A CASE OF IDENTITY

Building Solutions to Assist





WHAT IS IDENTITY & ACCESS MANAGEMENT?

Identity and access management (IAM) technologies and services enable the right individuals to access the right resources at the right times for the right reasons.

We all use IAM solutions many times a day:

- Logging in to websites, servers, and other resources
- Accessing research materials at Harvard and beyond
- Checking a colleague's calendar for a meeting
- Adding, removing, or changing employee records

At Harvard, the IAM program exists to streamline these interactions and make it easier for you to do your day-to-day tasks.

WHAT IS IDENTITY & ACCESS MANAGEMENT?

Our vision: Provide users, application owners, and IT administrative staff with secure, easy access to applications; solutions that require fewer login credentials; the ability to collaborate across and beyond Harvard; and improved security and auditing.

Objectives

Simplify User Experience

Simplify and improve access to applications and information inside and outside of the University

Enable Research & Collaboration

Make it easier for faculty, staff, and students to research and collaborate within the University and with other institutions

Protect University Resources

Improve the security stature of the University via a standard approach

Facilitate Technology Innovation

Establish a strong foundation for IAM to enable user access regardless of new and/or disruptive technologies

Guiding Principles

Harvard Community needs will drive our technology

Tactical project planning will remain aligned with the program's strategic objectives

Solution design should allow for other Schools to use foundational services to communicate with the IAM system in a consistent, federated fashion

Communication and socialization are critical to our success

Key Performance Indicators

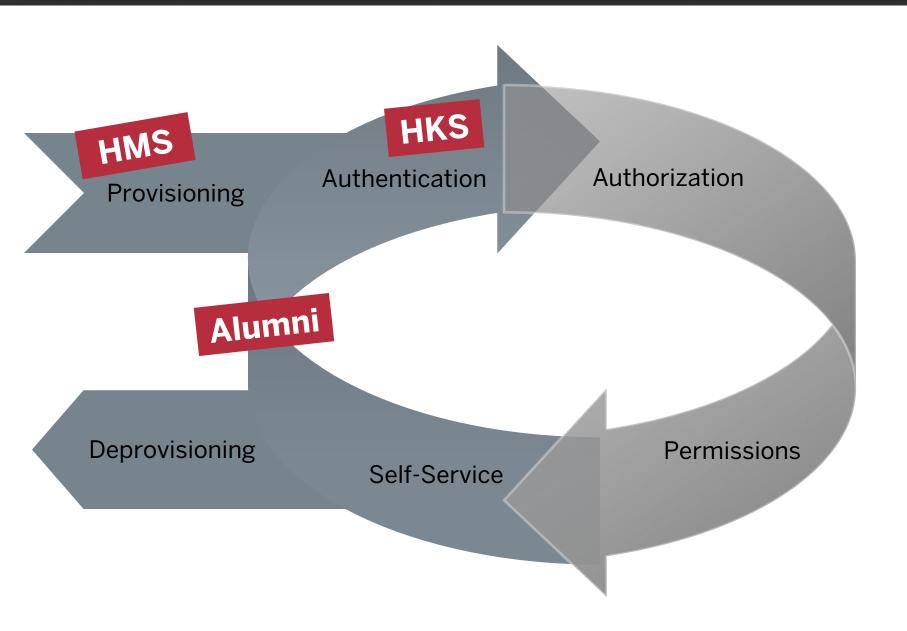
Monthly number of help desk requests relating to account management

Monthly number of registered production applications using IAM systems

Monthly number of user logins and access requests through IAM systems

Monthly number of production systems to which IAM provisions

ABOUT THE IDENTITY LIFECYCLE



ABOUT PROVISIONING

Provisioning and deprovisioning are key to the IAM program:

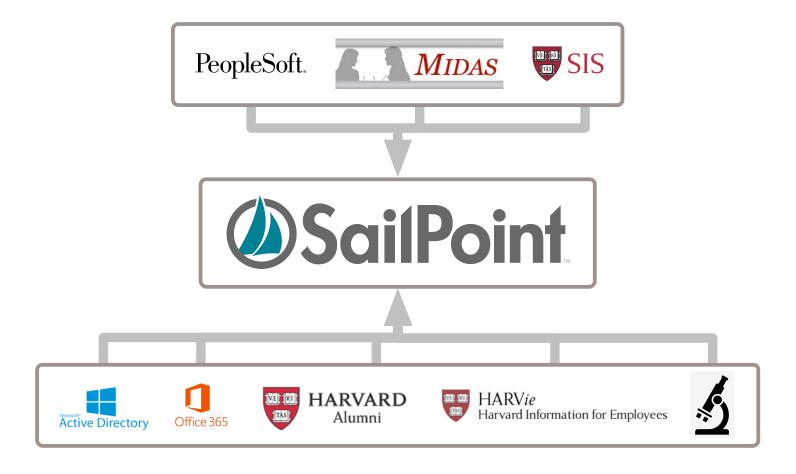
- Add new users quickly and accurately
- Reduce manual processes and delays by issuing access through a central identity store
- Make role changes simpler and easier
- Streamline the revocation of access when it's necessary

The IAM program will be using SailPoint IdentityIIQ to manage provisioning and deprovisioning.



A SINGLE SOURCE OF RECORD

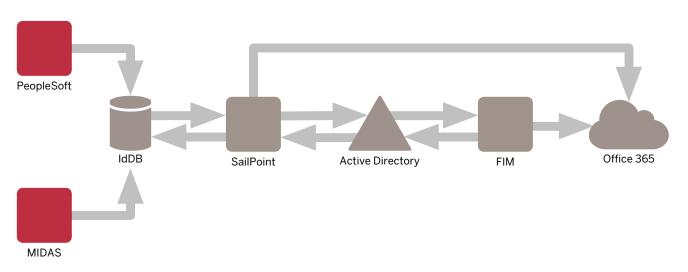
As a "single source of truth" for identity data, Sailpoint IdentityIQ will be used to manage identities across the University that then feed into all Harvard systems of record.



CHANGES TO SAILPOINT RELEASE TIMELINE

However, initial integration is complex work. Complications exist because we have a lot of ways for records to be updated today.

Example: A critical defect found while testing the SailPoint foundation release would have allowed University Active Directory (AD) email attributes to be overwritten — including email addresses.



Process Flow	Time Period	0 min	5 min	10 min	20 min	30 min	40 min	50 min	60 min
1. IdDB Read	Every 15 min								
2. Provisioning Update AD	User-controlled			XXXXX					XXXXX
3. AD Read	End of IdDB read		Х				X		

Red areas indicate overwrite danger time period.

CHANGES TO SAILPOINT RELEASE TIMELINE

There are known cases of when University AD is manually updated outside of a central provisioning toolset like SailPoint:

- AD system administrators perform routine updates to individual user accounts
- When migrating to O365, scripts update University AD to account for modified email attributes
- Adding new user Exchange mailboxes and Lync accounts also requires edits to attributes managed by SailPoint

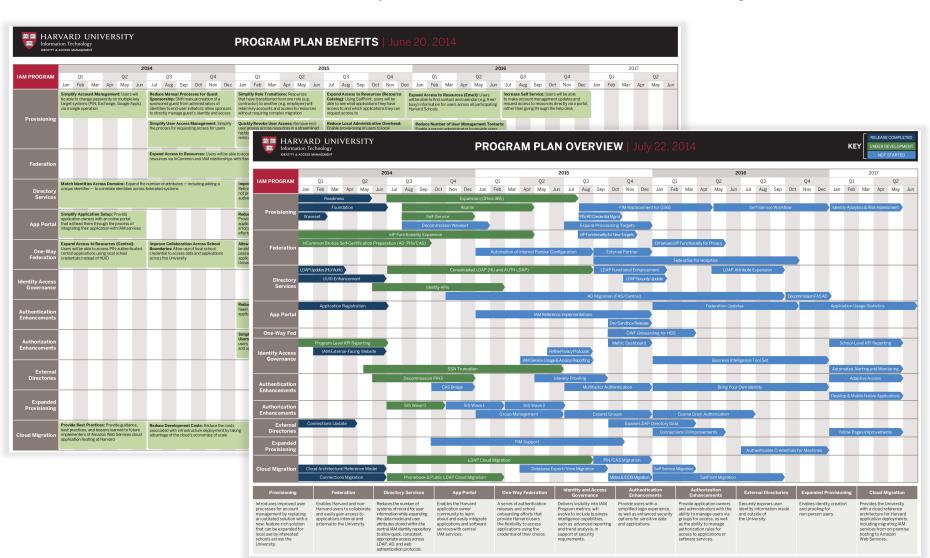
The *timing* of these update cases could impact the accuracy of account attributes managed by SailPoint.

Stakeholder	Experience Today	Future Goals		
	Different user names and credentials to access Harvard and non-Harvard apps and data	Access information and perform research across schools (and with other institutions) using a single credential		
End Users	Creating and managing user accounts is manual and paper-based	Manage own accounts and sponsor others through a centralized web application		
	No access to external sites, or forced to register for accounts	Use internal Harvard credentials to access common external sites		
	Access to services and resources interrupted when users change, add, or leave roles	Use the same set of credentials despite changes in status, roles, or affiliations		
Application Owners	Tough to integrate access management, meaning long implementation timelines and higher costs	Easily integrate Harvard users with internal and external applications via an application portal		
	Forced to grant application access to users with the same rights on a one-by-one basis	Control user access in groups, not individuals		
People Administrators	Must create sponsored guest identities manually, resulting in delays and loss of productivity	Sponsors can create and manage external parties' identity and access		
	Can't streamline deprovisioning of users' access privileges across multiple systems	Automated provisioning reduces the burden on people administrators of disparate systems and improves Harvard's security posture		

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Check the handout to see our plan and benefits broken down by deliverable.



IAM: IN SUMMARY

- Identity begins at the first login screen
- IAM exists to make onboarding, day-to-day use, role changes and access to resources easier for everyone in the Harvard Community
- Our efforts will improve productivity and make dayto-day life simpler for faculty, staff, students, researchers, people administrators, application owners, and more
- And when IAM services are done right, you don't even notice the effects — things just work

Take the mystery out of identity.

Learn more about our program at iam.harvard.edu

