



Smart Card
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Smart Cards – Driving Convergence within and across Enterprises

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Drivers

- ❖ **Once a smart credential is adopted the road to convergence begins, smart credentials drive it**
- ❖ **Early commercial adopters have set the stage**
 - ❖ Sun, Microsoft, Shell, Chevron/Texaco, etc.
- ❖ **Global enterprises have parts of their organizations using contactless credentials**
 - ❖ e.g. Europe and Mifare
- ❖ **FIPS 201 has set a standard that others can follow**
- ❖ **FRAC has pushed this out to states and local government and importantly critical infrastructure**
- ❖ **Other government programs follow (US and Global)**



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Driver - Real ID Act

- ❖ **Standardized background checking**
- ❖ **Enrollment**
- ❖ **Issuance**
- ❖ **A standard for establishing Identity**
- ❖ **Makes use of a strong authentication credential (PKI) even more important**
- ❖ **Not your typical access control credential!**



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Driver – Market for Products

❖ Adopters

- ❖ Global commercial users (mostly contactless) ~1 M
- ❖ FIPS 201 (converged credential) ~10 M
- ❖ Transportation Workers Identification Credential (TWIC) ~10 M
- ❖ Registered Traveler ~10 M
- ❖ First Responder Authentication Credential ~20 – 40 M
 - First Response
 - Fire
 - Police
 - EMT
 - First Recovery
 - Critical Infrastructure
 - » Telco
 - » Utility
 - » Financial Institution (ATMs and Insurance)
 - » Transportation
- ❖ Smart Driver's Licenses (US) ~100M+
- ❖ E-passport, National ID and Health Card programs ~ BIG!!!
 - Belgium, Italy, Estonia,
 - England, Germany, Australia
 - Singapore, Malaysia, China, India, etc.





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Impacts

- ❖ **New generation of commercial off the shelf products**
 - ❖ GSA Approved Products List
 - ❖ PKI infrastructure
 - ❖ Dual interface credentials
 - ❖ Biometrics standards
 - ❖ Higher volumes lower costs
 - ❖ New knowledge and skill sets flow into industry, channel, end-users
 - ❖ Profound impact on physical access and IT offerings





Transition – Contactless Infrastructure

❖ Contactless infrastructure for today and tomorrow

- ❖ Compatible with converged credentials
- ❖ ½ of the dual interface solution but can be implemented today
- ❖ Reader technology can be upgraded
 - No significant increase in process or memory required
- ❖ Provides breathing room for the physical and IT groups to work together on convergence
- ❖ Can be installed today!





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Bridge – Role-Based Access Control

❖ Role-based access control

- ❖ Common schema for privileges across doors, desktops and devices.
- ❖ Allows a single directory to drive converged access
- ❖ Allows distribution of intelligence in the same way that panels accomplished this in physical access
 - Card is a device on the network!
 - Bi-directional connectivity will extend all the way to the card.

