

## THE ANTWERP DIAMOND DISTRICT GOES FOR AN INTEGRATED, WEB-BASED IDENTITY MANAGEMENT SYSTEM.



After careful consideration and detailed analysis, the Antwerp Diamond District has selected Syx-Graphics ID Solutions as Solutions Provider for their new Identity Management System. This Web-based solution is integrating numerous third-party systems and components to form a Tailored answer to the customer's specific needs.

Antwerp has always been known as the Diamond Capital of the World. More than 80% of the world-wide diamond trading is done in the Antwerp Diamond District. This fact results in the ADD being classified as a high risk area. Consequently, the Identity Management System has to be of a very high level, including passport scanners, background checks, 10-finger biometrics, etc...

Using proprietary web technology, Syx-Graphics ID Solutions developed a workflow based enrollment solution. Since nowadays the enrollment phase poses the biggest threat of creating fraudulent identities, Sg. ID Solutions implemented intelligent document readers, that compare the scanned identification document to a database of over 1.800 international documents. While checking the validity of the document, also a collection of optical security features are checked thus avoiding enrollment based upon fraudulent documents.

The enrollees' fingerprints are scanned and converted to templates according to International Standards. These fingerprint templates are stored on the MIFARE® DESFire® EV1 contactless card for use in a 1:1 matching scenario by the access control systems.

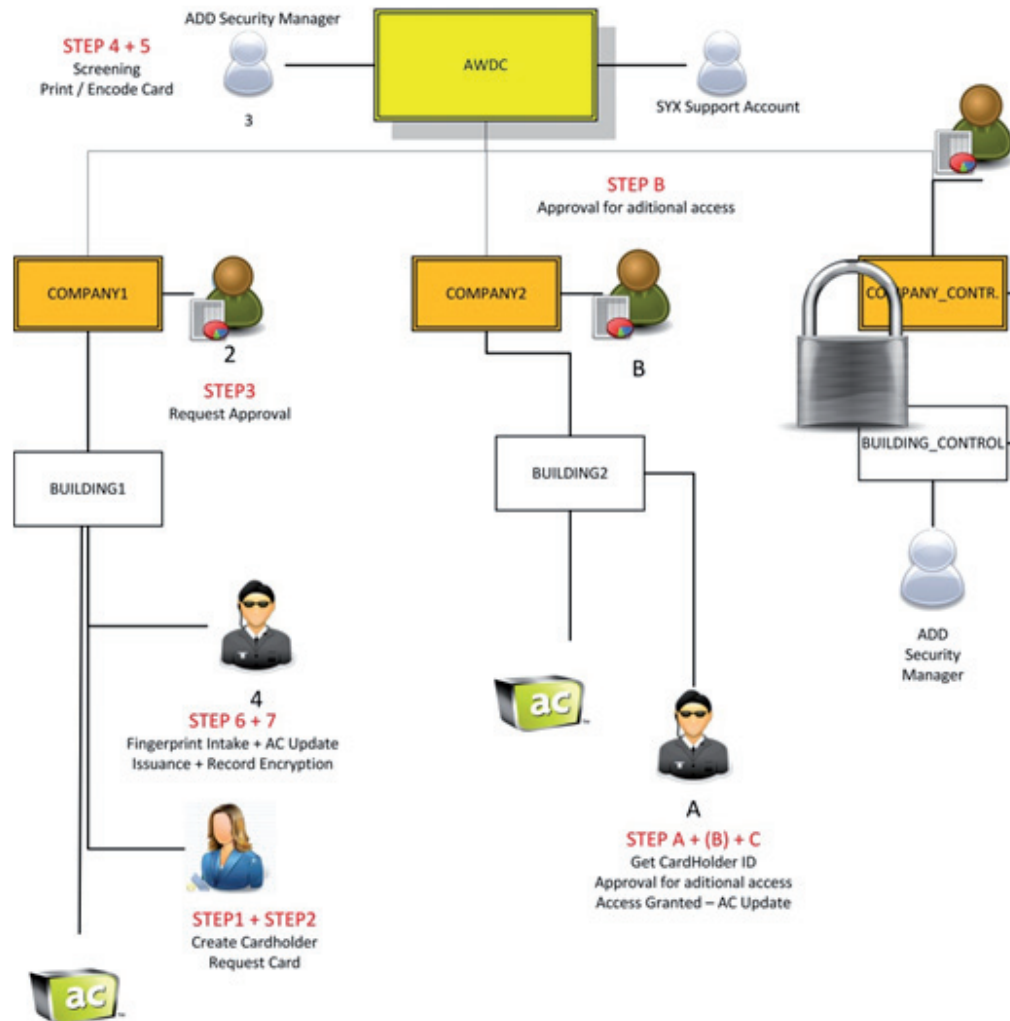
To supply the Web-based ID Management System with the appropriate data, a range of import tools are supplied. On the other side, interfaces are built to connect to the different access control systems active in the District.

Next to the Identity Management of the Residents in the District, also Visitor Management is implemented. Every visitor has to go thru a simplified enrollment procedure after which he is issued a secured visitor card containing fingerprint information.

Sg. ID Solutions also designs and manufactures the ADD security cards. These cards are visually protected by complex design features while the personalized cardholder data is protected from alteration by the use of a custom made holographic security foil.

As a fully integrated, high-end, Identity Management System, a complete communication system has been implemented. In case of an eminent security threat, different groups of people can be instantly warned by means of the integrated messaging system or via SMS.

Compromised cards can be blocked from all, or a selection of, protected zones within the Antwerp Diamond District.



- Step 1* Sponsor creates CardHolder
- Step 2* Sponsor issues CardRequest ( To Be Approved )
- Step 3* Corporate Manager Approves Request ( To Be Screened )

- Step 4* Invitation to Security Office for Screening
- Step 5* Enrollment
- Step 6* Card Issuance
- Step 7* Card Activation and Access Control Update

## ANTWERP DIAMOND DISTRICT - FACTS & FIGURES

The Diamond District is situated near the Central Station, free of traffic and under constant Police Surveillance. Next to numerous traders the ADD hosts four diamond exchanges where over 25 billion Dollars' worth of diamonds are sold annually. As the area brings a real risk for security issues, driven by both economic or political motives, the ADD Security Management spends a lot of effort in prevention. For their Identification Project, they use biometrics, MIFARE® DESFire® EV1, security printed cards and bespoke holograms. During enrollment Government issued travel documents are referenced against a database of over 2000 travel documents to authenticate and avoid false enrollments.