



Underwear Bombers & Mossad Agents Beware: ePassports and eVisas Will Change the Game

presented by



ACUITY
MARKET INTELLIGENCE

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“ePassports and eVisas will fundamentally change world travel by delivering on the promise to create a secure, consistent, and far more reliable global identification infrastructure”

- *The Global ePassport and eVisa Industry Report, May 2010*

Acuity Market Intelligence

An emerging technology strategy and research consultancy with a proven record of accurately anticipating identification solutions market trends.

Markets	Identification Solutions, Biometrics, Authentication
Services	Market Research, Analysis & Strategic Planning Opportunity Assessment & Analysis Technology Adoption & Deployment Evaluations
Clients	Vendors, Solution Providers, Integrators, Investors, End Users



Today's Discussion

- ☞ Definitions
- ☞ State of the ePassport and eVisa Marketplace
 - ☐ What Happened in Dubai?
- ☞ ePassport Market Data
 - ☐ Market Adoption
 - ☐ Revenue Forecasts
- ☞ Emergence of Secure Global Borders

Definitions

ePassport: A combined paper and electronic travel document that uses biometrics and contactless smart chip technology to authenticate the identity of travelers.

eVisa: The electronic authorization process for granting temporary access to a country for a specified purpose for a specified period that may or may not rely on biometrics to establish or confirm identity.

State of the ePassport and eVisa Marketplace

- ☞ Evolving BUT STILL Highly Fragmented Market
 - ☐ Complex network of policy makers, local and global technology and solution providers, and government agencies with diverse interests, priorities, and objectives
- ☞ Deployed solutions progressing in “fits and starts”
 - ☐ Performance and usability advancing at uneven rates by region and country
- ☞ Near Future
 - ☐ Increasingly Stable Environment
 - ☐ More Predictable Opportunities & Outcomes
 - ☐ Reliable Global Infrastructure More is NOT There Yet
- ☞ What Happened in Dubai?
 - ☐ They were NOT using ePassports
 - ☐ Doubtful ePassport readers were deployed
 - ☐ Even if they had, they would not have had the ability to validate authenticity of document because the infrastructure to exchange PKI certificates in place

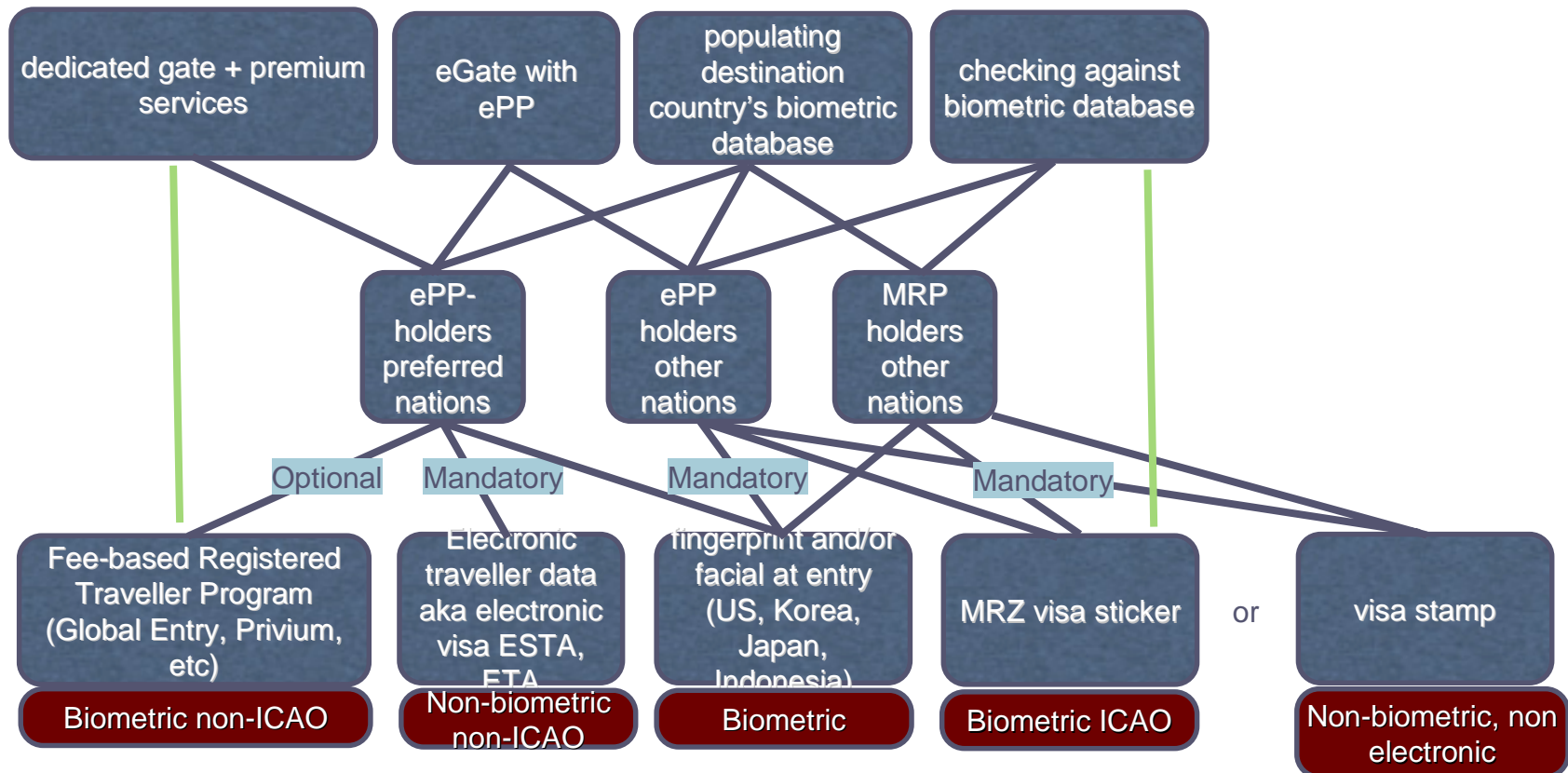
ePassport Marketplace

- ☛ ePassport deployment will reach a sustainable level of maturity over the next few years
 - ☐ ePassports and associated enrolment, verification, and authentication equipment is widely deployed
 - ☐ Given speed of technology innovation, need to engineer ahead of security breaches, and wear and tear on these human interfacing technologies, accelerated replacement cycles will provide on-going market opportunities
- ☛ With these documents in place, focus shifts to developing highly secure, truly interoperable international border infrastructure that incorporates fast and reliable ePassport authentication and biometric verification

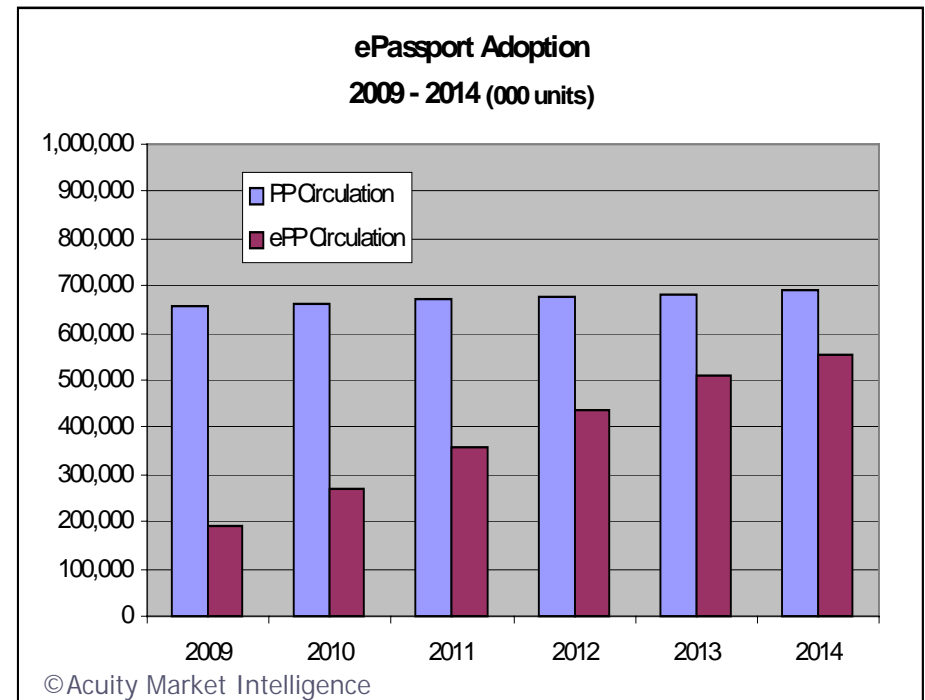
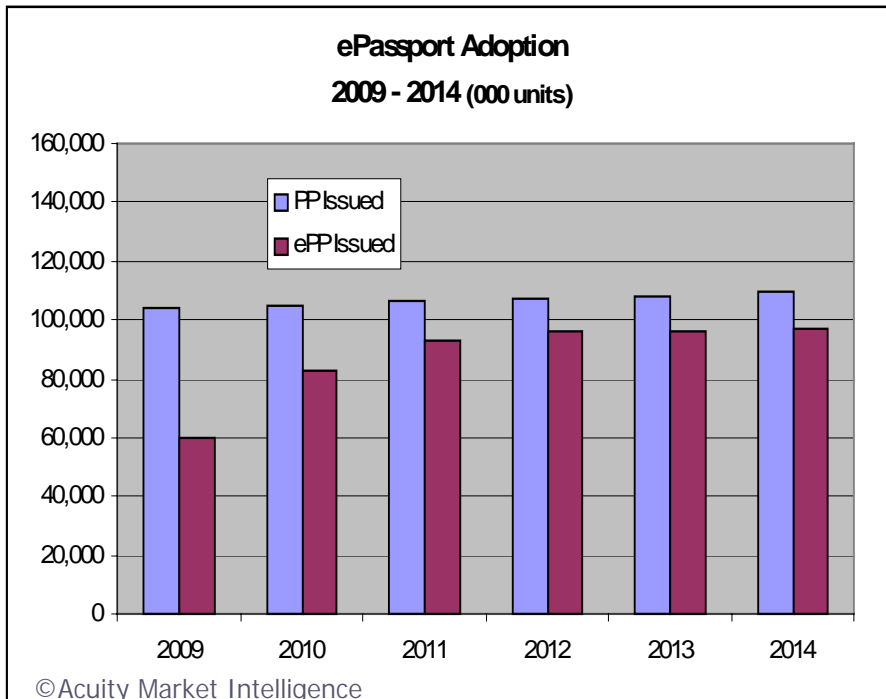
eVisa Marketplace

- ☞ eVisa deployment is not as advanced
 - ☐ Trend towards US-VISIT style centralized database and biometric capture for all at the border
 - Japan, Indonesia, South Korea following this model
 - ☐ EU taking a different path with enrolment at embassies
 - Interested in catching fraud e.g. multiple applications under different names
 - UK implementing biometric check at border for visa holders
- ☞ Questions about parallel infrastructure with the development of dual biometrics – face and finger – ePassports
 - ☐ Costs and operations
 - ☐ Unified ePassport/eVisa system would require “global” trust with ePassport process
 - Likely to occur on a bilateral basis i.e. registered traveler programs, as standards evolve and security concerns are addressed particularly for less developed nations.

eVisa Marketplace Landscape

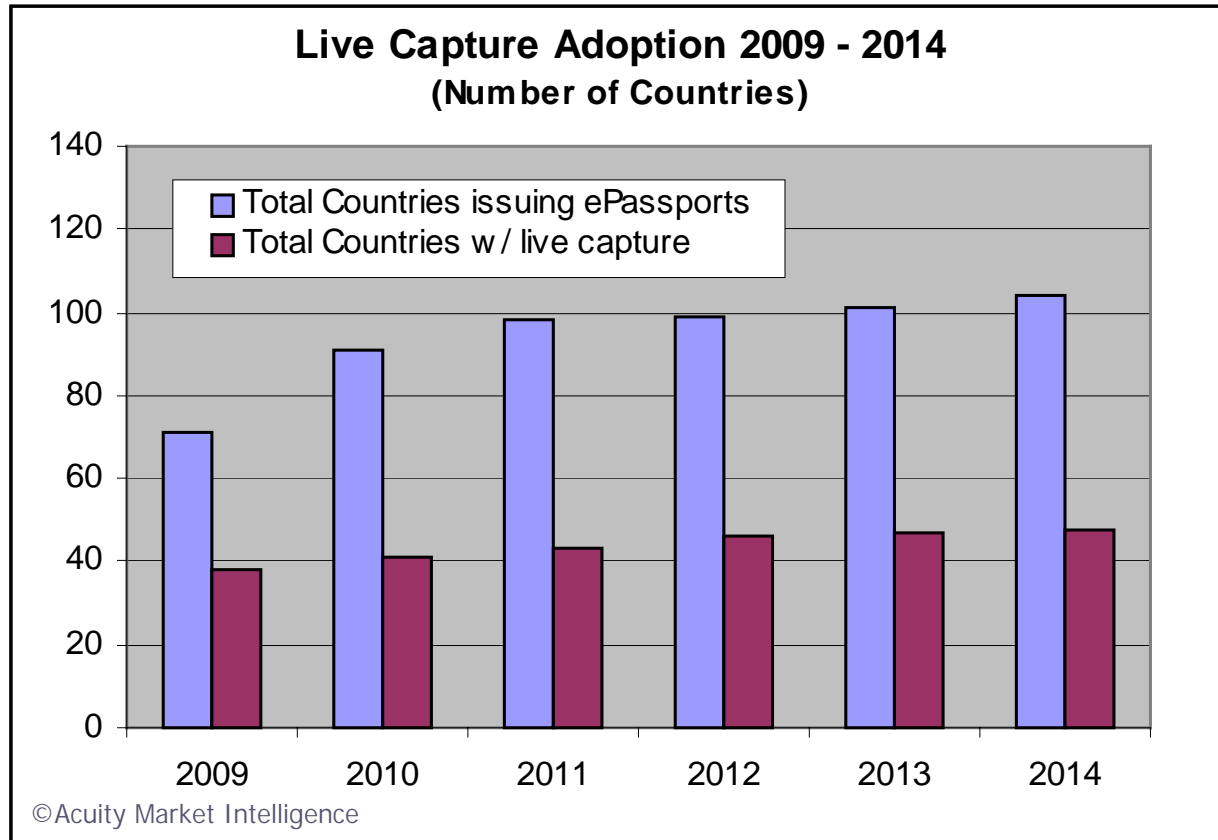


Global Market Adoption



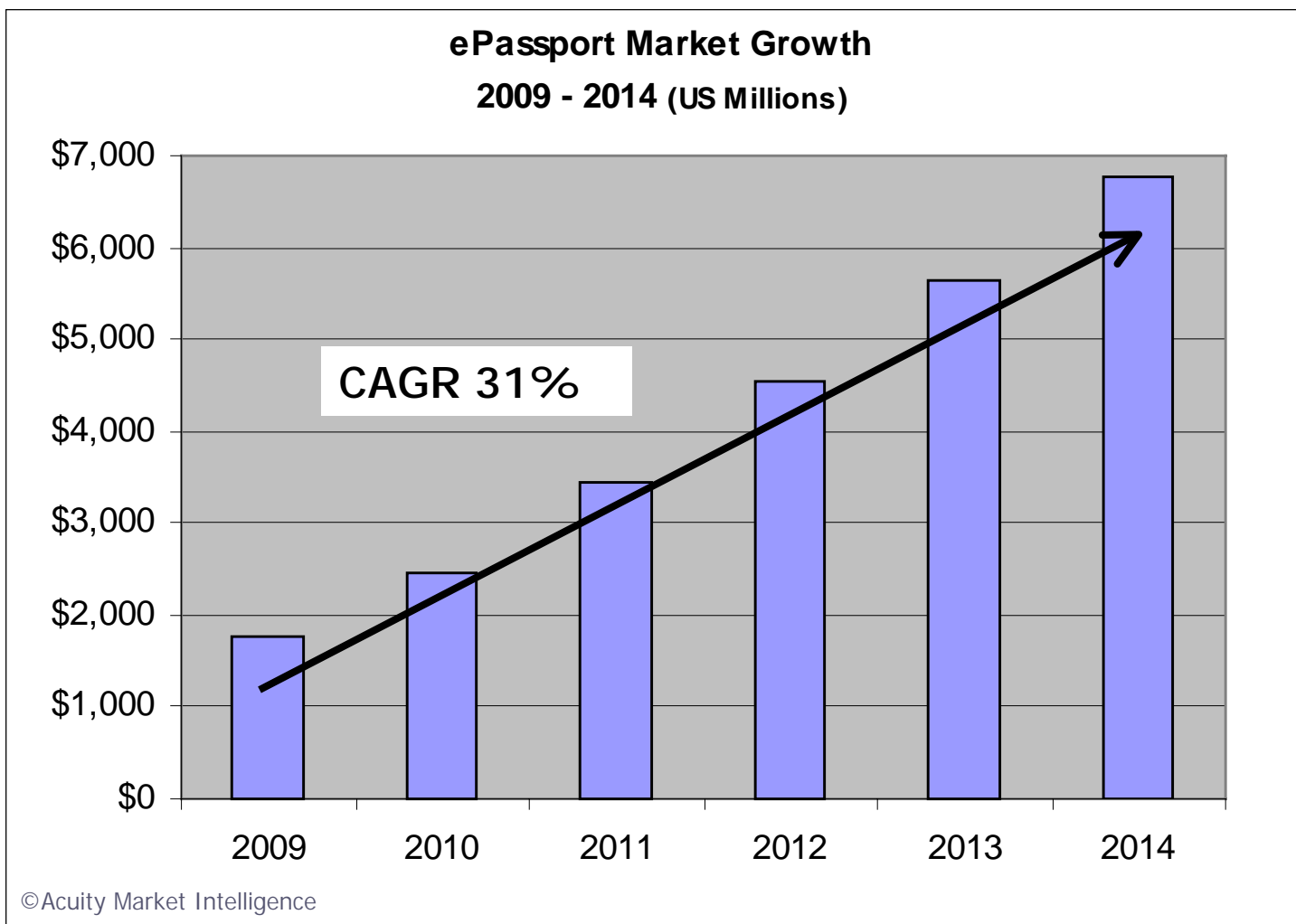
ePP Adoption	2009	2010	2011	2012	2013	2014
PP Issued (000)	103,955	104,995	106,044	107,105	108,176	109,258
ePP Issued (000)	60,132	83,028	92,936	96,375	96,385	96,825
% ePP of PP Issued	57.84%	79.08%	87.64%	89.98%	89.10%	88.62%
PP Circulation (000)	656,692	663,259	669,892	676,591	683,357	690,190
ePP Circulation (000)	188,974	268,837	355,850	436,413	510,045	556,030
% ePP of PP Circulation	28.78%	40.53%	53.12%	64.50%	74.64%	80.56%

Global Market Adoption



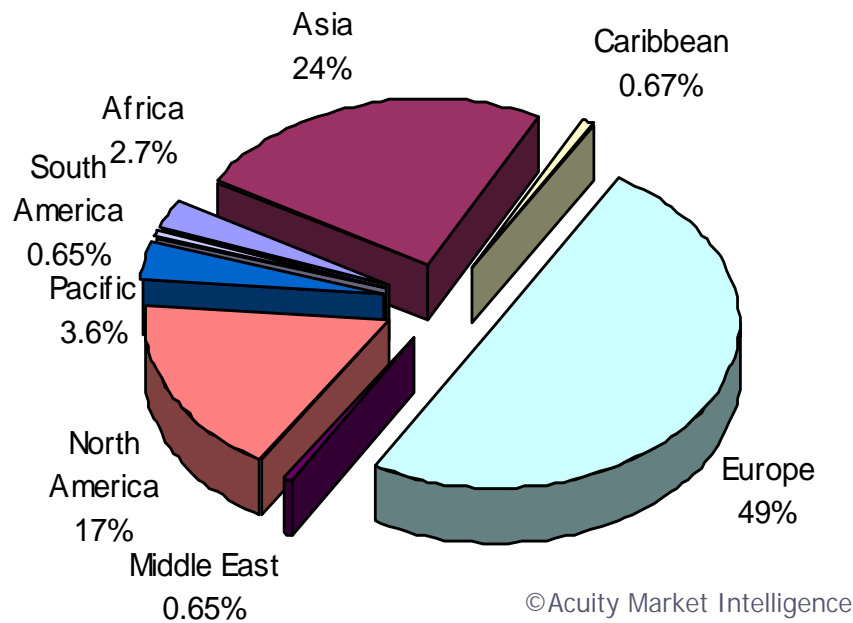
Live Capture Adoption	2009	2010	2011	2012	2013	2014
Total Countries issuing ePassports	71	91	98	99	101	104
Total Countries w/ live capture	38	41	43	46	47	48
countries w/ ePPs w/live capture	53.52%	45.05%	43.88%	46.46%	46.53%	46.15%

ePassport Global Forecast

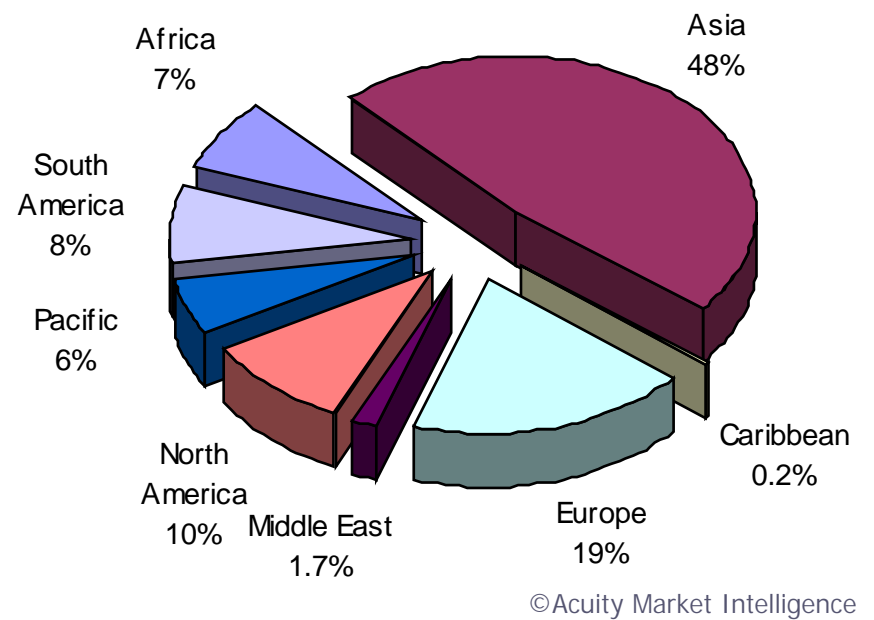


ePassport Regional Market Share

ePassport Market Share by Region 2009

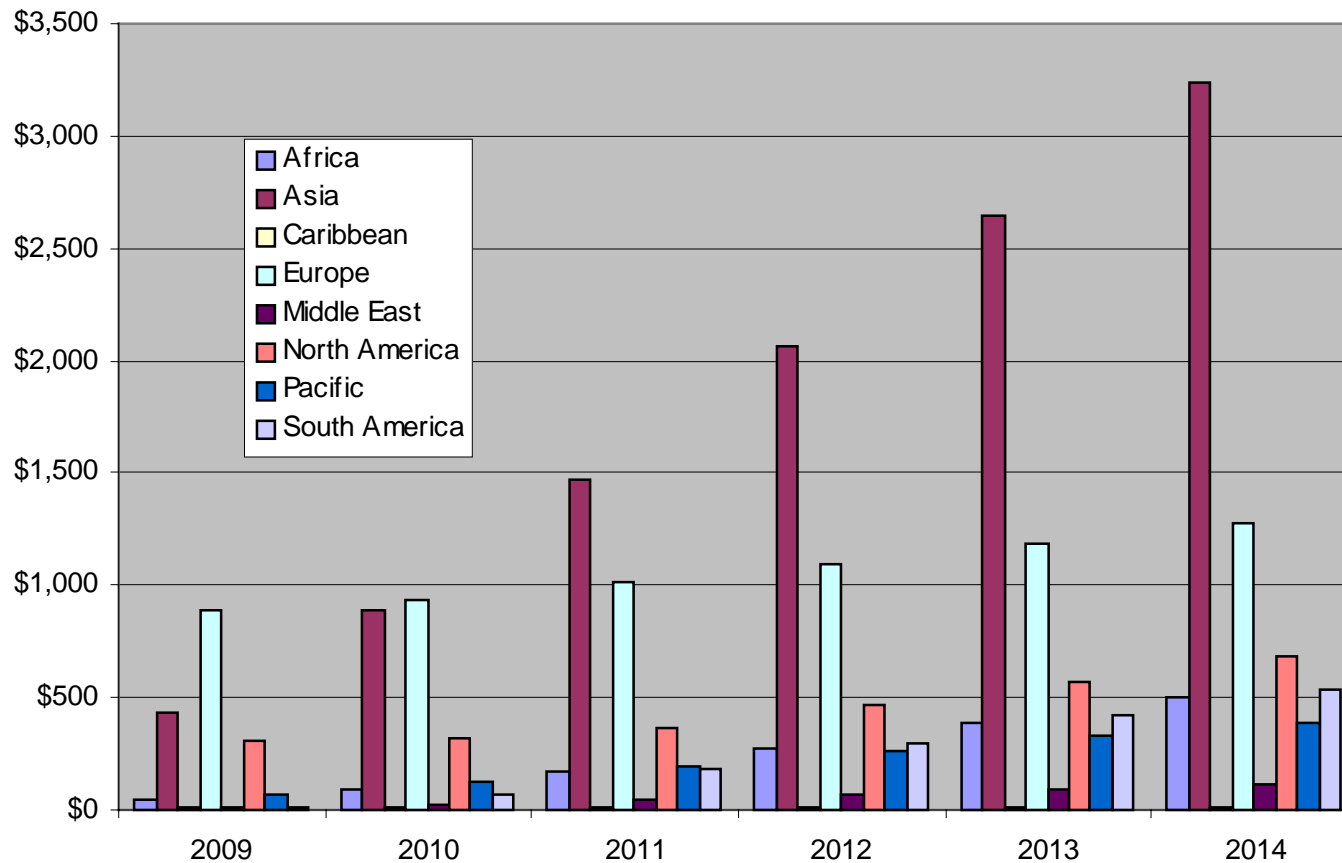


ePassport Market Share by Region 2014



ePassport Regional Forecast

ePassport Revenue by Region 2004 - 2009
(US Millions)



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Regional CAGRs

Africa	59.69%
Asia	49.69%
Caribbean	1.00%
Europe	7.39%
Middle East	57.24%
North America	17.22%
Pacific	44.07%
South America	116.06%

Emergence of Secure Global Borders

- ☛ ePassport as a data carrier provides a new level of border security and travel facilitation
 - ☐ Coming decade will be characterized by
 - Bringing other data carriers such as eVisas in line
 - Developing, testing, and integrating automated border control solutions
 - Implementing novel operational models to include less-developed regions of the world.
- ☛ Strong trend towards the development of international standards and the emergence of global best practices
 - ☐ From enrolment and credentialing to issuance and verification
 - ☐ Standardization will smooth out rough spots in market evolution
 - ☐ Create more stable market environment with more predictable and consistent opportunities.
 - ☐ Also produce reliable globally integrated solutions that are far more difficult to “game” by novices or experts

Emergence of Secure Global Borders

- ☛ By the end of 2012, global ePassport adoption will reach more than 60% of total circulation.
 - ☐ For many countries, ePassport holders will represent the majority of travelers crossing their borders.
 - ☐ EPassport use will reach a critical tipping point. It will simply no longer make economic or operational sense not to leverage the capabilities of these documents.
- ☛ By 2014, the deployment of a secure global border-crossing infrastructure that leverages the proliferation of ePassports will begin in earnest.
 - ☐ Emphasis on automated self-service verification of documents and identity, and global data exchange
 - ☐ This border transformation will both be driven by and drive ePassport market evolution.
 - ☐ Global uptake of ICAO's Public Key Directory is a necessary prerequisite
- ☛ Traditional border control processes will be replaced by automated solutions on a global scale driving significant market growth and associated revenue.

Key Take Always

- ☛ ePassports and eVisas represent a significant sustainable marketplace providing a platform for genuine 21st century border control advancement
 - ☐ The documents, processes, and operations that constitute this platform will continually be refined, improved, and updated to anticipate and thwart emerging security threats
 - ☐ Approaching a Tipping Point where critical mass of ePassport holders that will drive automated border control on a global scale
- ☛ This new Global Travel and Border Infrastructure built on this secure document platform will
 - ☐ Deliver on the promise of GENUINELY SECURE international borders
 - ☐ Create another large sustainable Identification Solutions market opportunity
- ☛ **Link between security and passenger facilitation transforms the infrastructure investment into an operational advantage**



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The Global ePassport and eVisa Industry Report

Opportunity Analysis and Market Forecasts 2010 to 2015
Critical Market Data. Comprehensive Insight. Targeted Revenue Forecasts

This unprecedented, comprehensive report offers 250+ pages of lucid, unbiased perspective and previously unpublished critical data and statistics on the ePassport and eVisa marketplace

For more Information: www.acuity-mi.com
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