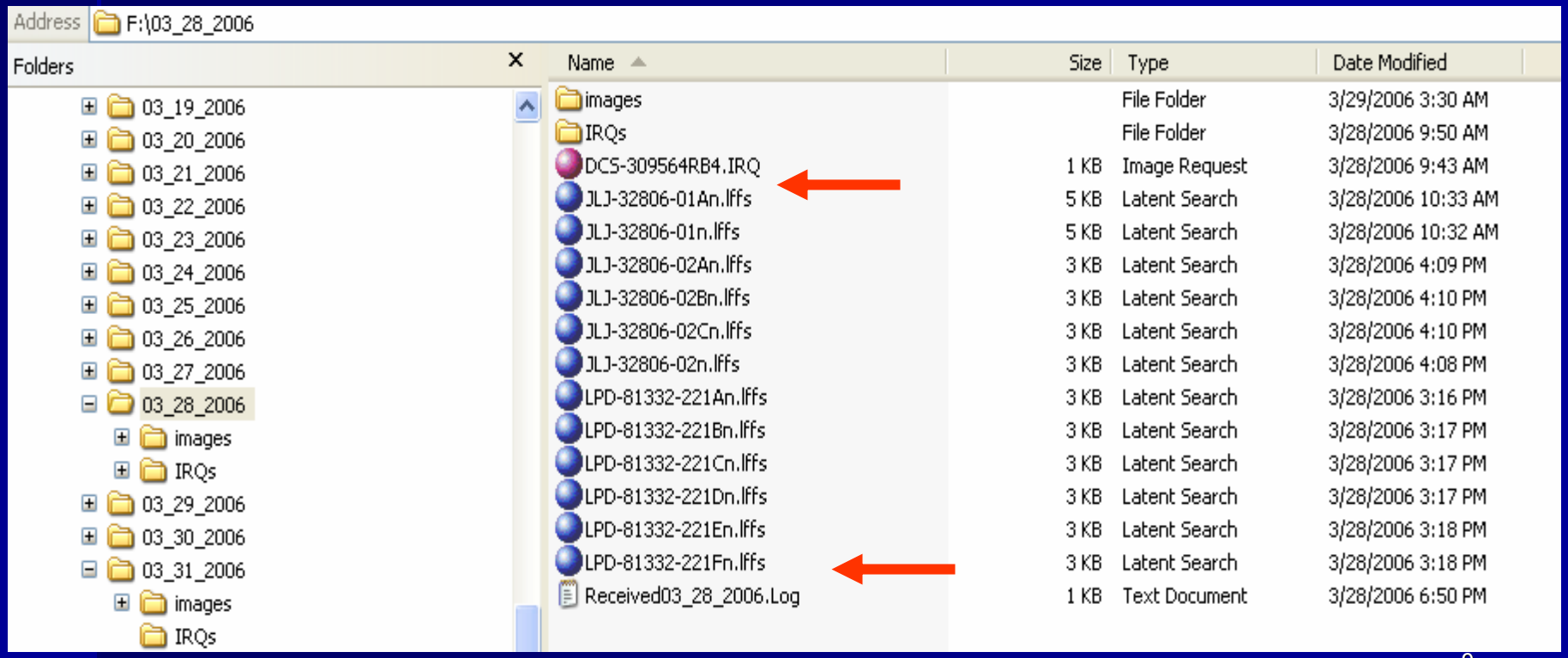


Transaction Handling

- Auto Mailer
- Indicates processing error

Transaction Handling

– Transaction Queue



Transaction Handling

– LFFS and SRL

Name	Abbr	Field	#	Value
Contributor Case ID Number				
▪ Prefix	CIN	2.010		DEB
▪ Identifier				13568
Contributor Case ID Extension	CIX	2.011		111
Controlling Agency Identifier	CRI	2.073	1	DCSS17500
Priority	PRI	2.076		3 (Arson, drugs, person
Number of Images Returned	NCR	2.079		20
Add to Unsolved Latent File	ULF	2.083		
Note Field	NOTE	2.088		

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