

EasyCLA Version 1 Database Schema Walkthrough

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Overview

This is a general exploration and mapping of the EasyCLA tables and fields. Most tables have `date_created` and `date_modified` columns and most have version columns which is always "v1". These tables reside in each environment in the AWS us-east-1 region (N. Virginia).

Database Tables

Users

Status: Implemented

Table Name: `cla-{stage}-users`

All users who have logged into EasyCLA consoles, have started the contribution process from github or gerrit, or have been migrated from an identity cla group. It contains the user's LFID, GitHub details, First/Last name, and emails. This will be replaced by the User Service in EasyCLA v2.

Name	Description
<code>user_id</code>	EasyCLA user ID
<code>user_emails</code>	array of emails (from github?)
<code>lf_email</code>	email on LFID when entered into system. Currently doesn't update when email is changed in identity- this can cause a problem for some Gerrit contributors who change their email in identity or gerrit.
<code>lf_username</code>	LFID
<code>user_github_id</code>	numerical ID for github account
<code>user_company_id</code>	company ID the user is affiliated with
<code>user_name</code>	where does this come from? The new create LFID form?
<code>user_github_username</code>	github username

Projects

Status: Implemented

Table Name: `cla-{stage}-projects`

This is the CLA group definition (although it is called the projects table) table. We store the project templates definitions (which include S3 links once the template is selected and generated), whether it is a CCLA, ICLA or both, etc.

Name	Description
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project_id	EasyCLA project ID
project_acl	authorized LFID of project managers
project_ccla_enabled	true or false
project_ccla_requires_icla_signature	true or false
project_corporate_documents	contains CCLA document information such as where it's located in s3 storage, type (Apache, Minimal, custom), version number, and template offsets for DocuSign alignment.
project_external_id	Salesforce ID
project_icla_enabled	true or false
project_individual_documents	contains ICLA document information such as where it's located in s3 storage, type (Apache, Minimal, custom), version number, and template offsets for DocuSign alignment.
project_name	Name of the project

Companies

Status: Implemented

Table Name: cla-{stage}-companies

Stores all the company information in the EasyCLA system. This table will be replaced by the Organization Service in EasyCLA v2.

Name	Description
company_id	EasyCLA company ID
company_acl	<p>If_username of a company manager authorized to use corporate.lfcla.com</p> <p>Users are added here through the console when a user requests to "join" a company and gets approved by an existing company_acl.</p> <p>A User is also added when an existing signature_acl uses the "CLA Managers" box and adds their LFID. This adds the user to company_acl and also to signature_acl.</p> <p>Both company_acl and signature_acl can whitelist and view acknowledgments for any CLA, there is no difference.</p> <p>A company_acl who is not also a signature_acl cannot add a new CLA manager, only approve from a pending invite. -this is pretty convoluted behavior.</p>
company_manager_id	user_id of the user who created the company at corporate.lfcla.com
company_name	Name entered when company_manager_id created the company.

Signatures

Status: Implemented

Table Name: cla-{stage}-signatures

This table supports CLA signatures for:

- Companies (CCLA) - record created (historically) when a CLA Signatory signs the CCLA via DocuSign on behalf of the company for a given project. Moving forward, we will have a new onboarding workflow to help create this record
- Employees (CCLA) - record created once a user has been whitelisted by a company CLA Manager and confirms their affiliation with that company
- Individuals (ICLA) - record created when a user signs the ICLA via DocuSign

Name	Description
signature_id	EasyCLA signature ID
signature_approved	true or false (what is this generated for?)
signature_document_major_version	
signature_document_minor_version	

signature_type	'ccla' or 'cla'
signature_reference_type	'company' or 'user'
signature_project_id	The project the ICLA or CCLA is signed for
signature_reference_id	company_id or user_id
signature_user_ccla_company_id	Used for Company Employee signatures - the company_id of the employee who signed the CLA.
signature_acl	<p>Proposed: Deprecate this column in favor of the newly proposed signature_company_signatory_*, signature_company_initial_manager_*, and signature_company_secondary_manager_list columns.</p> <p>lfid of the company_acl who sends the new CLA to the signatory to sign via email (or signs themself). This is a different list than the company_acl.</p> <p>Only those added to this signature level list can see another signature_acl's on the left side of the whitelisting view in the corporate console. Only the signature_acl can add other signature_acl from the console. But it also adds the signature_acl to the company_acl list, so they are also able to whitelist for any project.</p>
signature_company_signatory_id (Proposed)	Proposed: ID of the CLA Signatory (pulled from User table). This could be optional as most of the signatories simply receive an email and sign the document in DocuSign without even interacting with the EasyCLA system.
signature_company_signatory_name (Proposed)	Proposed: Name of the CLA Signatory (pulled from User table). Separate column to allow efficient searching/filtering/usage
signature_company_signatory_email (Proposed)	Proposed: Email of the CLA Signatory (pulled from User table). Separate column to allow efficient searching/filtering/usage
signature_company_initial_manager_id (Proposed)	Proposed: ID of the Initial CLA Manager (pulled from User table)
signature_company_initial_manager_name (Proposed)	Proposed: Name of the Initial CLA Manager (pulled from User table). Separate column to allow efficient searching/filtering/usage
signature_company_initial_manager_email (Proposed)	Proposed: Email of the Initial CLA Manager (pulled from User table). Separate column to allow efficient searching/filtering/usage
signature_company_secondary_manager_list (Proposed)	<p>Proposed: Value is an optional JSON structure representing the CLA Managers authorized by the Initial CLA Manager to manage the whitelist on behalf of the company.</p> <div> <p>Example JSON</p> <pre>[{ "id": "1234-512", "name": "John Smith", "email": "john@foo.com" }, { "id": "7583-432", "name": "Sally Robinson", "email": "sally@bar.com" }, { "id": "1990-431", "name": "Fernando Cortez Jr.", "email": "fernando@us.ibm.com" }]</pre> </div>
signature_reference_name	Recent Change: The company name or User's User Name (if available from company/user record) - added to support an efficient query for the Project and Company Signature Table View
signature_reference_name_lower	Recent Change: The company name or User's User Name in lower case - added to support an efficient query for the Project and Company Signature Table View
signature_signed	<p>was signature completed and signed? Some ICLA users may exit the process before completed and this will be false.</p> <p>This also happens when a CLA manager hits "send" to email a new corporate CLA to a signatory. It remains false until the signatory completes the signing process through DocuSign.</p>
signature_return_url	link for directing users through the signature authorization workflow
signature_callback_url	link for directing users through the signature authorization workflow
signature_envelope_id	unique DocuSign id assigned for the signing request (need to confirm)

signature_sign_url	link to the signed document in Docusign
email_whitelist	individual emails of employees able to verify affiliation with company CCLA
domain_whitelist	email domain of authorized employees to verify affiliation with company CCLA
github_whitelist	individual GitHub usernames of employees able to verify affiliation with company CCLA
github_org_whitelist	whole GitHub organization affiliated with CCLA. Employees must be a public member of this organization on github to pass this whitelist check.

User Permissions

Status: Implemented

Table Name: cla-{stage}-user-permissions

A table to store access control permissions for the project console/view. Add project permissions for project managers - usually LF Admins, and Project Managers

Name	Description
username	the 'lfid' of a user (a reference to the Users table)
projects	<p>A JSON document referencing zero or more Projects (salesforce id) that the user has access to.</p> <div> <p>Example Value</p> <pre>["a092M00001F1Yv4QAF", "a0941000002wBz4AAE", "a0941000005ouJFAAY"]</pre> </div>

Company Invites

Status: Implemented

Table Name: cla-{stage}-company-invites

Table to track Corporate Manager request/invitation. This is used when a user logs into corporate.lfcla.com and requests to join a company as a CLA Manager.

Name	Description
requested_company_id	This company's CLA managers will see a "pending" invite section with the user requesting access.
user_id	The user requesting access to a company to be a CLA Manager.

CLA Manager Onboard Requests

Status:

Table Name: cla-{stage}-cla-manager-onboard-requests

A table to store and track the status of CLA manager onboarding.

Name	Description
request_id	the unique request ID, typically uuid v4
lf_id	the user's LF ID
project_name	the project name of the request
company_name	the company name of the request
use_full_name	the user's full name

user_email	ther user's email
date_created	the date/time when the request was created
date_modified	the date/time when the request was last updated

Gerrit Instances

Status: Implemented

Table Name: cla-{stage}-gerrit-instances

Table to manage Project Gerrit repository details. Users must have an LDAP group created an identity for any project who uses a Gerrit instance.

Name	Description
gerrit_id	EasyCLA Gerrit ID
gerrit_name	Name of the project in Gerrit
gerrit_url	example: https://gerrit.onap.org
group_id_ccla	LDAP numerical group in identity.linuxfoundation.org for the CCLA contributors example: https://identity.linuxfoundation.org/node/2340/
group_id_icla	LDAP numerical group in identity.linuxfoundation.org for the ICLA contributors.
group_name_ccla	corresponds to the group_id_ccla. example: https://identity.linuxfoundation.org/content/oran-cla-oss-ccla
group_name_icla	corresponds to the group_id_icla
project_id	EasyCLA project ID

Github Orgs

Status: Implemented

Table Name: cla-{stage}-github-orgs*

Table to keep track of GitHub organizations - requires authorization by the Project Manager (user) - here we keep track of the Installation details.

Name	Description
organization_name	Project name
organization_sfid	Salesforce ID for the connected project.
organization_installation_id	GitHub repo ID

Repositories

Status: Implemented

Table Name: cla-{stage}-repositories

Stores the Project CLA Group repository details including the repo name.

Name	Description
repository_id	EasyCLA repository ID
repository_external_id	repository GitHub ID
repository_name	name of individual repository on GitHub
repository_organization_name	top-level organization repository name
repository_project_id	EasyCLA project ID
repository_sfdc_id	Salesforce project ID
repository_type	GitHub or Gerrit

repository_url	URL for GitHub repository
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Event Log

Status: **Proposed**

Table Name: cla-{stage}-events

This table is used for event log storage. Event log entries are stored when the system or users take specific actions that are of significance. Examples include: 1) Creating a new CLA group, 2) Selecting a template for a project, 3) added a user to a company whitelist, 3) rejecting a user's PR. These logs are write-only and query-able by Project and CLA managers.

Name	Description
id	a unique record identifier, typically uuidv4
event_type	a simple string that identifies the event category/type
user_id	the user id of the user that generated the event (when applicable)
project_id	the project id for this event (if the project is in-scope for this event)
company_id	the company id for this event (if the company is in-scope for this event)
event_time	the date/time stamp for this event
event_data	JSON data for including additional event details

Session Store

Status: Implemented

Table name: cla-{stage}-session-store

Stores user session details for the user. Used by the Python backend.

Name	Description
id	unique id
options	session meta-data
values	session details

Store

Status: Implemented

Table Name: cla-{stage}-store

Stores user session details for the user. Used by the Golang backend.

Name	Description
key	unique id
expire(TTL)	time to live
value	encoded session details