

Purpose of the document

The purpose of this API description document is to provide a technology-agnostic overview of the vineyard block map API and describes specifics of file formats, returned and consumed by the services implementing this API.

Services implementing the vineyard map template provide information about vineyard blocks and may enable managing information about vineyard blocks.

Operational context

Vineyard map services may be used to synchronize information about vineyards in various systems using Collabriculture vineyard logical schema data model.

Endpoints

/vineyard_blocks

GET:

Summary	Returns array of available vineyards in the microservice as a JSON array of <i>VineyardBlock Objects</i> .
Response	JSON array of <i>VineyardBlock Objects</i>

POST:

Summary	Adds a vineyard block
Input	request body – a vineyard block in <i>VineyardBlockMap File</i> structure
Response	Returns a <i>VineyardBlockObject</i> of the added vineyard.

/vineyard_block/{id}

GET:

Summary	Returns a GeoPackage file of <i>VineyardBlockMap File</i> structure
Input	id – unique id of the vineyard block
Response	GeoPackage file of <i>VineyardBlockMap File</i> structure

POST:

Summary	Returns a GeoPackage file of <i>VineyardBlockMap File</i> structure
Input	id – unique id of the vineyard block request body – a vineyard block in <i>VineyardBlockMap File</i> structure
Response	Returns a <i>VineyardBlockObject</i> of the updated vineyard.

DELETE:

Summary	Deletes a vineyard block in the system
Input	id – unique id of the vineyard block
Response	Returns OK if successfully deleted, NO if nothing was deleted.

Data schemas

JSON schema

VineyardBlock Object

Description: a JSON object that describes availability of a vineyard block in the system

Properties:

- id (Integer)
- name (String)

GeoPackage schemas

VineyardBlockMap File

Description: a GeoPackage file that holds the layers related to a particular vineyard block, in accordance with the Collabriculture vineyard logical schema data structure.

Data tables:

vineyard:

Layer properties:

- id (Integer)
- name (String)
- geom (Geometry, polygon)

block:

Layer properties:

- id (Integer)
- vineyard_id (Integer)
- geom (Geometry, polygon)
- user_defined_id (String)

row:

Layer properties:

- id (Integer)
- block_id (Integer)
- geom (Geometry, polygon)
- user_defined_id (String)

vine:

Layer properties:

- id (Integer)
- vinerow_id (Integer)
- variety_id (Integer)
- geom (Geometry, polygon)
- user_defined_id (String)

VineyardBlockMap file Table definitions

TABLE vineyard		
ROW	COLUMN	DATA TYPE
	geom	GEOMETRY
	id	MEDIUMINT
	name	TEXT
	owned_by	TEXT
	street_address	TEXT

TABLE block		
ROW	COLUMN	DATA TYPE
	geom	GEOMETRY
	id	MEDIUMINT
	vineyard_id	MEDIUMINT
	user_defined_id	TEXT
	row_spacing_m	REAL
	vine_spacing_m	REAL
	date_start	DATE
	date_end	DATE

TABLE vinerow		
ROW	COLUMN	DATA TYPE
	geom	GEOMETRY
	id	MEDIUMINT
	block_id	MEDIUMINT
	user_defined_id	TEXT
	orientation	MEDIUMINT
	vinerow_num	MEDIUMINT

TABLE vine		
ROW	COLUMN	DATA TYPE
	geom	GEOMETRY
	id	MEDIUMINT
	vinerow_id	MEDIUMINT
	user_defined_id	TEXT
	variety_id	MEDIUMINT
	clone	TEXT
	rootstock	TEXT
	vine_num	MEDIUMINT