

A long-exposure photograph of a beach with several large, dark rocks in the water. The water is blurred, creating a sense of motion. The sky is a pale blue, and the overall tone is cool and serene.

A Testing Foundation for Sharing Latent Identification Services

Tom Hopper
thopper@cogentsystems.com

State & Local AFIS '01

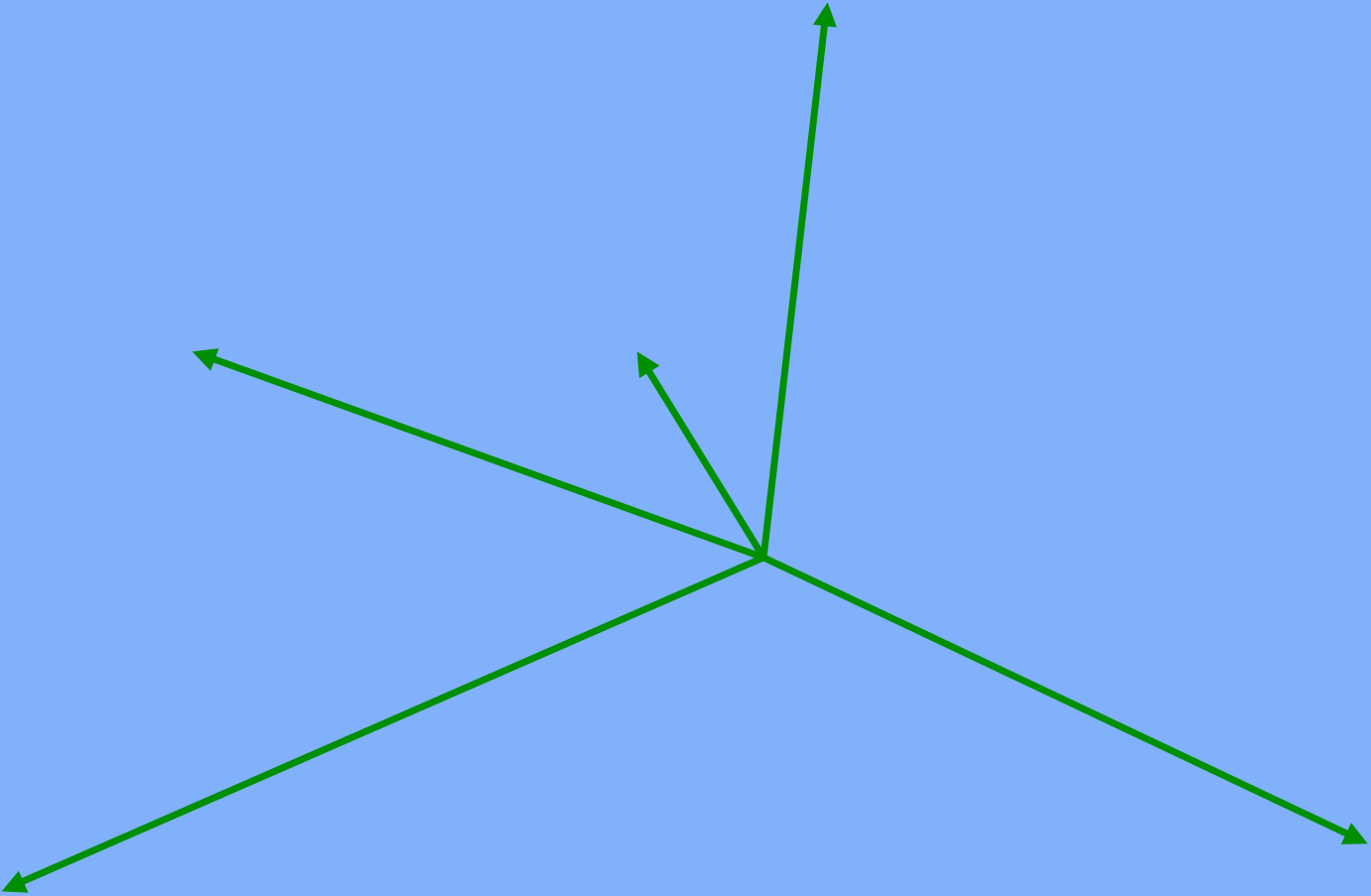


C Oregon
N Nevada
M Missouri
U Utah
I Idaho
A Arizona
F Florida

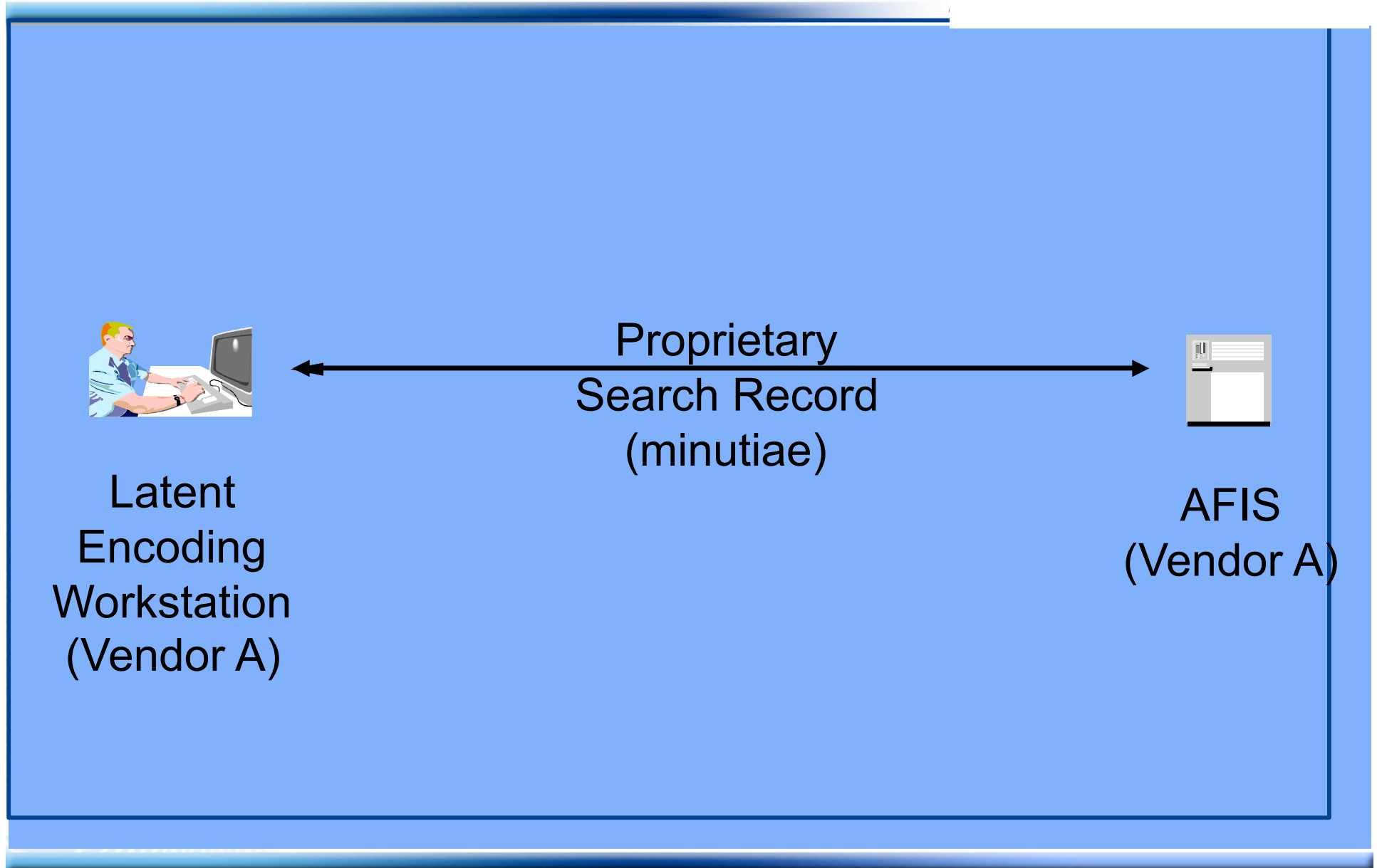
Washington DC



Regional Search



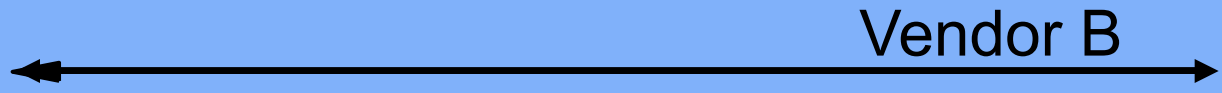
Single Vendor Latent Search



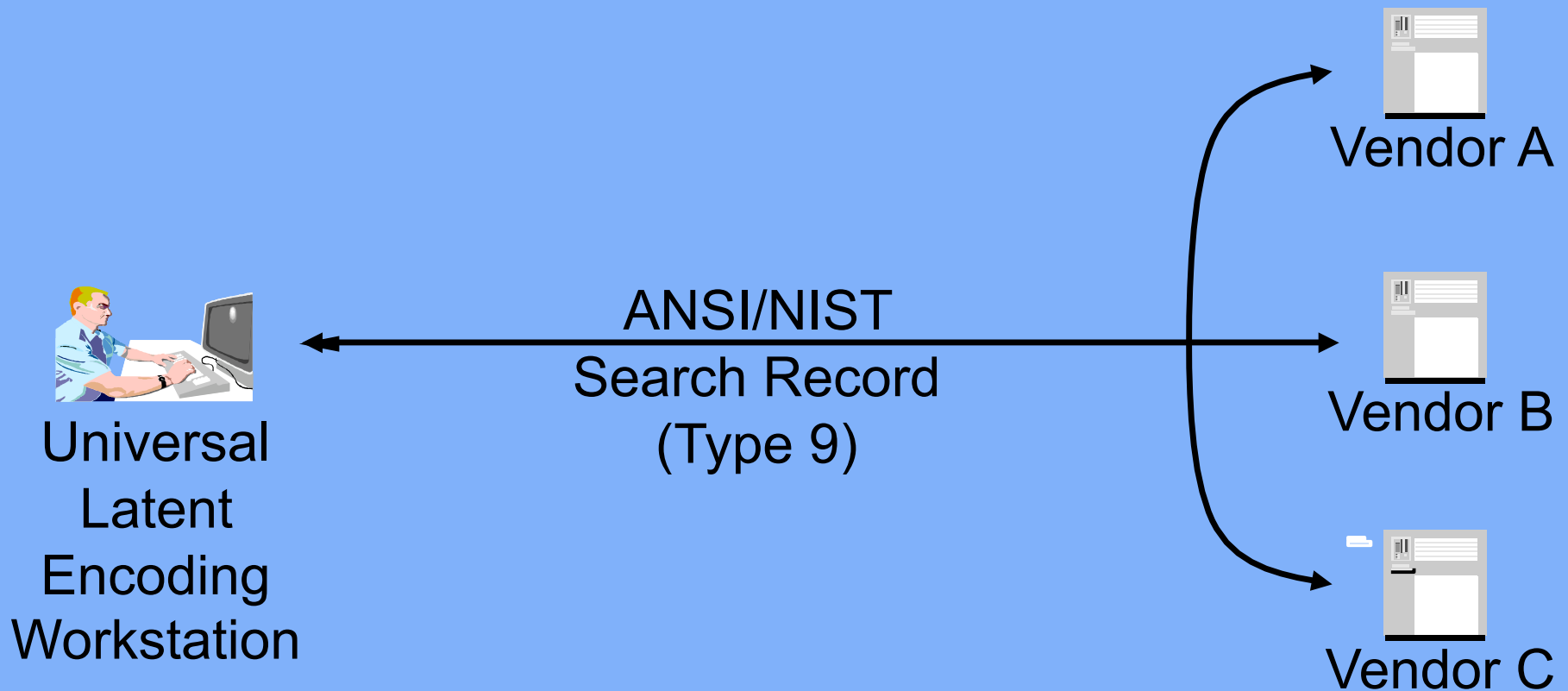
"Regional" Latent Search



COGENT  SYSTEMS



ANSI/NIST (ULW) Regional Search



ANSI/NIST Latent Fingerprint Feature Search

COGENT  SYSTEMS


ANSI/NIST
Data Format

Header 1

Descriptive
Data 2

Image Features
 Minutiae
 Ridge Cnts
 Core
 Delta
4/7 9

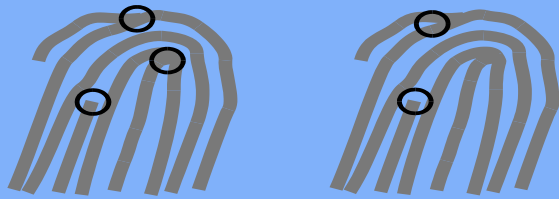
EFTS
Required Fields

**AFIS Vendor's
Specifications**

9:013 ... 9:030 FBI IAFIS feature data
9:031 ... 9:055 Cogent feature data
9:056 ... 9:070 Printrak feature data
9:071 ... 9:099 Morpho feature data
9:100 ... 9:125 NEC feature data

IQS

Feature Placement



Vendor (Standard) Specific Rules

Extended Fingerprint Feature Set

Feature Superset ++

- Minutiae
- Dots
- Incipient ridges
- Protrusions
- Discontinuities
- Pores ...



EFS Based Interoperability



Consistency across search record encodings

- **Examiner placed minutiae – vendor specific**
- **Many “optional” features**



Sharing Latent Identification Services

**An expectation that
cross jurisdictional searches
are full accuracy and
should be available on every AFIS.**