SSAC Update

12.13.2011
Recall the Cloud Strategies

1. **Cloud-centric IT enterprise**
2. Shared Learning Infrastructure
   - Identity and Access Management
   - **Instructional Content Services**
3. Modernize business operations
   - i-Series RFP in final BAFO
   - HRMS centralization request from steering comm.
4. Dedicated support organization
   - eLC, SBE, GETC approvals in hand
5. Digital Inclusion
Project Update
Enterprise Services – qualifying the opportunities

• Benefit to the community – addresses significant challenge(s)
• Required to effectively use IIS or Instructional Content Systems
• Financial Analysis/ROI – funding opportunities
• Deployment level of difficulty/effort
• Complementary to IIS and Instructional Content Systems – aligns with vision/strategy
Enterprise Service Opportunities

• Solving the client device problem
• Local connectivity – sustainable infrastructure
• Enterprise applications
  – Web hosting
  – Email
  – IP Telephony
• Performance monitoring/management
Project Update
NC RttT Technology Snapshot

- Shared Infrastructure $11.2M
- Identity Management $1.2M
- Collaborative Tools $4.4M
- Learning Objects Repository $1.7M
- LMS/CMS $10.8M

Hosting Provider Data Centers

Cloud Infrastructure

Cloud Platform
Background

LMS/CMS
+ Collaborative Tools
+ Learning Object Repository

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Instructional Content Services
Challenges

1. Poor access to data and resources.
2. Integration, migration and provisioning of data and resources into and from services/tools.
3. Access to new learning and collaborative tools that are affordable.
Vision

NC teachers will have access to modern services to assist with online content discovery, creation, delivery and instruction in traditional classroom and distance learning environments.
Resource Sharing

Equitable access to educational resources.

Define services and processes for state procured (created, free or purchased) content to be accessible to all educators.
NC Education Cloud
Instructional Content Services

Service Model 1

LEA Self-Hosted LMS

Content Repository
Service Model 2

LEA Cloud-Hosted LMS

Content Repository
Service Model 3

NCEdCloud Service

Content Repository
Service Provisioning

NCEdCloud provided content services will be provisioned with LEA, school, teacher, class, student and parent data.

Plugs in to NCEdCloud Identity and Access Management (IAM) Service.
Financial Planning

Leveraging one time money to pay for service set-up, initial costs and migrations.

Will be ongoing operational costs.
Putting It All Together

There are four initiatives that comprise the ICS plan.
Initiative 1

Create an integration and provisioning platform for data and resources
Initiative 2

Create an Operational Data Store (ODS) to consolidate data
NC Education Cloud
ICS Data Integration and Provisioning

Cloud Services or LEAs

ODS

Data Integration and Provisioning Service

SIS

HR MS

LEA HR

SEA and/or LEA Source Data Systems

12/15/11
Initiative 3

Create a digital learning resource management system comprised of a Learning Object Repository (LOR) and resources.
Initiative 4

Create an integration and provisioning platform for learning management and collaborative tools
NC Education Cloud
ICS Big Picture 2014

Cloud Services
or LEAs

MoodleRooms
Bb
IIS
Google/MS
Pearson
GlobalScholar

ODS
Data Integration
Provisioning
SEA/LEA
Data

LOR
Resources Integration
Provisioning
SEA/LEA
Resources
NC Education Cloud
ICS Big Picture 2015+

SLI enabled Cloud Services

SLI Platform Tools/Services

SLI ODS

ODS

Data Integration Provisioning

Sea/Lea Data

Learn-Ing Maps

Lor

Resources Integration Provisioning

Sea/Lea Resources

IIS

Bb

MoodleRooms

Google/MS

GlobalScholar

Pearson
The Work

Specified in 4 Phases...
Phase 1

Planning, research, team building, and proof of concepts as needed
Phase 2

Establish policy and governance, service providers, service plan, procure platform service(s)
Phase 3

Build and implement services
Phase 4

Full production and operation
NC Education Cloud
Project Deployment Roadmap

Items in red are not in this project's scope.