Agenda

- Brief Overview of COmanage

- COmanage Registry v4.0.0

- COmanage Registry v4.1.0 and Getting to Registry v5.0.0

- COmanage Match v1.0.0

- Developer Group Update

- Training Update

- Governance Update

What is COmanage?

(What's old with COmanage?)

What Is COmanage [Registry]?

- **COmanage**™ Is The **Project**
- Registry Is The **Product**
  - *(Like "Shibboleth" and "IdP")*
  - A Person* Registry: A place to store information about people associated with your organization
    - *also groups, departments, organizations, email lists, services, authenticators, servers, and some other things*

What Is COmanage?

- Registry
  - Enrollment, Lifecycle, and Attribute Management
  - Complex representations of people with multiple components to their identity
    - Virtual Organization / Collaboration Management
    - Guest / Non-Traditional Population Management
    - University Identity Registry
- Match
  - Rule based record matching from multiple sources

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COmanage Institutional Reference Architecture
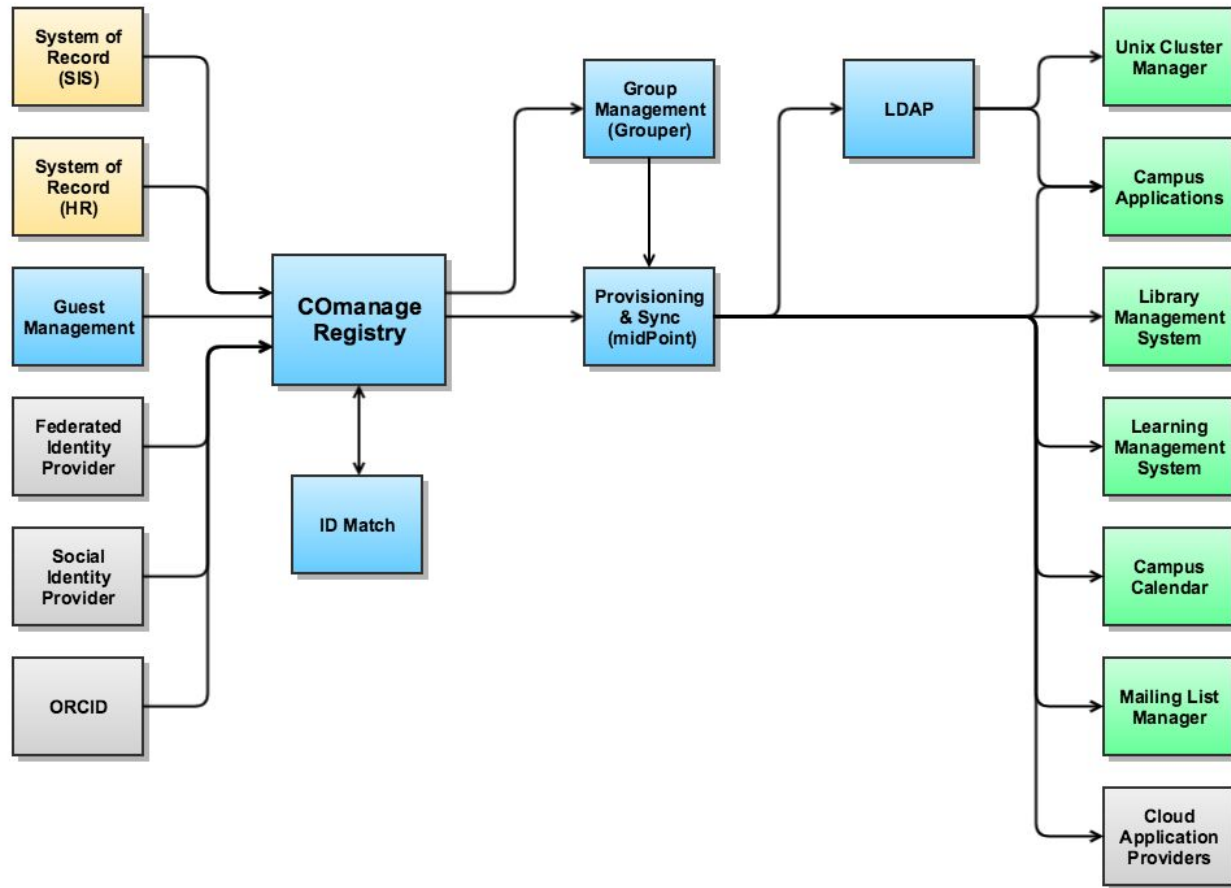
COmanage Registry Data Model
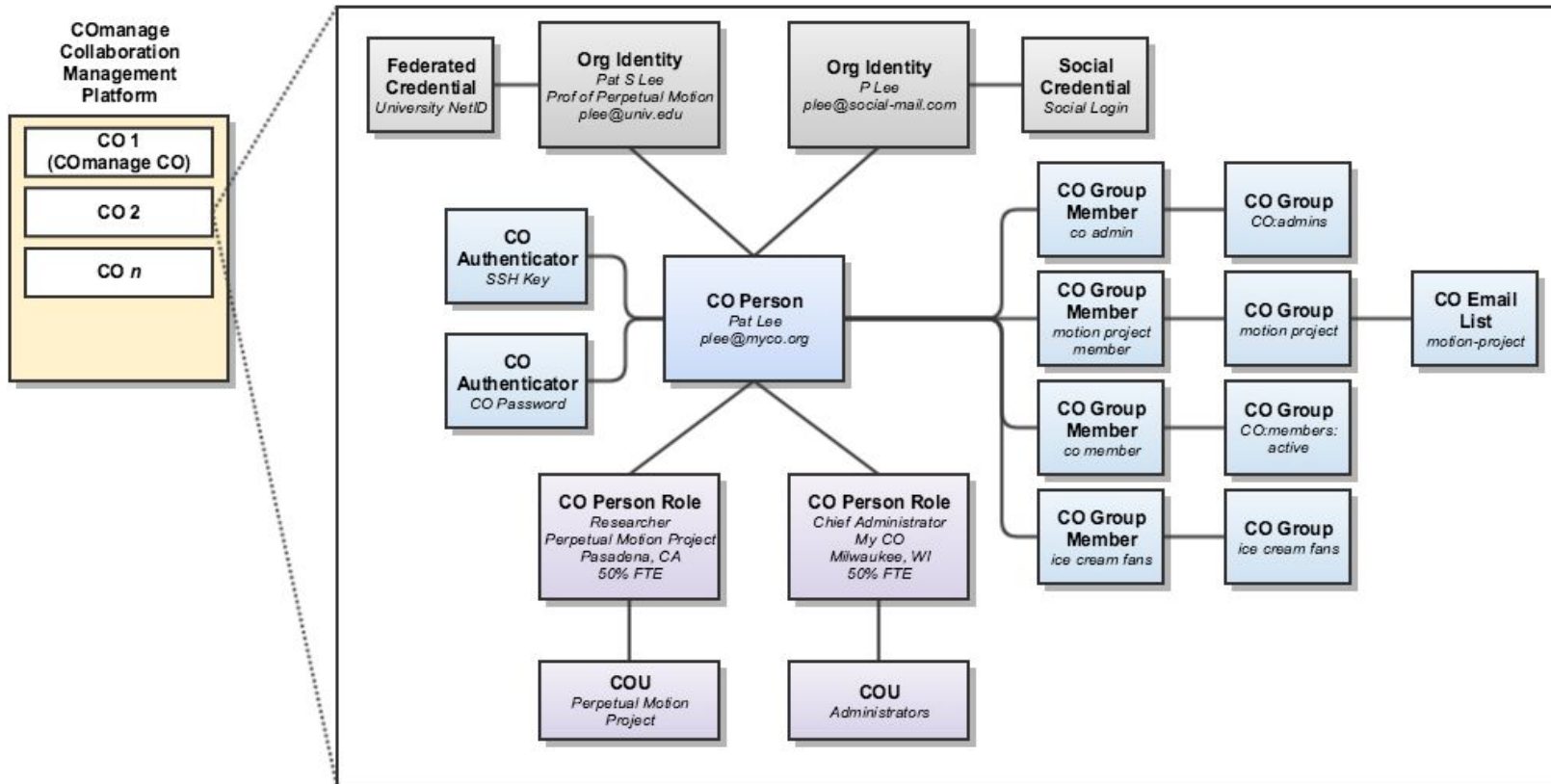
COmanage Registry Capabilities

- Most non-core features are designed to provide common capabilities out of the box, but allow replacement or integration with more comprehensive products, eg:
  - Group Management
  - Provisioning
- UI driven configuration and operation
- REST API

COmanage Registry Capabilities

- Person & Role Attribute Management
  - Normalization
  - Attribute Enumerations
  - Multi-valued Names, Addresses, Email Addresses, etc
- Identifier Assignment and Management
  - Pattern based sequential or random identifier assignment
  - Tracking of external (non-Registry) identifiers

COmanage Registry Capabilities

- Population Organization
  - COUs & Departments
  - Basic Group Management
- Human Readable Transaction History
  - Person / Group / Email List / Petition
- Database Level "Changelog" (Copy-On-Write)

COmanage Registry Capabilities

- Self Service & Delegated Enrollment & Lifecycle

  Management

  - Enrollment Flows

  - Early Onboarding

  - Duplicate Management / Relinking

  - Sponsors

  - Expiration Policies

  - Basic Matching *more to come

  - Terms & Conditions
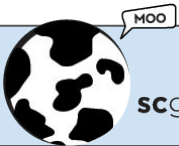
# COmanage Registry Capabilities (Plugin based)

- Organizational Identity Sources
  - For creating records from external sources
  - API, Env, File, LDAP, Salesforce, etc
- Provisioners
  - API, GitHub, Grouper, LDAP, Mailman, Salesforce, SQL, etc
- Authenticators
  - SSH Keys, Service Tokens, Certificates, Passwords, MFA

COmanage Match Capabilities

- Implements TAP Match API
  - Accepts a bundle of attributes
  - Returns a *Reference Identifier*
  - Goal: Determine if two bundles of attributes refer to the same subject
  - https://github.internet2.edu/api-schema/id-match-api/tree/draft

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COmanage Match Capabilities

- Configured using *Attributes* and *Rules*
  - Attributes can be searched using (eg) transposition checks and mappings
  - Canonical and Potential Rules
- Basic user interface for resolution of potential matches
- v1.0.0 focuses mostly on the underlying match engine, future releases will improve the administrator experience
- Standalone, does not require use of COmanage Registry
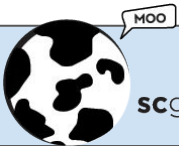
(lots more in COmanage training)

COmanage Registry v4.0.0
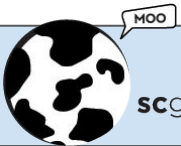
COmanage Registry v4.0.0

- Announced today!

- 143 resolved JIRA issues

- 13.5 months since v3.3.0 (Aug 2020 → Oct 2021)

  - An improvement from 19 months v3.2.0 → v3.3.0

  - Not quite the twice yearly schedule proposed...

Release Schedule

- Feature releases (x.y.0) every 6 months
  - Roughly aligned with I2 conferences
  - Scope freeze one month prior to expected release
- Next feature freeze: Jan 15, 2022
- Next expected feature release (v4.1.0): March 2021
- Maintenance releases as needed
  - Every couple of months, typically

New in v4.0.0: Asynchronous Provisioning

- Provisioning mode configurable per target
  - Queue Mode: Fully asynchronous
  - Queue on Error Mode: First attempt is synchronous, on failure queue for asynchronous retry
    - Subject to Retry Interval
- Queues processed via Registry Job Shell
  - Processing is currently serial, but may change in the future

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New in v4.0.0: Nested Groups Boolean Logic

- AND: CO Person must be in *all* Nested Groups to be a member in the Target Group
- OR: CO Person may be in *any* Nested Group to be a member in the Target Group
  - v3.3.0 behavior
- NOT: CO Person who is a member of the Nested Group *can not* be a member in the Target Group
  - Can create "exclusion" groups

New in v4.0.0: MFA Enrollment Management

- Designed to integrate with multiple components to enforce MFA enrollment policies
    - MeemEnroller Plugin
        - Policy engine with REST API
        - Designed to integrate with (eg) SATOSA
    - PrivacyIdea Authenticator

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New in v4.0.0: Identity Documents

- Attached to CO Person
- Typed
  - Passport, Visa, Drivers License, Self Asserted
- Issuing Authority, Subject, Verification Method
- Can be collected during enrollment
- Not currently tied to identity proofing standards (eg: NIST SP 800-63), but maybe in the future

New in v4.0.0: Organizations

- Primary Registry Object
- Intended to represent entities outside the CO
  - vs Departments, which represent organizational structure within the CO
- Support most "MVPA" attributes
  - Identifiers, Addresses, URLs, etc
- Expected to be used for future functionality, TBD

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New in v4.0.0: Dictionaries

- Basically, a list of values
  - Optionally coded
  - Optionally ordered
- Used by
  - Dictionary Identifier Validator
    - Allows for rejection of Identifiers matching entries
  - Attribute Enumerations
    - Allows for reuse: the same Dictionary may be used in multiple enumerations
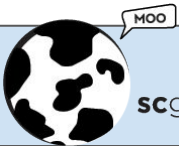
New in v4.0.0: Plugins

- Password Authenticator Self Service Reset

- Privacy IDEA Authenticator

- API Provisioner

- JIRA Provisioner

- LDAP Provisioner voPersonToken

- API Source Poll Mode (Apache Kafka)

- File Source CSV v2

New in v4.0.0: Even More Stuff

- CO Person "Locked" Status
- Configurable Attributes for ID Match (via Pipelines)
- Core API for CO People
- Global Localizations
- UX Improvements, in particular around Group Management
- Bug fixes

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COmanage Registry v4.1.0
and Getting to Registry v5.0.0

COmanage Registry v4.1.0

- Scope freeze 15 Jan 2022

- New features based on funded RFEs

- No "breaking changes"

- Expect smaller feature releases closer to the twice yearly schedule for the remainder of the v4 series

- No schedule yet for v4 EOL, probably not until v5 RC process starts

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COmanage Registry Framework Migration

- Cake 2 → ~~Cake 3~~ → Cake 4
- Long overdue
- "Turning up the heat"
  - No more breaking changes in Cake 2-based Registry
  - Reallocating discretionary resources to Registry 5
  - Framework Migration specific project tracking
  - Increased footprint of code requiring double funding for RFEs

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COmanage Match v1.0.0 (RC1)
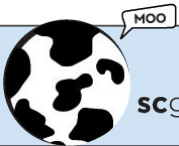
COmanage Match v1.0.0 RC 1

- Release Candidate 1 any day now

- Expecting an extended RC period for v1.0.0
  - Looking for feedback from early adopters
  - May concurrently begin v1.1.0 new feature development

- Future release cadence TBD, based on community interest, feedback, and funding
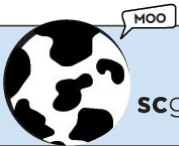
Developer Group Update

COmanage Developer Group

- Shayna Atkinson (SCG, Training)

- Ioannis Igoumenos (I2/AlfaJango, Full Stack)

- Arlen Johnson (SCG, UI/UX)

- Scott Koranda (CILogon, Packaging)

- Benn Oshrin (SCG, Project Lead)

- Laura Paglione (SCG, Community + Training)

- Tom Zeller (SCG, Testing)

COmanage Training

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Training

InCommon ®

SOLUTIONS   HELP   ABO

FEDERATION   EDUROAM   CERTIFICATES   SOFTWARE   ACADEMY   COMM

COmanage Class October 18 – 21, 2021

Registration is Open

Join us!

What's New Wit
CAMP 2021 Zoo

Governance Update

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Governance Update

- COmanage Community Working Group disbanded

- COmanage Virtual Consortium being developed/ revised
  - Establish project's comprehensive financial support
    - Directed funders (RFE) + broad sustainability funders

  - Support strong recognition for many contribution types

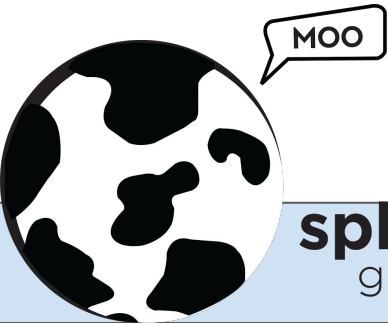 - Encourage alignment/cooperation among parties

COmanage Stuff

- Wiki
  - https://spaces.at.internet2.edu/display/COmanage
  - https://spaces.at.internet2.edu/display/COmanage/Email+Lists
- Git
  - https://github.com/Internet2/comanage-registry
  - https://github.internet2.edu/COmanage/match (develop)
- TAP Packaging
  - https://spaces.at.internet2.edu/display/TPD

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Want more COmanage?

Join us tomorrow for the BoF session
12:00 - 1:00 pm EDT (18:00 - 19:00 CEST)
Arts & Crafts Room

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spherical cow
group