Original Image Record

Proposed Type-20 Record
Draft ANSI/NIST-ITL 1-2011

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About the Original Image Record…

- It's **NOT** specifically for automated recognition…
  - It is a record of how the original data was processed to provide the biometric image or sample in another Record Type
- It solves someone else's problem…
  - What enhancements or processes were performed on the biometric image or sample?
  - From where did this biometric image or sample originate?
- Examples in this slide deck:
  - Are for illustrative purposes and do not represent actual case work
  - Do not reflect the proposed Type-11 and Type-12 split

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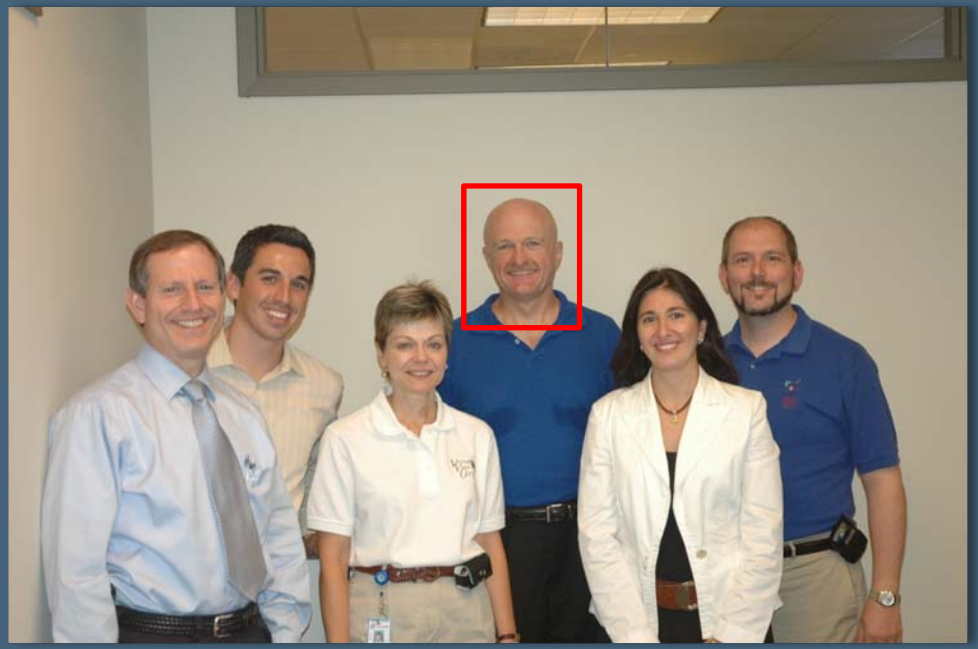
Type-10 Face Image

- Start with a group image
- Segment subject's face
- End result:
  - Type-20 Original Image
  - Type-10 Face Image



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Type-10 Face Image

- Start with a group of images
- Fuse the images into a single 2D face image
- End result:
  - Type-20 Original Images
  - Type-10 Face Image

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Type-17 Iris Images

- Start with a face image
- Segment the subject's right eye
- Segment the subject's left eye
- End result:
  - Type-20 Original Image
  - 2 Type-17 Iris Images

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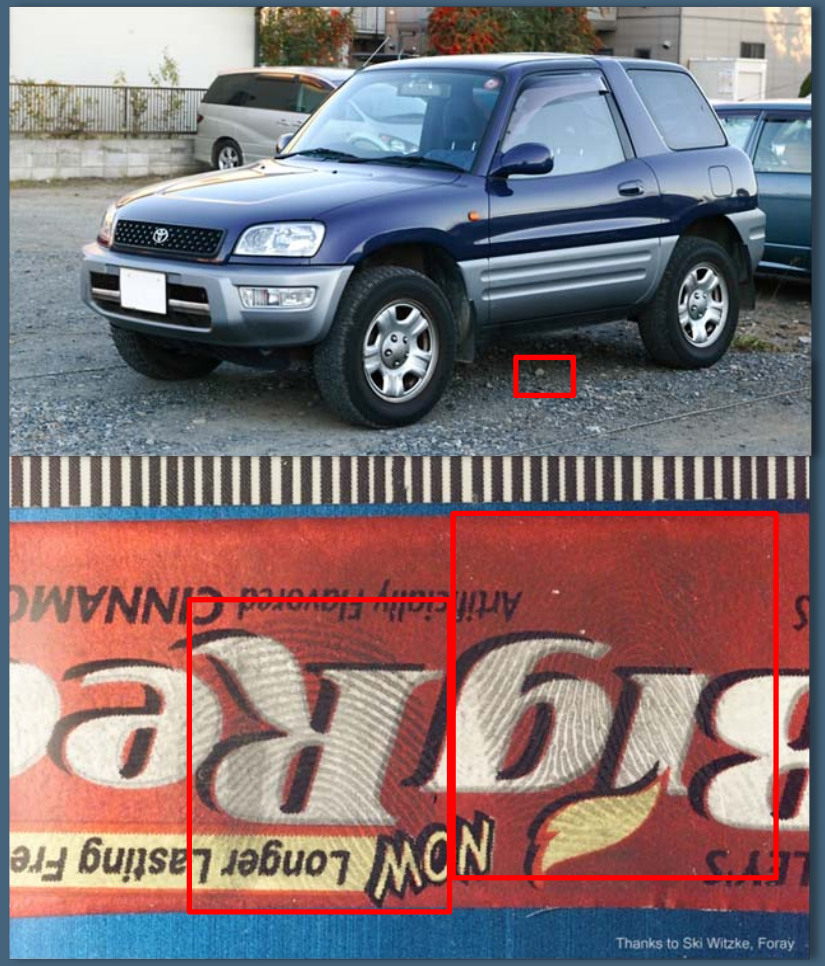
Type-13 Latent Images

- Start with a context photo
- Capture source photo and link it to the context photo
- Segment, rescale and grayscale first latent fingerprint
- Segment, rescale and grayscale second latent fingerprint
- End result:
  - Type-20 Original Image (context photo)
  - Type-20 Original Image (source photo)
  - 2 Type-13 Latent Images



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Known Issues

Comment	Editor's Response
The type 16 record can be, and is, used to support original images.	Type 16 is designed as a record type for testing and is user defined. It does not, therefore, have a common field definition that Record Type 20 would have, if approved by the canvassees.
There is a requirement for Type-20 records to be related, but not necessarily derived, from one another. Consider: • Renaming "Original image record" to "Reference sample record". • Expanding definition from 'derived' to 'derived and/or related'. • Adding subfield/data item(s), as appropriate, to differentiate between context and source images	TBD

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Questions?

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For the best of reasons