

## SECURITY

# Global-ID A Single-On Solution

### 1. BACKGROUND //

AAR Corporation is an independent provider of aviation services to commercial and government customers who are located in over 100 countries world-wide. The company has more than 5,500 employees in 20 countries. In 2009, the company's CIO realized they needed a secure but simple portal to allow employees to sign on to. This Single Sign-On concept would allow employees from locations throughout the world to access different servers, different databases, and different application programs, based on their unique credentials and permissions.

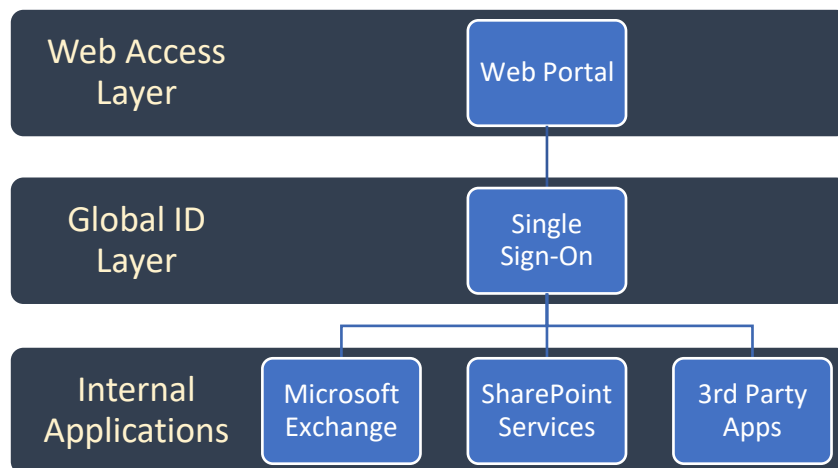
### 2. THE CHALLENGE //

The Single Sign-On solution had to be web-based and require quick response time allowing users to access the system from remote areas where network connectivity could be slow and unreliable. Another key requirement was the system had to be highly secure and able to pass weekly penetration tests that were designed to test the systems security. Additionally, as with any large enterprise, the applications being used by the company do not use the same backend database and are often on different platforms and servers. Finally, the final layer of third party applications created the complex maze through which DATA3 had to securely navigate in designing the

### 3. THE SOLUTION //

Management engaged DATA3 to design and implement a web portal that could solve the problem. With our extensive knowledge in application design, and architecture, DATA3 developed a single sign-on web portal that is known as Global ID. This proprietary product uses DATA3's exclusive software development methodology, custom APIs, and encryption schemes. Applying DATA3's Enterprise Focused Software (EFS) principles, DATA3 was able to create a web portal that offered a true Single Sign-On by use of its proprietary Global ID technology. The proposed solution allowed single Sign-On to multiple independent systems including Microsoft Exchange and SharePoint Portal.

The illustration below provides an overview of the different layers that were used to create this Single Sign-On Solution. In the design process our experts were able to create a seamless integration between dissimilar systems. The application required in-depth programming knowledge of Active Directory, Microsoft Exchange, SharePoint and various security and encryption standards.



Aside from security and O/S updates and patches, the system has not required any bug fixes or application specific patches since its launch. It is accessed by 5,500 users from across the globe. Every day over 5,500 users seamlessly and securely log on to servers, databases, and other 3<sup>rd</sup> Party applications located across the globe. Global ID by DATA3 allows AAR Corporation to provide a secure Web-Portal functioning as a common gateway for its employees to access various applications through a Single Sign-On.



## About DATA3

DATA3 is a Tulsa based company at CityPlex Towers that has been in business since 2001. The company provides the following services:

- Datacenter
- Business Continuity Planning
- Software Development

The company operates three datacenters with a combined datacenter space of over 18,000 sq. ft. with another 35,000 sq. ft. available for business continuity services.

The company also offers custom software and mobile development using its proprietary Enterprise Focused Software (EFS) strategy. Its web portals and Single Sign-On solutions are accessed by customers from over 35 different countries.

Some of its customers include American Airlines, ONEOK Energy, Pop TV (previously known as TV Guide), AAR Corporation and BAE SYSTEMS.

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