

# IDENTIFY DATABASE WEB SERVICE

## Contents

Release Notes: .....	3
Ringgold Inc. Identify Web Service .....	4
Method: getInstitution .....	5
Method: findInstitutions .....	6
Method: findInstitutionsByKeywords.....	8
Method: getInstitutionFamily.....	10
Schema: ns:institutionType .....	11
Schema: ns:placeType .....	13

## Release Notes:

### 2.5 – 20170720:

1. Added ns:state and ns.postCode to ns:altNames.
2. Added place to ns:altNames
3. Added place to ns:institutions
4. Added relationship to familyMembers (admin / library)
5. Including admin and library relationships in families and parents now.
6. Including admin and library relationships in service getInstitutionFamily
7. Added request parameter ofrOption to services findInstitutions and findInstitutionsByKeyword.

### 2.4.0 – 20170321:

1. Added extidOFR to institution object.

### 2.4.0 – 20160512:

1. Updated urls on p3
2. Added “institution” elements for “parents” and “altNames”.
3. Removed “institution.parentIdentifier”. many institutions have more than one parent.
4. Introduced new endpoints and web pages for customer desiring to use release 2.4 without disturbing release 2.3 users.
5. Upgraded webservicedemo24.html to show new “parents” and “altNames” elements in results from “getInstitution”.
6. Upgraded webservicedemo24.html to show new “urls” elements.
7. Upgraded Institution object to include “classification” elements in “getInstitution”.

2.3.02 – 200140910 – added new service findInstitutionsByKeyword and added matchScore to the institution object/document.

## Ringgold Inc. Identify Web Service

### Description

Ringgold Inc. Identify Database Web Service version 2.5 attaches to our Identify Database.

### Type

Soap 1.2

### Style

Document

### Methods

Name	Description
getInstitution	Retrieve Institution record using Ringgold Identifier.
findInstitutions	Search Institutions and return matches.
findInstitutionsByKeywords	Search Institutions using keywords and sort by relevance.
getInstitutionFamily	Retrieve a family tree of Institution Identifiers for all members of a tree containing a given identifier.

### Links

- Service Endpoint:  
<https://idproduction.ringgold.com/identifyservice25.php>
- WSDL file:  
<https://idproduction.ringgold.com/identifyservice25.wsdl>
- XML Schema  
<https://idproduction.ringgold.com/identifyservice25.xsd>
- Web Service Demo Page  
<https://idproduction.ringgold.com/webservedemo25.html>

### Namespaces

- ns = identifyservice25.xsd
- xsd = XML Schema Doc

**Method: getInstitution**

**Description**

Retrieve Institution record using Ringgold Identifier.

**Style**

Document

**Input (literal)**

The input of this method is the document element ns:getInstitutionRequest of type having the structure defined by the following table.

<b>ns:getInstitutionRequest</b>			
Element	Type	Occurs	Description
ns:licenseKey	xsd:string	1..1	Assigned by Ringgold
ns:identifier	xsd:int	1..1	

**Output (literal)**

The output of this method is the document element ns:getInstitutionResponse of type having the structure defined by the following table.

<b>ns:getInstitutionResponse</b>			
Element	Type	Occurs	Description
ns:licenseKey	xsd:string	1..1	Assigned by Ringgold
ns:identifier	xsd:int	1..1	
ns:responseStatus	xsd:string	1..1	success, error
ns:errorMessage	xsd:string	0..1	
ns:institution	ns:institutionType	1..1	See ns:institution below.

**Method: findInstitutions****Description**

Find Institutions using a simple name search. The search performed is simple pattern match, where name like “%searchName%”. Eg when searchName is “Portland State”, “Portland State University” will match, but “State University of Portland” will not. Wildcards may be used (symbol %) to expand the search by replacing the symbol with any characters. Eg when searchName is “Portland%state”, the matches will include “Portland State University” and “Portland Estates Elementary School”.

**Style**

Document

**Input (literal)**

The input of this method is the document element ns:findInstitutionsRequest of type having the structure defined by the following table.

<b>ns:findInstitutionsRequest</b>			
<b>Element</b>	<b>Type</b>	<b>Occurs</b>	<b>Description</b>
ns:licenseKey	xsd:string	1..1	Assigned by Ringgold
ns:searchName	xsd:string	1..1	Includes wildcard searching
ns:city	xsd:string	1..1	Includes wildcard searching
ns:state	xsd:string	1..1	Includes wildcard searching
ns:postCode	xsd:string	1..1	Includes wildcard searching
ns:country	xsd:string	1..1	Use ISO std 2 digit country codes.
ns:startItem	xsd:int	1..1	1-x
ns:pageFactor	xsd:int	1..1	Default 20, max 100
ns:ofrOption	xsd:string	1..1	“all” or “ofr_only” or “no_ofr”

**Output (literal)**

The output of this method is the document element ns:findInstitutionsResponse of type having the structure defined by the following table.

<b>ns:findInstitutionsResponse</b>			
Element	Type	Occurs	Description
ns:licenseKey	xsd:string	1..1	Assigned by Ringgold
ns:searchName	xsd:string	1..1	From request
ns:city	xsd:string	1..1	From request
ns:state	xsd:string	1..1	From request
ns:postCode	xsd:string	1..1	From request
ns:country	xsd:string	1..1	From request
ns:startItem	xsd:int	1..1	From request
ns:pageFactor	xsd:int	1..1	From request
ns:errorMessage	xsd:string	0..1	
ns:responseStatus	xsd:string	0..0	success, error
ns:resultCount	xsd:int	1..1	Maximum 100 hits per request
ns:totalCount	xsd:int	1..1	Total hit count from entire database.
ns:institutions	ns:institutionType	0..* (max 100)	collection of ns:institution (see below)
ns:ofrOption	xsd:string	1..1	“all” or “ofr_only” or “no_ofr”

**\*See ns:institution of ns: institutionType later in this document.**

**Method: findInstitutionsByKeywords**

**Description**

Find Institutions using a keyword relevance search. The search performed uses multiple search patterns with a matchScore basis for each relevance level. Eg. when searchName is “Portland State University” record 6685 will match highest with a score of 550 for an exact match. 500 for exact alternate name match...

Order or Relevance: Exact Match Name, exact match alt name, name contains phrase, altname contains phrase,

- tight bool search: all word in name, then all words in altname,
- medium bool match: first two words in name (other words optional but increase score if present), then search altname.
- loose bool match: first word in name (other words optional by increase score if preset), then search altname.

You may use wild card to expand word stubs but only for the right portion of a search keyword.

Eg., when searchName is "Portland State univ\*", matches will include "Portland State university", "Portland state univ."

**Style**

Document

**Input (literal)**

The input of this method is the document element ns:findInstitutionsByKeywordsRequest of type having the structure defined by the following table.

<b>ns:findInstitutionsByKeywordsRequest</b>			
Element	Type	Occurs	Description
ns:getInstitutionFamilyRequest			
ns:getInstitutionFamilyResponse			
ns:licenseKey	xsd:string	1..1	Assigned by Ringgold
ns:searchName	xsd:string	1..1	Includes wildcard searching
ns:city	xsd:string	1..1	Includes wildcard searching
ns:state	xsd:string	1..1	Includes wildcard searching
ns:postCode	xsd:string	1..1	Includes wildcard searching
ns:country	xsd:string	1..1	Use ISO std 2 digit country codes.
ns:startItem	xsd:int	1..1	1-x



ns:pageFactor	xsd:int	1..1	Default 20, max 100
ns:ofrOption	xsd:string	1..1	“all” or “ofr_only” or “no_ofr”

**Output** (literal)

The output of this method is the document element ns:findInstitutionsByKeywordsResponse of type having the structure defined by the following table.

<b>ns:findInstitutionsByKeywordsResponse</b>			
Element	Type	Occurs	Description
ns:getInstitutionFamilyRequest			
ns:getInstitutionFamilyResponse			
ns:licenseKey	xsd:string	1..1	Assigned by Ringgold
ns:searchName	xsd:string	1..1	From request
ns:city	xsd:string	1..1	From request
ns:state	xsd:string	1..1	From request
ns:postCode	xsd:string	1..1	From request
ns:country	xsd:string	1..1	From request
ns:startItem	xsd:int	1..1	From request
ns:pageFactor	xsd:int	1..1	From request
ns:errorMessage	xsd:string	0..1	
ns:responseStatus	xsd:string	0..0	success, error
ns:resultCount	xsd:int	1..1	Maximum 100 hits per request
ns:totalCount	xsd:int	1..1	Total hit count from entire database.
ns:institutions	ns:institutionType	0..* (max 100)	collection of ns:institution (see below)
ns:ofrOption	xsd:string	1..1	“all” or “ofr_only” or “no_ofr”

**Method: getInstitutionFamily****Description**

Find Institutions related to submitted identifier and return a family tree of identifiers with simple hierarchy.

**Style**

Document

**Input (literal)**

<b>ns: getInstitutionFamilyRequest</b>			
Element	Type	Occurs	Description
ns:licenseKey	xsd:string	1..1	Assigned by Ringgold
ns:identifier	xsd:int	1..1	

**Output (literal)**

<b>ns: getInstitutionFamilyResponse</b>			
Element	Type	Occurs	Description
ns:licenseKey	xsd:string	1..1	Assigned by Ringgold
ns:identifier	xsd:string	1..1	
ns:responseStatus	xsd:string	1..1	success, error,
ns:errorMessage	xsd:string	0..1	
ns:resultCount	xsd:int	1..1	
ns:family	xsd:collection	0..*	Of ns:familyMember. Each consists of the following
ns:level	xsd:int	1..1	0-99
ns:identifier	xsd:int	1..1	
ns:parentIdentifier	xsd:int	1..1	0 when top of list.
ns:relationship	xsd:string	1..1	admin or library

## Schema: ns:institutionType

ns:institution of ns:institutionType			
Element	Type	Occurs	Description
ns:identifier	xsd:int	1..1	
ns:name	xsd:string	1..1	
ns:city	xsd:string	0..1	
ns:state	xsd:string	0..1	
ns:postCode	xsd:string	0..1	
ns:country	xsd:string	0..1	ISO 3166-1 2 digit
ns:rgType	xsd:string	0..1	E.g. academic/ag. AKA Ringgold Type
ns:rgTier	xsd:string	0..1	E.g. A1 / E.g. M3
ns:timestamp	xsd:string	0..1	YYYY-MM-DD HH:MM:SS
ns:parents	ns:parentsType	0..*	Parents identifiers of this institution. See family for elements per parentType
ns:beds	xsd:string	0..1	
ns:doctors	xsd:int	0..1	
ns:hospitals	xsd:int	0..1	
ns:libraries	xsd:int	0..1	
ns:schools	xsd:int	0..1	
ns:size	xsd:int	0..1	
ns:staff	xsd:int	0..1	
ns:extidATHENS	xsd:string	0..1	
ns:extidIPEDS	xsd:string	0..1	
ns:extidISNI	xsd:string	0..1	
ns:extidNACS	xsd:string	0..1	

ns:extidNCES	xsd:string	0..1	
ns:extidOFR	xsd:string	0..1	Crossref Funder Registry
ns:place	xsd:placeType	0..1	see ns:placeType Below
ns:altNames	ns:altNameType	0..*	Collection of Alternate names
ns:name	xsd:string	1..1	
ns:city	xsd:city	1..1	
ns:state	xsd:state	1..1	
ns:postCode	xsd:postCode	1..1	
ns:country	xsd:country	1..1	
ns:note	xsd:string	1..1	
ns:place	xsd:placeType	0..1	see ns:placeType Below
ns:urls	ns:urlEntry	0..*	Collection of urls
ns:url	xsd:string	1..1	
ns:note	xsd:string	1..1	
ns:classifications	ns:classificationType	0..*	Collection of classifications
ns:className	xsd:string	1..1	
ns:classTerm	xsd:string	1..1	

## Schema: ns:placeType

ns:place of ns:placeType			
Element	Type	Occurs	Description
ns:language	xsd:string		
ns:sublocal	xsd:string		
ns:country_code	xsd:string		
ns:name	xsd:string		
ns:name_short	xsd:string		
ns:administrative_area_level_1	xsd:string		
ns:administrative_area_level_2	xsd:string		
ns:administrative_area_level_3	xsd:string		
ns:administrative_area_level_4	xsd:string		
ns:administrative_area_level_5	xsd:string		
ns:administrative_area_level_1_short	xsd:string		
ns:administrative_area_level_2_short	xsd:string		
ns:administrative_area_level_3_short	xsd:string		
ns:administrative_area_level_4_short	xsd:string		
ns:administrative_area_level_5_short	xsd:string		
ns:locality_name	xsd:string		
ns:formatted_name	xsd:string		
ns:longitude	xsd:decimal		
ns:latitude	xsd:decimal		