NC Education Cloud
Identity and Access Management Working Group
10 AM Thursday April 25, 2013

Outline

- General IAM Review

- Current Status of IAM-Managed Service with Updated Timeline

- Introduce the IAM-Managed Service Provider

- General IAM Working Group Involvement Process
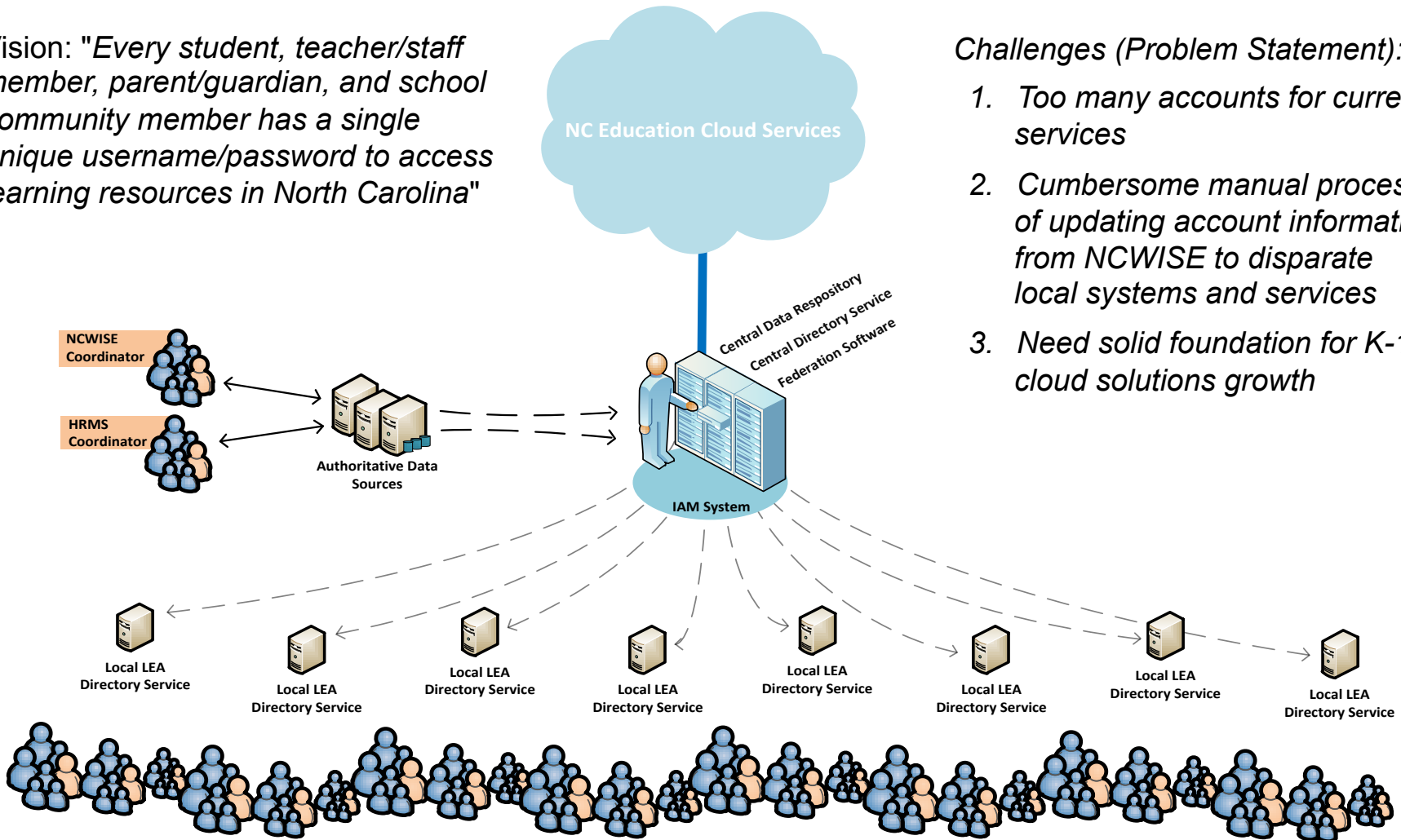
- Next Steps

- Q&A / Open Discussion

But First…

…. Let's do a quick roll call

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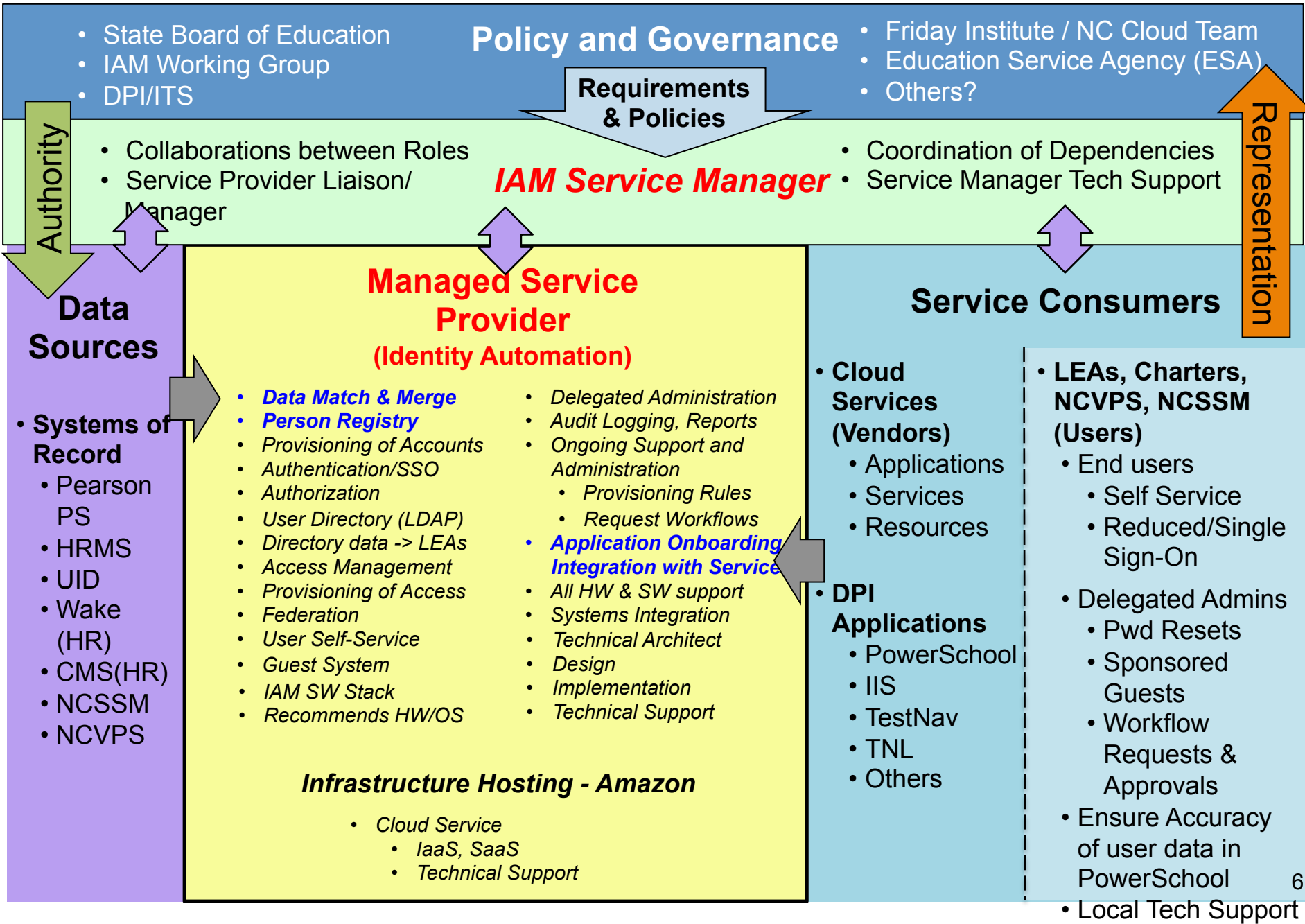
Recap: Recall the "Big Picture"

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*"

NC Education Cloud Services

NCWISE Coordinator

HRMS Coordinator

Authoritative Data Sources

Central Data Respository
Central Directory Service
Federation Software

IAM System

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*

Local LEA Directory Service

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IAM Service Model

Policy and Governance

- State Board of Education
- IAM Working Group
- DPI/ITS

- Friday Institute / NC Cloud Team
- Education Service Agency (ESA)
- Others?

Authority

Requirements & Policies

Representation

IAM Service Manager

- Collaborations between Roles
- Service Provider Liaison/ Manager

- Coordination of Dependencies
- Service Manager Tech Support

Data Sources

- **Systems of Record**
  - Pearson PS
  - HRMS
  - UID
  - Wake (HR)
  - CMS(HR)
  - NCSSM
  - NCVPS

Managed Service Provider
(Identity Automation)

- ***Data Match & Merge***
- ***Person Registry***
- *Provisioning of Accounts*
- *Authentication/SSO*
- *Authorization*
- *User Directory (LDAP)*
- *Directory data -> LEAs*
- *Access Management*
- *Provisioning of Access*
- *Federation*
- *User Self-Service*
- *Guest System*
- *IAM SW Stack*
- *Recommends HW/OS*

- *Delegated Administration*
- *Audit Logging, Reports*
- *Ongoing Support and Administration*
  - *Provisioning Rules*
  - *Request Workflows*
- ***Application Onboarding Integration with Service***
- *All HW & SW support*
- *Systems Integration*
- *Technical Architect*
- *Design*
- *Implementation*
- *Technical Support*

Infrastructure Hosting - Amazon

- *Cloud Service*
  - *IaaS, SaaS*
  - *Technical Support*

Service Consumers

- **Cloud Services (Vendors)**
  - Applications
  - Services
  - Resources

- **DPI Applications**
  - PowerSchool
  - IIS
  - TestNav
  - TNL
  - Others

- **LEAs, Charters, NCVPS, NCSSM (Users)**
  - End users
    - Self Service
    - Reduced/Single Sign-On
  - Delegated Admins
    - Pwd Resets
    - Sponsored Guests
    - Workflow Requests & Approvals
  - Ensure Accuracy of user data in PowerSchool
  - Local Tech Support

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IAM and HomeBase FACTS

- The IAM Service is <u>one</u> of the NC Education Cloud program initatives for the LEAs, like iSeries, NCLOR, etc.

- Pearson and DPI are building a SSO solution (temporary) for the HomeBase applications for 2013-2014 rollout

- HomeBase is NOT using the NC Education Cloud IAM Service initially (because the Service does not exist yet)

- The plan is for HomeBase applications to use the IAM Service for the 2014-2015 academic year

Current Status

- The unanimous choice of the evaluation committee was:
  - **Identity Automation** http://www.identityautomation.com/
  - Recommendation was approved by DPI and ITS

- Contract was signed on March 27, 2013 with the following terms: **$10,000,000 for 3 years ($7M Year 1 + $1.5M Year 2-3) paid with RttT funds.** Contract period is April 1, 2013 – March 31, 2016

- In Year 4+, the $1.5M recurring plus IAM Service Management (~$500K) for a total cost of **approximately $2,000,000 per year recurring for the Statewide IAM Service for K-12** is slated to be **paid from NC School Connectivity appropriation** based on 3 million accounts.

- IAM-MS work is now underway!!

- Assessment (due April 30, 2013) & technical documentation processes are the first phases of the contracted IAM-MS effort

- IAM Service Management (Support and Help Desk) being finalized now

Lee & Walter Comments

- Experiences over the past year

- On the selected IAM Managed Service provider

- Questions from Lee & Walter?

- Questions from the IAM-WG?

(depending on timing, we may wish to defer some Q&A until the open discussion at the end)

Tentative Schedule – Had to Adjust ☹

Phase I – Research and Planning
Tentative Schedule: October 2010 – October 2011 (12 Months)

Phase II – Establish Service Model
Tentative Schedule: November 2011 – ~~June 2012 (8 Months)~~
~~December 2012 (14 Months)~~
May/June 2013 (18-19 Months)

Phase III – Build and Implementation
Tentative Schedule: ~~July 2012 – June 2013~~
~~January 2013 – December 2013~~
April 2013 – March 2014 (12 Months)

Phase IV – Full Production and Operation
Tentative Schedule: ~~July 2013~~ – Ongoing
~~January 2014~~
April 2014

Phase III – Build and Implementation Tentative Schedule: April 2013 – March 2014

Phase	Start Date	End Date
Assessment	4/1/2013	4/30/2013
Design	5/1/2013	6/30/2013
Build	7/1/2013	7/31/2013
Test	8/1/2013	9/30/2013
Deploy	10/1/2013	3/31/2014

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Identity Automation has a deep background in Identity, Data and Access Management.

We are experts in the education space and have a unique understanding of K12 needs in the IAM area.

Steven Hatch, IdAuto Service Manager
Troy Moreland, System Architect
James Litton, Executive Management

http://www.identityautomation.com

Identity Automation Software

- Access Request Management System (ARMS)
  Self Service and Delegation

- Data Synchronization System (DSS)
  Identity and Data Management Tool

- Device Management System (DMS)
  Identity-driven Android Device Management

- Federated Identity Management System (FIMS)
  SAML Identity Provider

- Folder Management System (FMS)
  Identity-driven Storage Management

Identity Automation for LEAs

"As part of our overall IAM-MS solution, Identity Automation is making it's ARMS and DSS software available to all participating North Carolina LEAs so they can fully leverage the provided IAM-MS solution for Identity and/or Data Management integration to on-premise and out of scope cloud based systems. The software will be provided free-of- charge for the duration of the IAM-MS Contract with no limitations, no required maintenance or subscription costs and free of any other usage fees."

To take advantage of this offer, please contact the Identity Automation Sales Team at 281-220-0021 or sales@idauto.net and inform them that you are a North Carolina LEA and you will be engaged in our normal sales process to assess the specific needs of our district.
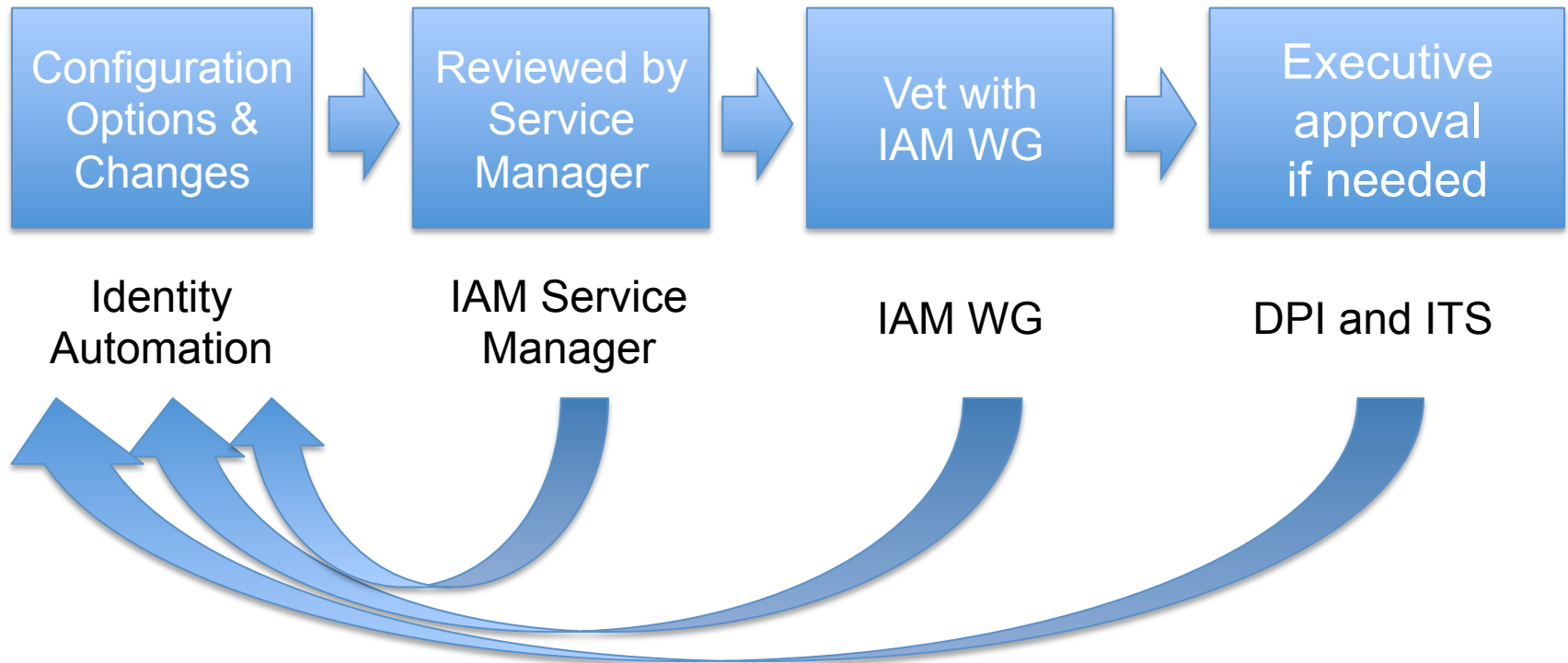
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IAM Working Group Process

- Would like WG to be key part of policy and governance – in particular regarding answering questions on policy / configuration / usage issues

- During April 2013 through March 2014, the policy and governance role will be critical, as that is the year for development / pilot / moving to production

- Establish meeting schedule (standing meetings?)

Workflow for Configuration Changes to IAM-MS

Configuration Options & Changes	→	Reviewed by Service Manager	→	Vet with IAM WG	→	Executive approval if needed
Identity Automation		IAM Service Manager		IAM WG		DPI and ITS

Answers Back to Identity Automation
More significant changes require higher approval

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Next Steps

- General Cloud / IAM Webinar to the wider LEA community (beyond the IAM-WG)

- Future IAM-WG webinar will take a deeper look at the Identity Automation Service

- <Add your items here….>

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Open Q&A + Contact Info

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

- IAM WG Email List is cloud-iam@lists.ncsu.edu

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

- Mark Scheible, mscheible@mcnc.org, 919-248-1997

- Steve Thorpe, thorpe@mcnc.org, 919-248-1161