

Registry PE Data Model



This document describes Registry v5.0.0 and later. For earlier versions, see [Registry Data Model](#).

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Overview

The COmanage Registry Data Model revolves around the *Person*, which conceptually represents one person associated with an organization.

- A COmanage installation is referred to as a *Collaboration Management Platform*, or *CMP*.
- A CMP is a multi-tenant installation, each tenant is referred to as a *Collaborative Organization* or *CO*.
- The core operational record of a participant within the CO is the *Person*.
 - The Person record maintains information that is unique to a person within the CO, such as names and identifiers.
 - An individual person should only have one Person record within a CO.
 - However, an individual person may participate in multiple COs housed within the same CMP, and could therefore have multiple Person records (each isolated from the other) within the CMP.
- A Person may have zero or more External Identities. An External Identity conceptually represents the Person's identity as asserted by a "home" or "external" institution, such as their University or a social identity provider.
- A CO Person may have one or more *Person Roles* within the CO. A Person Role record maintains information that is unique to a role a person has within a CO, such as title and physical address.

Tables

Registry is a database oriented application, with quite a few tables under the hood. These tables fall into a few broad categories:

- **Primary Objects:** Primary objects are those that directly relate to the primary purpose of Registry: storing information about people and other entities related to the organization. Example include People and Departments. Primary Objects can be identified because they *belongTo* Cos, and are not configuration objects.
- **Secondary Objects:** Secondary objects store additional information about Primary objects, in particular when there is a many-to-one relationship. Examples include Name and Email Address. Secondary Objects *belongTo* a Primary Object or another Secondary Object.
- **Artifacts:** Objects created in the management of Primary or Secondary objects. In general, Artifacts become read only once the process that creates them is completed.
- **Configuration Objects:** Configuration objects primarily relate to the behavior of the application.
- **Metadata:** Objects used internally by Registry.

Table Metadata

In addition to the column definitions available for each table below, all tables have additional columns used by the framework and supporting code. These columns include

- Timestamps managed by Cake (*created*, *modified*)
- Columns used in support of [Changelog Behavior](#)

Table Status

The statuses for each table are defined as

- **Stable:** The table definition will not change in a backwards-incompatible manner across minor releases. Stable tables may only be removed in major releases.
- **Tentative:** The table definition will likely become stable, but may change in a backwards-incompatible manner across minor and patch releases. Tentative tables may be refactored or removed without notice.
- **Experimental:** No specific assertion is made about the stability of the table. It may be changed significantly or even removed without notice.
- **Obsolete:** The table is no longer in use as of the specified version.
- **Not Implemented:** The table definition is for planning purposes only.

Major, minor, and patch releases are as defined in [semantic versioning](#).

Table Inventory

Core Tables

Table Name	Description	Category	Status	Introduced
ad_hoc_attributes	Ad Hoc Attributes for an Entity	Secondary Object	Stable	v5.0.0 (v3.3.0 as cm_ad_hoc_attributes)
addresses	Addresses for an Entity	Secondary Object	Stable	v5.0.0 (v0.2 as cm_addresses)
api_users	API (Programmatic) Users	Configuration	Stable	v5.0.0 (v0.2 as cm_api_users)
authentication_events	Authentication Events	Artifact	Stable	v5.0.0 (v2.0.0 as cm_authentication_events)
co_settings	CO Specific Settings	Configuration	Tentative	v5.0.0 (v0.9.1 as cm_co_settings)
cos	Collaborative Organizations	Configuration	Stable	v5.0.0 (v0.2 as cm_cos)
cous	Collaborative Organizational Units	Configuration	Stable	v5.0.0 (v0.3 as cm_cous)
dashboards	Dashboards	Configuration	Tentative	v5.0.0 (v3.2.0 as cm_co_dashboards)
email_addresses	Email Addresses for an Entity	Secondary Object	Stable	v5.0.0 (v0.2 as cm_email_addresses)
enrollment_flow_steps	Enrollment Flow Steps	Configuration	Tentative	v5.0.0
enrollment_flows	Enrollment Flows	Configuration	Tentative	v5.0.0 (v0.3 as cm_co_enrollment_flows)
ext_identity_source_records	External Identity Source Records	Artifact	Tentative	v5.0.0 (v2.0.0 as cm_org_identity_source_records)
external_identities	External Identities for a Person	Secondary Object	Stable	v5.0.0 (v0.3 as cm_org_identities)
external_identity_roles	Roles for an External Identity	Secondary Object	Stable	v5.0.0
external_identity_sources	External Identity Sources	Configuration	Tentative	v5.0.0 (v2.0.0 as cm_org_identity_sources)
group_members	Group Members	Secondary Object	Stable	v5.0.0 (v0.2 as cm_co_group_members)
group_nestings	Group Nestings	Secondary Object	Stable	v5.0.0 (v3.3.0 as cm_co_group_nestings)
group_owners	Group Owners	Secondary Object	Obsolete	v5.0.0 (designed for MR11, replaced with Owners Groups in MR11)
groups	CO Groups	Primary Object	Stable	v5.0.0 (v0.2 as cm_co_groups)
history_records	Transaction History	Artifact	Stable	v5.0.0 (v0.7 as cm_history_records)
identifier_assignments	Identifier Assignments	Configuration	Tentative	v5.0.0 (v0.6 as cm_co_identifier_assignments)
identifiers	Identifiers for an Entity	Secondary Object	Stable	v5.0.0 (v0.2 as cm_identifiers)
job_history_records	Job History Records	Artifact	Stable	v5.0.0 (v2.0.0 as cm_co_job_history_records)
jobs	Jobs	Artifact	Stable	v5.0.0 (v2.0.0 as cm_co_jobs)
meta	Platform Meta Information	Metadata	Stable	v5.0.0 (v0.9.4 as cm_meta)
message_templates	Message Templates	Configuration	Stable	v5.0.0 (v2.0.0 as cm_co_message_templates)
names	Names for an Entity	Secondary Object	Stable	v5.0.0 (v0.2 as cm_names)
notifications	Notifications	Artifact	Stable	v5.0.0 (v0.8.4 as cm_co_notifications)
people	CO People	Primary Object	Stable	v5.0.0 (v0.2 as cm_co_people)
person_roles	Roles for a Person	Secondary Object	Stable	v5.0.0 (v0.3 as cm_co_person_roles)
petition_history_records	Petition History Records	Artifact	Tentative	v5.0.0 (v0.3 as cm_co_petition_history_records)
petition_step_results	Petition Step Results	Artifact	Tentative	v5.0.0
petitions	Petitions	Artifact	Tentative	v5.0.0 (v0.3 as cm_co_petitions)
pipelines	Pipelines	Configuration	Tentative	v5.0.0 (v2.0.0 as cm_co_pipelines)
plugins	Plugin Registry	Metadata	Tentative	v5.0.0

pronouns	Preferred Pronouns for a Person	Secondary Object	Experimental	v5.0.0
provisioning_history_records	Provisioning History Records	Artifact	Tentative	v5.0.0
provisioning_targets	Provisioning Targets	Configuration	Tentative	v5.0.0 (v0.8 as cm_co_provisioning_targets)
servers	Servers	Primary Object	Tentative	v5.0.0 (v3.2.0 as cm_servers)
telephone_numbers	Telephone Numbers for an Entity	Secondary Object	Stable	v5.0.0 (v0.2 as cm_telephone_numbers)
types	Attribute Type Definitions	Configuration	Stable	v5.0.0 (v0.6 as cm_co_extended_types)
urls	URLs for an Entity	Secondary Object	Stable	v5.0.0 (v3.1.0 as cm_urls)

Plugin Tables

Tables for *Available* Plugins will not be created until the Plugin is [activated](#).

Table Name	Description	Plugin	Category	Status	Introduced
api_source_records	API Source Records	API Source Plugin	Available	Tentative	v5.0.0 (v3.3.0 as cm_api_source_records)
api_sources	API Sources	API Source Plugin	Available	Tentative	v5.0.0 (v3.3.0 as cm_api_sources)
file_provisioners	File Provisioners	File Provisioner Plugin	Available	Experimental	v5.0.0 (v0.8 as cm_co_changelog_provisioner_targets)
file_sources	File Sources	File Source Plugin	Available	Tentative	v5.0.0 (v2.0.0 as cm_file_sources)
format_assigner_sequences	Format Assigner Sequences	Format Identifier Assignment Plugin	Core	Tentative	v5.0.0 (v0.6 as cm_co_sequential_identifier_assignments)
format_assigners	Format Assigners	Format Identifier Assignment Plugin	Core	Tentative	v5.0.0 (v0.6 as cm_co_identifier_assignments)
smtp_servers	SMTP Servers	Core Server Plugin	Core	Tentative	v5.0.0
sql_assigners	SQL Assigners	SQL Identifier Assignment Plugin	Core	Tentative	v5.0.0
sql_provisioners	SQL Provisioners	SQL Provisioner Plugin	Available	Tentative	v5.0.0 (v3.3.0 as cm_co_sql_provisioner_targets)
sql_servers	SQL Servers	Core Server Plugin	Core	Tentative	v5.0.0 (v3.2.0 as cm_sql_servers)