

## PRODUCTS

### **D SCAN<sup>®</sup> Extensions**

*Middleware Software for Document Readers*

*Versatile SDK for Scanning E-Passports, ID Documents, Driver's Licenses and other ID Credentials*



**Application Environments:**

- Border Control
- Automated Border Gates
- Airports
- Banks
- Hotels
- Car Rental

D SCAN<sup>®</sup> Authenticator full page document readers scan ID1, ID2 and ID3 documents as well as other credentials in one single step without requiring a manual repositioning of the document.

D SCAN Extensions is a document reader middleware SDK that empowers users to benefit from the outstanding image quality and RFID reading capability of D SCAN Authenticator devices.

With the included functions of D SCAN Extensions, user applications are able to read, decode and access MRZ, barcodes and RFID data.

D SCAN Extensions also checks MRZ lines and the chip of e-passports and e-ID documents.

Due to these features D SCAN Extensions is the most suitable software for system integrators interested in an efficient integration of document readers in document inspections systems, automated border control gates and other demanding applications.

# D SCAN® Extensions

## Features

- Cross Match D SCAN Extensions allows users to acquire MRZ, RFID and barcode data from any kind of ID document within seconds
- D SCAN Extensions, an outstanding technology for image processing and RFID reading, is the best solution for reading ID documents and other credentials
- The well documented API can be seamlessly integrated into any application scenario
- The runtime version of D SCAN Extensions supports application deployment scenarios

## Functions

- OCR module allows reading and checking the MRZ of any ICAO Doc 9303 compliant ID document
- Barcode reader and decoder allows reading of common 1D and 2D barcodes: Code 39, Code 128, EAN13, 2/5 Interleaved, PDF417
- RFID module offers complete cryptographic functionality for reading and verifying contactless chip data of any ICAO Doc 9303 compliant document including: Passive Authentication (PA), Basic Access Control (BAC), Active Authentication (AA), European Union Extended Access Control (EAC)

- Plug-in interfaces integrate PKI infrastructures into the D SCAN Extensions RFID verification process according to customer needs
- Automatic document detection to trigger the scanning process

## D SCAN Extensions SDK

- API with easily understandable, powerful and most flexible interface technology
- Supports common Microsoft development technologies, e.g. C++ and all .NET languages
- Documentation in compiled HTML technology including sample code snippets
- Sample projects for C++ and C#
- Demo and test applications included

## Supported D SCAN Hardware

- Authenticator CF

## Hardware Requirements

- Processor with SSE 2 instruction set (Intel Pentium 4 or AMD Athlon64)
- 512 MB RAM minimum (1 GB recommended)
- 65 MB available HD space

## Software Requirements

- Microsoft Windows® XP, Service Pack 2

- Microsoft Windows® Vista, Service Pack 1
- Windows® 7 (32 & 64 bit), current Service Pack
- D SCAN Essentials 1.3.0 (or higher)
- Microsoft .NET Framework® 2.0

## Benefits

- Develop custom workflows and applications based on D SCAN Extensions first class MRZ, barcode and RFID reading technology
- Access images (IR, UV, VIS), MRZ, barcode and RFID data as well as check results
- Best interoperable fast and reliable RFID reading solution



ePassports EAC  
Conformity & Interoperability Tests

- Easy to integrate and well documented SDK supports native development technology e.g. C++ as well as Microsoft .NET Framework
- Generic interfaces for PKI integration with proven interoperability
- Software is available as runtime version as well as a software development kit (SDK)

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