NC Education Cloud
Identity Management Webinar
March 22, 2011
Webinar Overview

• NCTIES Review + updates

• Local & Central Directory Integration Discussion
  • Q&A

• Local & Cloud Services Discussion
  • Q&A

• Wrap-up + next steps
NCTIES Review

• Purpose of NCTIES Presentation
• Cloud Plan Development Process
• Some initial observation
• IAM System and Components
• LEA Questions
Identity and Access Management (IAM) System has 3 Major Components

1. **Central Data Repository**
   The central repository will be comprised of relevant user data from various authoritative data sources

2. **Central Directory Service**
   The central directory will contain all user IDs, passwords, and other identity information. It will serve as master authentication and authorization point for all cloud-based services and allow syncing to LEAs

3. **Federation Software**
   The federation software security extends identity information to cloud-based services providing end users with single sign on experience
Big Picture

NC Education Cloud Services

NCWISE Coordinator

HRMS Coordinator

Authoritative Data Sources

IAM System

Central Data Repository
Central Directory Service
Federation Software

Local LEA Directory Service

Local LEA Directory Service

Local LEA Directory Service

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Local LEA Directory Service
Update since NCTIES

- Site Interviews
- IAM Architecture Document
- Cloud Current Projects Page for IAM
- Identity Management Working Group
- Building a list of FAQs
User Account Provisioning

**Step 1**
NCWISE and HRMS Coordinators manage users information as normal

**Step 2**
Student and HR data is propagated to IAM system

**Step 3**
User accounts are provisioned in IAM System and granted access to new Cloud Services and current LEA services
Local LEA and IAM Directory Integration

Local users log into devices and authenticate against Local LEA Directory Service as normal.

Local LEA Directory Service can sync to Central Directory Service for global user accounts.

Central Directory Service gets provisioned from Authoritative Data Sources.
Local LEA and IAM Directory Integration

Local LEA Directory Service

Local LEA Directory Service could be Open Directory, Active Directory, or eDirectory

Synced Global Users from Central Directory Service
- Local Users
- Local Applications
- Local Printers
- Local Workstations
- Local Servers
- Other local stuff

Local users log into devices and authenticate against Local LEA Directory Service as normal.
Local and Central Directory Discussion

• Ideas for how central and local directory could interact
• Interested in how this works now in LEAs
• How do you populate your current directory with user information?
• NCWISE and/or HRMS, other data sources?
• Q&A
• How cloud services will work with IAM
• How do accounts get provisioned to LEA Local and Cloud-based service now?
• Legacy applications that don’t play well with directory?
• Q&A
Messaging

• **Community Meetings:**
  • **Internal:** Consistent and frequent updates at: webinars, Quarterly RESA & TD Regions, DPI leadership, Pillar initiative teams, NCTIES, NCET
  • **External:** Vendors, providers, partners, COSN, peer state education organizations

• **Web site**—place for FAQ, Guidelines, Presentations, Organization, Team members, news, links to DPI & others: [http://cloud.fi.ncsu.edu](http://cloud.fi.ncsu.edu)

• **LEA Advisory Committee & Working Groups**

• **LEA site interviews**

• **Email Questions to** [cloudhelp@ncsu.edu](mailto:cloudhelp@ncsu.edu)