COmanage / Entity Registry Gap Analysis

COmanage 1.0.2 Compared to the TIER Entity Registry Requirements

For items flagged ✅, there may still be specific capabilities or enhancements required to meet all use cases.

|	Requirement	Status	JIRA	Funded?	TIER HIgh Priority	Notes
1	*Administration (User Interface)*					
2	Delegated Administration	✅				Within existing CO/COU/Group structure
3	Record Search	✅				
4	Record Relinking	✅				Manual Linking Operations
5	Self Service	✅				For select attributes and operations
6	Bulk Operations	⚠️	CO-802			Limited to group operations
7	"Enterprise Vocabulary"	❌				Default terminology that maps closer University vocabulary (vs VO vocabulary)
8	Customizable UI	⚠️				Localizable, Plugins for custom links, etc; Needs scalability testing
9	Accessible UI	⚠️	CO-224			Partially accessible, needs further testing and refactoring
10	Externalized Authentication	✅				Anything supported by Apache
11	Terms and Conditions	✅				At enrollment or login
12	*Person Record Management*					
13	No Hardcoded Identifier Assumptions	✅				
14	No SSN Dependency	✅				
15	"Secure" Attributes	❌				While (eg) SSNs can be stored as identifiers, there is no special handling to (eg) encrypt them; DoB is not in default data model, and Gender is in secondary demographic reporting record
16	Multiple (Typed) Attributes Per Record	✅				eg: Name, Address, Email Address, etc
17	Custom Attributes	✅				Simple built in model, or custom plugins
18	Custom Types	✅				Extending the Registry Data Model
19	Multiple Roles	✅				role=title+department+validity dates+etc
20	Multiple Identity Sources	✅				See Registry Data Model overview
21	Lifecycle Management	✅				Includes expiration and related transitions
22	Identifier Assignment	✅				Configuring Registry Identifier Assignment
23	Self Selected Identifiers	❌				
24	Privacy / Attribute Release Policies	❌				
25	Early Onboarding	❌		⚠️		Most of the infrastructure required for this will be implemented with new "Pipeline" capability
26	Registry-as-SOR	⚠️		Funded, sched 2H16		Default model; enhancements are to separate out "SOR-as-SOR"
27	Customizable UI Driven Enrollment	✅				Registry Enrollment Flow Configuration
28	Batch Importing	❌	CO-76	⚠️		Most of the infrastructure required for this will be implemented with new "Orgnaitional Identity Source" capability
29	Attribute Election	❌		Funded, sched 2H16		eg: To pick a Primary Name from multiple SORs
30	ID Match Integration	⚠️	CO-1053	⚠️		Limited existing capabilities. New "Pipeline" will include external callouts
31	Identity Proofing	❌				TBD what this would mean

32	SSH Key Management	✅				
33	ORCID Linking	❌	CO-579	Funded, sched 2Q16		
34	***Audit / Changelog***					
35	Human-Readable Transaction History	✅				Registry History and Changelogs
36	Manual History Records	✅				ie: Comments
37	Point-In-Time Record Capabilities	✅				"Copy on write" means a delete is rarely actually a delete Registry History and Changelogs
38	***Provisioning and Integration***					
39	REST API	✅				REST API v1
40	lugin/Connector Driven Real Time Provisioning	✅				Provisioning From Registry
41	LDAP Provisioning	⚠️				Custom schemas not currently supported LDAP Provisioning Plugin
42	Grouper Integration	⚠️				Grouper Provisioning Plugin
43	Unix Account Provisioning	⚠️	CO-866	Funding Proposed		Current support is experimental and will be rewritten
44	Message Bus Provisioning	❌	CO-583			
45	Cloud Services Integration	⚠️				Experimental GitHub support
46	Credential Management	❌	CO-60	Funded, sched 2H16		
47	Asynchronous Provisioning	❌	CO-552			
48	TIER API Support	❌				
49	***Reporting***					
50	Plugin Driven Reporting Capabilities	❌	CO-77			
51	SQL Provisioner	❌	CO-1164			
52	Notifications	✅				
53	***Database Support***					
54	PostgreSQL	✅				Recommended
55	MySQL / MariaDB	✅				Tested and supported
56	Oracle	❌				Not supported by framework
57	SQL Server	⚠️				Supported by framework but not tested
58	***Miscellaneous***					
59	Replication / HA	✅				HA as PHP web app; Replication via database
60	Unicode	✅				
61	Extensible via Plugins	✅				Writing Registry Plugins