



***i*AM: What is it?**

Identity and Access Management
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What is *iAM*?

- *iAM* is:
 - *Standards & practices* for ensuring authorized and secure access to institutional information technology resources
 - *Technical infrastructure* or “middleware” to support those practices



What do we mean by standards and practices?

- Provides answers to the following questions (e.g.):
 - Who gets access to which information resources and under what circumstances?
 - What are the relevant laws and institutional policies that define access?
 - Who decides and sets the access policies?
 - How do we know that laws and institutional policies are being followed?
 - What do we need to know and maintain about individuals (“identity data”) in order to provide them with appropriate access?
 - How do we ensure security and privacy of identity data?



What do we mean by technical infrastructure (“middleware”)?

- Integrated tools that provide the following capabilities (sample):
 - Establishing a digital id when a new user joins the organization (“enrollment”)
 - Creating through automation the user accounts and access rights to information resources for a new user; or, modifying account and access rights when there is a change in the status of an existing user (“provisioning”)
 - Verifying (“authentication”) that an individual is who they say they are when they try to obtain access to an information resource
 - Once verified, providing that individual with access to a resource based on pre-defined permissions (“authorization”)
 - Retiring the digital id and removing access rights when an individual leaves the organization (“de-provisioning”)
 - Providing a comprehensive audit trail to verify compliance to laws and policies (“audit & compliance”)
 - Providing a standard methods for data exchange between systems and applications (“interfaces”)



Where is *iAM* in the technology stack?

Applications

ISRS, D2L, Data Warehouse, eFolio, iSeek,

identity and access management

Middleware

Authentication, Authorization, Directory, Interfaces

Database

Oracle, SQL Server, MySQL

Web, App Server

Apache, IIS, Tomcat, JBOSS

Operating Sys

Solaris, Windows, OpenVMS, Linux

Storage. Backup

SAN, Enterprise Tape Library, Legato Backup

Data Center

Primary (WBOB), Secondary (COB), NOC

Network

Wide Area Network, Internet 2, MnSAT



Why is *iAM* important?

- It's the technology infrastructure which
 - defines the “access points” into all applications and information services
 - manages identity data, including social security #s, across all systems
- It's the management practice that
 - determines access policies for all information resources
 - oversees compliance with laws and institutional policies



The *iAM* Vision

- All Minnesota State Colleges and Universities students, faculty, staff and clientele are able to access information resources using secure credentials through a seamless technology infrastructure.

I AM taking courses at multiple institutions

I AM a student



I AM an alumnus



I AM a professor



I AM an administrator





*i*AM “mantra”

- Provide the right access to the right people at the right time