

Introducing Oberthur Card Systems Total IDOne



Oberthur Card Systems Product Offer Best breed of smart card technologies

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Generic name of Oberthur Card Systems' offer for government markets

- High-tech plastic card body
- Security printing
- Dual and Hybrid card manufacturing
- Card Operating Systems
- Smart Card applications
- Software integration
- Services & Personalization





The Key to an Open World

ID-One Cosmo 64 V5 Dual

- 72K EEPROM
- Javacard 2.2,
 - Include support for Dual interface cards
 - More compact code (= smaller applets)
- Global Platform 2.1.1
 - Higher security
- Dual interface (ISO 7816 & ISO 14443)
- FIPS 140-2 LEVEL 3 Certifications in both contact and contactless (Cert 449 July 2004)
- Common Criteria CC EAL level 5+ (August 2004)
- Security already assessed by the NSA
- Support extra high communication speed in contact
 - 64 times faster than current CAC
- Support high communication speed in Contactless too
- Enhanced cryptographic features
 - 3DES tripe keys, AES, RSA, Elliptic Curves...
- Biometric Match On Card

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- Support major MOC algorithms (Precise, Cogent, ID3 etc...)
- Available NOW





PIV-II applet for ID-One Cosmo 64 v5.2 Dual

- Complies with SP 800-73
- Optimized for PIV-II ("End Point") for better performances
 - 10% more compact code than « PIV transitional »
- Support Multiple key values for a given Key Type
 - Ex: One PIV authentication Key with RSA 1024 and one with RSA 2048
 - Give Agencies freedom to select the cryptographic algorithms they want to use.
- Additional features added for flexibility and security
 - Secure Messaging for personalization
 - Sharable interface for PIV data objects to avoid data duplication between applets
 - Change PUK
 - Global PIN verification without leaving the PIV application
 - Support for EF.DIR and read binary
 - Etc...
- AVAILABLE TODAY as an Applet for ID-One Cosmo 64 Dual

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Card Printing: Pros & Cons of Using White cards

Pros

- Shorter lead time to purchase
- Artworks applied during personalization
- Personalization with standard Desktop card printers
- Multiple artworks possible
- Minimize inventory issues
- Great flexibility to change artworks



Card Printing: Pros & Cons of Using White cards

Cons

- Lower Security
 - White card stock widely available
 - Personalization using "any" COTS card printer
 - Reduce the range of security print features
 - Lower resolution
- Higher scrap rate during issuance
 - Dust and contaminations highly visible
 - Special handling and care (white cotton gloves)
 - Heavy cleaning maintenance on printers
- Lower flexibility to change/add card manufacturers
 - Customer artwork vs contactless technology locations.



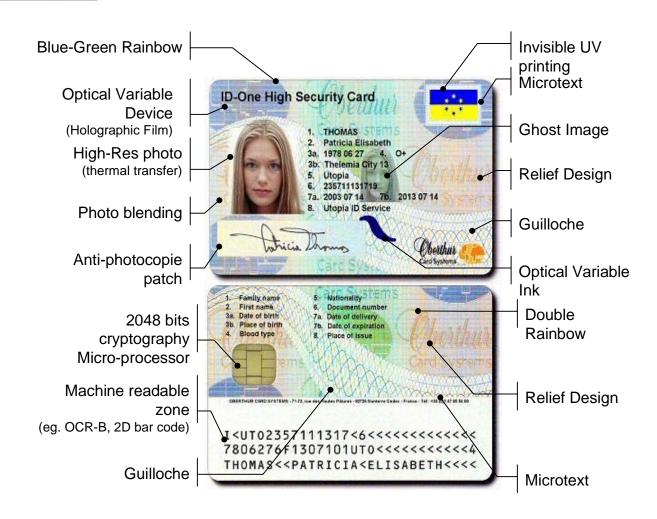
Card Printing: Pros & Cons of Using White cards

Recommendations

- Have all fixed data printed during manufacturing
 - The less you have to print during issuance, the faster it is and better is the yield.
 - Allows artwork over contactless components
 - Hybrid chip, antenna, bridge etc...
 - Add a security background
- Make sure variable printed data are in a printer friendly location
- Beware of security laminate that bring the card outside of ISO specs (extra thickness)
- Work with card manufacturers when defining your artwork to validate feasibility ahead of time.

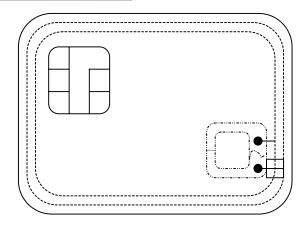


Example of Security Print features

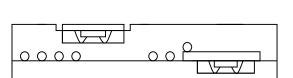


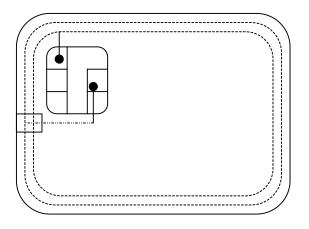


Card Choices: Hybrid vs Dual

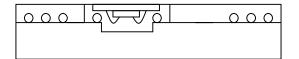


HYBRID = 2 MODULES
(1 CONTACT / 1 CONTACTLESS)





DUAL INTERFACE = 1 MODULE
(WORKING IN CONTACT / CONTACTLESS MODE)





Hybrid vs Dual Interface

Hybrid Pros

Larger choice of chips

Hybrid Cons

- Logistic issues (2 chips vs 1)
 - Chip delivery leadtime
 - Portal to be upgraded to support 2nd chip
 - Data synch between contact & CL
- Issuing stations to be retrofit for contactless personalization
- The card cannot be FIPS 140 certified
 - DESFIRE chips currently not compliant with FIPS requirements
- Twice as many point of failure
- More expensive to produce

Dual Interface Pros

- Single chip solution
- Easy transition from Contact to CL
- No second chip to manage in the Portal
- No need to retrofit issuing station with CL readers
- Higher security than Hybrid
- Full FIPS 140-2 LEVEL 3 certification
- Cheaper to produce

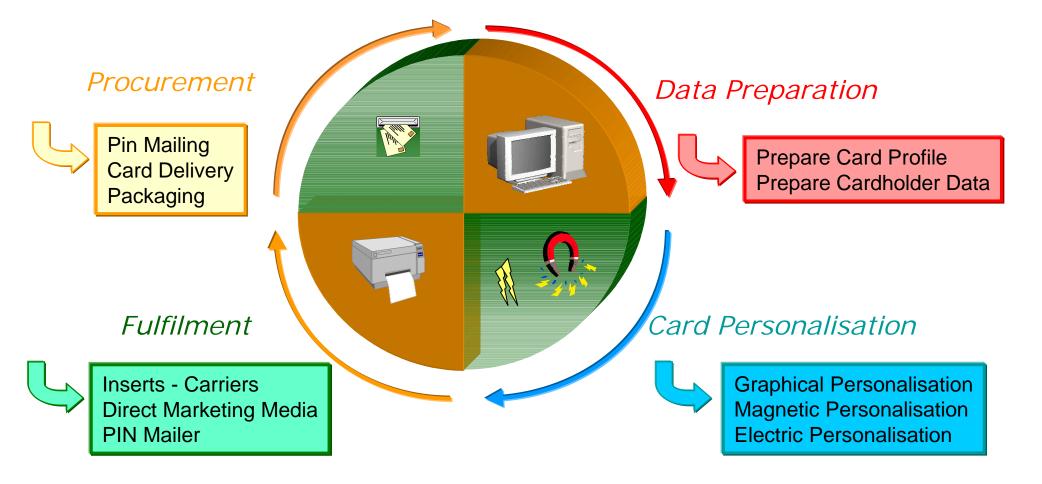
Dual Interface Cons

- New concept
- Customer education needed



PIV Centralized Issuance

Available today from Oberthur





Our Locations

Oberthur Card Systems of America has production sites all over the country from Virginia to California including a state-of-the-art 106,000 square foot facility near Los Angeles for the manufacturing & personalization of both magnetic stripe and smart cards.





Thank You For Your Attention

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