

## Biometrics Market: Trends, Opportunities, Issues

ISC East August 14 – 16, 2002 Orlando c. maxine most acuity market intelligence cmaxmost@acuity mi.com



#### Headquartered in Boulder, Colorado Leading Edge Technology Expertise

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#### **Emerging Market Analysis**

- Segmentation Models
- Opportunity Sizing
- Technology Evolution
- Competitive Environment Positioning
- Target Profiling
- Niche Penetration Strategy
- Solution Effectiveness

Products & Services: Newsletter, Reports, Consulting





# Biometrics Market: Trends, Opportunities, Issues

- Biometrics Basics
- State of The Industry
- Benefits of Biometrics
- Market Drivers
- Case Studies
- Deployment Issues
- Strategies For Success
- Biometrics Today ...
- ...And in The Near Future



#### **Biometrics Basics**

What are Biometrics?

Measurements of physical or biological characteristics of an individual to create a unique identifier which can be electronically stored, retrieved, and compared for positive identification purposes.



#### **Biometrics Basics**



Finger

Iris

Hand

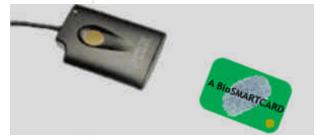


Voice

Signature

Keystroke





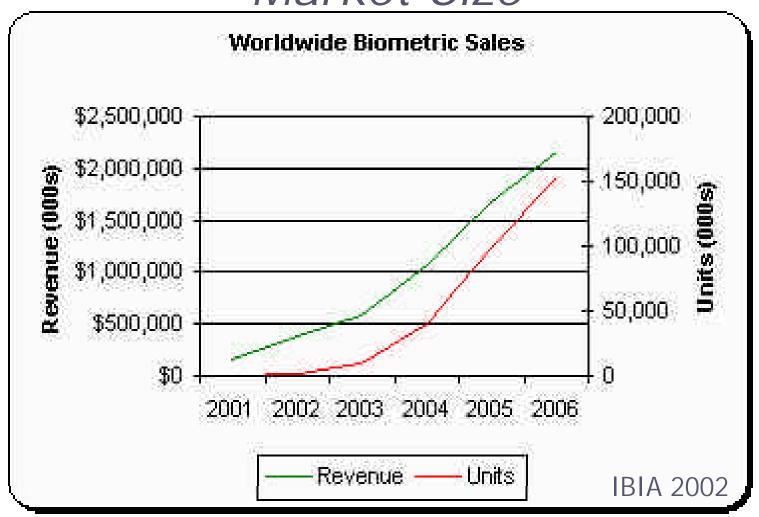


For More Information: homepage.ntlworld.com/avanti



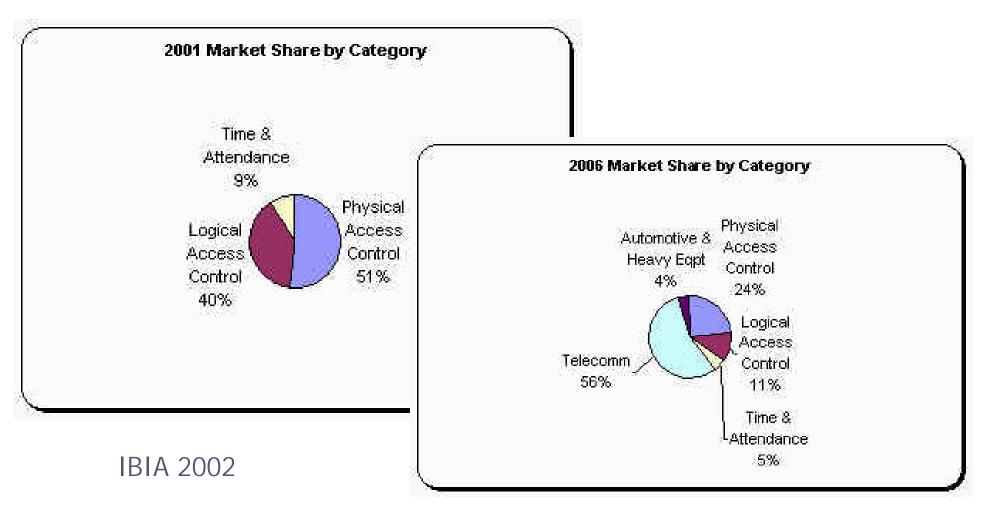


### State of The Industry Market Size



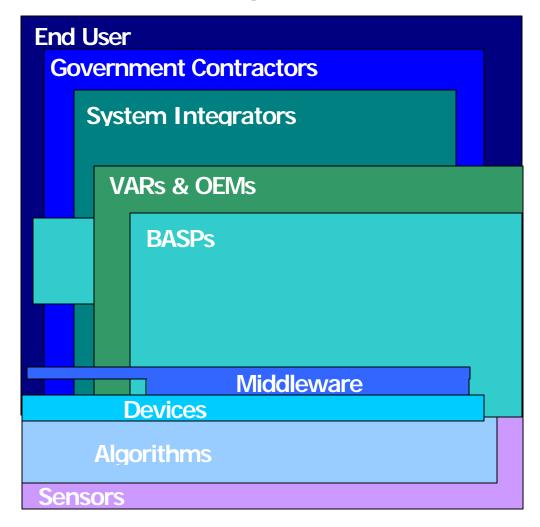


### State of The Industry Market Size



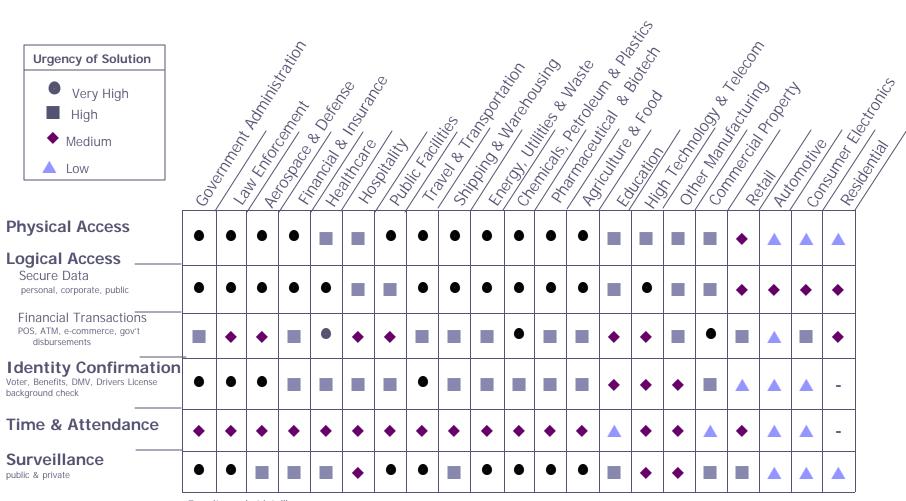


## State of The Industry Players





### State of The Industry Vertical Segmentation



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#### Benefits of Biometrics

- Reduced Costs
  - Pin/Password Maintenance
  - Eliminate Buddy Punching
  - Reduces Paperwork
- Increase Security
  - NO Shared or Compromised Passwords/Pins/Badges
  - Provides Audit Trail
  - Prevents Impersonation Reducing Fraud, Identity Theft
- Convenience and Control
  - Faster Login
  - No Password/Pin to remember or reset
  - Control Access to Confidential Information
- Accountability/Non-Repudiation
  - Link to Identity Not Possession or Knowledge "something you are, not have or know"



#### Market Drivers

- Post 911 Security Frenzy
- Price/Performance Curves Dropping
- Accuracy/Reliability Improving
- End User Awareness/Acceptance Increasing
- Proven Deployments
- Shift From Technology to Integrated Solutions
- Government Programs CAC, TWIC
- Legislation/Regulation HIPPA, GRAMM-LEACHY, Electronic Signature, Border Security, PATRIOT
- Corporate PC Replacement42% 24-35 months old 25% 36-47 months old



## Case Studies - Transportation

Organization/Location	Application	Biometric	Status
Ben Gurion Airport	Identity Confirmation - Immigration Trusted Traveler	Hand	Deployed
Schiphol Airport	Identity Confirmation - Immigration Trusted Traveler	Iris	Deployed
St. Petersburg - Clearwater Airport	Cooperative Surveillance	Face	Deployed
O'Hare Airport & ATA	Logical Access - Electronic Supply Chain Manifest	Finger	Testing
Union Pacific Railroad	Logical Access - Rail Car release	Voice	Deployed
Canadian National Railways	Physical Access - Outside Suppliers	Finger	Deployed
Rotterdam Seaport	Physical Access - Outside Suppliers	Hand	Deployed
Schiphol Airport	Physical Access - Employees	Iris	Planned
DOTs TWIC	Employee Physical Access	Finger & Face	Planning
IATA, Visa,	Identity Confirmation - Immigration Trusted Traveler	Considering	Concept

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### Case Studies

Organizations	Application	Biometric	Market
Casinos	Surveillance - Non Cooperative	Face	Hospitality
Thrift Way, Kroegers, McDonalds	Logical Access - POS	Finger	Retail
Clinical Drug Trials	Logical Access - Researchers	Signature	Pharmaceutical
First Tennessee Bank	Physical Access- Customer Vault	Hand	Financial Services
American Express	Physical Access - Employees	Finger	Financial Services
Pennsylvania Public Schools	Logical Access - POS: School Lunch Program	Finger	Education
Disneyworld	Physical Access - Season Pass Holders	Two Fingers	Entertainment
Fidelity	Logical Access - SSO	finger	Financial Services
Asia, Europe, Africa, S. America	Identity Confirmation - Citizen ID	finger	Government



### Deployment Issues

- Define Total Problem
- Value Appropriate Solutions
- User Base Considerations
  - Size, Characteristics, Acceptance
- Test, Pilot, Deploy
- Enrollment & Education
- Environment
- User Support
- ID Management
- Interoperability & Scalability
- Database Management, Control
- Privacy Concerns



### Strategies for Success

- Vertical Focus
- Identify and Target Niches
- Solutions Oriented Whole Product
- Partnerships & Alliances for Expertise
- Start With Small < 50K, Constrained, Closed Loop Applications
- Leverage Niche Successes into BIGGER Wins



### Biometrics Today...

- Transition High Security to Regulated Industry & Commercial Solutions
- Small Closed Loop Applications
  - Well constrained
  - Less than 50,000 users
- Government Public Safety Initiatives Slow Going
- Security Perceived Driver BUT Process Improvement & Operational Efficiency DRIVE ADOPTION



#### ... And in the Near Future

- Ubiquitous Use in Commercial Enterprise
  - Physical & Logical Access, Identity Confirmation, Time
    & Attendance
- Large Scale Systems "Public Safety"
  - Transportation, Immigration & Border Control, Citizen Identification
- Integrated Account Management & Transactions
  - Financial Services, Telecom, Retail
- Legislative & Regulatory Control to Protect Privacy
- Value Proposition and ROI Main Drivers



# MARKET INTELLIGENCE

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