



< **Let's
Talk**

*Global Travel Identity PKI:
2011 Update*

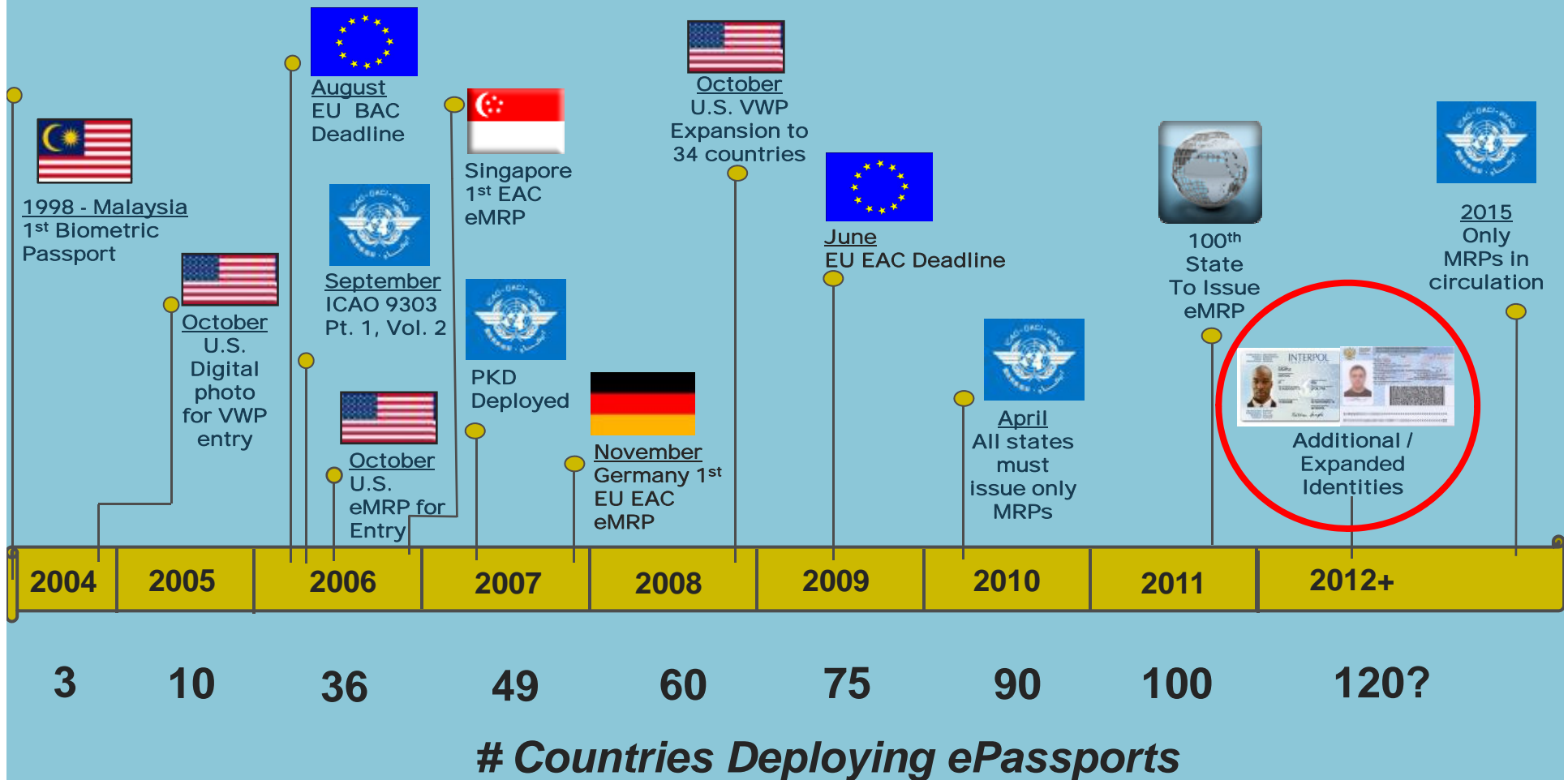
Craig Delmage, CISSP
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Entrust - World leader in Identity Solutions



- **Global security solutions provider**
- **Software & Cloud Identity Solutions**
 - **PKI, SSL, IDM, Credentialing**
- **HQ (US), R&D (Canada), Offices (Lots)**
- **Pioneer: 1st commercial PKI – 1995**
- **1500+ global PKI deployments**
- **16 ePassport Projects**
 - **US, Canada, UK, New Zealand, etc.**

The March of Travel Identities Major Milestones (1998 - 2015)

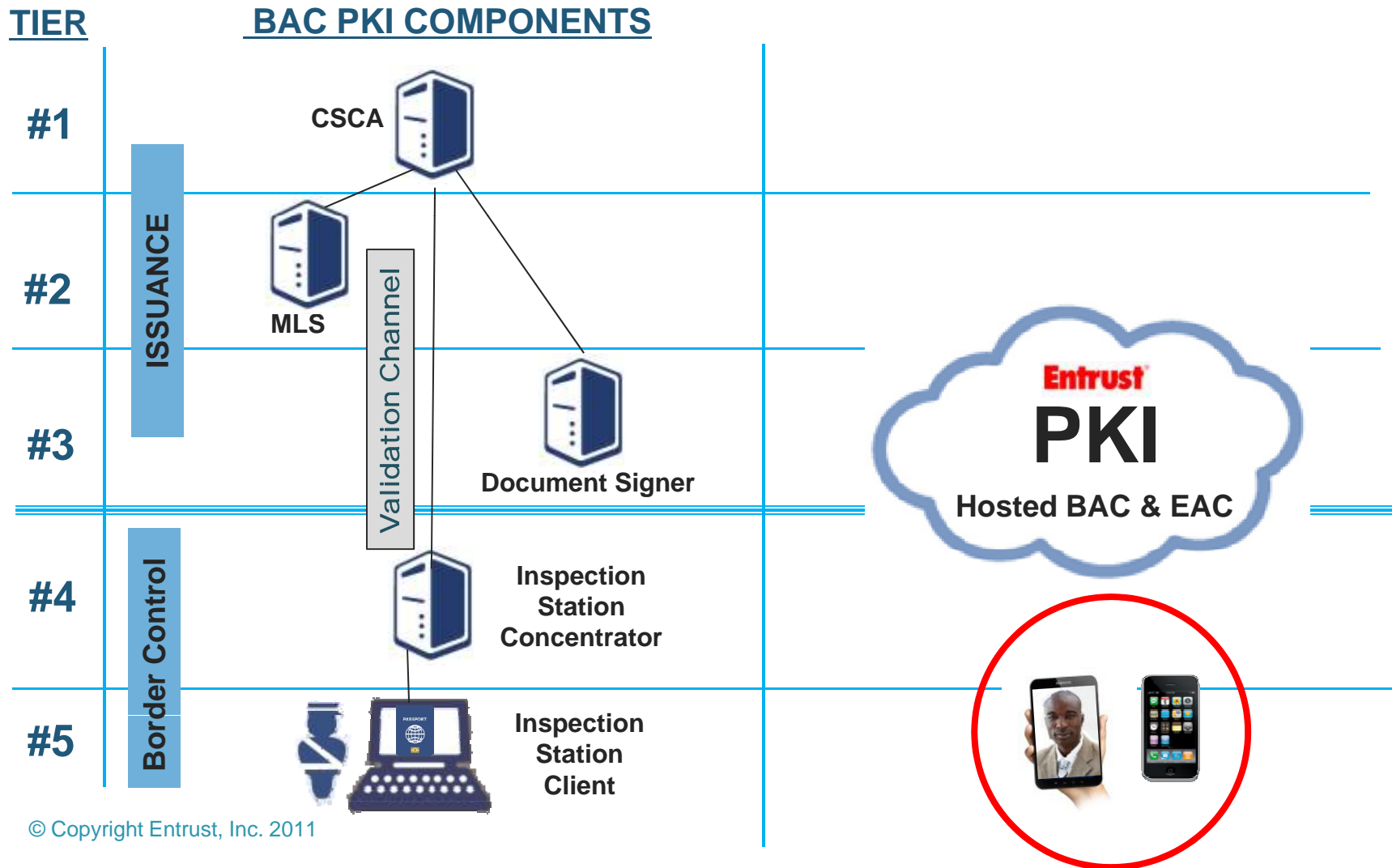


BAC PKI Progression



- 2006: ICAO 9303 Standards
- 2007: PKD deployment
 - ~27 countries, ~10 pending
- 2008: PKD Master List Signing (MLS)
- 2010: Validation channels
- 2011: Supplemental Access Control (SAC)
- **2012: Cloud PKI / Mobile PKI**

BAC: 5 Tier PKI Architecture

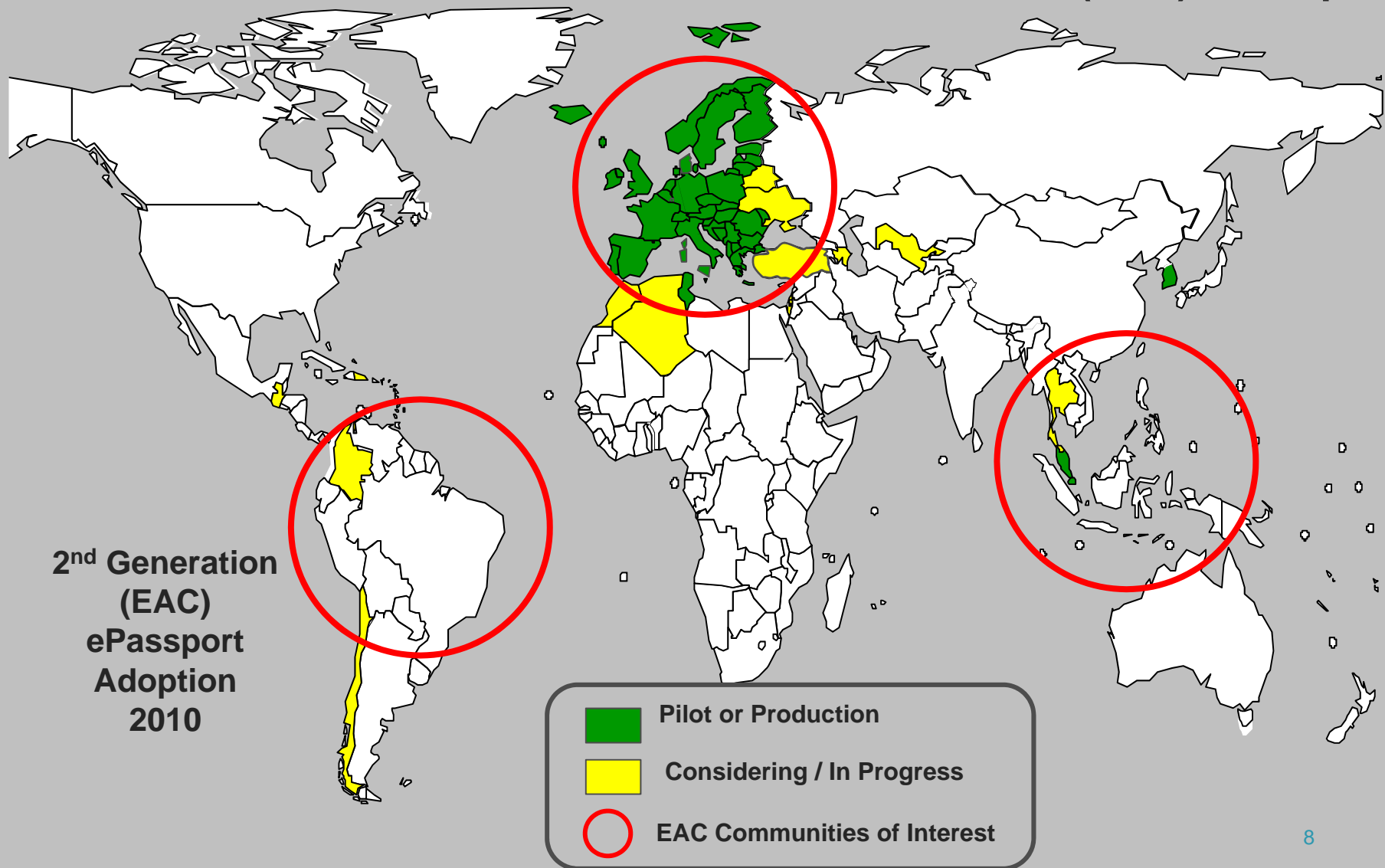


EAC PKI Progression






- 2006: EU EAC specification
- 2009: EU SPOC specification
- 2010: Validation channels
- 2010: Emergence of other ‘communities of interest’
 - Asia, Latin America
- 2011: Other applications (National ID smart cards)
- 2012: LDS 2.0, Border Control Optimization
- **2012: Cloud PKI / Mobile PKI**

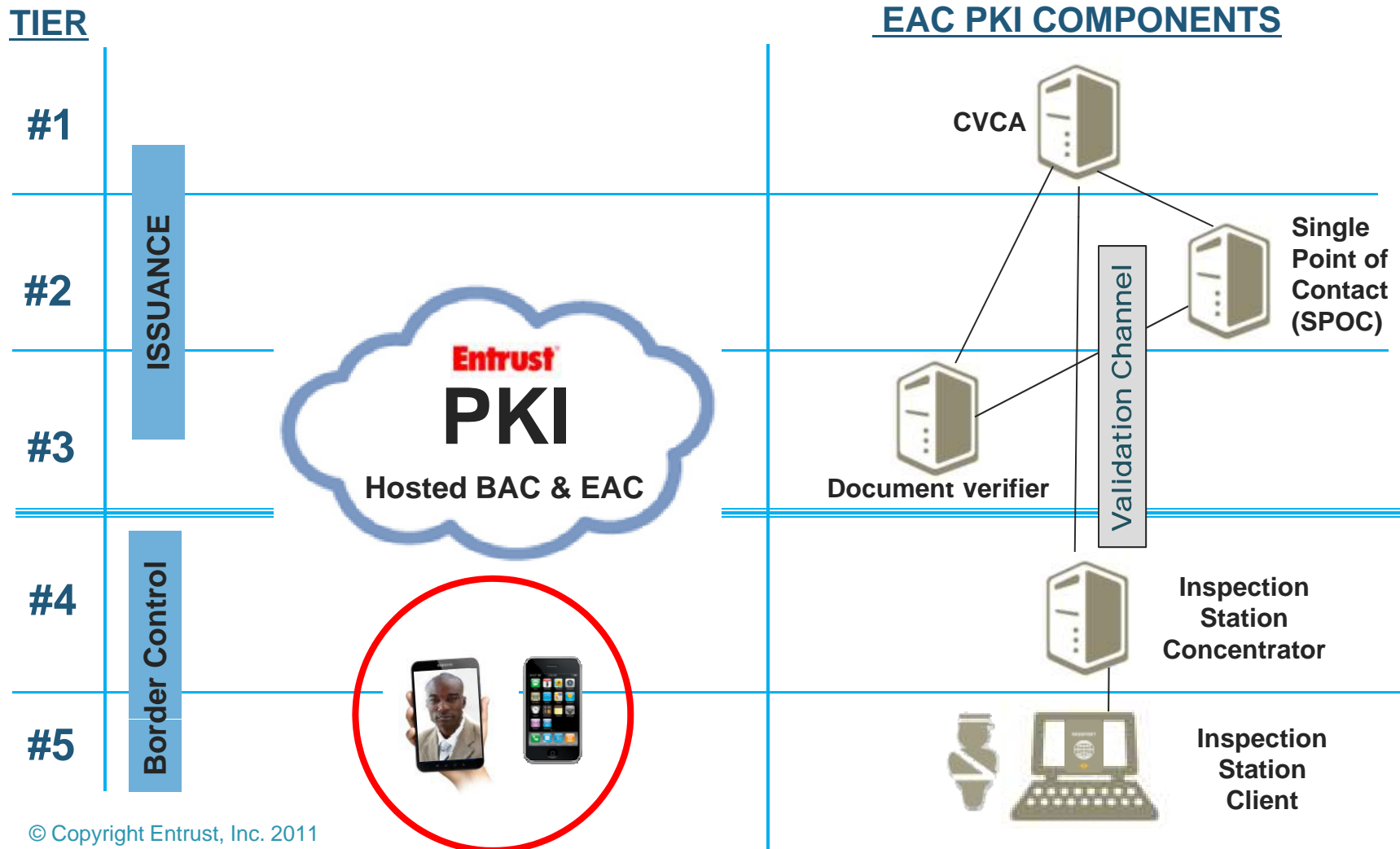
2nd Generation (EAC) ePassport



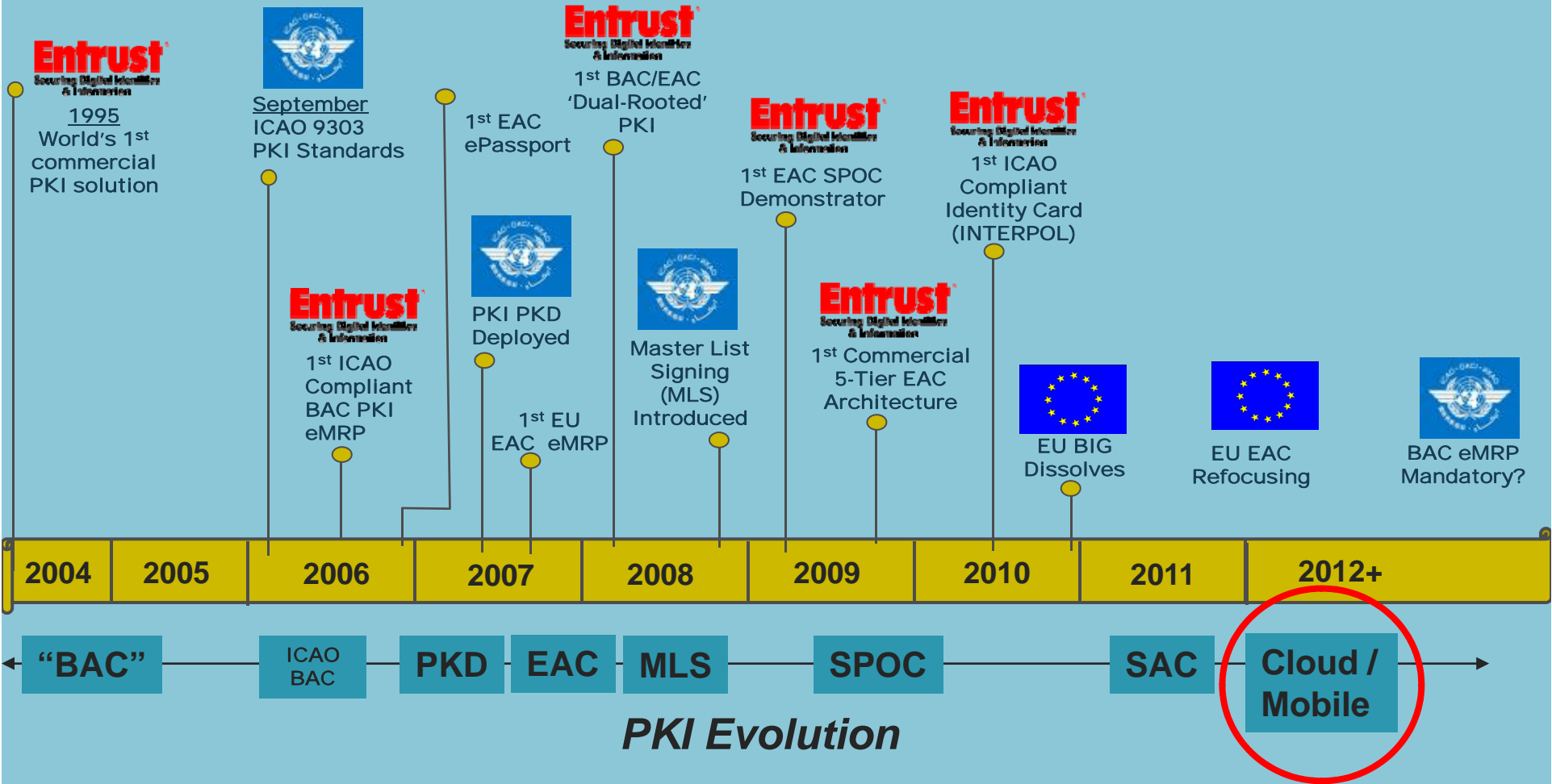
2nd Generation
(EAC)
ePassport
Adoption
2010

-  Pilot or Production
-  Considering / In Progress
-  EAC Communities of Interest

EAC: 5 Tier PKI Architecture



The March of ePassport PKI
1995 - 2012+



ICAO Efforts Influencing Global Travel and Identity Advancements



- 9303 Standard
 - BAC PKI
- PKD
- LDS 2.0
 - eVisa
 - Travel Stamps
 - Additional Biometrics Protection

**INTERPOL
Related IDs**



Seafarer's ID



National IDs



UN Officials IDs



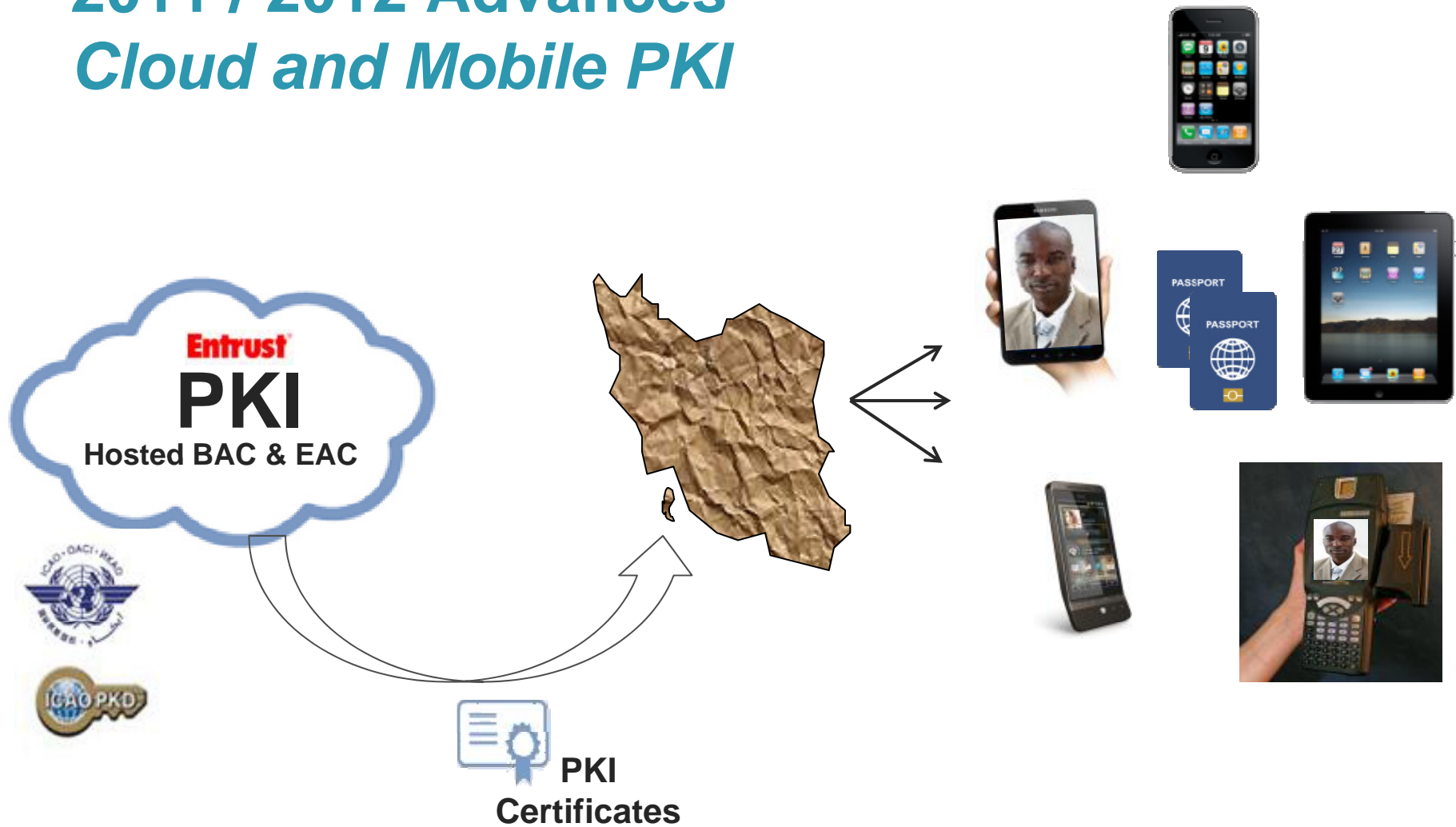
**Displaced
Persons ID**



**Personal Identity
Verification (PIV)
(e.g. PIV-I)**



2011 / 2012 Advances *Cloud and Mobile PKI*



Summary

- eTravel documents and services are increasing
- BAC and EAC evolution continues
- Moving to the Cloud
- Moving to more Mobile
- PKI is keeping up!



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