



# The Datapage Substrate Dilemma Paper vs Polycarbonate

ICAO Symposium  
Montreal, October 2012

Isam Aziziyeh

**CONFIDENTIAL**

© 2012 Global Enterprise Technologies Corp. All rights reserved. Information and functionalities subject to revision.



## GET Group at a Glance

- GET worldwide, since 1986
- Offices and affiliates in NA, Europe, Africa and Asia
- More than 20 years of system integration experience
- Projects in more than 15 countries
- A staff of 300 professionals around the world
- Specialized in security travel documents and IDs
- Main customers are MOI, MHA, Police, MOFA

**CONFIDENTIAL**

© 2012 Global Enterprise Technologies Corp. All rights reserved. Information and functionalities subject to revision.



## GET and ICAO

- GET supports the ICAO initiatives to continually improve document security and issuance to increase passenger safety and facilitation

**CONFIDENTIAL**

© 2012 Global Enterprise Technologies Corp. All rights reserved. Information and functionalities subject to revision.



# ICAO Direction for ePassport Validity

- Section IV of Document 9303 – Part 1 (V2) states that:

2.6 In the event that the data from the chip cannot be used, for instance as a result of a certificate revocation or an invalid signature verification, or if the chip was left intentionally blank (as described in 7.1.1 of this Section), the MRP is not necessarily invalidated. In such case a receiving State MAY rely on other document security features for validation purposes.

- Misconception that ePassport chip replaces printed security features
- ICAO dictates that passport is still valid even if Chip is not read

**CONFIDENTIAL**

© 2012 Global Enterprise Technologies Corp. All rights reserved. Information and functionalities subject to revision.



# Now What?

Polycarbonate  
Datapage

OR

Paper  
Datapage

**CONFIDENTIAL**

© 2012 Global Enterprise Technologies Corp. All rights reserved. Information and functionalities subject to revision.



# Polycarbonate Datapage

Feature	Pros	Cons
Durability	Very durable – 10+ years	Surface susceptible to scratching
Security features	Can incorporate many security features – very difficult to replicate	Fewer security features applied during book personalization
Photo	Laser engraved B/W photo ICAO compliant; receptive to color photo	B/W photo can be altered with laser counterfeiting
Splitting	100% PC cannot be split	PC blend can be split and expose some embedded security features
Cost	Minimal consumables; low cost for personalization	PC material expensive, complex to integrate into book

**CONFIDENTIAL**

© 2012 Global Enterprise Technologies Corp. All rights reserved. Information and functionalities subject to revision.



# Paper Datapage

Feature	Pros	Cons
Durability	Durable – proven lifetime in 10 year books	Not nearly as durable as PC; more susceptible to damage
Security features	Security features layered within data page, personalized data and laminate	Lacks tactile, lenticular and effective laser perforation features
Photo	Full tonal color can last 10 years if fade resistant inks are used	Other inks may not last; susceptible to photo substitution
Splitting	Tampering with laminate can be easily detected	Laminate can be separated from paper or overlaid
Cost	Less expensive blank book cost	Consumables increase personalization (overall) cost

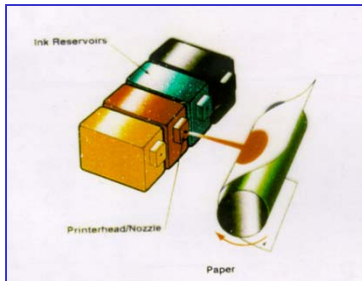
**CONFIDENTIAL**

© 2012 Global Enterprise Technologies Corp. All rights reserved. Information and functionalities subject to revision.

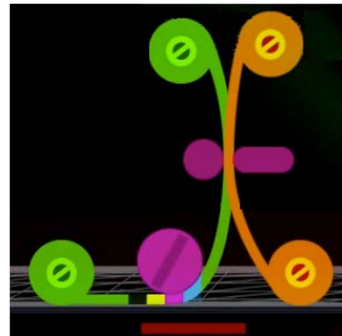


# Existing Passport Digital Personalization Technologies

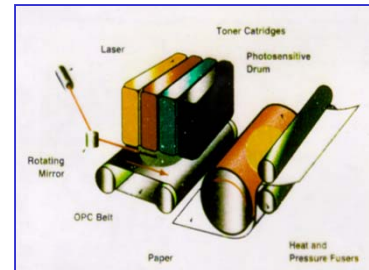
**Inkjet Printing**



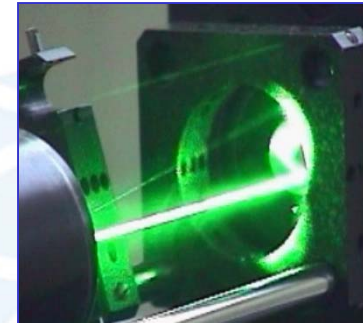
**Reverse Transfer**



**Color Laser Printing**



**Laser Engraving**



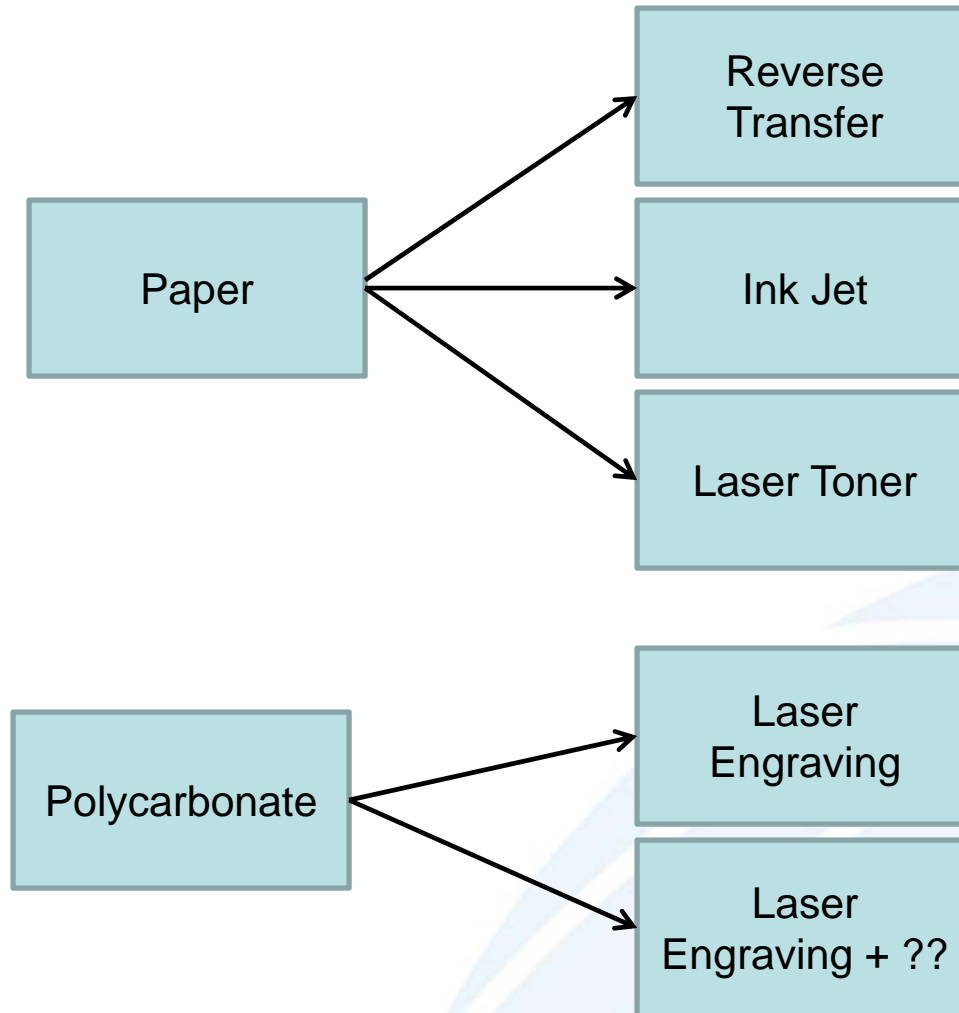
**CONFIDENTIAL**

© 2012 Global Enterprise Technologies Corp. All rights reserved. Information and functionalities subject to revision.





## What Does This Mean For You?



**CONFIDENTIAL**

© 2012 Global Enterprise Technologies Corp. All rights reserved. Information and functionalities subject to revision.



## GET is Here to Help

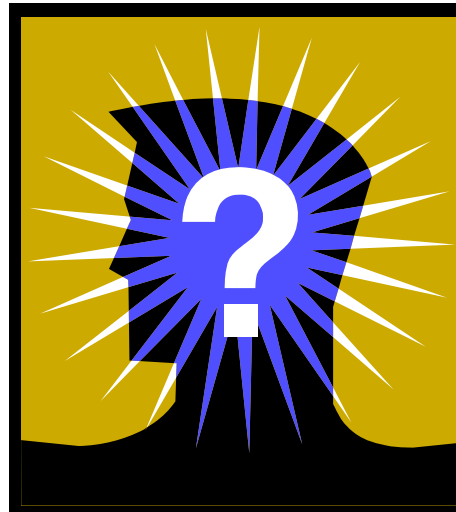
- ANALYZE your needs
- DEVELOP solution recommendations
- IMPLEMENT a system that best meets your needs
- PROVIDE technologies and supplies
- SERVICE locations around the world

**CONFIDENTIAL**

© 2012 Global Enterprise Technologies Corp. All rights reserved. Information and functionalities subject to revision.



# Questions



**Isam Aziziyeh**

Senior Vice President

230 Third Ave.

Waltham, MA 02451

USA

Office: +1 (781) 890-6700

Mobile: +1 (617) 775-2561

Fax: +1 (781) 890-6320

E-mail: [iaziziyeh@getgroup.com](mailto:iaziziyeh@getgroup.com)

**CONFIDENTIAL**

© 2012 Global Enterprise Technologies Corp. All rights reserved. Information and functionalities subject to revision.