Data Collection Working Group
June 7, 2011
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Agenda

• Update on Site Interview Data
• Review Components of the Cloud Plan
• Roadmap for Data Collection
• Q&A
• Wrap-Up
Projects to inform the Cloud Plan
Goals, Summary & Status

- LEA & Charter site interviews
- Identity & Access Management
- Data Collection & Analysis
- Instructional Content Systems
- Consortium Buying
- Enterprise Infrastructure & Applications
- iSeries RFP
- Content Filtering and Firewall
• Build work plan, gather resources....Completed
• Conduct site interviews.....Complete in August
• Conduct projects to inform Plan...11/1/2011
• DRAFT plan.....................June 2011
• Approved Plan..................August 2011
• Build detailed implementation plans...4Q2011
• RFPs.................................3Q2011-2Q2012
• Develop, Pilot, Deploy services 4Q2011-4Q2012
• Migrate and operate............4Q2011-4Q2014
Recommendations

• Modernize finance, budget, HR, and operational support systems.

• Deploy a shared learning infrastructure that includes:
  • A learning object repository and collections management system
  • Data management tools (operational data store)
  • Identity and access management
  • Open access methodologies

• Transition LEA infrastructure to a cloud-centric service model.
Recommendations [2]

• Form an **education service agency** and support network.

• Initiate a **digital inclusion** model to address anywhere any time access to the Shared Learning Infrastructure platform.
## LEA & Charter Site Interviews

### Goals
- Communications/community education
- Data collection to support/validate NC Education Cloud plan development – align services with K12 community needs and environments

### Status
- Fifty-four (54) completed as of May 13, 2011
- Last phase will commence May 24, 2011 and complete August, 2011 – deeper dive in selected areas

### Summary of Findings (Partial List)

<table>
<thead>
<tr>
<th>General LEA Challenges</th>
<th>LEA Concerns w/ NC Education Cloud</th>
<th>Beneficial NC Education Cloud Services</th>
<th>Other Observations</th>
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<tbody>
<tr>
<td>Professional development</td>
<td>Recognizing the high cost of change (funding, resources, PD)</td>
<td>Identity Management</td>
<td>LEAs leveraging web hosting solution (eChalk, etc.) as an LMS/content management system. “One-stop shop” for teachers – acts as a portal</td>
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<td>Quantity and/or age of client devices (Technology Refresh)</td>
<td>Consistency/stability/continuity of funding</td>
<td>Internet filter, spam/malware protection</td>
<td>Identity Management for instructional platforms is cumbersome and time consuming</td>
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<td>Portfolio management/technology governance</td>
<td>Service security and reliability, data ownership</td>
<td>Digital content (eBooks, video streaming, etc.)</td>
<td>Majority of LEA expenditures related to integrated learning systems - significant debate regarding their effectiveness</td>
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<td>Tech and ITF Ratios</td>
<td>Decoupling integrated LEA systems</td>
<td>Consortium buying</td>
<td>100% On-line testing – significant challenge -- impossible</td>
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iSeries RFP

• Goals:
  • Migrate 20 LEAs from local infrastructure to cloud hosted infrastructure in FY12
  • Migrate all LEAs to cloud infrastructure in 3 years
• Currently reviewing vendor proposals
• Next Key Actions:
  • Negotiate & Award Contract
  • Identify 20 pilot LEAs
  • DPI & Pilot LEAs validate vendor migration, test, and schedule plans
• Goals:
  • To investigate and deploy contemporary analytics and business intelligence tools
  • Modify State TCO formulas to include cloud services
  • Streamline and automate data flows between LEAs, DPI, and technology systems

• Key actions to date
  • Formed Working Group
  • Initial Investigation of Business Intelligence Offerings

• Key actions next
  • Begin deep analysis of Site Interview & AMTR Data
  • Begin work on Total Cost of Ownership Modeling
Operational Data Store

NC Shared Infrastructure
- Content and Learning Management
- Identity and Access Management

Vendor Platforms
- Wireless Generation
- ThinkGate
- SAS K12 On Demand and EVaaS

LEA Data Platforms
- SAS
- IBM Lotus Domino
- Microsoft SharePoint

Assessment  |  Budget  |  HR  |  Student  |  Class  |  Licensure
What it Means For LEAs

• Three options for accessing your data
  • SAS K-12 onDemand Platform/AHR
  • Build your own dashboards on Oracle BI Platform
  • Bring your own analytics platform with standard data interfaces

• All districts have access to real-time and historic data
SAS K-12 onDemand

• Default Platform for BI Functions
• Will integrate both Dashboards and Query functions (ie AHR like things)
• Will be tied to other Cloud platforms as appropriate. (ie Identity Management, IIS, etc)
• AMTR and TCO will be integrated from the beginning
• Ability to integrate Enterprise Functions on an LEA by LEA basis
Other Options

• Oracle BI
  • Will be made available to LEAs
  • LEAs can build their own dashboards on top of this platform

• Bring your own platform
  • SAS Enterprise
  • Microsoft BI on SharePoint
  • Wireless Generation
Timelines

• 3Q2011: Testing Integration of DPI Systems and SAS K-12 onDemand Platform
• 4Q2011: Deploy Initial Version of SAS K-12 onDemand
• 2Q2012: Integrate AMTR/TCO
• Additional Q&A
More Cloud Information

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