UAB Cyber Security Initiative
Purpose of the Cyber Security Initiative?

To provide a secure Computing Environment

Individual Mechanisms → Single Source for Inventory and Asset Management

Current Reporting Environment → Secured Environment
Microsoft System Center Configuration Manager

“Utilizing a common system across campus to inventory and manage our assets”
Campus SCCM
Overview
Why Microsoft SCCM?

- Inventory collection for multiple OS platforms
- Key SCCM Features
  - Asset Intelligence and Inventory
  - Endpoint Protection
  - Software Update Management
  - Remote Management
Establishing a Campus Environment

- **September 2014**: Built and Deployed SCCM Environment
- **November 2014**: Expanded the SCCM Environment to support campus initiative
- **December 2014**: Department Integration & Pilot Kicked Off
- **Current**: Collecting Inventory for 2000+ Systems
## Campus SCCM Readiness Criteria

| General Factors                  | • Public or NAT IP Addresses  
|                                 | • SCCM not currently deployed  
|                                 | • Systems can initiate communication with SCCM  
| **OS Requirements**             | • Windows 7 / Windows 2003 or Later  
|                                 | • Supported versions of Mac / Linux / Unix  
| **Disk Space**                   | • Systems have 500 MB Free (5 GB Preferred)  

Campus SCCM Agent Deployment Process

- Complete Readiness Survey & Address Gaps
- Submit AskIT Ticket to Participate
- Determine SCCM Agent Deployment Methods
- Test SCCM Agent Deployments
- Deploy SCCM Agents
- Complete Feedback Survey
Campus SCCM Benefits

Features and Roadmap
Microsoft SCCM Features

- Computer Asset Reporting
- Remote Management
- Managing Virus Protection
- Deploying Microsoft Updates
Campus Microsoft SCCM Roadmap

- Application Deployment
  - Operating System Deployment
  - Managing Configuration Settings
  - Relocating User Profiles
Role Based Access

Administrators with the same Security Roles are still limited to the objects they can manage by Scope.

SCCM Security Roles

SCCM Security Scopes
Assistance and Training

- UAB IT will partner with you throughout the entire deployment process and is available to answer any questions you may have.

- We can provide training videos & additional documentation as needed.

- For professional training, we recommend Quickstart (www.quickstart.com).
Pilot Review

School of Engineering
School of Engineering Environment

- 31 Servers
  (Windows, Linux)

- 420 Desktop Computers
  (Windows, Mac, Linux)

- VDI for 300 concurrent desktops

Custom software & hardware management tool
Why we chose SCCM?

- We were invited to participate in the pilot by Interim VP of IT, Jeff Neyland.
- We wanted a management system that was more off the shelf than custom written.
- We were looking for efficient use of IT Staff time.
Our Implementation Experience

- Initial meeting with SCCM team
- Completion of Readiness Survey
- Deployed SCCM Client across network via custom script
- Upgraded Antivirus protection to Endpoint
- Created Collections for All ENG machines as well as by Department.
- Added policies to control which collection(s) should be allowed to receive Antivirus update, patches, and Remote Control.
Current Benefits

- Able to manage patched and unpatched machines more effectively
- Remote control has been effective when supporting users at different locations across campus
- Ease of monitoring of Anti-virus activity
Moving ahead with SCCM

- Additional Training to unlock and gain knowledge of the full potential that SCCM has to offer
- Applying 3rd party updates and software installation
- Supporting installation of software and updates on Macs
- Creating custom reports
Cyber Security Initiative

Next Steps for Campus
What is next?

- Timeline for reporting
  - August 14\textsuperscript{th} reporting only
  - August 21\textsuperscript{st} installing SCCM

- Scheduling Installations

- Prepare final report for campus review prior to UA system mandate date
Develop Advisory Teams

- Guidelines for identifying and reporting sensitive data
- Guidelines for risk mitigation
- Guidelines for maintaining and adding hardware
Together Create Campus Action Plan

- Identifying sensitive data
- Risk mitigation of reported inventory
- Adopting a single SCCM solution for the entire campus
Questions?