

# The Industry response to market demands

*What technologies are available today to support efficient and reliable access control and IT security?*

## Major Security Industry Trends

2006 - 2010

Global Security Forum

Vienna, 6 July 2006

# Content

**Change Drivers - Technology**

**Change Drivers - The Need**

**Industry Response**

**CCTV & Video**

**RFID, Smartcard technology**

**Convergences**

**Summary**

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## Change Drivers - Technology

### Video Technology

- Digital cameras
- Mass storage of video
- Data mining & intelligent video
- Predictive video ?



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## RFID

- 13.56 M HZ & UHF
- Biometric integration
- Micro controller technology



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- Remote host systems
- Integration with IT infrastructure

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## Biometrics

- New Sensors
- Algorithm advancement
- Next generation

Photo courtesy of Recognition Systems

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## Change Drivers - The Need

### Terrorism

September 11<sup>th</sup> New York & Washington , London, Madrid, etc.

### Knowledge Revolution

Today IT security is MORE vital than physical !

Global teams

Private / Public collaborative teams

### Internet & e-commerce

Identity theft crimes

# Security Pre & Post September 11

**FOR IMMEDIATE RELEASE**

APA 50-99

April 15, 1999

Contact: Rebecca Trexler

Phone: 202-267-8521

## FAA Issues Proposed Rule Change On Checked Baggage Security

WASHINGTON—The Federal Aviation Administration today proposed to strengthen domestic aviation system. The proposed rule, implements a key recommendation by the Security and Safety led by Vice President Al... cant security enhancements recommended... proposal would require airlines to apply

additional security to the checked baggage use of automated screening procedures to apply additional security to all checked baggage to include a massive deployment of so-called walk-through carry-on bags, computerized traceable screeners, greater numbers of FAA certified airports, and expanded FAA-industry... "Domestic aviation security is at a new level we've made in the last few years. The importance of the new procedures contained in today's proposal forward to start instituting them," said FAA Administrator... voluntarily implemented... airlines made it possible for nearly every passenger flying... Wednesday, October 1, 1997 Contact: Bill Mosley... procedures and equipment have lessened passenger inconvenience the process. The Computer Assisted Passenger Security System, for instance, would replace a manual program subject to human error with an automated system... sensitive security information, scrutinizing all checked baggage consuming, but the CAPS system will screen out the majority and allow airlines to concentrate on only those authorized... system. CAPS uses data from the airlines' reservations systems two ways: some baggage is selected through pre-programmed criteria, while other bags are chosen for screening on a random basis. For the most part, passengers will never



U.S. Department of Transportation

**Homeland Security**



Electronic Code of Federal Regulations

e-CFR

TM

**THIS DATA CURRENT AS OF THE FEDERAL REGISTER DATED**

**FEBRUARY 15, 2002**

security procedures and... Secretary of Transportation Rodney E. Slater said the Department of Transportation will put in place the DOJ recommendations to ensure that airline security screening complies fully with civil

14 CFR  
Aeronautics and Space  
CHAPTER I  
FEDERAL AVIATION ADMINISTRATION, DEPARTMENT OF TRANSPORTATION (Continued)

SUBCHAPTER F -- AIR TRAFFIC AND GENERAL OPERATING RULES

PART 107 -- AIRPORT SECURITY

Subpart A -- General

Sec.

aviation

the vigilant... ers," Slater

to listen... screening

ic Affairs

a follow-up to the... 's (DOJ) review of the...)-mandated airline... ngs that the required... of airline passengers... is moving swiftly to... on on Aviation Safety... senger screening by... Garvey said. "I'm... es will continue to

## Security Pre & Post September 11

- Access control systems did NOT perform their intended function

“ We successfully penetrated secure area on 117 (68 percent ) of 173 attempts from the non sterile and sterile areas of the Airport”

“ Once we penetrated secure areas we boarded aircraft operated by 35 different air carriers 117 times”

*Report on Audit of Airport Access*

*Control Federal Aviation Administration*

*Report No. AV-2000-017 November 18, 1999*

- Integration of access control with video & advanced identification technology is critical for security
- Quality of training of security staff & employees is critical

## IT Security Needs

- Up-to-date employee identity management & management of access privileges for
  - Physical buildings
  - Storage cabinets
  - Files & IT database
- Protection & management of consumer identity & records
- Control & security of company networks & infrastructure
  - Video systems increasingly utilizing corporate networks
  - Interface between access control & HR / Personnel data base
- Employee & consumer privacy concerns are a serious issue

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**Industry Response**

CCTV & Video

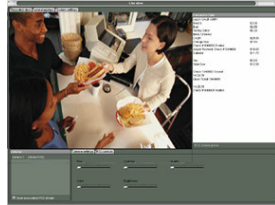
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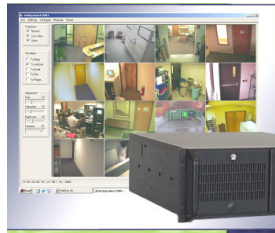
Integration of access control & video is the norm



Emergence of access control systems as “the integrator”

Multitude of DVR technology stand alone & PC based

Video analysis creating “behavior alarms”



Advancement in archiving, data mining & forensics

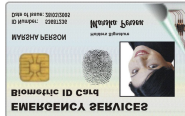
Great strides in IP & wireless technology enabling wider applications for video



Advancement in camera image quality for low lights

## Industry Response ~ RFID & Smartcard Technology

- Accelerate move from low security - low frequency RFID credentials to more versatile read / write 13.56 M Hz technology
- Biometric integration & multi function credentials
- The power of contact chip card technology & dual interface technology
- Multi technology interim solutions
- UHF technology for Cargo tracking applications
- Introduction of RFID Crypto memories & controllers
- Emergence of e-Passports, other identity cards & move from contact chip cards to RFID
- Emergence of NFC and applications for consumer access control





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# Convergences

Video management & access control

Physical & IT security

RFID & Smart cards

Mobile phones & consumer credentials



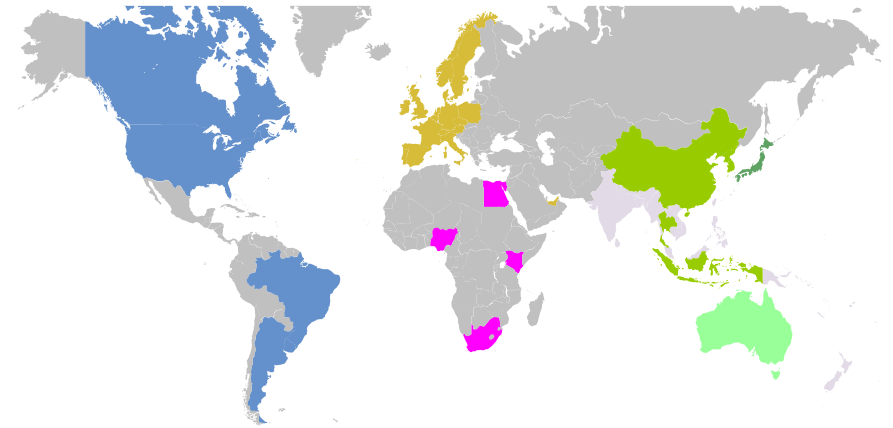
## Summary

- Seamless integration between video & access devices into new security management systems
- RFID Crypto-controller as ideal solution for converging physical & virtual access control
- Continued development in intelligent video
- Advancements in scalable identity & privilege management technology
- Advancement in archiving, data mining & forensic security
- RFID & video privacy concerns will continue to require active cooperation between Governments, industry & advocacy groups

# Newton International Management, LLC

## Strategic consulting and more ...

- Focus on **Security & Identification**
- **Global strategic approach** to marketplace & and “Hands on” implementation and execution
- **Technology assessment**
- **Market strategy assessment** and development
- **Product positioning** and market segment analysis
- **Channel rationalization** and development
- **Acquisition/ divesture** management



## Global Consulting Services