July 2010, COmanage Dev Call

COmanage: Vision & Strategy

Agenda

- Brand
- Products
- Requirements
- Reference Architecture
- Gap Analysis
- Priorities
- Next Steps

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COmanage Brand

- VO Infrastructure
- Leverages Federated Identity
- Implemented In Multiple Products
- Technology and A Way Of Life

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COmanage Products

- COmanage as a Service
- COmanage in a Box
- COmanage Integration Consulting
  - Assistance for DIY shops
- COmanage VO Management System
  - Basically Frontend, Provisioning
  - Foundational Technology for CaaS, CiaB
  - Recommended for DIY shops
    - But if you're not running it, then you're not running a COmanage instance
- COmanage Application Domestication Services

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Domestication Requirements

- Standards and Guidelines
  - Federated Authentication
  - External (+federated) Group Management
  - Provisioning, Deprovisioning
  - UI Integration
    - For some definition of "integration"
    - Portalesque? Just a link?
- Registry of Domesticated Applications

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VOMS Requirements

- Extrapolated from material to date
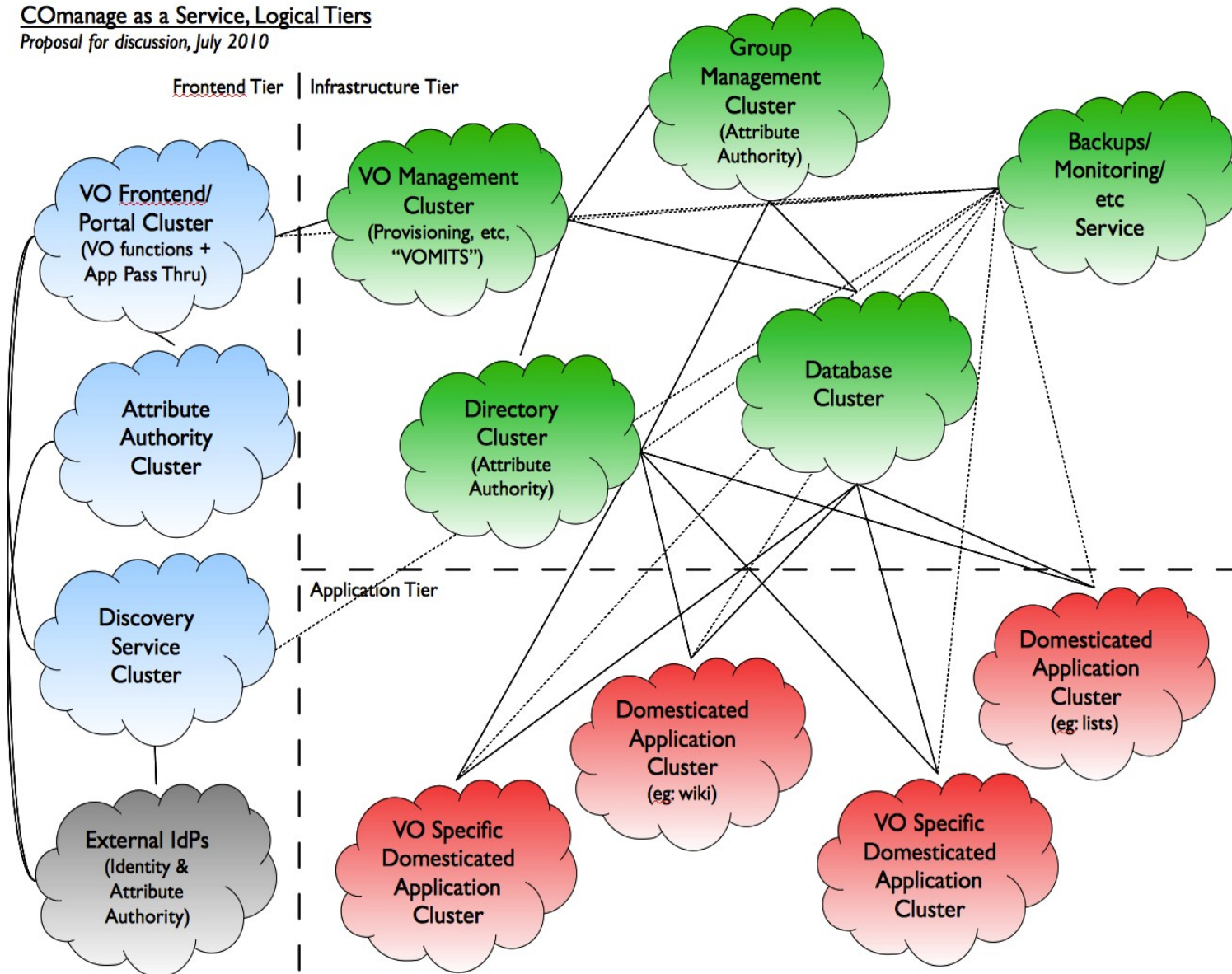- Need to talk to VOs to get better req's

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VOMS Requirements (Imagined)

- Add Person as CO aaS Admin
- Remove Person as CO aaS Admin
- Provision VO
- Deprovision VO
- Provision App to VO
- Deprovision App from VO
- Request Add Person to VO Directory
- Add Person to VO Directory
- Remove Person from VO Directory
- Add VO Admin Role to Person
- Remove VO Admin from Person
- Create VO Group
- Remove VO Group
- Add Person to VO Group
- Remove Person from VO Group
- Dynamic (group based) Person Provisioning to VO Applications
- Dynamic Person Deprovisioning from VO Applications

- Ad Hoc Person Provisioning to VO Applications
- Ad Hoc Person Deprovisioning from VO Applications
- Login to VO Portal
- Login to VO Applications
- View VO Public Content
- View Person History
- Reporting
- Provision Cluster Resources (Hardware, VM, etc)
- IP Address Registration/Management
- Application Upgrades
- OS Upgrades
- Backups

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COmanage Reference Architecture
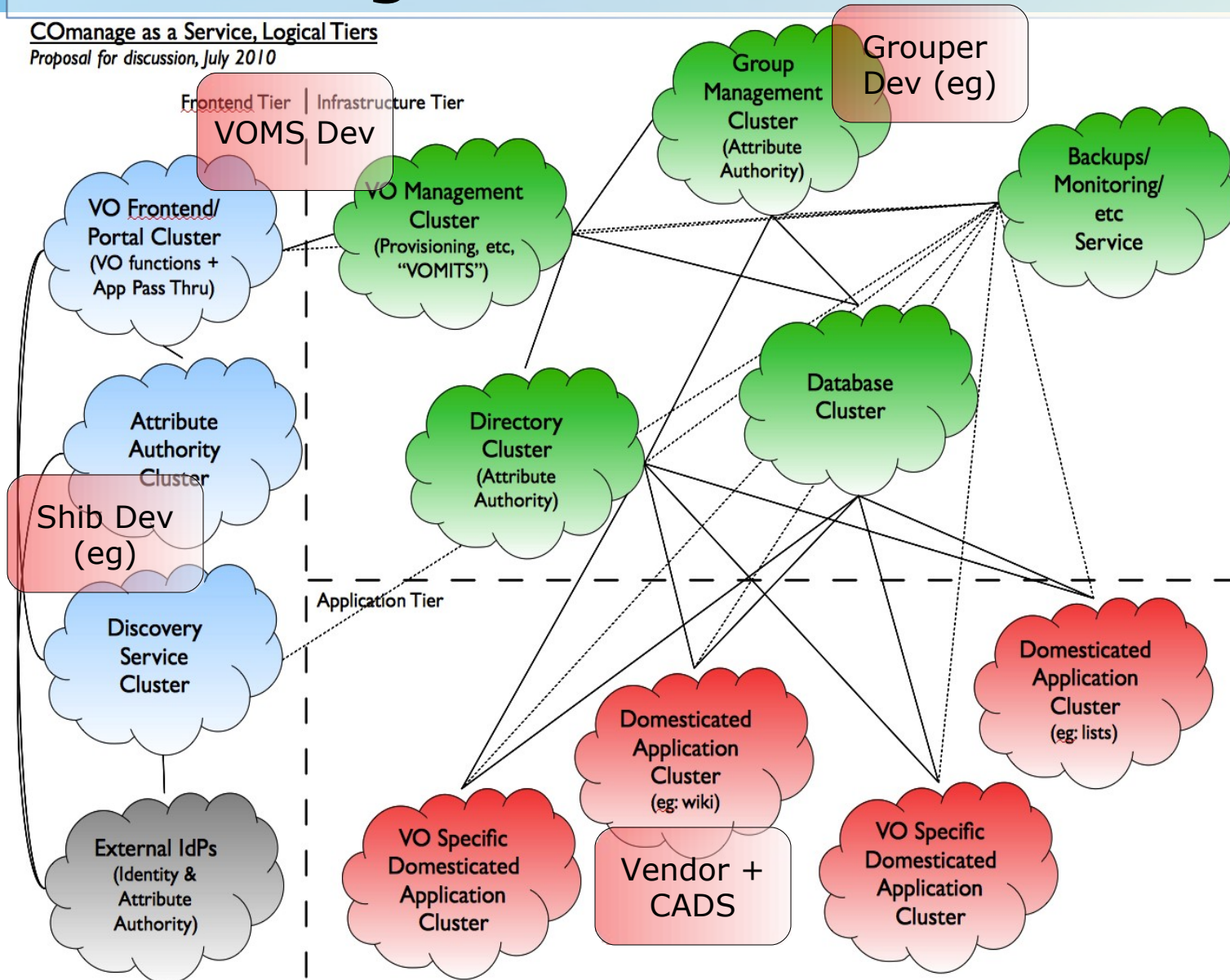

COmanage as a Service, Logical Tiers
Proposal for discussion, July 2010

Frontend Tier | Infrastructure Tier

Group Management Cluster (Attribute Authority)

Backups/ Monitoring/ etc Service

VO Frontend/ Portal Cluster (VO functions + App Pass Thru)

VO Management Cluster (Provisioning, etc, "VOMITS")

Attribute Authority Cluster

Directory Cluster (Attribute Authority)

Database Cluster

Discovery Service Cluster

Application Tier

Domesticated Application Cluster (eg: lists)

External IdPs (Identity & Attribute Authority)

VO Specific Domesticated Application Cluster

Domesticated Application Cluster (eg: wiki)

VO Specific Domesticated Application Cluster

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COmanage Reference Architecture

COmanage as a Service, Logical Tiers
Proposal for discussion, July 2010

Frontend Tier | Infrastructure Tier

VOMS Dev

Grouper Dev (eg)

Group Management Cluster (Attribute Authority)

Backups/ Monitoring/ etc Service

VO Frontend/ Portal Cluster (VO functions + App Pass Thru)

VO Management Cluster (Provisioning, etc, "VOMITS")

Attribute Authority Cluster

Shib Dev (eg)

Directory Cluster (Attribute Authority)

Database Cluster

Discovery Service Cluster

Application Tier

Domesticated Application Cluster (eg: lists)

External IdPs (Identity & Attribute Authority)

VO Specific Domesticated Application Cluster

Domesticated Application Cluster (eg: wiki)

Vendor + CADS

VO Specific Domesticated Application Cluster

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Gap Analysis

- Frontend (Console)
  - Confluence isn't it
  - Stanford BYO isn't it either
  - Random "my idea"s probably not it either
  - Gather requirements, evaluate options
    - Drupal, uPortal, etc
    - OpenSocial, JSR[12]68, etc
    - DIY
    - …
- VOMS (Middleware)

Gap Analysis

- User Discovery & Invitation
  - Better Discovery Service
  - How to invite someone to a VO
- Federated Group Management
  - Exchange protocol
    - Group data presumably needs to be cached, so provisioning, update, and deprovisioning rather than (or in addition to) on-demand query
  - Data ownership issues?
    - VO Groups built (partly) on Institutional Groups

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Gap Analysis

- Provisioning/Deprovisioning
  - To SPML or Not To SPML
  - To SPML and Not To SPML
- Domestication Guidelines
- Domestication Registry
- Domesticated Apps
- Marketing Materials
  - Whitepapers
  - Demos
  - Web Site

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Priorities (Cross Product)

- Adoption of Branding
- Gather VO Requirements
- VOMS Architecture
  - Reference Architecture
  - Console Design
  - Middleware Design
- Standards
  - Federated Groups
  - Provisioning
  - Domestication

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Priorities (Demo)

- Lightweight Two Browser
  - Demonstrate group membership add/delete and impact on application

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Next Steps: CaaS

- Figure out technology
  - Prototype CaaS
  - Design to be folded in with a larger offering (should it happen)
  - *Penn State / ESWN*
- Figure out business model and logistics
  - Scalable, sustainable hosted service for small to medium VOs
  - Built on VOMS platform
  - *I2 / InCommon*

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Next Steps: CiaB

- None, really
- Put this on hold pending use case / requirements
  - (Other than demos for Ken)

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Next Steps: CIC

- Figure out what exactly we can do for the larger VOs
  - Best practices, whitepapers, marketing
  - VOMS infrastructure
    - Console + Middleware
  - *Penn State + COmanage Dev*

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Next Steps: VOMS

- Gather functional requirements
  - *Penn State + COmanage Dev*
- Initial design for cross-product components
  - Frontend / Console
    - Invitation/Registration (uApprove?)
  - Look at New Discovery Service
  - Middleware Component
  - Provisioning / Deprovisioning
  - Federated Group Management?
  - *COmanage Dev + Grouper Dev + ACAMP*

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Next Steps: CADS

- Domestication Standards / Guidelines / Requirements / etc
  - *COmanage Dev + Dutch*
- Registry of Domesticated Applications
  - *COmanage Dev + Dutch*

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Next Steps: Branding & Sales

- Agree on model
  - *COmanage Dev*
- Overhaul internet2.edu/co and wiki
  - Set up comanage.internet2.edu
  - Add a Gap Analysis page
  - Also clean up JIRA and move this list there
  - *COmanage Dev*
- Solidify lightweight, interim demo
  - *COmanage Dev*
- Fix the logo so the gears can actually turn
  - *COmanage Dev*