



Identity and Access Management at NC State

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Mark Scheible
Identity and Access Management



Introduction

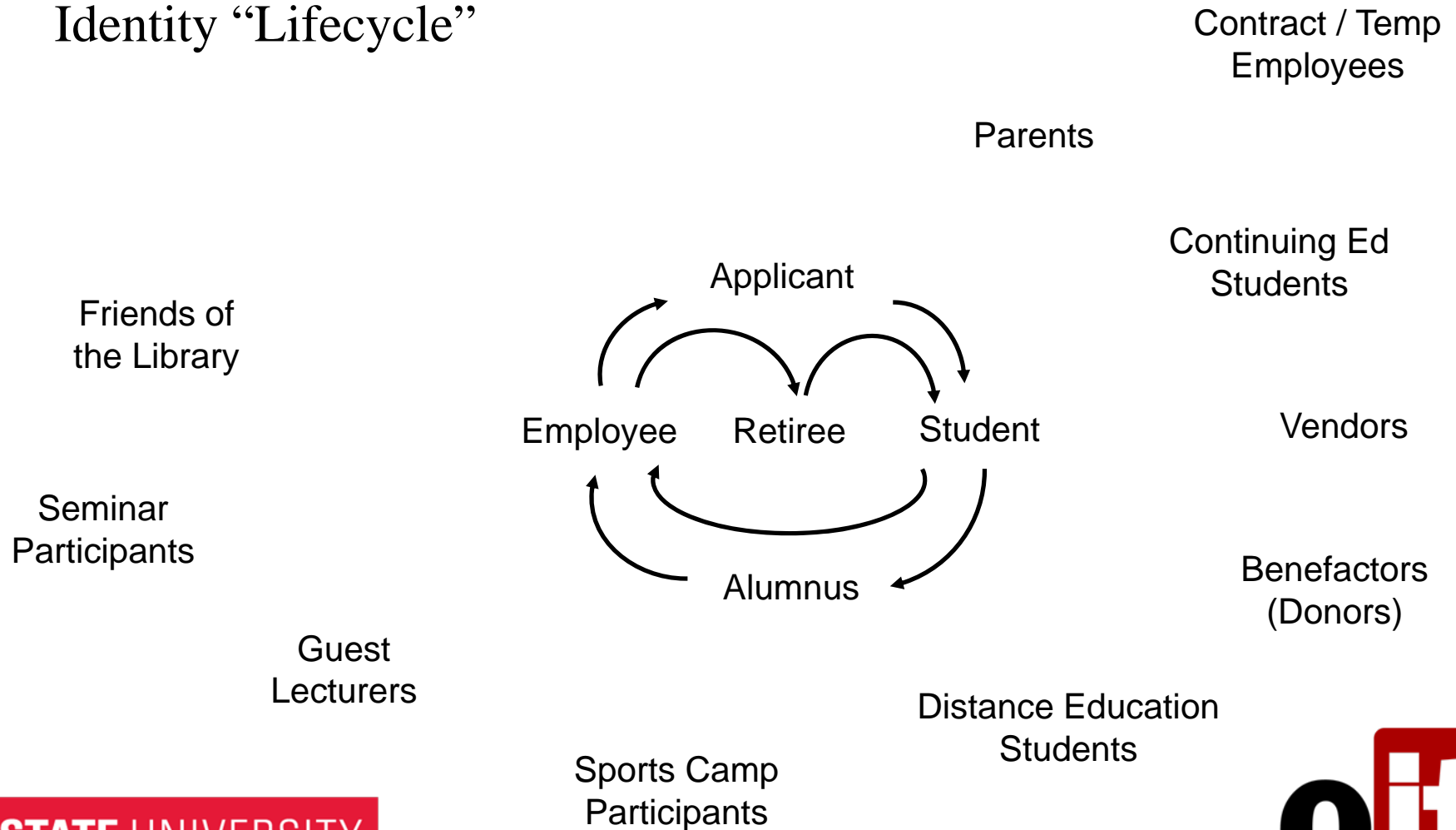
Identity Management and Access Management are fairly simple concepts, but the process of implementing an IAM program at a large University with a very diverse infrastructure of authentication and directory services is not something to be taken lightly. This session attempts to highlight some of the challenges OIT and the University face in streamlining IAM at NC State.

Changing Climate ... and Drivers

- *New OIT Organization, new teams, new CIO/VCIT*
- *Increasing interest in Identity Federations (more on this later)*
- *Increased focus on Identities (Identity Theft), Privacy Laws and Regulations*
- *A need to provide services to a growing group of University “Affiliates”*
- *Budget constraints*

Major Areas of Interest ...

1. Identity “Lifecycle”



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2. Authentication

Active Directory
Account

Unity Account
(Kerberos)

Groupwise Account

Novell Client Login

Remedy Account

MyPack Portal

WRAP

SybaseID

Major Areas of Interest ...

1. Identity “Lifecycle”
2. Authentication
3. Authorization / Access

System Access Request (SAR)

Group Membership (Hesiod)

Group Membership (Active Directory)

Miscellaneous ACLs

Major Areas of Interest ...

1. Identity “Lifecycle”

2. Authentication

3. Authorization / Access

4. Directory Services

Hesiod
Directory Data

Other
Smaller ADs
and
eDirectories

WolfTech
Active
Directory

Unity Active
Directory

eDirectory
NCSUNDS Tree

OpenLDAP
Directory Data

eDirectory
ETSS Auth
Tree

Major Areas of Interest ...

1. Identity “Lifecycle”

Identity Federations use **Shibboleth** to provide attribute exchange between Identity Providers (IdP) and Service Providers (SP)

2. Authentication

NC State is currently a member of the UNC System Federation

3. Authorization / Access

We’re also participating in a K20 Federation Pilot for LEAs, Community Colleges and Universities in North Carolina called the **NCTrust Pilot** (presentation this afternoon)

4. Directory Services

Authentication at the LOCAL Institution

Services/Resources exist at remote institutions

5. Identity Federation

Access is via user attributes (based on **identity** information, and stored in **Directories**)

Authentication and access is
“Privacy Preserving”

Next Steps ...

- *Determine what can be done short term to improve the IAM infrastructure based upon priorities (drivers) and availability of resources*
- *Continue to identify additional pieces of the puzzle*
- *Develop a Roadmap for Identity and Access Management at NC State, and form collaborative teams to discuss concerns and options*
- *Begin longer term projects as priorities and resources dictate*

Questions?

email: mark_scheible@ncsu.edu