

The security industry response to market demands

Major Security Industry Trends

2006 - 2010

Global Security Forum

Milano 29 November 2006

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Change Drivers - Technology

Change Drivers - Need & Requirements

Industry Response

CCTV & Video

RFID, Smartcard technology

Convergences

Summary

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Video Technology

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



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



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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 - Needs & Requirements

■ Terrorism

September 11th 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 is self-evident. We forward to start instituting them," said FAA Administrator

voluntarily implemented by airlines made it possible for nearly every passenger flying on a domestic flight to have their checked baggage screened by procedures and equipment have lessened passenger inconvenience. The Computerized Airline Security System, for instance, would replace a manual program subject to human error with an automated system that screens baggage for sensitive security information, scrutinizing all checked baggage, but the CAPS system will screen out the majority and allow airlines to concentrate on only those authorized for screening. CAPS uses data from the airlines' reservations system 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
"be vigilant
ers," Slater
s to listen
screening

Public Affairs

a follow-up to the DOJ's (DOJ) review of the DOT-mandated airline security procedures that the required screening of airline passengers. Slater is moving swiftly to implement recommendations on Aviation Safety and Security passenger screening by Garvey said. "I'm confident that these measures 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 serious issues

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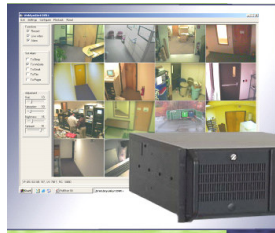
Integration of access control & video is the norm



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
- 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
- UHF technology for Cargo tracking applications



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Convergence ~ Where are we now?

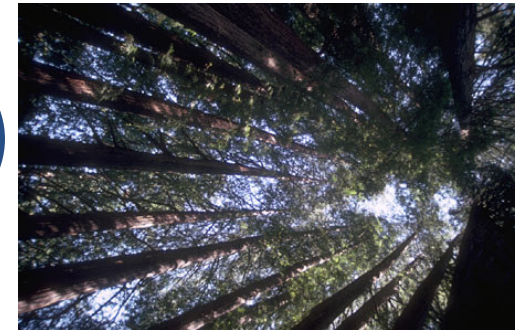
Physical & IT security

and also other convergences

Video management & access control

RFID & Smart cards

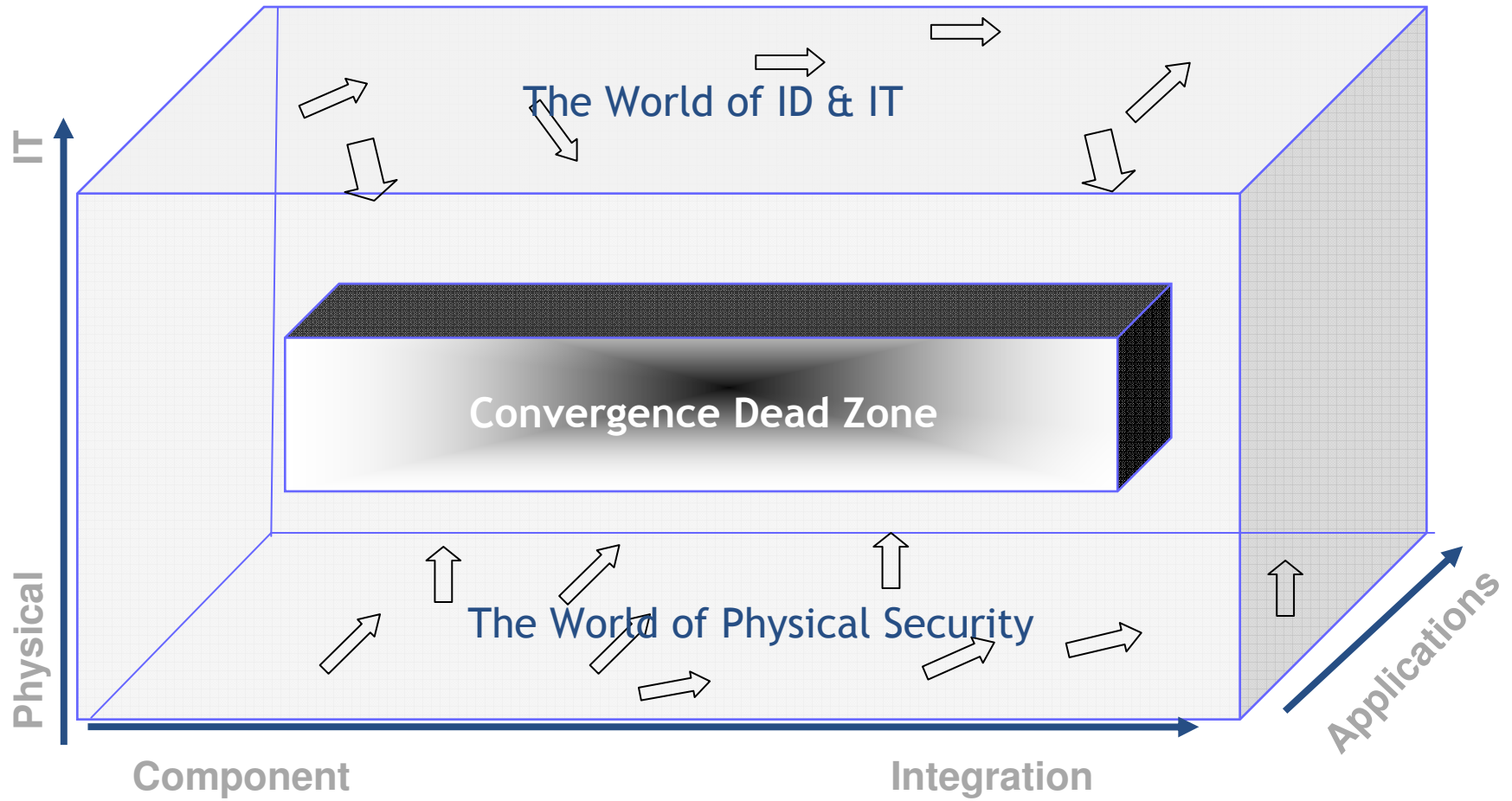
Mobile phones & consumer credentials



The security need at the user level for Physical and IT security is truly converged ...the industry is yet to catch up in a meaningful way

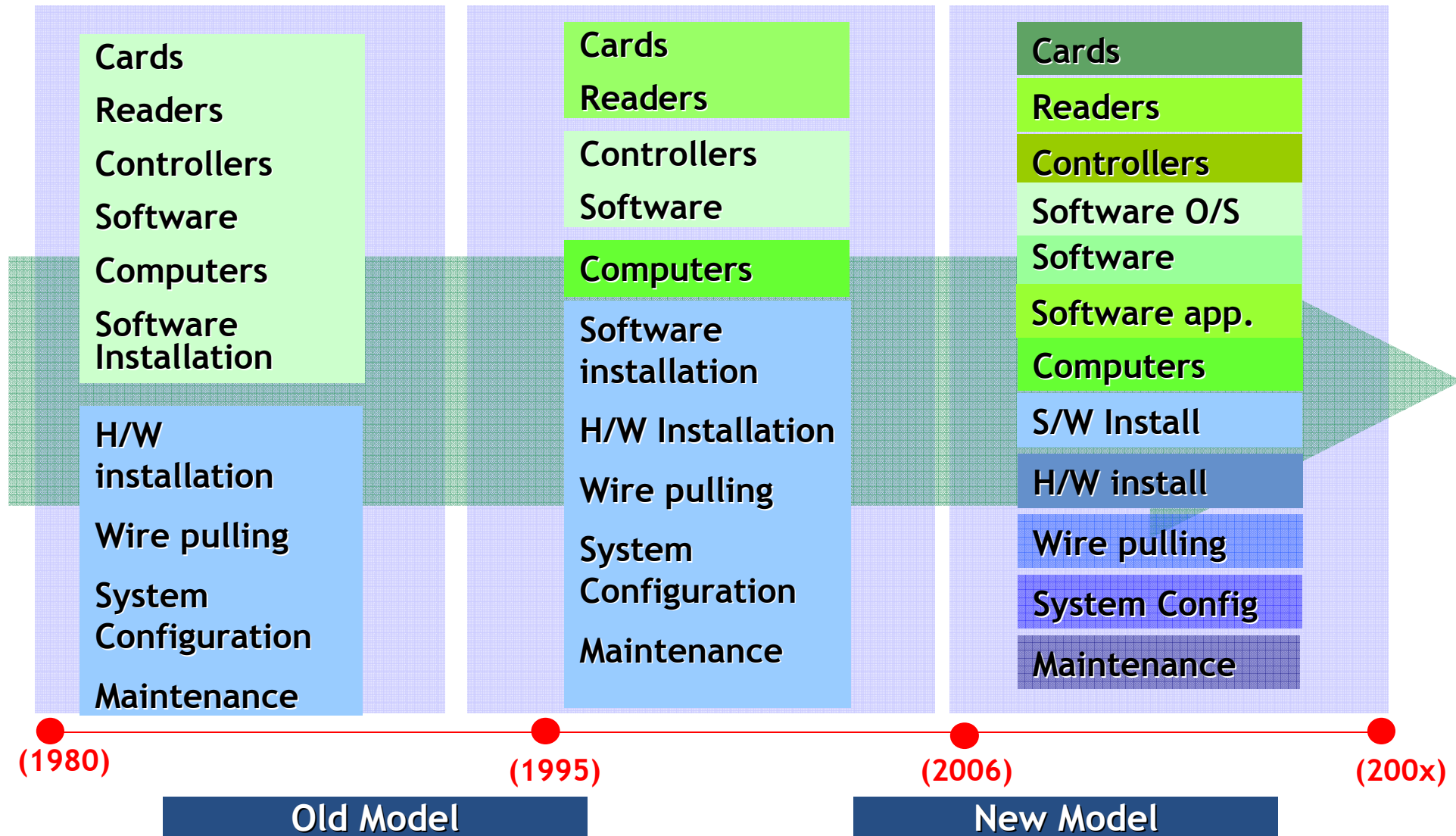
HSPD 12 & FIPS 201 have forced a level of convergence but unfortunately it is “compliance convergence” rather than creative or need / market responsive convergence

Smartcard Landscape

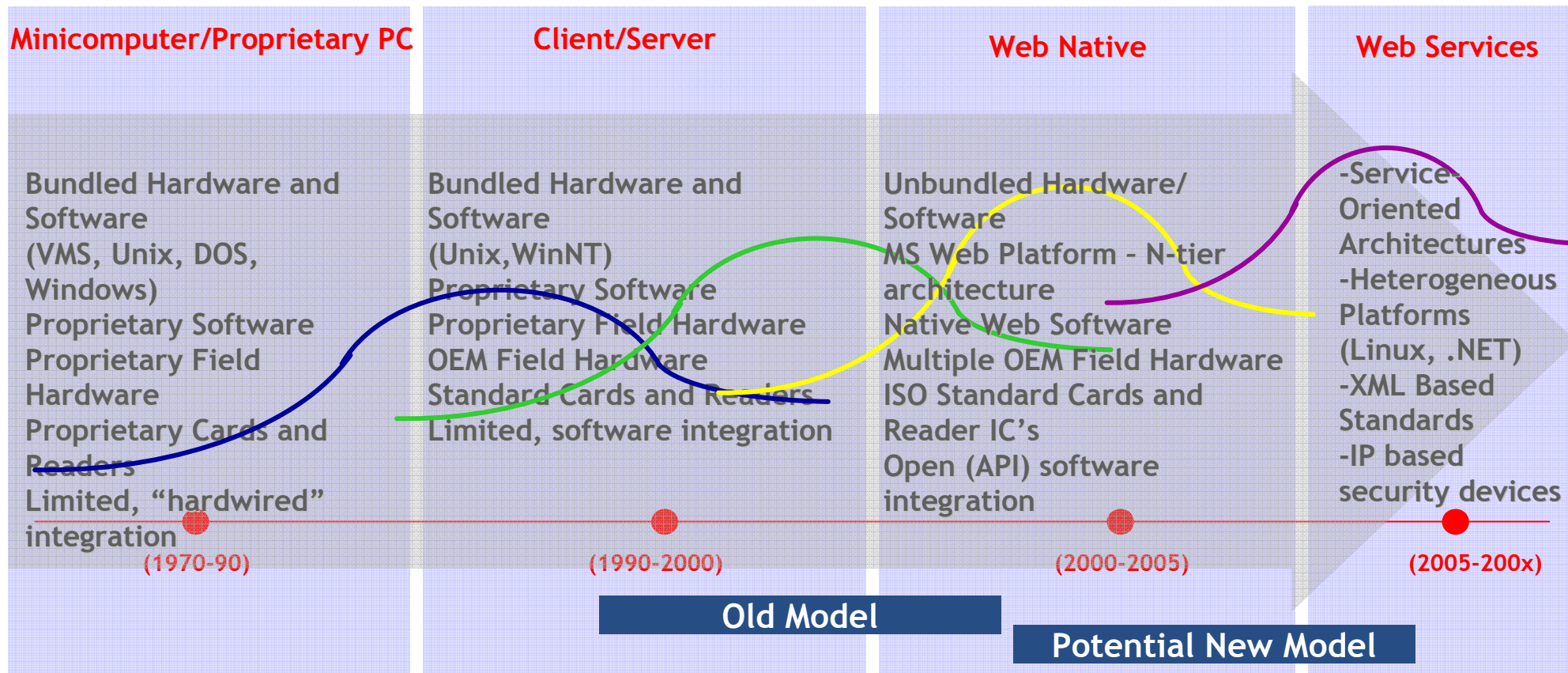


Evolution of the ecosystem of access control

...the unbundling of products and services is conducive to convergence



Technology makes it possible for physical security to evolve and integrate closely with other IT based systems



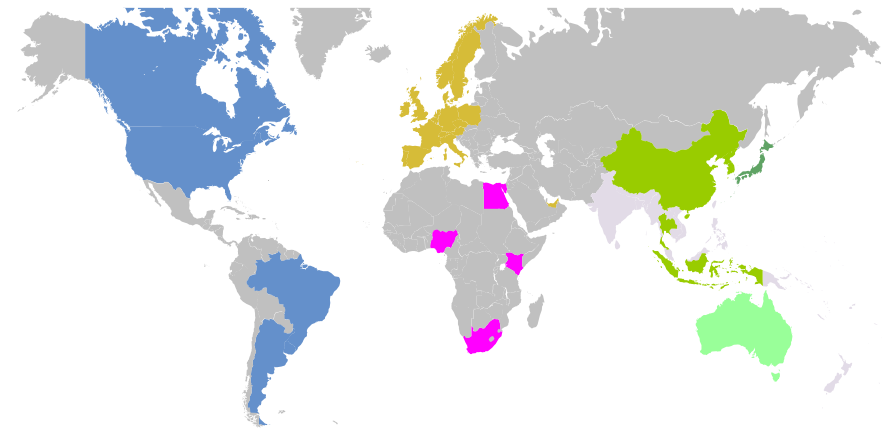
Summary

- Seamless integration between video & access devices into new security management systems
- Continued development in intelligent video
- RFID Crypto-controller as ideal solution for converging physical & virtual access control
- Advancements in scalable identity & privilege management technology
- New class of IT Based vendor neutral integration platform
- 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
- **Market strategy assessment** and development
- **Technology assessment**
- **Product positioning** and market segment analysis
- **Channel rationalization** and development
- **Acquisition / divesture** management



Global Consulting Services

www.newtoninternational.com