

APD Mobile Identification Unit

APD's Mobile ID Unit is a self contained, portable travel document scanner, smart card reader and fingerprint reader with secure, integrated communications to security databases such as PNC, Voter's Register and other specialist databases holding counter terrorism and homeland security data. It combines APD's successful and proven POLARIS software together with the handheld Datastrip DSVII-PA, using internal rechargeable batteries with an integrated GRPS or TETRA (Airwave) modem.

This highly portable unit can be further enhanced by adding an iris scanner so that travellers' credentials can be validated against biometric data held on their travel documents.

About the Mobile ID Unit:

The APD Mobile ID Unit is based on a family of rugged devices which boast a significant track record in mobile identity verification for Homeland Security, military and commercial applications in Europe, the Middle East, Africa, India, and North America. It is specifically designed to read and validate a variety of documents and to assist with the identification of individuals.

Its applications meet a specific set of needs for border control, counter-terrorism and policing special events such as international football matches. Using the motorised document scanner, the photograph page of passports is read to obtain the bearer's full name, date of birth, gender, nationality, document issuing state, document number and expiry date. This information is formatted into a PNC name query, either automatically or at the request of the user, with the query results being presented on screen within seconds.

Additionally, the user can perform a check of an individual against the electoral register of voters, and can carry out PNC checks of vehicle details and of a driver's licence to return details of offences, vehicle insurance and MOT.



The Mobile ID Unit reader can be used to read cards with magnetic stripes and display the information on its screen. The details embossed on the card can then be checked with the coded information held on the magnetic stripe.

The hardware is also ready for numerous additional future applications.

About the DSVII-PA device:

Provides mobile biometric and ID document verification.

- Passport scanner: Full page 600dpi, 2 & 3 line OCR-B, 1D and 2D Barcodes for machine readable passports and visas including ePassports
- Fingerprint Sensor: UPEK TURBO NIST FIPS 201/ SP800-76 Compliant
Capacitive Solid-State Sensor Resolution 508 DPI, Sensor Area 12.8 x 18.0 mm
- Display: 3.5 inch touch-screen
- Smartcard Reader:
- ISO7816 Contact; ISO14443 A/B Contactless
- Proximity Cards: HID i-Class, HID prox
- Integrated Digital Camera
- Magnetic Stripe Card Reader
- 3.2 Megapixel Camera
- Extended Life Battery
- 2Gb Memory
- Docking Station and Charger

Hardware Specification:

Hitachi SH4 32 bit core based processor
Operating system - WindowsCE.NET

Interfaces:

2 x USB host
1 x Serial (Micro-D)
1 x LAN (RJ45)
1 x External CF slot (used for GPRS modem)

Wireless Capabilities:

GPRS modem via CF slot.
Integrated Airwave modem

Typically, the APD Mobile ID Unit will be connected to one or more centrally hosted database systems via the POLARIS host management servers.

POLARIS manages device and user authentication, over air security, transaction logging and connection to systems such as PNC via the Criminal Justice network.

The Mobile ID Unit can also check scanned documents against watch lists which are stored on the device itself, and APD can provide a quotation on request for connecting to other customer-hosted information systems be they national security databases or private customer records systems.

Applications for the APD Mobile ID Solution include:

- Checking Passports and Visas
- Checking Driving licences
- Performing checks against central databases using secure over air communications
- Checking against a watch list stored on the device
- Monitoring travel patterns
- Checking biometric data (photographs or fingerprints) against data held on travel documents and against central databases

Optional Extras for the document reader hardware:

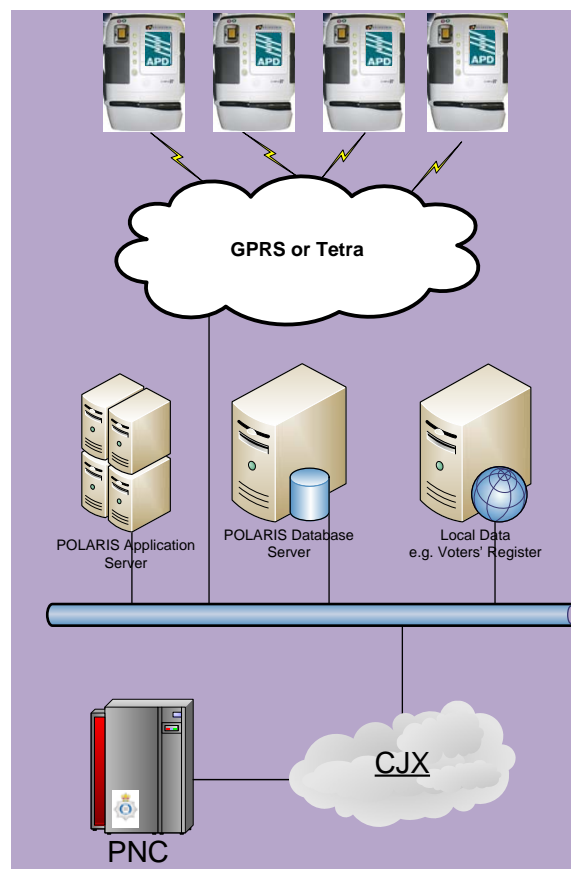
- Carrying Case
- Bluetooth
- Iris Scanner

Functions available on the Mobile ID Unit include:

- **Passport Scanning:** Automated passport page scanning, OCRB decoding of the holder's data and formulation of a **PNC Name Query (#NQ)** which can be queued or sent automatically. Additional Name, Age, Sex and Colour (NASC) details can be entered if required. POLARIS returns data if available together with additional 'marker' information.
- A **PNC Name Query (#NQ)** can be composed manually using a POLARIS form if required.
- **Vehicle PNC query (#VE/#VM):** A form can be used to provide owner, Insurance and Vehicle reports data.
- **Driver PNC Query (#DL):** A driver name or driver number can be entered to return driver information.

System Architecture:

A typical system architecture is shown in the diagram below:



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