Webinar Overview

• Current Project Status

• Upcoming Project Work Items

• Q&A
Recall the “Big Picture” shared during the Previous Webinar, on March 22, 2011

**Vision:** "Every student, teacher/staff member, parent/guardian, and school community member has a single unique username/password to access learning resources in North Carolina"

**Challenges (Problem Statement):**
1. Too many accounts for current services
2. Cumbersome manual process of updating account information from NCWISE to disparate local systems and services
3. Need solid foundation for K-12 cloud solutions growth

http://cloud.fi.ncsu.edu/private/20110401.nc.rttt.iam.whitepaper.draft.pdf

The paper describes the IAM components (shown in the earlier, “Big Picture” slide) in greater detail.
Site Interviews

• We’ve joined site interviews at 5 LEAs so far
• Sammie
  • Alamance-Burlington School System
  • Granville County Schools
• Steve
  • Catawba County Schools
  • Durham Public Schools
  • Mooresville City Schools
IAM Working Group Formed

• Formed March 29
  • Initial call was April 1
  • Expect follow-on calls every month or two

• Purpose and Role of IAM Working Group:
  • Establish a communication model for exchanging ideas, concerns, and feedback between IAM Architects and local LEA representatives
  • Review and integrate information collected in the site interviews
  • Gather functional and non-functional requirements for developing a sustainable statewide IAM system
  • Define specifications about required technologies and system processes
# IAM Working Group Members

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<thead>
<tr>
<th>Region</th>
<th>Member(s)</th>
<th>School(s)</th>
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<tbody>
<tr>
<td>Region 1</td>
<td>Jeff Smith</td>
<td>Pitt County Schools</td>
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<td>Region 2</td>
<td>Wayne Beasley</td>
<td>Craven County Schools</td>
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<td>Region 3</td>
<td>Walter White</td>
<td>Wake County Schools</td>
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<td>Chris Withrow</td>
<td>Warren County Schools</td>
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<td>Mel Cherry</td>
<td>Northampton County Schools</td>
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<td>Region 4</td>
<td>Janice Harliss, Jordan Walsh</td>
<td>Montgomery County Schools, Moore County Schools</td>
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<td>Region 5</td>
<td>Mike Ingram, Lee Cummings, Betty Weycker, Candace Hosey</td>
<td>Thomasville City Schools, Rockingham County Schools, Winston-Salem/Forsyth County Schools, Alamance-Burlington County Schools</td>
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<td>Region 6</td>
<td>Michael Stocks, Susan Manning</td>
<td>Cabarrus County Schools, Charlotte-Mecklenburg Schools</td>
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<td>Region 7</td>
<td>Marty Sharpe, Robert Lane</td>
<td>Catawba County Schools, Mooresville Graded Schools</td>
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<td>Region 8</td>
<td>Michael Thompson</td>
<td>Rutherford County Schools</td>
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<td>Charter</td>
<td>FBO</td>
<td>Pine Lake Preparatory School</td>
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<td>At Large</td>
<td>William Haney</td>
<td>NC Information Technology Services</td>
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<td>At Large</td>
<td>Chanin Rivenbark</td>
<td>North Carolina Virtual Public School</td>
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<td>At Large</td>
<td>Robin Burley</td>
<td>NC Department of Public Instruction</td>
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Informal Vendor Discussions In Recent Months

- Identity Automation
- Ping Identity
- AegisUSA
- Radiant Logic
- IBM
- Microsoft
• IAM Cloud Team met with DPI
  • Goal: obtain NCWISE and HRMS data
  • Have initial “heartbeat” set up with DPI’s Managed File Transfer Service (MFTS), but do not have access to real data yet
  • In addition to “real” data, we seek sample/dummy data that could be shared with others (e.g. vendors)

• Sammie has set up a data generator process
  • Can be used to generate some basic simulated student data, until DPI issues are resolved
Other Communications

- ITS
- NC Virtual Public Schools
- Various Presentations
Upcoming Project Work Items (1)

• More Vendor Communications
• Continue Stakeholder Communications
• IAM working group activities
  • Want to create a thorough list of central administrative functions needed by local LEAs (password reset, user and group management, etc.)
Upcoming Project Work Items (2)

• Develop initial proof-of-concept’s to better understand problem and vendor offerings
  • Gather and/or generate (real or fake) input data
  • Store data into registry
  • Populate directory
  • Knobs to adjust authorized settings
  • Authenticate to a directory, from (TBD):
    • NC VPS?
    • Google?
    • Microsoft Live@EDU?
  • Central -> Local AD-sync
    • Authenticate from Local App
Upcoming IAM Timeline (Tentative)

- **Summer 2011:** Build prototype/proof of concept(s) to show stakeholders and use as a tool to refine requirements and specifications for RFPs

- **Fall 2011:** RFPs awarded and then Build / Test / Setup Central IAM System and Engage in LEA Pilot interest

- **Spring 2012:** Formal Pilots of IAM System

- **Summer 2012:** Transition to Production

- **Fall 2012:** Deploy in Production Mode with Phased LEA adoption
Open Q&A
Thank you!

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

• Email Questions to cloudhelp@ncsu.edu

• Sammie Carter, swcarter@ncsu.edu, 919-513-8513

• Steve Thorpe, thorpe@mcnc.org, 919-248-1161
REST OF SLIDES ARE ON THE BACK BURNER
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
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 users log into devices and authenticate against Local LEA Directory Service as normal.

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

Central Directory Service gets provisioned from Authoritative Data Sources