Contents

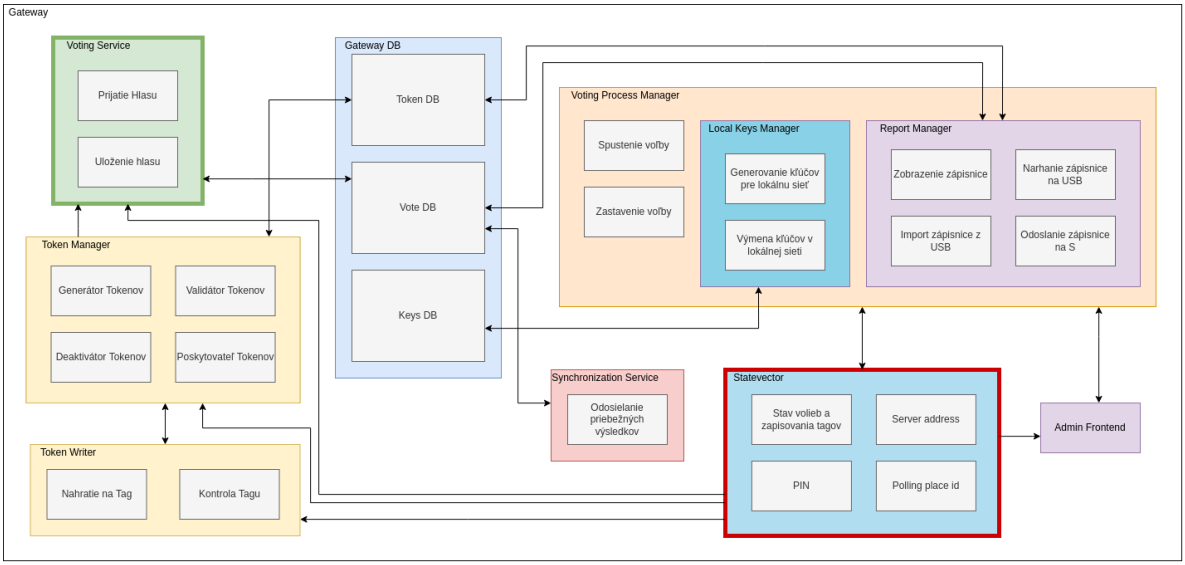
1.1 Gateway

Gataway je zariadenie nachádzajúce sa vo velebnej miestnosti. V miestnosti sa nachádza vždy len jeden gateway. Zabezpečuje komunikáciu medzi volebnými terminálmi a serverom. Gateway obsahuje lokálnu databázu pre hlasy aj tokeny, takže dokáže fungovať aj bez pripojenia k internetu a vie urobiť synchronizáciu na inom mieste, kde je internet dostupný.

Gataway sa má nachádzať na chránenom mieste a pristupovať k nemu smú iba členovia volebnej komisie napríklad pri spustení alebo zastavení volieb alebo nahrávaní autorizačných tokenov na NFC tagy.

1.1.1 Architektúra

popis architektury



1.1.2 Mikroslužby a ich smerovanie

V nasledujúcej tabuľke uvádzame zoznam mikroslužieb a statických súborv na gateway-i a ich smerovanie.

Service	Path
Voting service	`/voting-service-api/`
Synchronization service	`/synchronization-service-api/`
Voting process manager	`/voting-process-manager-api/`
Token manager	`/token-manager-api/`
State vector	`/statevector/`
config.json	`/statevector/config/config.json`
datamodels.yaml	`/statevector/config/datamodels.yaml`

1.2 State vector

Služba zodpovedná za udržiavanie aktuálneho stavu gateway-u.

Udržuje tieto stavy:

- `state_election` - stav volieb
- `state_write` - stav zapisovačky
- `state_register_terminals` - stav registrácie terminálov
- `office_id` - ID volebnej miestnosti
- `pin` - PIN kód k GUI aplikácii na gataway-i
- `server_key` - verejný kľúč servera
- `server_address` - adresa servera

1.2.1 Konfiguračný súbor

Konfiguračný súbor obsahuje celú konfiguráciu volieb pre konkrétnu volebnú miestnosť. Je dostupný ako statický súbor na adrese `/statevector/config/config.json` pomocou Nginx.

1.2.2 Popis API

hello___get

Code samples

```
import requests
headers = {
  'Accept': 'application/json'
}

r = requests.get('/gateway/statevector/', headers = headers)

print(r.json())
```

`GET /`

Hello

Sample testing endpoint

Example responses

200 Response

```
{
  "message": "string"
}
```

Responses

Status	Meaning	Description	Schema
200	OK	Successful Response	Inline

Response Schema

This operation does not require authentication

get_state_election_state_election_get

Code samples

```
import requests
headers = {
  'Accept': 'application/json'
}

r = requests.get('/gateway/statevector/state_election', headers =
    headers)

print(r.json())
```

`GET /state_election`

Get State Election

Get election state string 0 or 1

Example responses

200 Response

```
null
```

Responses

Status	Meaning	Description	Schema
200	OK	Successful Response	Inline

Response Schema

This operation does not require authentication

set_state_election_state_election_post

Code samples

```
import requests
headers = {
  'Content-Type': 'application/json',
  'Accept': 'application/json'
}

r = requests.post('/gateway/statevector/state_election', headers =
    headers)

print(r.json())
```

`POST /state_election`

Set State Election

Set election state string 0 or 1

Body parameter

```
"string"
```

Parameters

Name	In	Type	Required	Description
body	body	string	true	none

Example responses

200 Response

```
null
```

Responses

Status	Meaning	Description	Schema
200	OK	Successful Response	Inline
422	Unprocessable Entity	Validation Error	HTTPValidationError

Response Schema

This operation does not require authentication

get__state__write__state__write__get

Code samples

```
import requests
headers = {
  'Accept': 'application/json'
}

r = requests.get('/gateway/statevector/state_write', headers =
    headers)

print(r.json())
```

`GET /state_write`

Get State Write

Get write state string 0 or 1

Example responses

200 Response

```
null
```

Responses

Status	Meaning	Description	Schema
200	OK	Successful Response	Inline

Response Schema

This operation does not require authentication

set__state__write__state__write__post

Code samples

```
import requests
headers = {
  'Content-Type': 'application/json',
  'Accept': 'application/json'
}

r = requests.post('/gateway/statevector/state_write', headers =
    headers)

print(r.json())
```

`POST /state_write`

Set State Write

Set write state string 0 or 1

Body parameter

```
"string"
```

Parameters

Name	In	Type	Required	Description
body	body	string	true	none

Example responses

200 Response

```
null
```

Responses

Status	Meaning	Description	Schema
200	OK	Successful Response	Inline
422	Unprocessable Entity	Validation Error	HTTPValidationError

Response Schema

This operation does not require authentication

state__register__terminals__state__register__terminals__get

Code samples

```
import requests
```

```
headers = {
  'Accept': 'application/json'
}

r = requests.get('/gateway/statevector/state_register_terminals',
    headers = headers)

print(r.json())
```

`GET /state_register_terminals`

State Register Terminals

Get terminals registration state string 0 or 1

Example responses

200 Response

```
null
```

Responses

Status	Meaning	Description	Schema
200	OK	Successful Response	Inline

Response Schema

This operation does not require authentication

set__state__register__terminals__state__register__terminals__post

Code samples

```
import requests
headers = {
  'Content-Type': 'application/json',
  'Accept': 'application/json'
}

r = requests.post('/gateway/statevector/state_register_terminals',
    headers = headers)

print(r.json())
```

`POST /state_register_terminals`

Set State Register Terminals

Set register terminals state string 0 or 1

Body parameter

```
"string"
```

Parameters

Name	In	Type	Required	Description
body	body	string	true	none

Example responses

200 Response

```
null
```

Responses

Status	Meaning	Description	Schema
200	OK	Successful Response	Inline
422	Unprocessable Entity	Validation Error	HTTPValidationError

Response Schema

This operation does not require authentication

get__office__id__office__id__get

Code samples

```
import requests
headers = {
  'Accept': 'application/json'
}

r = requests.get('/gateway/statevector/office_id', headers = headers)

print(r.json())
```

`GET /office_id`

Get Office Id

Get office id

Example responses

200 Response

```
null
```

Responses

Status	Meaning	Description	Schema
200	OK	Successful Response	Inline

Response Schema

This operation does not require authentication

get__pin__pin__get

Code samples

```
import requests
headers = {
  'Accept': 'application/json'
}

r = requests.get('/gateway/statevector/pin', headers = headers)

print(r.json())
```

`GET /pin`

Get Pin

Get pin

Example responses

200 Response

```
null
```

Responses

Status	Meaning	Description	Schema
200	OK	Successful Response	Inline

Response Schema

This operation does not require authentication

get__server__key__server__key__get

Code samples

```
import requests
headers = {
  'Accept': 'application/json'
}

r = requests.get('/gateway/statevector/server_key', headers = headers)

print(r.json())
```

`GET /server_key`

Get Server Key

Get server key

Example responses

200 Response

```
null
```

Responses

Status	Meaning	Description	Schema
200	OK	Successful Response	Inline

Response Schema

This operation does not require authentication

get__server__address__server__address__get

Code samples

```
import requests
headers = {
  'Accept': 'application/json'
}

r = requests.get('/gateway/statevector/server_address', headers =
    headers)

print(r.json())
```

`GET /server_address`

Get Server Address

Get server address

Example responses

200 Response

```
null
```

Responses

Status	Meaning	Description	Schema
200	OK	Successful Response	Inline

Response Schema

This operation does not require authentication

Schemas

1.2.2.12.1 HTTPValidationError

```
{
  "detail": [
    {
      "loc": [
        "string"
```

```
      ],
      "msg": "string",
      "type": "string"
    }
  ]
}
```

HTTPValidationError

Properties

Name	Type	Required	Restrictions	Description
detail	[ValidationError]	false	none	none

1.2.2.12.2 ValidationError

```
{
  "loc": [
    "string"
  ],
  "msg": "string",
  "type": "string"
}
```

ValidationError

Properties

Name	Type	Required	Restrictions	Description
loc	[string]	true	none	none
msg	string	true	none	none
type	string	true	none	none