Smart Cards in Government Conference

Contactless Card Manufacturing

Arlington, Virginia
20th April 2006
Contactless Card Manufacturing ■ Unwrapped

- Module Packaging
- Inlay Packaging
- Card Manufacturing
- Data Preparation
- Card Personalization
- Card Fulfillment
- Card Management System
Contactless Card Manufacturing ■ Unwrapped

Module Packaging

- Silicon
- Module
- Operating System
- Application
- Quality Assurance
- Reel Assembly
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Inlay Packaging

- Chip package on reel
- Antenna shape and type
- Module mounting
- Collation and lamination (sheet format)
- Quality Assurance
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Card Manufacturing

- Qualifications, standards, certifications
- Sheet printing (format must be consistent with inlay format)
- Sheet collation including inlay
- Sheet lamination including inlay
- Card punching
- Pre-personalization
- Quality Assurance
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- Transparent Overlay
- Core Inlay with Artwork
- Contactless Inlay with antenna and chip module
- Core Inlay with Artwork
- Transparent Overlay
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Data preparation

- Unique to the platform and application
- Static and/or dynamic data
- DES/RSA Keys
- Certificates
- PIN
- Biometrics
- Prepare data off card
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Card Personalization

■ Unique to the platform and application
■ Contactless reader/writer
■ When to personalize the chip
■ Time required to personalize
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Card Fulfillment

- Customer communication/instructions
- Card protection / security features
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Card Management System

■ Card lifecycle management
■ Data to be captured
■ Location of CMS
■ Post issuance activity
We make trust happen.  

Thank you
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