

# Ringgold: External Database Schema *CDO*

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## Introduction

This document is designed to provide customers with an overview and detail of CDO data files available from Ringgold for their internal use.

## General

The database consists of 24 tables. Each output format consists of data for each table ready for loading into a target program e.g. an excel spreadsheet, a database or other local program.

The data from Ringgold can be supplied in two different basic formats:

Ringgold\_External\_Database\_Schema\_CDO\_20120615.docx

- ⤴ a set of delimited text files - one file per table.
- ⤴ a set of SQL insert statements for MySQL

The detail for each format can be specified e.g. delimiting character for delimited data files, header column names. Other customizations can be made on request.

### **Coverage and frequency**

The normal routine for data delivery is a complete replacement set of data each week. Data may be delivered directly via FTP to a customer location or collected via FTP from a Ringgold server.

### **Data supplied**

The data is contained in 24 data tables within the CDO database. The content of each table is described in the following section.

Further technical detail and specification for each table is in the Database Schema section below.

## Tables

### Loading Order

Depending on your database solution, we recommend loading the tables in the order of the following groups:

#### Multiple reference tables:

Table	Referenced via FK from
t_countries	t_bodies
	t_sub_country_regions

#### Single Reference tables

Table	Referenced via FK from
t_active_status	t_bodies
t_address_status	t_addresses
t_address_types	t_addresses
t_body_governance	t_bodies_x_body_governance
t_body_mission	t_bodies_x_body_mission
t_body_note_display_types	t_body_notes
t_body_relation_types	t_body_relations
t_body_status	t_bodies
t_body_subjects	t_bodies_x_body_subjects
t_body_type	t_bodies
t_people_main_contact_role	t_people
t_sub_country_regions	t_bodies

#### Main tables referencing t\_bodies (providing one to many relationship with bodies)

Table
t_addresses
t_body_notes
t_objects
t_people
t_urls

#### Main table

Table
t_bodies

#### Intermediate tables (providing many- t- many relationship with t\_bodies)

Table	related table 1	related table 2
t_bodies_x_body_governance	t_bodies	t_body_governance
t_bodies_x_body_mission	t_bodies	t_body_mission
t_bodies_x_body_subjects	t_bodies	t_body_subjects
t_bodies_x_objects	t_bodies	t_objects
t_body_relations	t_bodies	t_bodies

### Packages

- ⤴ All datasets will be compressed into 'zip' package files compatible with Linux zip and WinZip.

### Character set options (charset)

- ⤴ Latin 1

### Dataset Options

- ⤴ Delimited
- ⤴ MySQL Sqldump

### Encryption

If requested, the zip package will be encrypted using Linux CCRYPT. The key can be a keyphrase. The customer may provide a keyfile.

## Table content description

Table name	Notes
t_active_status	Whether the body is still active
t_address_status	Status of an address
t_address_types	Type of address e.g. main site, secondary
t_addresses	All address data – many per body
t_bodies	Main table holding key information about all types of bodies – Consortia, members and vendors
t_bodies_x_body_governance	Linking table – multiple values for any one body allowed
t_bodies_x_body_mission	Linking table – multiple values for any one body allowed
t_bodies_x_body_subjects	Linking table – multiple values for any one body allowed
t_bodies_x_objects	Linking table – multiple values for any one body allowed
t_body_governance	Whether licensing is open or closed covers the type of consortium as well.
t_body_mission	The overall aim/mission/area of operation of the members e.g. academic, public, corporate
t_body_note_display_types	Whether notes are private to Ringgold staff or Public for display
t_body_notes	Notes attached to the body
t_body_relation_types	The type of relation a body has with another e.g. consortium member. Product vendor
t_body_relations	Linking table between a consortium and a related other body e.g. member.
t_body_status	Whether draft, in checking or released or deleted
t_body_subjects	Subject specialisation of the consortium e.g. health.
t_body_type	Whether the body itself is a consortium , member or vendor
t_countries	Table of countries

Table name	Notes
t_objects	Name of an object file – usually pdfs but may not be limited to pdf in the future.
t_people	People associated with a body
t_people_main_contact_role	e.g. licensing contact
t_sub_country_regions	States and provinces for, usually, USA and Canada
t_urls	URLs associated with a body.

## Table detail

### Database Schema

#### *Consortium Directory Online* Table Columns / Fields

**Table: t\_active\_status**

<i>Field</i>	<i>Type</i>	<i>Key</i>	<i>Default</i>	<i>Extra</i>	<i>Comment</i>
t_active_status_id	int(10)	PRI	(NULL)	auto_increment	
as_name	varchar(25)				
as_description	varchar(255)				

**Table: t\_address\_status**

<i>Field</i>	<i>Type</i>	<i>Key</i>	<i>Default</i>	<i>Extra</i>	<i>Comment</i>
t_address_status_id	int(10) unsigned	PRI	(NULL)	auto_increment	
ads_name	varchar(25)				

**Table: t\_address\_types**

<i>Field</i>	<i>Type</i>	<i>Key</i>	<i>Default</i>	<i>Extra</i>	<i>Comment</i>
t_address_types_id	int(10) unsigned	PRI	(NULL)	auto_increment	
at_name	varchar(15)				

**Table: t\_addresses**

<i>Field</i>	<i>Type</i>	<i>Key</i>	<i>Default</i>	<i>Extra</i>	<i>Comment</i>
t_addresses_id	int(10) unsigned	PRI	(NULL)	auto_increment	
t_bodies_id	int(10) unsigned	MUL	0		
t_address_types_id	int(10) unsigned	MUL	0		
t_countries_id	int(10) unsigned	MUL	0		
t_address_status_id	int(10) unsigned	MUL	0		
ad_address_1	varchar(255)		(NULL)		
ad_address_2	varchar(255)		(NULL)		
ad_address_3	varchar(255)		(NULL)		
ad_city	varchar(255)		(NULL)		
ad_province	varchar(255)		(NULL)		
t_sub_country_regions_id	int(10) unsigned	MUL	(NULL)		
ad_telephone_1	varchar(100)		(NULL)		
ad_fax	varchar(50)		(NULL)		
ad_email	varchar(100)		(NULL)		
ad_amended	timestamp		CUR- RENT_TIM ESTAMP		
ad_added	timestamp		0000-00-00 00:00:00		
ad_address_priority	int(3) unsigned		1		
ad_address_4	varchar(255)		(NULL)		
ad_address_5	varchar(255)		(NULL)		
ad_address_6	varchar(255)		(NULL)		

<i>Field</i>	<i>Type</i>	<i>Key</i>	<i>Default</i>	<i>Extra</i>	<i>Comment</i>
ad_postcode	varchar(100)		(NULL)		
ad_person_name	varchar(100)		(NULL)		
ad_telephone_2	varchar(100)		(NULL)		
ad_affiliation	varchar(255)		(NULL)		
ad_consortium_contact_note	varchar(255)		(NULL)		
ad_ringgold_contact_note	varchar(255)		(NULL)		

**Table: t\_bodies**

<i>Field</i>	<i>Type</i>	<i>Key</i>	<i>Default</i>	<i>Extra</i>	<i>Comment</i>
t_bodies_id	int(10) unsigned	PRI	(NULL)	auto_increment	
b_p_code	int(10) unsigned	MUL	(NULL)		Ringgold ID
b_base_name	varchar(255)	MUL			name of consortium / member / vendor
b_description	longtext				
b_amended	timestamp		(NULL)		
b_added	timestamp		(NULL)		
t_body_content_scope_id	int(10) unsigned	MUL	(NULL)		Obsolete
t_body_geographic_scope_id	int(10) unsigned	MUL	(NULL)		Obsolete
t_body_type_id	int(10) unsigned	MUL	(NULL)		
t_countries_id	int(10) unsigned	MUL	(NULL)		
t_c_code	varchar(10)		(NULL)		obsolete
t_address_cities_id	int(10) unsigned	MUL	(NULL)		not yet used

<i>Field</i>	<i>Type</i>	<i>Key</i>	<i>Default</i>	<i>Extra</i>	<i>Comment</i>
t_sub_country_regions_id	int(10) unsigned	MUL	(NULL)		key to state/province etc. (USA Canada only currently)
b_file	varchar(100)		(NULL)		Obsolete
b_url	varchar(255)		(NULL)		obsolete
b_code	varchar(255)		(NULL)		obsolete
b_consortia_id	varchar(15)		(NULL)		obsolete
b_publisher_id	varchar(15)		(NULL)		obsolete
b_status	int(1) unsigned		3		Obsolete
b_acronym	varchar(100)	MUL	(NULL)		
b_city	varchar(100)		(NULL)		
b_state	varchar(100)		(NULL)		sometimes used for countries other than USA and Canada
t_active_status_id	int(10)	MUL	1		whether draft, to be checked, released or deleted etc.
t_body_status_id	int(10) unsigned	MUL	(NULL)		
b_members_text	text		(NULL)		
b_vendors_text	text		(NULL)		

**Table: t\_bodies\_x\_body\_governance**

<i>Field</i>	<i>Type</i>	<i>Key</i>	<i>Default</i>	<i>Extra</i>	<i>Comment</i>
t_bodies_x_body_governance_id	int(10) unsigned	PRI	(NULL)	auto_increment	
t_body_governance_id	int(10) unsigned	MUL	0		
t_bodies_id	int(10) unsigned	MUL	0		

bxg_amended	timestamp		CUR- RENT_TIM ESTAMP		
bxg_added	timestamp		0000-00-00 00:00:00		

**Table: t\_bodies\_x\_body\_mission**

<i>Field</i>	<i>Type</i>	<i>Key</i>	<i>Default</i>	<i>Extra</i>	<i>Comment</i>
t_bodies_x_body_mission_id	int(10) unsigned	PRI	(NULL)	auto_increment	
t_body_mission_id	int(10) unsigned	MUL	0		
t_bodies_id	int(10) unsigned	MUL	0		
bxm_amended	timestamp		CUR- RENT_TIM ESTAMP		
bxm_added	timestamp		0000-00-00 00:00:00		

**Table: t\_bodies\_x\_body\_subjects**

<i>Field</i>	<i>Type</i>	<i>Key</i>	<i>Default</i>	<i>Extra</i>	<i>Comment</i>
t_bodies_x_body_subjects_id	int(10) unsigned	PRI	(NULL)	auto_increment	
t_body_subjects_id	int(10) unsigned	MUL	0		
t_bodies_id	int(10) unsigned	MUL	0		

**Table: t\_bodies\_x\_body\_objects**

<i>Field</i>	<i>Type</i>	<i>Key</i>	<i>Default</i>	<i>Extra</i>	<i>Comment</i>
t_bodies_x_objects_id	int(10) unsigned	PRI	(NULL)	auto_increment	

t_bodies_id	int(10) unsigned	MUL	(NULL)		
t_objects_id	int(10) unsigned	MUL	(NULL)		

**Table: t\_body\_governance**

<i>Field</i>	<i>Type</i>	<i>Key</i>	<i>Default</i>	<i>Extra</i>	<i>Comment</i>
t_body_governance_id	int(10) unsigned	PRI	(NULL)	auto_increment	
bg_name	varchar(25)				
bg_description	varchar(255)		(NULL)		

**Table: t\_body\_mission**

<i>Field</i>	<i>Type</i>	<i>Key</i>	<i>Default</i>	<i>Extra</i>	<i>Comment</i>
t_body_mission_id	int(10) unsigned	PRI	(NULL)	auto_increment	
bm_name	varchar(100)				
bm_description	varchar(255)				

**Table: t\_body\_note\_display\_types**

<i>Field</i>	<i>Type</i>	<i>Key</i>	<i>Default</i>	<i>Extra</i>	<i>Comment</i>
t_body_note_display_types_id	int(10) unsigned	PRI	(NULL)	auto_increment	
bndt_name	varchar(50)				

**Table: t\_body\_notes**

<i>Field</i>	<i>Type</i>	<i>Key</i>	<i>Default</i>	<i>Extra</i>	<i>Comment</i>
t_body_notes_id	int(10)	PRI	(NULL)	auto_increment	

<i>Field</i>	<i>Type</i>	<i>Key</i>	<i>Default</i>	<i>Extra</i>	<i>Comment</i>
t_body_note_display_types_id	int(10) unsigned	MUL	0		
t_bodies_id	int(10) unsigned	MUL	0		
bn_text	text		(NULL)		
bn_heading	varchar(255)		(NULL)		
bn_sort_order	int(3) unsigned		1		
bn_amended	timestamp		CUR- RENT_TIM ESTAMP		
bn_added	timestamp		0000-00-00 00:00:00		
u_users_id	int(10) unsigned	MUL	(NULL)		
t_body_note_headings_id	int(10) unsigned	MUL	(NULL)		

**Table: t\_body\_relation\_types**

Field	Type	Key	Default	Extra	Comment
t_body_relation_types_id	int(10) unsigned	PRI	(NULL)	auto_increment	
brt_name	varchar(25)				
brt_description	varchar(255)				

**Table: t\_body\_relations**

<i>Field</i>	<i>Type</i>	<i>Key</i>	<i>Default</i>	<i>Extra</i>	<i>Comment</i>
t_body_relations_id	int(10) unsigned	PRI	(NULL)	auto_increment	
t_bodies_id	int(10) unsigned	MUL	0		

<i>Field</i>	<i>Type</i>	<i>Key</i>	<i>Default</i>	<i>Extra</i>	<i>Comment</i>
t_bodies_id_related	int(10) unsigned	MUL	0		
t_body_relation_types_id	int(10) unsigned	MUL	0		
br_name	varchar(50)		(NULL)		
br_description	varchar(255)		(NULL)		
br_amended	timestamp		0000-00-00 00:00:00		
br_added	timestamp		0000-00-00 00:00:00		
t_body_relation_sub_types_id	int(10) unsigned	MUL	(NULL)		
t_license_types_id	int(10) unsigned		(NULL)		

**Table: t\_body\_status**

<i>Field</i>	<i>Type</i>	<i>Key</i>	<i>Default</i>	<i>Extra</i>	<i>Comment</i>
t_body_status_id	int(10) unsigned	PRI	(NULL)	auto_increment	
bs_name	varchar(10)				
bs_description	varchar(10)				

**Table: t\_body\_subjects**

<i>Field</i>	<i>Type</i>	<i>Key</i>	<i>Default</i>	<i>Extra</i>	<i>Comment</i>
t_body_subjects_id	int(10) unsigned	PRI	(NULL)	auto_increment	
bs_name	varchar(50)				
bs_description	varchar(255)				

**Table: t\_body\_type**

<i>Field</i>	<i>Type</i>	<i>Key</i>	<i>Default</i>	<i>Extra</i>	<i>Comment</i>
t_body_type_id	int(10) unsigned	PRI	(NULL)	auto_increment	
bt_name	varchar(50)				
bt_description	varchar(200)				
bt_search_option	int(1)		3		

**Table: t\_countries**

<i>Field</i>	<i>Type</i>	<i>Key</i>	<i>Default</i>	<i>Extra</i>	<i>Comment</i>
t_countries_id	int(10) unsigned	PRI	(NULL)	auto_increment	
c_country_name	varchar(100)	MUL			
c_code	varchar(10)				
c_iso_code	varchar(10)				
c_status	int(1) unsigned		0		

**Table: t\_objects**

<i>Field</i>	<i>Type</i>	<i>Key</i>	<i>Default</i>	<i>Extra</i>	<i>Comment</i>
t_objects_id	int(10) unsigned	PRI	(NULL)	auto_increment	
obj_name	varchar(100)				
obj_object	mediumblob		(NULL)		
obj_file_name	varchar(200)		(NULL)		
obj_file_extension	varchar(10)		pdf		
obj_amended	timestamp		0000-00-00 00:00:00		

obj_added	timestamp		0000-00-00 00:00:00		
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**Table: t\_people**

<i>Field</i>	<i>Type</i>	<i>Key</i>	<i>Default</i>	<i>Extra</i>	<i>Comment</i>
t_people_id	int(10) unsigned	PRI	(NULL)	auto_increment	
p_name	varchar(100)				
p_phone	varchar(100)		(NULL)		
p_email_1	varchar(100)		(NULL)		
p_job_title	varchar(100)		(NULL)		
p_email_2	varchar(100)		(NULL)		
p_amended	timestamp		CUR- RENT_TIM ESTAMP		
p_added	timestamp		0000-00-00 00:00:00		
p_note_from_consortium	text		(NULL)		
p_note_from_ringgold	text		(NULL)		
p_status	int(1) unsigned		3		
p_affiliation	text		(NULL)		
p_note	varchar(255)		(NULL)		
t_bodies_id	int(10) unsigned	MUL	(NULL)		
t_people_main_contact_role_id	int(10)	MUL	(NULL)		

**Table: t\_people\_main\_contact\_role**

<i>Field</i>	<i>Type</i>	<i>Key</i>	<i>Default</i>	<i>Extra</i>	<i>Comment</i>
t_people_main_contact_role_id	int(10)	PRI	(NULL)	auto_increment	
pmcr_name	varchar(100)		(NULL)		

**Table: t\_sub\_country\_regions**

<i>Field</i>	<i>Type</i>	<i>Key</i>	<i>Default</i>	<i>Extra</i>	<i>Comment</i>
t_sub_country_regions_id	int(10) unsigned	PRI	(NULL)	auto_increment	
sr_abbreviation	varchar(20)	MUL	(NULL)		
sr_name	varchar(50)	MUL	(NULL)		
t_countries_id	int(10) unsigned	MUL	(NULL)		

**Table: t\_urls**

<i>Field</i>	<i>Type</i>	<i>Key</i>	<i>Default</i>	<i>Extra</i>	<i>Comment</i>
t_urls_id	int(10) unsigned	PRI	(NULL)	auto_increment	
url_address	varchar(100)				
url_amended	timestamp		CURRENT_TIMESTAMP		
url_added	timestamp		0000-00-00 00:00:00		
t_bodies_id	int(10) unsigned	MUL	(NULL)		