Data Layer API

Devices Management

Create a device
POST
/czb/devices
Content-type: application/json "TOKEN": <account_token></account_token>
<pre>{ "device_ID": <device_id> (string) "device_name" : <device_name> (string), "description": <device_description> (string), "vertical": <vertical> (string), "mobile": <is_mobile> (boolean), "provider" : <pre>provider-name> (string), "municipality": <municipality> (string) }</municipality></pre></is_mobile></vertical></device_description></device_name></device_id></pre>
Content-type: application/json { "status": "Creation successful", "device_ID": <device_id>, "device_name": <device_name>, "created_at": <timestamp>, "mobile": <mobile> }</mobile></timestamp></device_name></device_id>
 201 Successfully created device 400 Bad request 401 Unauthorized 409 Conflict with already existent 500 Internal Server Error
Obligatory: device_name - Name of the device device_ID - Device ID vertical - vertical of the device mobile - if the device is mobile or not Optional:

	description - brief description about the stream
Notes	

Description	Get all devices
Method	GET
URI	/czb/devices?interval_start= <begin_mark>&interval_end=<end_mark></end_mark></begin_mark>
Headers	Content-type: application/json "TOKEN": <account_token></account_token>
Body Request	
Body Response	{ "total_devices": <total_devices>, "start": <start_time_mark> (string), "end": <end_time_mark> (string), "user_devices": ["device_id": <device_id> (string), "device_name": <device_name> (string), "created_at": <creation_time_mark> (string), "vertical": <device_vertical> (string), "mobile": <mobile> (boolean), "description": <description> (string), "latitude": <latitude> (double), "longitude": <longitude> (double), "streams": [</longitude></latitude></description></mobile></device_vertical></creation_time_mark></device_name></device_id></end_time_mark></start_time_mark></total_devices>
HTTP Status Code	 200 Success 401 Unauthorized 400 Bad Request 500 Internal Server Error
Attributes	
Notes	

Description	Get device by ID
Method	GET
URI	/czb/devices/:device_id
Headers	Content-type: application/json "TOKEN": <account_token></account_token>
Body Request	
Body Response	<pre>{ "device_id": <device_id> (string), "device_name": <device_name> (string), "created_at": <creation_time_mark> (string), "vertical": <device_vertical> (string), "mobile": <mobile> (boolean), "description": <description> (string), "locations":[{ timestamp: 12312321, latitude: 40.1231, longitude: -8.232 },], "streams": [</description></mobile></device_vertical></creation_time_mark></device_name></device_id></pre>
HTTP Status Code	 200 Success 401 Unauthorized 404 Not Found 409 Conflict with already existent 500 Internal Server Error
Attributes	
Notes	

Description	Delete device by ID
Method	DELETE
URI	/czb/devices/:device_id
Headers	Content-type: application/json

	"TOKEN": <account_token></account_token>
Body Request	
Body Response	
HTTP Status Code	 204 No Content 400 Bad request 401 Unauthorized 409 Conflict with already existent 500 Internal Server Error
Attributes	
Notes	

Description	Get device values
Method	GET
URI	/czb/devices/:id/values
Headers	Content-type: application/json "TOKEN": <account_token></account_token>
Body Request	
Body Response	{
HTTP Status Code	 200 Success 401 Unauthorized 400 Bad Request 500 Internal Server Error
Attributes	

Streams Management

Description	Create a data stream
Method	POST
URI	/czb/streams
Headers	Content-type: application/json "TOKEN": <account_token></account_token>
Body Request	<pre>{ "stream_ID": <stream_id> (string), "stream_name" : <stream_name> (string), "description": <stream_description> (string), "device_ID": <device_id> (String), "type": <type> (string) }</type></device_id></stream_description></stream_name></stream_id></pre>
Body Response	Content-type: application/json { "status": "Creation successful", "stream_ID": <stream_id>, "stream_name": <stream_name>, "created_at": <timestamp> }</timestamp></stream_name></stream_id>
HTTP Status Code	 201 Successfully created stream 400 Bad request 401 Unauthorized 409 Conflict with already existent 500 Internal Server Error
Attributes	Obligatory:
	description - brief description about the stream

w to differentiate user help the differentiation will also do something like ed-streams. or not to alert user.
or not to alert user.
r v

Description	Read stream details
Method	GET
URI	/czb/streams/:stream_ID
Headers	Content-type: application/json "TOKEN": <account_token></account_token>
Body Request	
Body Response	<pre>{ "stream_ID": <stream_id> (string), "stream_name": <stream_name> (string), "created_at": <creation_time_mark> (string), "device_id": <device_id> (string), "type": <stream_type> (string), "description": <description> (string) }</description></stream_type></device_id></creation_time_mark></stream_name></stream_id></pre>
HTTP Status Code	 200 OK 401 Unauthorized 404 Not Found 500 Internal Server Error
Attributes	
Notes	

Description	List all streams
Method	GET
URI	/czb/streams?interval_start= <begin_mark>&interval_end=<end_mark></end_mark></begin_mark>

Headers	Content-Type: application/json "TOKEN": <account_token></account_token>
Body Request	
Body Response	<pre>{ "total_streams": <total_streams>, "size": <size_of_user_streams_array> (string), "start": <start_time_mark> (string), "end": <end_time_mark> (string), "user_streams": ["stream_id": <stream_id> (string), "stream_name": <stream_name> (string), "created_at": <creation_time_mark> (string), "device_id": <device_id> (string), "type": <stream_type> (string), "description": <description> (string)], }</description></stream_type></device_id></creation_time_mark></stream_name></stream_id></end_time_mark></start_time_mark></size_of_user_streams_array></total_streams></pre>
HTTP Status Code	 200 OK 400 Bad request 401 Unauthorized 500 Internal Server Error
Attributes	
Notes	In response size, start and end will only show up if interval is specified

Description	Delete a stream
Method	DELETE
URI	/czb/streams/:stream_ID
Headers	Content-Type: application/json "TOKEN": <account_token></account_token>
Body Request	
Body Response	

HTTP Status Code	 204 No content 401 Unauthorized 404 Not Found 500 Internal Server Error
Attributes	
Notes	

Description	Read stream values
Method	GET
URI	/czb/streams/:stream_id:/values?interval_start= <begin_mark>&interval_end =<end_mark></end_mark></begin_mark>
Headers	Content-type: application/json "TOKEN": <account_token></account_token>
Body Request	
Body Response	{
HTTP Status Code	 200 OK 401 Unauthorized 404 Not Found 500 Internal Server Error
Attributes	
Notes	In response size, start and end will only show up if interval is specified

Description	Post value in stream
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Method	POST
URI	/czb/streams/:stream_ID:/values
Headers	Content-type: application/json "TOKEN": <account_token></account_token>
Body Request	{ "value": <value> (real), "latitude": <latitude> (real), "longitude": <longitude> (real) }</longitude></latitude></value>
Body Response	
HTTP Status Code	 204 No Content 401 Unauthorized 404 Not Found 500 Internal Server Error
Attributes	
Notes	

Alerts Management

Description	Get all alerts
Method	GET
URI	/czb/alerts/list?interval_start= <begin_mark>&interval_end=<end_mark></end_mark></begin_mark>
Headers	Content-type: application/json "TOKEN": <account_token></account_token>
Body Request	
Body Response	{ "total_alerts": <total_alerts>, "size": <size_of_user_alerts_array> (string), "start": <start_time_mark> (string), "end": <end_time_mark> (string),</end_time_mark></start_time_mark></size_of_user_alerts_array></total_alerts>

```
"user_alerts": [
                "alert_ID": <alert_ID> (int),
                "alert_name": <stream_name> (string),
                "created_at": <creation_time_mark> (string),
                "stream": <stream_ID> (string),
                 "threshold": <threshold> (string),
                "type": <alert_type> (string),
                "level": <alert_level> (string),
                "description": <description> (string),
                "state": <alert_state> (boolean)
               ],
              }
HTTP
                  • 201 Successfully created stream
                  • 401 Unauthorized
Status
Code
                  • 409 Conflict with already existent
                  • 500 Internal Server Error
Attributes
Notes
```

Description	Read alert details
Method	GET
URI	/czb/alerts/:alert_id
Headers	Content-type: application/json "TOKEN": <account_token></account_token>
Body Request	
Body Response	<pre>{ "alert_ID": <alert_id> (int) "alert_name": <stream_name> (string), "created_at": <creation_time_mark> (string), "stream": <stream_id> (string), "threshold": <threshold> (string), "type": <alert_type> (string), "level": <alert_level> (string), "description": <description> (string), "state": <alert_state> (boolean)</alert_state></description></alert_level></alert_type></threshold></stream_id></creation_time_mark></stream_name></alert_id></pre>

	}
HTTP Status Code	 200 OK 401 Unauthorized 404 Not Found 500 Internal Server Error
Attributes	
Notes	

Description	Delete a stream
Method	DELETE
URI	/czb/alert
Headers	Content-Type: application/json "TOKEN": <account_token></account_token>
Body Request	{ "alert_id": <alert_id> (string) }</alert_id>
Body Response	204 No content
HTTP Status Code	 204 No content 400 Bad request 401 Unauthorized 404 Not Found 500 Internal Server Error

Description	Get details from alerts related to stream
Method	GET
URI	/czb/alerts/:stream_name
Headers	Content-type: application/json "TOKEN": <account_token></account_token>
Body Request	

```
Body
Response
               "total_alerts": <total_alerts>,
               "stream_alerts": [
                "alert_ID": <alert_ID> (int),
                "alert_name": <stream_name> (string),
                "created_at": <creation_time_mark> (string),
                "stream": <stream_ID> (string),
                "threshold": <threshold> (string),
                "type": <alert_type> (string),
                "level": <alert_level> (string),
                "description": <description> (string),
                "state": <alert_state> (boolean)
               ],
HTTP
                  • 200 OK
Status
                  • 401 Unauthorized
Code
                  • 404 Not Found
                  • 500 Internal Server Error
Attributes
Notes
```

Method	POST
URI	/czb/alerts
Headers	Content-type: application/json "TOKEN": <account_token></account_token>
Body Request	<pre>{ "alert_name": <alert_name> (string), "threshold": <threshold_value> (string), "type": <alert_type> (string), "stream": <stream_id> (string), "level": <alert_level> (string), "notify_mail": <mail_notification> (boolean) }</mail_notification></alert_level></stream_id></alert_type></threshold_value></alert_name></pre>
Body Response	{ "alert_ID": <alert_id> (int), "alert_name": <alert_name> (string), "threshold": <threshold_value> (string),</threshold_value></alert_name></alert_id>

	"type": <alert_type> (string), "stream": <stream_id> (string), "level": <alert_level> (string), "notify_mail": <mail_notification> (boolean) }</mail_notification></alert_level></stream_id></alert_type>
HTTP Status Code	 200 Successfully posted alert 400 Bad request 401 Unauthorized 404 Not Found 500 Internal Server Error
Attributes	Obligatory:
Notes	

Method	PATCH
URI	/czb/alert/:alert_ID
Headers	Content-type: application/json "TOKEN": <account_token></account_token>
Body Request	{ "parameter": <parameter_to_change> (string), "value": <value> (string) }</value></parameter_to_change>
Body Response	<pre>{ "alert_ID": <alert_id> (int), "alert_name": <alert_name> (string), "threshold": <threshold_value> (string), "type": <alert_type> (string), "stream": <stream_id> (string), "level": <alert_level> (string), "notify_mail": <mail_notification> (boolean) }</mail_notification></alert_level></stream_id></alert_type></threshold_value></alert_name></alert_id></pre>

HTTP Status Code	 200 Successfully posted to stream 400 Bad request 401 Unauthorized 404 Not Found 500 Internal Server Error
Attributes	Obligatory: • parameter - Name of the alert parameter to change • value - new value
Notes	

```
Method
              GET
URI
              /czb/alerts/triggered?interval_start=<begin_mark>&interval_end=<end_mar
Headers
              Content-type: application/json
              "TOKEN": <account_token>
Body
Request
Body
               "total_triggers": <total_triggers>,
Response
               "size": <size_of_triggers_array> (string),
               "start": <start_time_mark> (string),
               "end": <end_time_mark> (string),
               "triggered_alerts": [
                   "trigger_ID": <trigger_ID> (int),
                   "alert_ID": <alert_ID> (int),
                   "alert_name": <stream_name> (string),
                   "triggers": [
                        "trigger_time": <trigger_timestamp> (long),
                        "trigger_value": <trigger_value> (string)
                      },
                   "stream": <stream_ID> (string),
                   "level": <alert_level> (string),
                ],
```

HTTP Status Code	 200 Success 401 Unauthorized 404 Not Found 500 Internal Server Error
Attributes	
Notes	

Method	PUT
URI	/czb/alerts/triggered/:trigger_ID/dismiss
Headers	Content-type: application/json "TOKEN": <account_token></account_token>
Body Request	
Body Response	
HTTP Status Code	 200 Successfully updated 401 Unauthorized 404 Not Found 500 Internal Server Error
Attributes	
Notes	