



EPATS is the **Electronic Passport Testing Service**, the experienced and independent choice for e-Passport compliance, durability and interoperability testing.

Why test?

Governments worldwide are currently introducing electronic Machine Readable Travel Documents (eMRTDs) or e-Passports, based on the specifications developed under the auspices of International Civil Aviation Organization (ICAO).

There is no international regulatory body charged with overseeing the process of developing the e-Passport. Consequently, the standards remain open to scrutiny, comment and change, with vendors developing products based on their own interpretation of the standards. That means that compliance and durability testing is absolutely vital, to ensure full functionality, interoperability and security, between multiple third party devices. That is why Consult Hyperion, RFI Smart and Pira International have partnered to establish the Electronic Passport Testing Service (EPATS), a fully-independent compli-

ance and durability testing service committed to helping governments and vendors design and deploy ICAO compliant interoperable solutions.

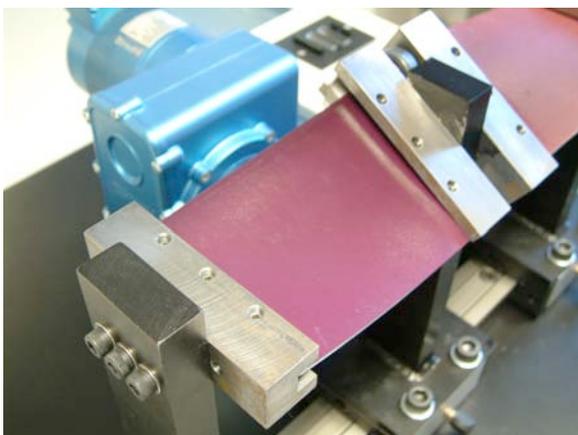
Why EPATS?

EPATS brings together three independent and highly experienced companies in the smart technology and passport testing field - Consult Hyperion, RFI Smart and Pira International. We are all recognised global experts in our fields and between us we have over 41 years of testing experience. Our services are independent of any government or vendor and go beyond testing to encompass the development and implementation of solutions that fully meet our clients' needs.

For two decades, **Consult Hyperion** has provided technical due-diligence services to governments, vendors and global organisations deploying market leading services based on the latest secure payment and identification technology. This has included the design, specification and testing of some of the biggest and most significant contact and contactless card-based payment and identity systems in operation today, such as the Hong Kong Identity Card and American Express' *Blue* card.

We are currently the only organisation approved to carry out type approval testing for American Express' *Express-pay* contactless card and reader products.

For more information, see www.chyp.com



RFI-Smart, part of RFI-Global Services Ltd, is a leading supplier of specialist testing, approvals and product development services to smart card industries. It works with contact card, contactless card and terminal manufacturers, and is recognised internationally by industry and standards organisations. Services include consultancy, security approval testing, pre-qualification support, and all laboratory services necessary to reach the business objectives of card and terminal manufacturers. RFI-Smart is an approved EMVCo and Visa test laboratory. RFI-Global is UKAS-accredited to ISO 17025, and offers testing & assessment in support of CE and FCC marking.

For more information, see www.rfi-smart.com



Pira International is a leading commercial consultancy, testing and media business that specialises in the printing, packaging, paper, plastics, publishing and consumer goods industries. Pira is an established company, expert in the field of testing and certification of the materials and processes used in the production of financial and secure documents including ID cards and passports for international clients.

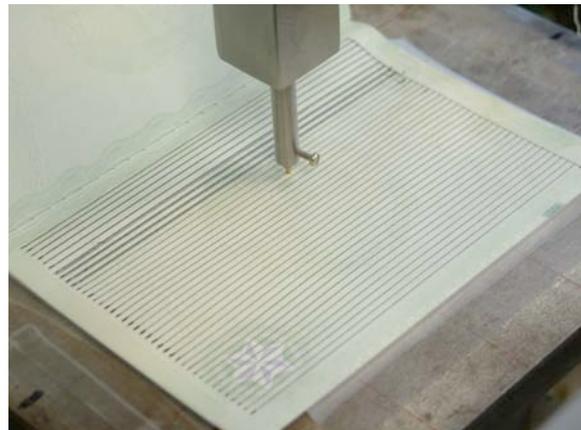
Pira has an international reputation as one of the key knowledge providers in these related industry sectors. Pira's clients include major international sup-

pliers of currency, passports and ID cards who rely on the independent test reports from our UKAS accredited laboratories to support their product developments and commercial sales.

For more information, see www.piraconsulting.com

Independent, accredited and experienced

EPATS' testing procedures use best practice from the financial and traditional travel document markets to deliver an efficient, robust and independent end-to-end testing service that is independent of any government or vendor. Our practices are based on ISO 17025 accredited working methodologies. That means all our clients can be assured of impartiality, integrity and traceability.



How we test

Our approach to demonstrating compliance and interoperability for e-passports is based on answering four key questions:

- Will it work?*
- Will it work everywhere?*
- Will it work in 10 years time (its intended lifetime)?*
- Why does it not work when it should?*



We carry out extensive functionality, durability and interoperability tests against relevant ICAO specifications and ISO standards with parameters based on your requirements. E-passports that have been shown to be both durable and compliant with test specifications can be tested against a library of readers to ensure interoperability.

The testing processes are based on:

ICAO Part 2 - RF Protocol & Application Test standard for ePassport, Version 0.9 Feb 10th 2006;

ICAO Part 3 - RF Protocol & Application Test standard for ePassport, Version 0.9 March 17th 2006;

Draft Technical Report 'Durability of Machine-readable Passports' produced by ISO/IEC/JTC1/SC17/WG3/TF4 for ICAO-NTWG, as modified at the TF4D;

And, of course, all other relevant national and international specifications.

Our methodologies are repeatable. Most have been adopted as global standards by either the smart card or traditional passport industry and, as a result, have driven cross-vendor interoperability.

Consult Hyperion, Pira and RFI-Smart have been active contributors to the relevant ISO/IEC committees.

Key benefits of using EPATS for e-Passport testing

Independent of any manufacturer, vendor or national government;

Highly **experienced** in both testing and government IT projects;

Proven within the financial service and traditional passport industries;

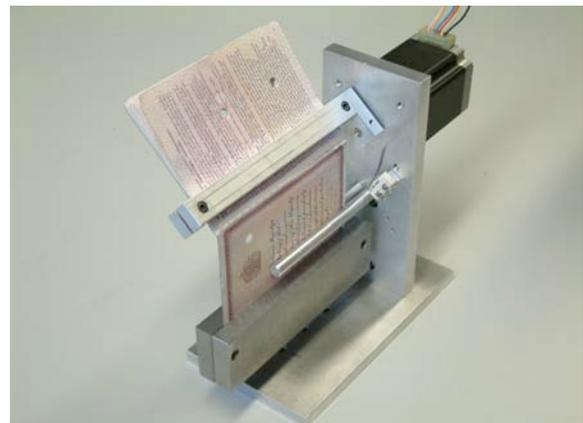
Respected by national governments and the traditional vendors to each of those markets;

Adaptable to our clients' specific requirements;

Ready in time to support the deployment of your e-Passports.

Together, we provide clients with a robust, credible, value-for-money end-to-end service tailored to the delivery of an interoperable electronic passport in the shortest period of time.

In the process we provide a robust foundation upon which clients can build their current and future product strategies, with a thorough understanding of the implications of any decisions they make and with access to resources to help implement their chosen solution.





Brite iD

Brite-ID, a manufacturer of innovative inlays targeted at the e-MRTD market, has recently announced that their iLam™ products have been successfully tested against the relevant ISO standards by EPATS. The purpose of the tests was to predict whether the passport's contactless chip will function correctly during a simulated 10 year lifetime. EPATS performed tests on complete passports containing a fully programmed contactless chip and antenna embedded within the back page of the iLam™ cover of the booklets.

For more information, please see www.brite-id.com.

Case studies

Government of Hong Kong SAR

Testing was just one part of the work we carried out for the Government of Hong Kong in developing its smart ID card system. Our responsibilities included assessing system security and recommending a set of security requirements, to ensure that the selected suppliers would produce a system that was not only functional, but also secure and fit for purpose. We also created a full specification of all components of the system.

“Consult Hyperion’s professional approach to helping us understand and specify the security requirements for the Hong Kong Smart Citizen's Card has enabled us to successfully launch one of the world's leading smart identity schemes.”

Project Director, Immigration Department, Government of Hong Kong Special Administrative Region. (www.smartid.gov.hk)



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