

Ringgold External Identify Database Schema

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Introduction

This document is designed to provide customers with an overview and detail of organization data files available from Ringgold for their internal use. Ringgold Inc. publishes its “Identify” database regularly for clients who prefer to import a copy of our data into their own database servers. Due to the wide range of options available and installed in our client’s sites, we try to accommodate as many clients as economically possible. However, we are unable to provide data in every format we’re aware of.

The core of the “Identify” data consists of our:

- Ontology, a collection of taxonomies that constrain our metadata into approved options instead of free text.
- Organizations (previously called Institutions but that not all encompassing)
- Places, our authority table of places to reduce the number or variant cities and locations.
- Organization Metadata. Several tables containing all the metadata we curate or redistribute regarding our organizations.

New in this version

20191219

- New Table Names
- Element Organization replaces Institution
- Tiers are now in Classifications
- More elements regulated by our Ontology, are now exported as term_ids instead of strings.

General

Identify 2.4 consists of two (2) databases to choose from:

- Structured data, 12 tables. Compatible with structured database engine. (eg MySQL)
 - Available in CSV and JSON
 - Full database weekly export only
- Objects, 4 tables.
 - Available in JSON and XML
 - Full database weekly export
 - Database deltas weekly export

Quick Specifications

- 1) Structured Database
 - a. Formats
 - i. CSV
 - ii. JSON (follows CSV schema)
 - b. Dataset per table (12 - 13 tables). See table content below.
 - c. Includes a count.txt file for confirming load counts.
- 2) Object Database
 - a. Formats
 - i. XML
 1. XSD files are downloadable to validate xml files structure.
 - ii. JSON (follows XML schema)
 - b. Dataset per object type
 - i. Ontology
 - ii. Places
 - iii. Organizations
 - iv. OrganizationsDeleted
- 3) Common
 - a. Character set: UTF8
 - b. Database packages are compressed using ZIP (eg 7-Zip in Windows and Zip in linux)
- 4) Publishing frequency:
 - a. Complete database weekly
 - b. Delta database weekly
- 5) Delivery method: Sharefile (web console or ftp)
 - a. Data will be delivered by ShareFile. You will have the option of using the ShareFile web interface or an FTP interface to ShareFile with different settings (URL and user account settings that you control). Please note that ShareFile is compatible with most FTP clients.

Structured Database

Tables Loading Order

Depending on your database solution we recommend loading the tables as follows:

1. Load the following reference tables: (so references to these records can be tested during loading. if desired.)
 - a) ontology (contains all lists)
 - b) places
2. Load the organizations table (so ringgold_id can be used for foreign keys and validated during load of other tables)
3. Load remaining tables in any order.

Tables

Table name	Content
Ontology	A reference table (or list) of standardized tiers and terms used in exports. Provides extended descriptions for terms occurring in classifications, rg_tiers, rg_types.
Organizations	The core table for the database. Contains the Ringgold ID, name, place_id etc. All other Org* tables are linked to this table via the ringgold_id.
OrgAltNames	The alternate names for an organization e.g. former names, other language variants and acronyms etc.
OrganizationsDeleted	Provides onward links for now disused Ringgold Ids. Contains columns for the old and the new Ringgold IDs. Ringgold Ids become obsolete for many reasons – mergers, duplicates etc.
OrgClassifications	A linked table containing different classifications fields for organizations. Multiple rows with one row per organization+classification+term.
OrgExternalClassifications	A linked table containing different external classifications fields for organizations.
OrgExternalIdentifiers	Contains other systems' identifiers e.g. ISNI (when available), IPED, Athens, OFR IDs.
OrgIps	IP address ranges for organizations. Optional for an additional fee.
OrgNotes	Multiple notes can be linked to any organization via the Ringgold ID. Notes cover diverse subjects.
OrgRelationships	Provides hierarchy links via the Ringgold ID to other organizations that are related to an organization as parent organizations. Contains administrative, library, and consortia relationships. There can be up to five, administrative parents of an organization.
OrgSizes	Demographics to measure the size of an organization. Measurements such as, staff, students (universities), beds and doctors (hospitals).
OrgUrls	Contains multiple links to organizations table.
Places	Table of Ringgold place records reduces the errors inherent in separate city, state, country elements in the orgs.
counts.txt	Row counts for primary tables. Only used for package verification and not normally stored in a database.

Ontology

Column	Length	Related to	Content
internal_id	11		An internal id used by Ringgold.
taxonomy_name	255		Name of the taxonomy list.
term_id	11		
term_name	255		
term_description	1024		
last_modified			Format YYYYMMDD HH:mm:ss

Organizations

Column	Length	Related to	Content
ringgold_id	11	All other related tables	This is the Ringgold ID and is used in other tables to link that data to the core organizational record. This relationship is known as a foreign key relationship.
name	255		Name of the organization in the language of the country where the organization is based.
place_id	11	Places	
post_code	20		Zip or postcode.
is_consortium	1		Y or n.
last_modified	17		Format YYYYMMDD HH:mm:ss

OrgAltNames

Column	Length	Related to	Content
internal_id	11		An internal id used by Ringgold in the production system.
ringgold_id	11	Organizations	
name_type_term_id	11	Ontology	See OrgAltNameType section.
name_type_year	4		YYYY
name	255		Alternate name e.g. other language name, former name, acronym, diacritics, etc.
language	35		Future use.
place_id	11	Places	
post_code	20		
last_modified	17		Format YYYYMMDD HH:mm:ss

OrgClassifications

Column	Length	Related to	Content
internal_id	11		An internal id used by Ringgold in the production system.
ringgold_id	11	Organizations	
classification_type_term_id	11	Ontology	
classification_value_term_id	11	Ontology	
last_modified	17		Format YYYYMMDD HH:mm:ss

OrganizationsDeleted

Column	Length	Related to	Content
internal_id	11		An internal id used by Ringgold in the production system.
old_ringgold_id	11	Organizations	The old link to the organization record in the organizations table – now deleted.
new_ringgold_id	11	Organizations	The new link to the organization record in the organizations table.
details	255		Contains the reason for deletion.
last_modified	17		Format YYYYMMDD HH:mm:ss

OrgExternalClassifications

Column	Length	Related to	Content
internal_id	11		An internal id used by Ringgold.
ringgold_id	11	Organizations	
classification_type_term_id	11	Ontology	
classification_value	255		
last_modified	17		Format YYYYMMDD HH:mm:ss

OrgExternalIdentifiers

Column	Length	Related to	Content
internal_id	11		An internal id used by Ringgold in the production system.
ringgold_id	11	Organizations	
identifier_type_term_id	11	Ontology	
identifier_value	255		The value of the identifier – usually an integer.
last_modified	17		Format YYYYMMDD HH:mm:ss

OrgIps

Column	Length	Related to	Content
internal_id	11		An internal id used by Ringgold in the production system.
ringgold_id	11	Organizations	
ip	255		
ip_low	15		
ip_high	15		
ip_int_low	11		
ip_int_high	11		
last_modified	17		Format YYYYMMDD HH:mm:ss

OrgNotes

Column	Length	Related to	Content
internal_id	11		An internal id used by Ringgold.
ringgold_id	11	Organizations	
note	255		Text of note
last_modified	17		Format YYYYMMDD HH:mm:ss

OrgRelationships

Column	Length	Related to	Content
<p>The subject org is related to the object org by the relationship_type_term_id. Example: subject hasAdministrativeParent object, subject isMemberOfConsortia object.</p>			
internal_id	11		An internal id used by Ringgold.
subject_ringgold_id	11	Organizations	
object_ringgold_id	11	Organizations	
relationship_type_term_id	11	Ontology	The type of relationship.
last_modified	17		Format YYYYMMDD HH:mm:ss

OrgSizes

Column	Length	Related to	Content
internal_id	11		An internal id used by Ringgold.
ringgold_id	11	Organizations	
size_type_term_id	11	Ontology	
value	255		
last_modified	17		Format YYYYMMDD HH:mm:ss

OrgUrls

Column	Length	Related to	Content
internal_id	11		An internal id used by Ringgold .
ringgold_id	11	Organizations	
url	200		The URL and any alternative URLs for the organization .
url_type_term_id	11	Ontology	
last_modified	17		Format YYYYMMDD HH:mm:ss

Places

Column	Length	Related to	Content
Place fields and their use are explained in greater detail in “Places” document at: https://support.ringgold.com/places/			
place_id	11		An internal id used by Ringgold in the production system.
language	2		‘en’
country_code	2		
name	255		
name_short	255		
administrative_area_level_1	255		
administrative_area_level_2	255		
administrative_area_level_3	255		
administrative_area_level_4	255		
administrative_area_level_5	255		
administrative_area_level_1_short	255		
administrative_area_level_2_short	255		
administrative_area_level_3_short	255		
administrative_area_level_4_short	255		
administrative_area_level_5_short	255		
longitude	float		
latitude	float		
formatted_name	1024		
country_format_pattern	255		
last_modified	17		Format YYYYMMDD HH:mm:ss

Partial Ontology Example – See Ontology table for complete list

AltNameTypes

Note	Description
AB	Abbreviation
AB TL	Abbreviation of the transliterated name
AB TR	Abbreviation of translated name into English
AC	Acronym
AC FN	Acronym of former name
AC TL	Acronym of the transliterated name
AC TR	Acronym of translated name in English
AK	A/K/A (also known as)
AK FN	A/K/A (also known as) of former name
AK TL	A/K/A (also known as) of transliterated name
AK TR	A/K/A (also known as) translated into English
AQ	Acquired (with year if known)
CS	Ceased (with year if known)
DN	Diacritic name
FN	Former name
FN LB	Former name of library (retired)
FN until	Former name(until YYYY if known)
IM	Imprint (retired)
LB	Library name (retired)
LB TR	Library name translated to English (retired)
MG	Merged (with year if known)
TL	Transliterated name
TL FN	Transliterated former name
TR	Translated name in English
TR FN	Former name translated into English

ClassificationTypes

Classification	Description
activity_status	Status of the organization's operation
economic_model	The economic aim of the organization
governance	The way the organization is managed, by whom and for whom
level	Place of organization in the fixed facet hierarchy
mission	What the organization does, is trying to achieve, what are its reasons for existing and purposes
number_of_sites	Whether the organization has one single site or multiple sites
self_description	A label used by the organization to describe itself
reach	The reach of the organization in terms of its locations and services to its audience and customers
subjects	Areas the organization is involved in
rg_type	Ringgold Type
rg_tier	Rnggold Tier

ExternalClassificationTypes

Tier Type	Description
Carnegie-BASIC2005	2005 Basic Classification – Carnegie classifications (see http://carnegieclassifications.iu.edu/)
Carnegie-BASIC2010	2010 Basic Classification
Carnegie-BASIC2015	2015 Basic Classification
Carnegie-BASIC2018	2018 Basic Classification
Carnegie-SizeSet2005	2005 Size and Setting Classification
Carnegie-SizeSet2010	2010 Size and Setting Classification
Carnegie-SizeSet2015	2015 Size and Setting Classification
Carnegie-SizeSet2018	2018 Size and Setting Classification
JISC	Joint Information Systems Committee band (UK) (see http://www.jisc-collections.ac.uk/Help-and-information/JISC-Banding/)
SFJ	Shop for Journals pricing tier (Highwire press) (see http://highwire.stanford.edu/tfocis/)

ExternalIdentifierTypes

Identifier	Description
ATHENS	Athens Identifier (see: http://www.openathens.net)
ISNI	International Standard Name Identifier (see: http://www.isni.org) (when available)
IPED	Integrated Post-Secondary Education Data System (see: http://nces.ed.gov/ipeds)
NCES	National Center for Educational Statistics (see: http://nces.ed.gov)
OFR	Open Funder ID see (http://www.crossref.org/fundingdata/registry.html)

SizeTypes

Kind	Description
beds	Number of beds in a hospital
doctors	Number of doctors in a hospital
hospitals	Number of hospitals owned by the Group
libraries	Number of libraries in an organization
schools	Number of schools in an administrative grouping
size	Number of employees or for academic organizations, FTEs
staff	Number of specialist staff (lawyers, chartered accountants, faculty etc)

UrlTypes

Note	Description
AS	Alternative site
ES	Email site
FS	Former site
GS	Graduate site (Japan only)
LS	Library site (retired)
PD	Primary domain

Data Types

Primitive	Elements	Length	Notes/example
integer	*_ringgold_id, *_term_id, internal_id, ip_int_low, ip_int_high place_id, ringgold_id, term_id	11	
timestamp	date_created, last_modified		"YYYYMMDD HH:mm:ss"
string	*_name, *_description, administrative_area_level_1, administrative_area_level_2, administrative_area_level_3, administrative_area_level_4, administrative_area_level_5, administrative_area_level_1_short, administrative_area_level_2_short, administrative_area_level_3_short, administrative_area_level_4_short, administrative_area_level_5_short, classification_value, country_code, country_format_pattern, details, formatted_name, identifier_value, ip, ip_low, ip_high, language, name, name_short, note, post_code, size_value, url		"..."
float	latitude, longitude		60.123456
boolean	is_consortium		0,1

Objects Database

Dataset groups

- Full database
- Full database with IPS
- Delta database of weekly changes
- Delta database of weekly changes with IPS

Datasets

Dataset	Purpose
Ontology	A reference table (or list) of standardized taxonomies of terms used in exports.
Organizations	The core table for the database.
OrganizationsDeleted	Provides onward links for now disused Ringgold Ids. Contains columns for the old and the new Ringgold IDs. Ringgold Ids become obsolete for many reasons – mergers, duplicates etc.
Places	Table of Ringgold place records reduces the errors inherent in separate city, state, country elements in the orgs.

XML Database Schema

- XML XSD files are supplied with the XML database export in ShareFile.

Online Documentation

- See <https://support.ringgold.com/identify-database-external-schema/>