



STORM Case Study

A case study of the Washington County Sheriff's Office's success with IDEMIA STORM ABIS.



OVERVIEW

In June 2021, the Washington County Sheriff's Office (WCSO) located in Hillsboro, Oregon, released a request for proposals to replace their existing ABIS (Automated Biometric Identification System) and Livescan hardware. Requirements for the ABIS included standard latent print searching, latent print closed search (Case AFIS), and quality mapping of latent prints. **WCSO selected IDEMIA STORM ABIS as their solution.**

Why WCSO Chose IDEMIA

IDEMIA's Reputation

- Providing accurate biometric software and hardware to agencies across the U.S. and around the world
- Trusted to provide highly accurate latent search algorithms for the FBI's Next Generation Identification (NGI) system.

Features

- Cloud-native design transitions examiners from sharing a physical workstation to a web-based system that can be used from any internet-connected PC.
- Latent print searches against the county database of fingerprint, palm print, and phalanges (joints).
- Closed-search (Case AFIS) feature
- Quality mapping feature for latent prints

Design

- Designed by latent print experts for latent print examiners.
- Intuitive and efficient design was a clear differentiator in the product demo.

BENEFITS EXPERIENCED BY WCSO

CLOUD

- Access from anywhere/anytime.
- Allows for simultaneous users.
- No more waiting for a latent print workstation.

SECURITY

- Access control integrated into agency identity management system (two-factor authentication with face check).

EFFICIENCY

- Work entire case from desk.
- Fast searches, once 2nd latent is encoded and ready to search, first one is already back.

EASE OF USE

- Everything in one system
- Easy to navigate with familiar terminology and an intuitive layout—fast system navigation.

IMAGE CALIBRATION

- Variable resolution support.
- Scan at 1,200 PPI, with no resampling needed.
- Calibration tools included for photographs.

CONFIGURATION

- Admins can set and adjust quality and score thresholds without relying on the vendor.



IMPACT

Here are just a few of the ways IDEMIA STORM has impacted the WCSO Latent Print Unit:

Trusted Accuracy

- During validation, three examiners searched 33 latent prints (99 total).
- **All 99 searches** matched to expected candidates.
- 87% of impressions led to hits **using Auto-Encode only**.

More ABIS Searches

- Experienced a 26% increase in searches year-over-year.
- Each examiner can use the system simultaneously from their normal work desk or working from home.
- Examiners are more efficient since they no longer need to transfer files to a shared ABIS workstation.

More Completed Cases

- Completed 16% more ABIS cases with the same number of examiners.



WHAT'S NEXT?

- STORM is designed to support continuous improvements.
- WCSO is looking forward to integrating their verification process into STORM.
- After the state of Oregon provides an interface for STORM, WCSO will submit searches to WIN and NGI from the same encoding used for local searches.