Kuali Coeus Application Security

Aug 15, 2013
Presentation Outline

• Kuali Coeus (KC) Introduction
• KC Application Security Document
  – Background
  – Goal
  – Scope
    • Shared Rice Context
    • Initial Assumptions
• Next Steps
• Questions / Feedback
Kuali Coeus - Introduction

Kuali Foundation

Kuali Coeus

Research Administration System

MIT Coeus

Kuali Systems

MSU Kuali Systems

KFS
KC
KPME
KRice
KS
Kuali OLE
KME
Kuali Ready
Preaward
Award
Compliance
KFS
KMM
KRice
OOI
KC
KC Application Security Document: Background & Goal
KC Application Security Document: Scope

• What is IdM?

• Kuali IdM Framework (KIM)

• KIM Usage within KC

• KC-KIM Configuration Plan for MSU
KC Application Security Document: Scope

What is IdM?

*Identity management (IdM) is the task of controlling information about users on computers. Such information includes information that authenticates the identity of a user, information that describes information and actions they are authorized to access and/or perform.*

(Wikipedia, 2013)
KC Application Security Document: Scope

Kuali IdM Framework

• KC built on Kuali Rice framework

• KC leverages Kuali Identity Management (KIM) module of Kuali Rice to implement application security
  ▪ Authentication
  ▪ Identity Maintenance
  ▪ Authorization
Kuali IdM Framework: Person Identity
KC Application Security Document: Scope

KIM Usage within KC

• KC-KIM Types
  – Unit
  – Unit Hierarchy

• Document Scoped Roles
  – Proposal, IRB Protocol etc... (Aggregator)

• Derived Roles
  – Principal Investigator
  – Unit Administrator
KC Application Security Document: Shared Rice Context
KC Person Data Requirements

KFS-KIM People Data: Current

Shared KIM People Data: Future

- People loaded into KIM now
- Addl. People to be loaded into KIM
- People NOT loaded into KIM
MSU Authentication Services
KC Application Security Document:
KC Access Requirements

• Only users with permissions can perform secure operations
• Preaward module access limited to active MSU Employees
  – Proposal Creator role granted automatically
  – PI role shall be served by a Regular Faculty, unless approved otherwise
• Award module access limited to active MSU Employees
• IRB module access limited to active MSU Employees, Students (loaded into KIM), IRB Members, external co-investigators
  – Protocol Creator role granted automatically to employees
KC Application Security Document:

Addl. Person Data Requirements

• Employee Base Salary made available for Proposal Personnel Budget module
• Fractional appointments made available.

Role Mapping Proposal:

Usage of Nested Roles, where possible

  – New roles to map to Business Roles
  – One or more System Roles mapped to Business Roles
KC Application Security: Next Steps

• Detailed Analysis (Aug 2013 – Apr 2014)
  – Impact analysis with other Kuali System owners
• Data Classification
  – Sensitivity Requirements (Aug 2013 – Apr 2014)
• Shared IdM Interface Upgrade
  – Interface Specification Update (Jul 2014)
  – Development (July 2014 – Feb 2015)
• Application Security Implementation* (Nov 2015)
Questions?
## Glossary

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
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<tbody>
<tr>
<td>IdM</td>
<td>Identity Management</td>
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<tr>
<td>IRB</td>
<td>Institutional Review Board</td>
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<tr>
<td>KC</td>
<td>Kuali Coeus, an open-source Research Administrative system developed by the Kuali Foundation</td>
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<tr>
<td>KFS</td>
<td>Kuali Financial System</td>
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<tr>
<td>KIM</td>
<td>Kuali Identity Management, one of the modules available in Kuali Rice software</td>
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<tr>
<td>KME</td>
<td>Kuali Mobility for the Enterprise</td>
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<td>KMM</td>
<td>Kuali Materiel Management, a Kuali Rice based stores application developed by MSU and UC Davis</td>
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<tr>
<td>KPME</td>
<td>Kuali People Management for the Enterprise</td>
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<tr>
<td>KRice</td>
<td>Kuali Rice, provides middleware suite of integrated products</td>
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<td>KS</td>
<td>Kuali Student</td>
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<tr>
<td>Kuali OLE</td>
<td>Kuali Open Library Environment</td>
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<tr>
<td>Kuali Ready</td>
<td>An open-source application developed by the Kuali Foundation, that facilitates business continuity planning</td>
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<tr>
<td>MIT Coeus</td>
<td>Research Administration system developed by MIT</td>
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<tr>
<td>MSU EDW</td>
<td>MSU’s Enterprise Data Warehouse</td>
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<tr>
<td>OOI</td>
<td>Organization of Interest, a Kuali Rice based application for managing Organizations, developed and implemented by MSU</td>
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