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AccessID

Case Study

CS0509 July 2009

Collect, validate and maintain individuals' personal details required for security checks

Project Summary:

The AccessID system created using Adobe Flex, AMFPHP, PHP and MySQL is an application to collect and validate individuals' personal details required to process the necessary background check for approval by National Security.

The system manages the issue and maintenance of security identity cards. All registrants' details are stored and archived for future review. This also provides the ability to demonstrate compliance with National Security requirements. The AccessID system has allowed for increased volume of applicants to process and manage, reduced loss of details, allowed for control over external resources and automated data collection and submission.

The AccessID system has application in any industry that requires a background check and can exist on a private server or be set up as an online service allowing flexibility of deployment to suit all industry service providers (private and government).

Client:

Brisbane Airport Corporation
http://www.bne.com.au/content/standard_v4.asp?name=BAC_OurCompany

Client Business Background:

The Australian Attorney General's Department have established a new national security and counter-terrorism entity – AusCheck, to streamline the personnel clearance process for all Critical Infrastructure areas. ASIC (Air Side Identification Card) and MSIC (Marine Side Identification Card) are the first to be provided with an automated process.

The AusCheck service will enable organisations to submit individuals' details securely and will process these through the various relevant bodies – ASIO, AFP and DIMA, in a fixed timeframe.

Project Challenge:

Brisbane Airport Corporation (BAC) wished to streamline the ASIC checking process and establish a direct link between the issuance of the ASIC credential (ID Card) and the site Access Control System. This would ensure that only authorised individuals have access to sensitive areas of the Airport and only a single credential is needed for identification and access control.
An ASIC credential is valid for 2 years meaning all staff members (and contractors) must resubmit their application in sufficient time to ensure continuity of service.

Actions:

Development of a web application with the following functionality:

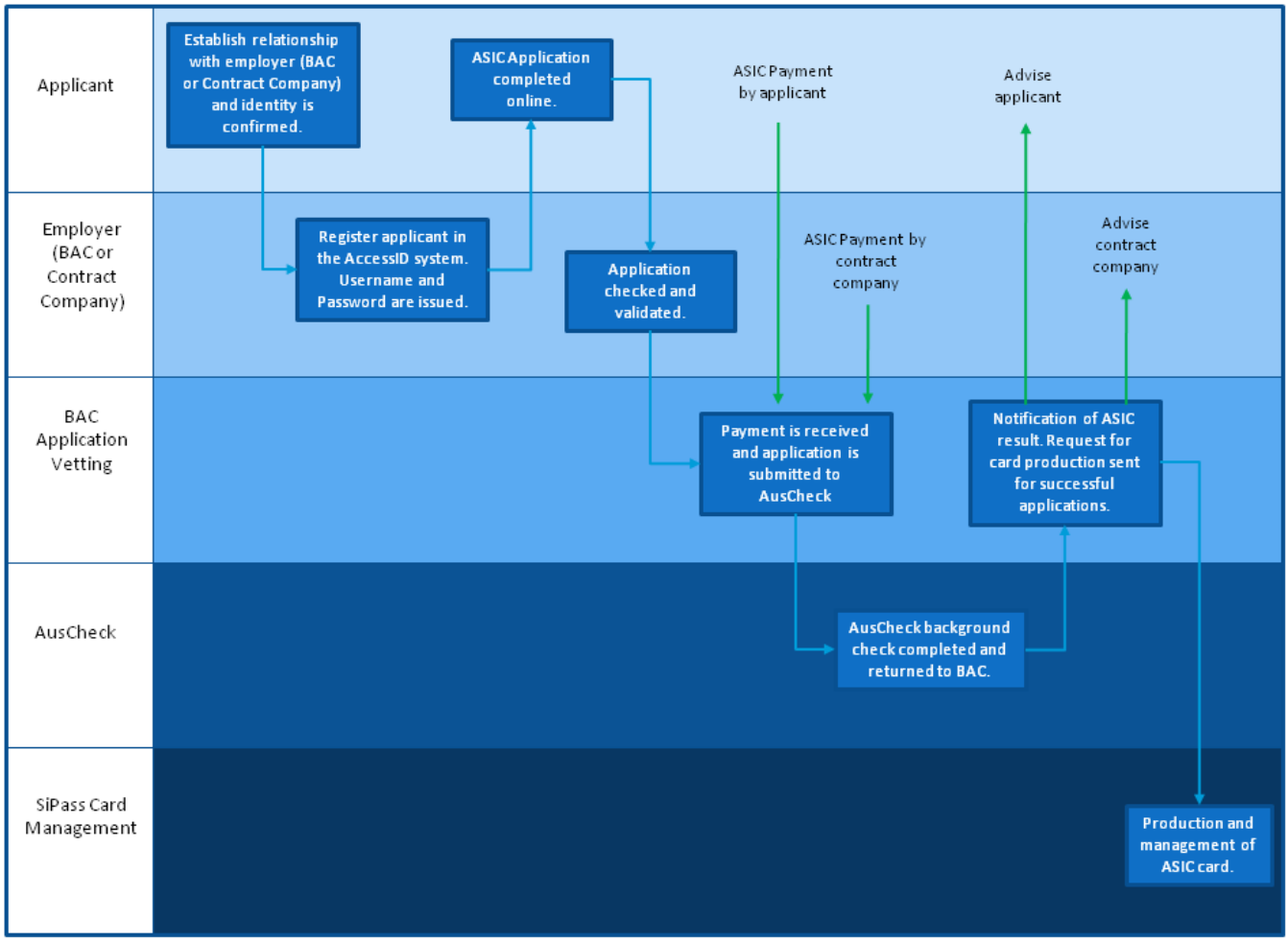
- Online Registration
- Participant Database
- Database Security Protocols
- Document Upload
- Credential Vetting Workflow
- Access Privilege Management
- Administration interface
- Communications with external systems
- Statistical reporting
- Structured report creation
- Event logging / auditing

Outcomes:

Staff members and applicants are responsible for making sure their ASIC authorisation is valid and that they have submitted all required information directly to AusCheck albeit via an interface provided by BAC. This ensures BAC will not be required to hold documents such as passports or birth certificates.

The ASIC application is completed through a standard web based interface accessible either on the Internet or the BAC Intranet. This provides individuals with a common and consistent approach to ASIC registration which reduces the workload on the ASIC registration team and enables individuals to trace their own application progress.

All registrants' details are stored and archived for future review. This also provides BAC with the ability to demonstrate compliance with AusCheck requirements.



The system has allowed BAC to:

- Reduced paper work and paperwork errors
- Reduced late or delayed registration (as a result of manual processing and little system integration)
- Allowed for increased volume of applicants to process and manage
- Reduced loss of details
- Allowed for control over external resources (eg. SiPass access control system)
- Automated process compliant with AusCheck's requirements
- Automated data collection and submission
- Automated reporting on ID Card status
- Automated legislative reporting

Technology Used:

The AccessID system was created using Adobe Flex, AMFPHP, PHP and MySQL.

Adobe Flex:

Adobe Flex is a software development kit released by Adobe Systems for the development and deployment of cross-platform rich Internet applications based on the Adobe Flash platform. Rich Internet applications (RIAs) are web applications that have some of the characteristics of desktop applications.

Flex is a highly productive, free open-source framework for building and maintaining expressive web applications that deploy consistently on all major browsers, desktops, and operating systems.

The advantage of Flex is that it doesn't rely on page reloads, can have animations, interactive graphs and handles large datasets.

AMFPHP:

AMFPHP is a free open-source PHP implementation of the Action Message Format (AMF).
AMFPHP allows thin client applications built in languages such as Flash, Flex, and AIR to communicate directly with PHP class objects on the server.

PHP developers can leverage their PHP experience in server side code development by connecting to data sources such as web-services, databases, and business applications and return that data to the client.

AMF allows for native data types and complex object mapping between the client and the server.

PHP:

PHP is a widely-used general-purpose scripting language that is especially suited for web development and can be embedded into HTML.

MySQL:

MySQL is a relational database management system (RDBMS). The program runs as a server providing multi-user access to a number of databases.

Extension and Application:

The AccessID system has application in any industry that requires a background check including:

- Child Care
- Teaching
- Aged Care
- Security
- Financial
- Community and Social Work

The system can exist on a private server or be set up as an online service allowing flexibility of deployment to suit all industry service providers (private and government).

Screenshots: