

COGENT  SYSTEMS

BEYOND COMPARISON™

*FIPS 201 Compliant  
Biometric Solutions*

# Our Business



<b>Founded</b>	1990
<b>Headquarters</b>	Pasadena, CA
<b>Years Profitable</b>	15
<b>Number of Employees</b>	150

## Product

Advanced Fingerprint Biometric Solutions

## Product Generations

5

## Solution Implementations

190 worldwide implementations in over 50 countries

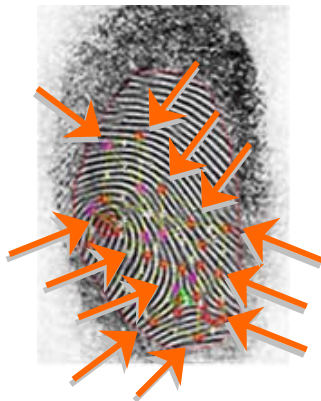
# Cogent Software Products Simplify the Process

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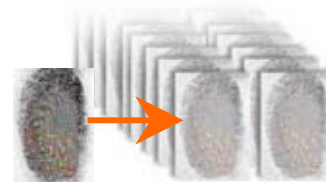
1

Captured



2

Extracted



3

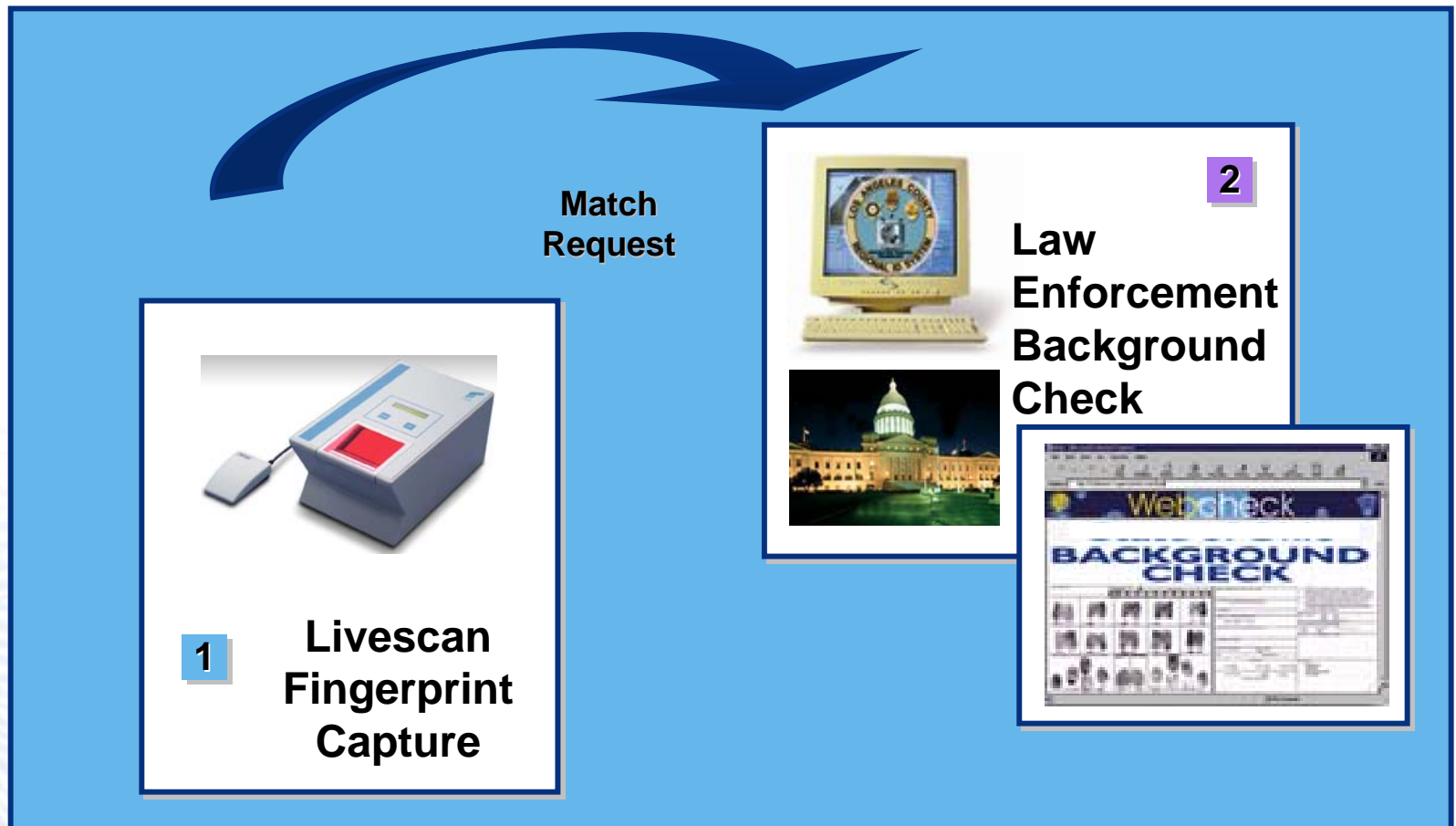
Compared



4

Match / No Match

# Cogent's PIV Solutions – Front End Subsystem



# Cogent's PIV Solutions – Front End Subsystem

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## Fingerprint Submission Hardware

- FBI Certified
- 500 PPI
- No moving Parts

## Fingerprint Submission Software

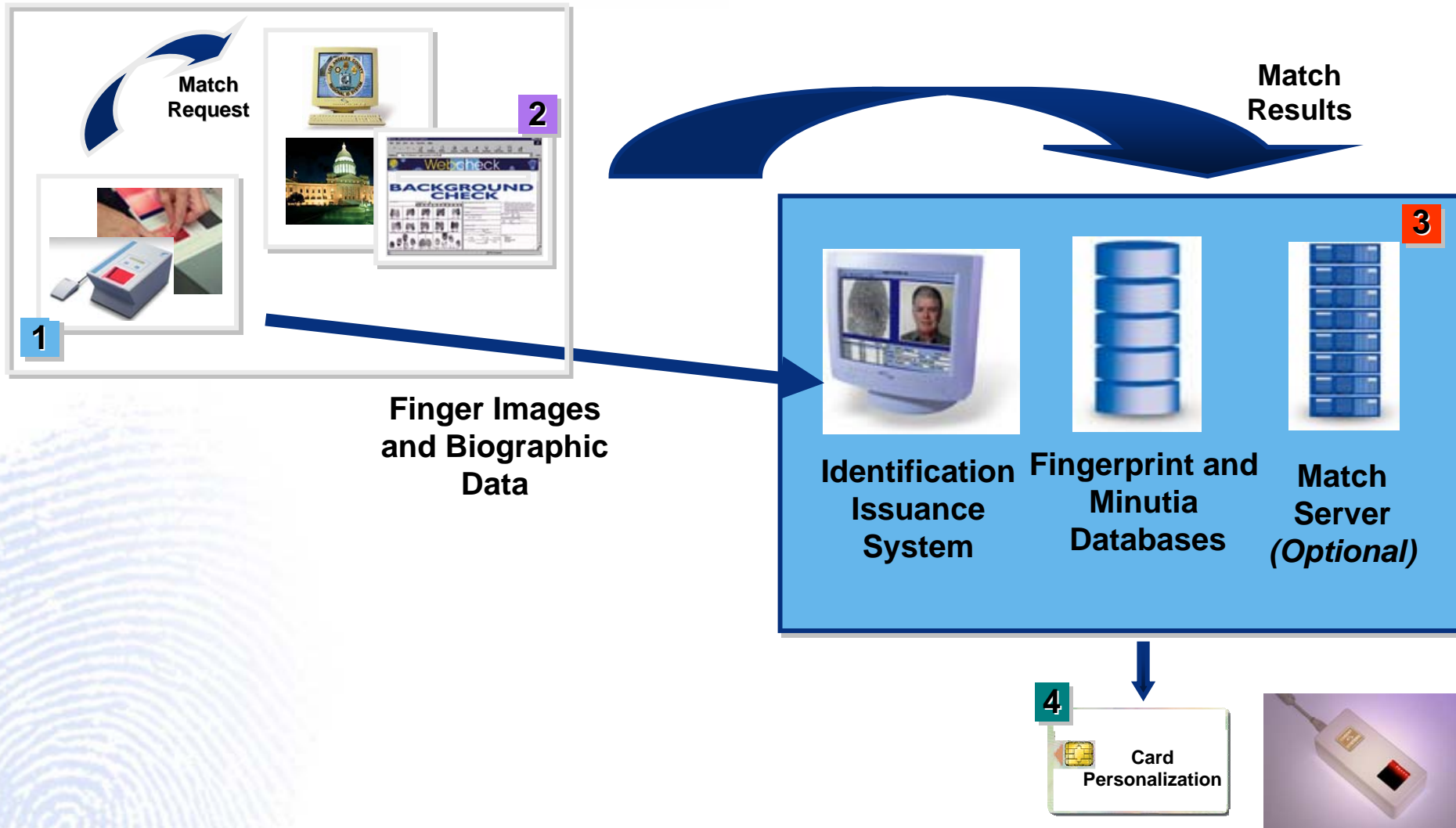
- Fingerprint Quality Check
- NIST Certified Top-tier performing Fingerprint Segmentation
- Drop Down Boxes and Automatic Error Checking to Facilitate Data Entry
- FBI Certified WSQ software
- Complete FBI Fingerprint Background Check Submission Package



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# Cogent's PIV Solutions – Card Issuance Subsystem

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# Cogent's PIV Solutions – Card Issuance Subsystem

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## Optional AFIS -- 1:N Fingerprint Search

- Software and/or based Identification to ensure single card issuance
- Fingerprint search speeds from 5,000 fingerprints per second to 2,000,000 fingerprints per second

## Identity Verification

### Single Fingerprint Scanner

- 500 DPI
- USB Connection
- 1 inch x 1 inch Platen

### 1:1 Verification Software

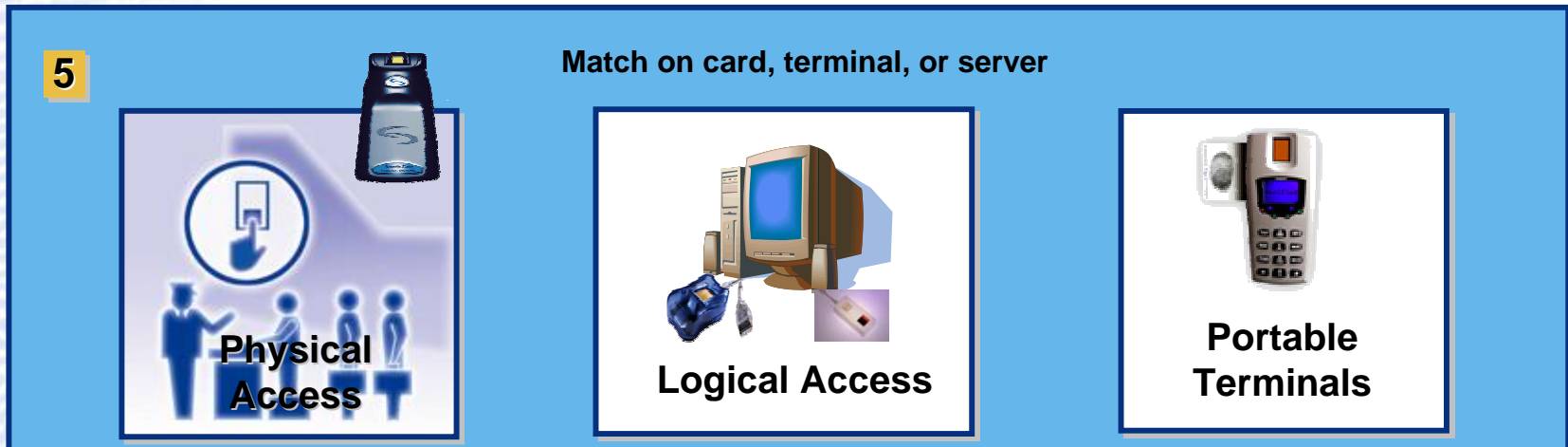
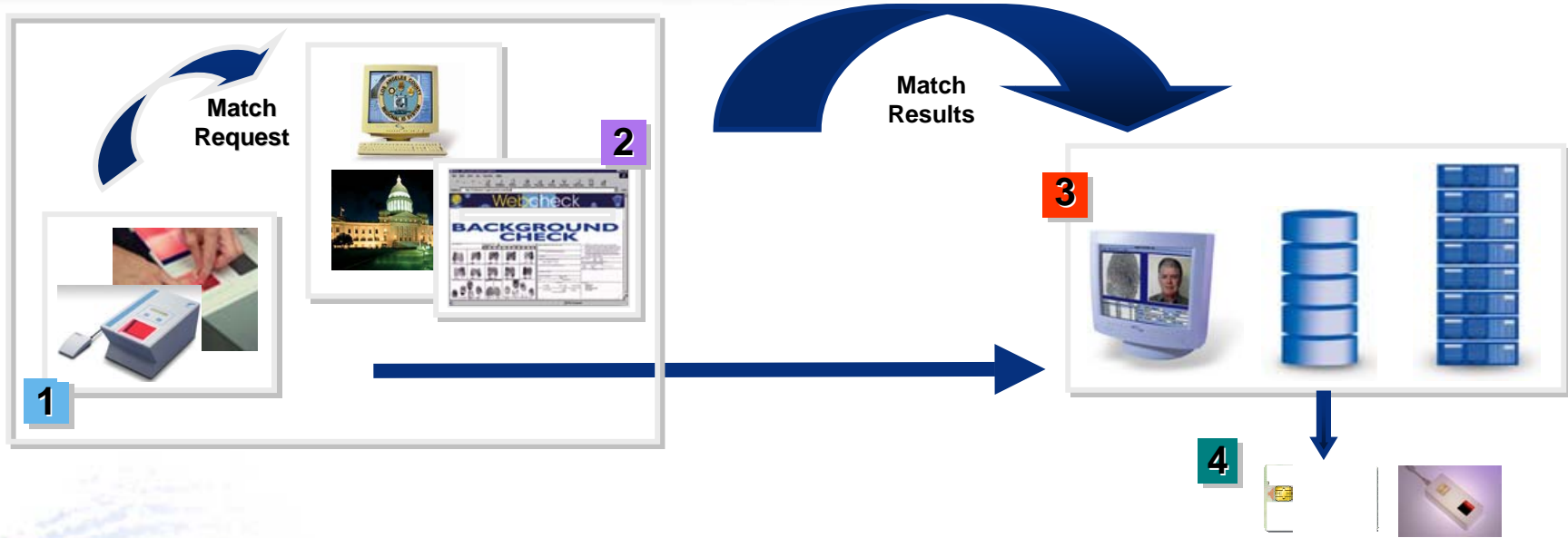
- NIST Certified Top performing Fingerprint Matching Algorithm



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# Cogent's PIV Solutions – Authentication Subsystem

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# Cogent's PIV Solutions – Card Issuance Subsystem

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- Smart-Gate

- 1:1 verification against template stored on standard **ISO 14443 A/B (MiFare) smartcards**
- Using 3DES encryption for template storage on SmartCard
- Matching is performed on the **SmartCard or device**
- Allows users to maintain possession of their biometric data providing peace of mind of users
- RS485 or Ethernet communication
- Customizable Wiegand I/O



- SC-Gate

- 1:1 verification against template stored on standard **ISO 7816 Smartcards**
- Using 3DES encryption for template storage on SmartCard
- Matching is performed on the **SmartCard or device**
- Allows users to maintain possession of their biometric data providing peace of mind of users
- RS485 or Ethernet communication
- Customizable Wiegand I/O



# Cogent's PIV Solutions – Card Issuance Subsystem

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- Smart-Gate

- Non-mechanical PIN Pad
- AES Encryption
- Cryptographic Digital Signatures
- Cryptographic Challenge Response
- SHA 256 Encryption
- Key Variable Processing using PIN



**Hardware Available in  
Beginning of September**

- SC-Gate

- Non-mechanical PIN Pad
- AES Encryption
- Cryptographic Digital Signatures
- Cryptographic Challenge Response
- SHA 256 Encryption
- Key Variable Processing using PIN

**Both Smart-Gate  
and SC-Gate are  
currently being  
modified to support  
PIV Requirements**

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