

Entrust ePassport National Public Key Directory

Powered by Entrust Authority™ PKI

International travel is more popular than ever before. Travel represents a wanted trend for many countries—as with travel comes tourist dollars, business people driving economic growth and new immigrant populations. As a result, the welcoming channels that facilitate convenient travel and business can be too easily exploited.

The need for governments to secure their borders and prove the authenticity of a citizen's or visitor's passport is critical.

The Entrust Authority™ National Public Key Directory (NPKD) is built on 20+ years of successful Entrust Datacard PKI and ePassport deployment and innovation. An easy-to-use Web application built with the efficient automated validation of electronic passports in mind, the Entrust Authority NPKD provides an integrated solution for countries to collect, manage and distribute the Public Key Infrastructure (PKI) materials necessary for successful validation of electronic passports at border control.

What is NPKD?

Simply referred to as National Public Key Directory (NPKD), this product provides fully-automated reading and writing to the ICAO PKD, and offers countries the ability to manually import materials obtained through diplomatic exchange or that have been downloaded from ICAO.

Point-and-Click Border Security

With more real-world deployments than any other provider, Entrust Datacard is the proven ePassport security leader for BAC and EAC environments. Entrust ePassport security solutions are user-friendly, and enable a true "point-and-click" PKI system for strong border control and authentication of the identities and biometric datasets on today's machine-readable travel documents (MRTDs).

The Entrust Authority NPKD Solution

While the need for BAC in ePassport deployments is clear, the potential number of inter-country transactions, in a fully-scaled BAC rollout, can be substantial. As a result, a consistent method is required to facilitate comprehensive secure management and distribution of materials to border control.

Trusted Worldwide

Entrust Datacard PKI technology is one of the most dependable in the market, and is currently used by more than 45 governments to secure many of the largest, most complex 'trust' environments across the world. Entrust Datacard has the expertise to support a variety of complex, cross-border environments with a 20-plus-year track record of helping customers achieve critical, scalable PKI solutions.

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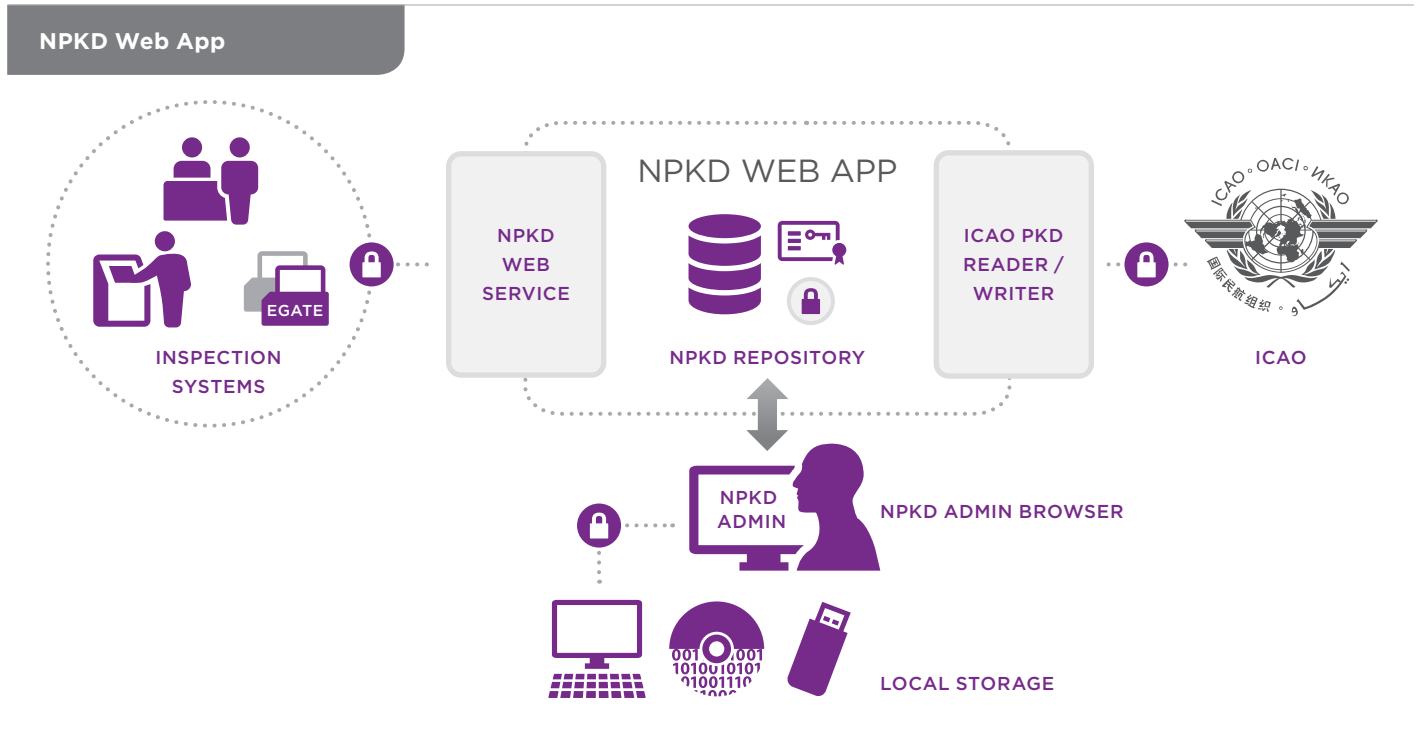
Solution Benefits

- Automated download of ePassport validation materials from ICAO
- Manual import of local ePassport validation materials
- Flexible, standards and policy-driven cryptographic validation
- ICAO PKD credential monitor
- Automated secure distribution to Entrust Inspection System
- More than 20 years of PKI expertise
- Can be a stand-alone or bundled with Entrust ePassport solution

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NPKD Architecture



How it Works

NPKD was developed to provide countries with a centralized repository of materials that are validated for standards compliance and interoperability and then authorized for distribution to border control to enable ePassport validation. NPKD operators can load materials from ICAO and/or local file stores to ensure border control has the ability to validate ePassports with the most complete and current set of validation materials.

Entrust NPKD Service Pre-Requisites:

Entrust Borders CA	To benefit from full automation, customers should run Entrust NPKD Services under an Entrust Borders CA (if under an EAC architecture, the DVCA). The Entrust NPKD is independent of any CA and can publish validation materials for export and use by third party border management systems.
Entrust Inspection System Software	Entrust Inspection System software is a fully integrated end-point for consumption of validation materials from the NPKD via secure channel, and leverages published validation materials in service of validation requests from manual and automated border control (ABC) systems.

About Entrust Datacard

Consumers, citizens and employees increasingly expect anywhere-anytime experiences — whether they are making purchases, crossing borders, accessing e-gov services or logging onto corporate networks. Entrust Datacard offers the trusted identity and secure transaction technologies that make those experiences reliable and secure. Solutions range from the physical world of financial cards, passports and ID cards to the digital realm of authentication, certificates and secure communications. With more than 2,000 Entrust Datacard colleagues around the world, and a network of strong global partners, the company serves customers in 150 countries worldwide.

For more information about Entrust products and services, call **888-690-2424**, email entrust@entrust.com or visit www.entrust.com.

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