

Biometrics and Your Identity

Biometrics:

A unique physical or behavioral characteristic which can practically be collected, stored, and compared against; for the purpose of positive identification.

Biometric Types and Terms

- ◆ Behavioral and physiological
- ◆ Static and dynamic
- ◆ One to one compare
- ◆ One to many searching
- ◆ False Acceptance Rate (FAR)
- ◆ False Rejection Rate (FRR)
- ◆ Failure to Enroll (FTR)

Some Forms of Biometrics

- ◆ Fingerprint
- ◆ Facial recognition
- ◆ Iris
- ◆ Voice recognition
- ◆ Hand Geometry

Other Forms of Biometrics

- ◆ Keystroke dynamics
 - www.biopassword.com
- ◆ Retina Scan
- ◆ Palm Print
- ◆ Signature

How does it work?

1. Capture a Biometric-Enrollment
2. Process the Biometric-Algorithm
3. Store Result-Template
4. Compare-one to one
 - ◆ verification
5. Find-one to many
 - ◆ identification
6. Accept or Reject

How could a biometric be used? For what purpose?

- ◆ Open the door please.
- ◆ Is this the person on record?
- ◆ Who are you?
- ◆ Can this smart card log me in?
- ◆ Am I the rightful owner of this password?

Biometric resources

- ◆ www.bioapi.org
- ◆ www.ibia.org
- ◆ www.biometricgroup.com
- ◆ www.biodigest.com
- ◆ www.biopassword.com

Biopassword for Strong User Authentication

1. BioPassword Network for Windows
2. BioPassword for NMAS (Novell)
3. BioPassword SDK

Summary

- ◆ Biometrics field is old, industry is new
 - Entire industry was \$65M in 1999
- ◆ Not a technology issue but a people issue
 - Due diligence is key
- ◆ Biometrics helps with authentication
 - Nothing is absolute!