Description of PRIA mock for Pääsuke

- 1. Preface
 - 1.1 Sending queries to the mock
- 2. Persons who have any mandates to represent the legal entity (Ettevõtte esindajad ja volitatud isikud)
 - o 2.1. Imaginary situation
 - o 2.2. Query
 - o 2.3. Response
 - 2.4. How Pääsuke is going to display this response
- 3. Natural person viewing mandates that are given to him/her (Mulle antud volitused)
 - o 3.1. Imaginary situation
 - o 3.2. Query
 - o 3.3. Response
 - 3.4. How Pääsuke is going to display this response
- 4. Getting the sub-delegates of a specific mandate (Vaata edasivolitusi)
 - 4.1. Imaginary situation
 - o 4.2. Query
 - 4.3. Response
 - 4.4. How Pääsuke is going to display this response
- 5. Sub-delegating a mandate
 - o 5.1. Imaginary situation
 - o 5.2. Mari Maasikas sub-delegates a mandate
 - 5.2.1. How sub-delegating a mandate looks like in Pääsuke
 - 5.2.2. Request except for the payload
 - 5.2.3. Request Payload
- · 6. Adding a new mandate
 - 6.1. Imaginary situation
 - O Pääsuke UI for granting a mandate
 - o 6.2. Request
 - 6.2.1. Request headers
 - 6.2.2. Request Payload
- 7. Deleting a mandate
 - 7.1. Imaginary situation
 - 7.2. Link in the returned mandates
 - o 7.3. How deleting is displayed in Pääsuke
 - 7.4. What request is made by Pääsuke after deleting the mandate is confirmed by the user
 - 7.4.1 Request headers
- 8. Pääsuke periodically pulls the translations for the roles
 - 8.1. First query to load role translations
 - 8.2. Response with translations
 - o 8.3 Query to load role translations (with if-modified-since header)
 - o 8.4. Response indicating there are no changes
- 9. Editing a mandate

1. Preface

This description is written against Pääsuke x-road API spec 0.7.5.

This is a description how the mocks service mimics the future behaviour of x-road services that will be implemented in PRIA.

1.1 Sending queries to the mock

In this document, we play different scenarios with PRIA mock.

It is possible to download the mock (https://github.com/e-gov/PH) and run it locally.

NB! Normally the value of header X-Road-Id should be a randomly generated identifier but regarding the mock service, sending a value "PRIA" each time is a way to make sure it acts as PRIA.

2. Persons who have any mandates to represent the legal entity (Ettevõtte esindajad ja volitatud isikud)

2.1. Imaginary situation

- Tõnu Tuuline (EE30303039816) is a board member of the company Agro Agro AS (which is registered as PRIA customer)
- Mari Maasikas has a role "PRIA:Unrestricted"
 - $^{\circ}~$ that is valid until 2023-01-13...2028-12-31
 - o she has a right to sub-delegate it
 - o In the chapter 5 of this document, we go through the scenario of how the board member added this mandate to Mari Maasikas.
- Mari Maasikas has sub-delegated this role "PRIA:Unrestricted" to Kaupo Kuusik

- o this sub-delegation is valid only during the year 2027 (2027-01-01 ... 2027-12-31)
- Jüri has no right to further sub-delegate it (this is by the design of Pääsuke that A can sub-delegate mandate to B, but B can not further sub-delegate it to anyone because when A adds sub-delegate to a mandate the tick-box "can sub delegate" is not displayed)
- o In chapter 6 of this document, we go through how Mari Maasikas sub-delegated her mandate to Kaupo Kuusik

2.2. Query

Tõnu logs into Pääsuke and the first tab ("Ettevõtte esindajad ja volitatud isikud") starts loading

Pääsuke starts to gather information to display the view that displays representees of the company and other people who have active mandates.

Pääsuke makes the following query over X-Road to PRIA mock service:

```
curl \
-X GET \
-H "accept: application/json" \
-H "X-Road-User-Id: EE30303039816" \
-H "X-Road-Represented-Party: EE11430169" \
-H "X-Road-Id: PRIA" \
"https://security-server/r1/ee-dev/GOV/70006317/volitused-mock/volitused/v1/representees/EE11430169/delegates/mandates"
```

NB! Normally the value of header X-Road-Id should be a randomly generated identifier but regarding the mock service, this is a way to make sure it acts as PRIA.

2.3. Response

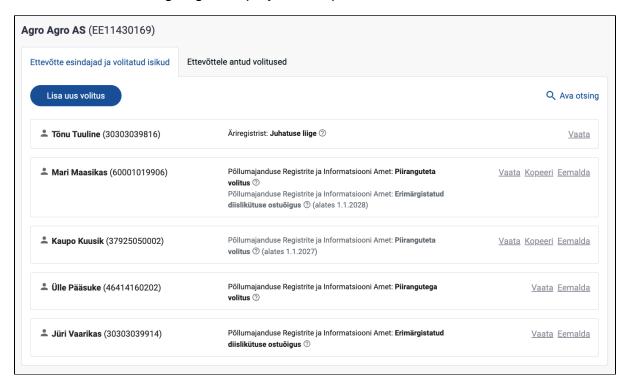
The following response is returned by PRIA mock service:

```
{
  "representee": {
   "type": "LEGAL_PERSON",
    "legalName": "Agro Agro AS",
    "identifier": "EE11430169"
  "delegate": {
    "type": "NATURAL_PERSON",
    "firstName": "Tõnu",
    "surname": "Tuuline",
    "identifier": "EE30303039816"
  "mandates": [
    {
      "role": "BUSINESS_REGISTRY_CARD_PRIA:FULL_JUHL",
      "validityPeriod": {
        "from": "2020-07-07"
  1
},
  "representee": {
    "type": "LEGAL_PERSON",
    "legalName": "Agro Agro AS",
    "identifier": "EE11430169"
  },
  "delegate": {
   "type": "NATURAL_PERSON",
    "firstName": "Mari",
    "surname": "Maasikas"
    "identifier": "EE60001019906"
  },
  "mandates": [
      "role": "PRIA:Unrestricted",
      "validityPeriod": {
       "from": "2027-01-01",
        "through": "2028-12-31"
      },
      "links": {
```

```
"delete": "/v1/nss/PRIA/representees/imp1-EE11430169/delegates/imp2-EE60001019906/mandates/imp3-
Unrestricted",
         "addSubDelegate": "/v1/nss/PRIA/representees/imp1-EE11430169/delegates/imp2-EE60001019906/mandates
/imp3-Unrestricted/",
         "origin": "https://epria.pria.ee?x=y&z=q"
       }
     },
       "role": "PRIA:fiscally_marked_gas_buyer",
        "validityPeriod": {
         "from": "2023-01-01"
       },
        "links": {
         "delete": "/v1/nss/PRIA/representees/imp1-EE11430169/delegates/imp2-EE60001019906/mandates/imp3-
fiscally_marked_gas_buyer",
         "origin": "https://epria.pria.ee?x=y&z=q"
       }
     }
   ]
 },
    "representee": {
     "type": "LEGAL_PERSON",
     "legalName": "Agro Agro AS",
     "identifier": "EE11430169"
   },
    "delegate": {
     "type": "NATURAL_PERSON",
     "firstName": "Kaupo",
     "surname": "Kuusik",
     "identifier": "EE37925050002"
   },
    "mandates": [
     {
       "role": "PRIA:Unrestricted",
        "validityPeriod": {
         "from": "2027-01-01",
         "through": "2027-12-31"
       },
        "links": {
         "delete": "/v1/nss/PRIA/representees/imp1-EE11430169/delegates/imp2-EE37925050002/mandates/imp3-
Unrestricted".
          "origin": "https://epria.pria.ee?x=y&z=q"
       },
       "subDelegatorIdentifier": "EE60001019906"
   ]
 },
   "representee": {
     "type": "LEGAL_PERSON",
     "legalName": "Agro Agro AS",
     "identifier": "EE11430169"
    "delegate": {
     "type": "NATURAL_PERSON",
     "firstName": "Ülle",
     "surname": "Pääsuke",
     "identifier": "EE46414160202"
   },
    "mandates": [
       "role": "PRIA:partial",
       "validityPeriod": {
         "from": "2023-01-01",
          "through": "2028-12-31"
        },
        "links": {
          "delete": "/v1/nss/PRIA/representees/imp1-EE11430169/delegates/imp2-EE46414160202/mandates/imp3-
         "origin": "https://epria.pria.ee?x=y&z=q"
```

```
]
    "representee": {
     "type": "LEGAL_PERSON",
      "legalName": "Agro Agro AS",
      "identifier": "EE11430169"
    "delegate": {
     "type": "NATURAL_PERSON",
      "firstName": "Jüri",
      "surname": "Vaarikas",
      "identifier": "EE30303039914"
    },
    "mandates": [
        "role": "PRIA:fiscally_marked_gas_buyer",
        "validityPeriod": {
          "from": "2022-01-01",
          "through": "2029-12-31"
        "links": {
         "delete": "/v1/nss/PRIA/representees/imp1-EE11430169/delegates/imp2-EE30303039914/mandates/imp3-
fiscally_marked_gas_buyer",
          "origin": "https://epria.pria.ee?x=y&z=q"
     }
   ]
 }
]
```

2.4. How Pääsuke is going to display this response



3. Natural person viewing mandates that are given to him/her (Mulle antud volitused)

3.1. Imaginary situation

- Agro Agro AS has given two roles to Mari Maasikas
 - o piiranguteta volitus (with the right to add a sub-delegate to it)
 - o erimärgistatud diisli ostuõigus (by configuration this role does not allow adding sub-delegates)

3.2. Query

Pääsuke starts to gather information to display the view that displays mandates given to a natural person.

Pääsuke makes the following query over X-Road to PRIA mock service:

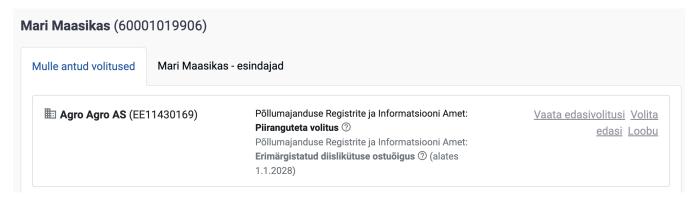
```
curl \
-X GET \
-H "accept: application/json" \
-H "X-Road-User-Id: EE60001019906" \
-H "X-Road-Id: PRIA" \
"https://security-server/r1/ee-dev/GOV/70006317/volitused-mock/volitused/v1/delegates/EE60001019906/representees/mandates"
```

3.3. Response

The following response is returned by PRIA mocks service:

```
{
   "representee": {
     "type": "LEGAL_PERSON",
     "legalName": "Agro Agro AS",
     "identifier": "EE11430169"
   "delegate": {
     "type": "NATURAL_PERSON",
     "firstName": "Mari",
     "surname": "Maasikas",
     "identifier": "EE60001019906"
   },
   "mandates": [
       "role": "PRIA:Unrestricted",
       "validityPeriod": {
        "from": "2027-01-13",
        "through": "2028-12-31"
       "links": {
         Unrestricted",
        "addSubDelegate": "/v1/nss/PRIA/representees/imp1-EE11430169/delegates/imp2-EE60001019906/mandates
/imp3-Unrestricted/",
         "origin": "https://epria.pria.ee?x=y&z=q"
      }
       "role": "PRIA:fiscally_marked_gas_buyer",
       "validityPeriod": {
        "from": "2023-01-01"
       "links": {
        "delete": "/v1/nss/PRIA/representees/imp1-EE11430169/delegates/imp2-EE60001019906/mandates/imp3-
fiscally_marked_gas_buyer",
         "origin": "https://epria.pria.ee?x=y&z=q"
 }
]
```

3.4. How Pääsuke is going to display this response



4. Getting the sub-delegates of a specific mandate (Vaata edasivolitusi)

4.1. Imaginary situation

On the previous screen, the Mari Maasikas clicks on the button to see sub-delegates ("Vaata edasivolitusi")

4.2. Query

Pääsuke sends out the query:

- return the delegates of Agro Agro (EE11430169)
- apply a filter to only return delegates that have been sub-delegated by Mari Masikas (EE60001019906)

```
curl
-X GET
-H "accept: application/json"
-H "X-Road-User-Id: EE60001019906"
-H "X-Road-Represented-Party: EE11430169"
"https://security-server/r1/ee-dev/GOV/70006317/volitused-mock/volitused/v1/representees/EE11430169/delegates/mandates?
subDelegatedBy=EE60001019906"
```

4.3. Response

```
{
    "representee": {
      "type": "LEGAL_PERSON",
      "legalName": "Agro Agro AS",
      "identifier": "EE11430169"
    "delegate": {
      "type": "NATURAL_PERSON",
      "firstName": "Kaupo",
      "surname": "Kuusik",
      "identifier": "EE37925050002"
    "mandates": [
        "role": "PRIA:Unrestricted",
        "validityPeriod": {
          "from": "2027-01-01",
          "through": "2027-12-31"
        "links": {
          "delete": "/v1/nss/PRIA/representees/imp1-EE11430169/delegates/imp2-EE37925050002/mandates/imp3-
Unrestricted",
          "origin": "https://epria.pria.ee?x=y&z=q"
        "subDelegatorIdentifier": "EE60001019906"
    ]
 }
]
```

4.4. How Pääsuke is going to display this response

• The prototype has no screen for that yet

5. Sub-delegating a mandate

5.1. Imaginary situation

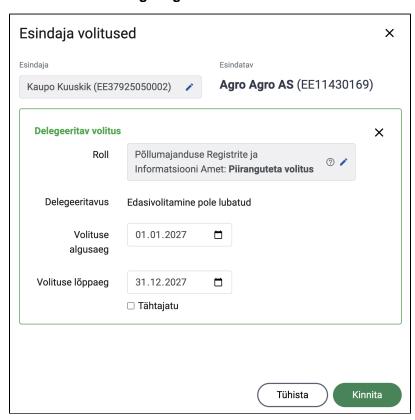
• Mari Maasikas is looking at the mandates that have been granted to her (described in chapter 3).

- As we can see from the response in chapter 3.2 Agro Agro AS (EE11430169) has granted two mandates to Mari Maasikas
- One of the mandates (PRIA:Unrestricted) has been given together with the right to sub-delegate it
 - o it has link "addSubDelegate"
- The other mandate cannot be further sub-delegated
 - o this mandate does not have a link "addSubDelegate"

5.2. Mari Maasikas sub-delegates a mandate

Mari Maasikas looks at the mandates granted to her (see the screenshot in chapter 3.4) and clicks the button to add a sub-delegate (Volita edasi). The user interface detects which of the mandates can be sub-delegated and only includes such mandates on the modal window.

5.2.1. How sub-delegating a mandate looks like in Pääsuke



NB! UI of Pääsuke forbids setting the from and through dates to exceed the validity period of the mandate being sub-delegated.

5.2.2. Request except for the payload

```
curl
  -X POST
  -H "accept: application/json"
  -H "X-Road-User-Id: EE60001019906"
  -H "X-Road-Represented-Party: EE11430169"
  "https://security-server/r1/ee-dev/GOV/70006317/volitused-mock/volitused

/v1/nss/PRIA/representees/imp1-EE11430169/delegates/imp2-EE60001019906/mandates/imp3-HAMPI/subdelegates"
```

The values highlighted in the request are taken from the addSubDelegate link (see the response in chapter 3.3):

"addSubDelegate": "/v1/ns/PRIA/representees/imp1-EE11430169/delegates/imp2-EE60001019906/mandates/imp3-Unrestricted/subdelegates"

5.2.3. Request Payload

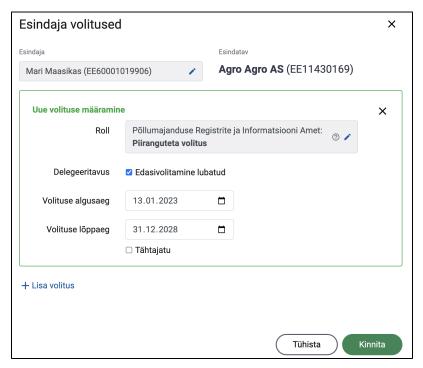
Note. If there were more than one mandate being sub-delegated then Pääsuke makes a separate POST for each mandate.

6. Adding a new mandate

6.1. Imaginary situation

- · Mari Maasikas has no roles yet to represent the company
- Management board member Tõnu Tuuline (EE30303039816) grants the first role to Mari Maasikas

Pääsuke UI for granting a mandate



6.2. Request

6.2.1. Request headers

```
curl
-X POST
-H "accept: application/json"
-H "X-Road-User-Id: EE30303039816"
-H "X-Road-Represented-Party: EE11430169"
"https://security-server/r1/ee-dev/GOV/70006317/volitused-mock/volitused/v1/representees/EE11430169/delegates/EE60001019906/mandates"
```

6.2.2. Request Payload

```
"representee": {
    "identifier": "EE11430169",
    "legalName": "Agro Agro AS",
    "type": "LEGAL_PERSON"
  "delegate": {
    "firstName": "Mari",
    "identifier": "EE30303039816",
    "surname": "Maasikas",
    "type": "NATURAL_PERSON"
  "mandate": {
   "canSubDelegate": true,
    "role": "PRIA:Unrestricted",
    "validityPeriod": {
     "from": "2023-01-13",
      "through": "2028-12-31"
   }
 },
  "authorizations": [
      "hasRole": "BUSINESS_REGISTRY_CARD_PRIA:FULL_JUHL",
      "userIdentifier": "EE30303039816"
 ]
}
```

7. Deleting a mandate

7.1. Imaginary situation

Tõnu Tuuline clicks to delete a mandate given to Kaupo Kuusik.

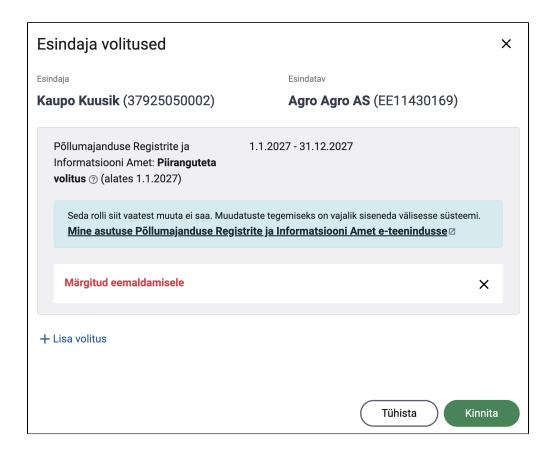
7.2. Link in the returned mandates

In chapter 2.3 the following link was returned to management board member Tonu Tuuline:

"links": { "delete": "/v1/ns/PRIA/representees/imp7-EE11430169/delegates/imp8-EE37925050002/mandates/imp9-Unrestricted"

Since the link was returned for this mandate it refers that the mandate can be deleted.

7.3. How deleting is displayed in Pääsuke



7.4. What request is made by Pääsuke after deleting the mandate is confirmed by the user

7.4.1 Request headers

In case more than one mandate was deleted by the user, Pääsuke would make individual DELETE requests for each mandate being deleted.

The parameters (PRIA, imp7-EE11430169, imp8-EE37925050002, imp9-Unrestricted) used in the URL are taken from the link above.

```
curl
  -X DELETE

-H "accept: application/json"
  -H "X-Road-User-Id: EE30303039816"
  -H "X-Road-Represented-Party: EE11430169"
  "https://security-server/r1/ee-dev/GOV/70006317/volitused-mock/volitused

/v1/ns/PRIA/representees/imp7-EE11430169/delegates/imp8-EE37925050002/mandates/imp9-Unrestricted"
```

According to REST specification, the delete request cannot have a body and Pääsuke doesn't include information about why the person was authorized to perform the removal.

8. Pääsuke periodically pulls the translations for the roles

Until this far we have seen role codes (like PRIA:Unrestricted).

Pääsuke needs to load translations to these roles.

For that Pääsuke periodically fetches roles.

8.1. First query to load role translations

The following query is made by a background system.

The first query doesn't include "If-Modified-Since" header.

```
curl \
  -X GET \
  -H "accept: application/json" \
  -H "X-Road-Id: PRIA" \
  "https://security-server/r1/ee-dev/GOV/70006317/volitused-mock/volitused/v1/roles"
```

Pääsuke keeps a list of namespaces and includes them as query parameters.

8.2. Response with translations

```
[
   "code": "PRIA:Unrestricted",
   "title": {
     "et": "Piiranguteta volitus",
     "en": "Piiranguteta volitus (eng)",
      "ru": "Piiranguteta volitus (rus)"
    "description": {
     "et": "Volikirjaga antud volitused kehtivad PRIA iseteeninduskeskkondade kasutamisel, elektrooniliste- ja
paberdokumentide esitamisel ning vahetus suhtluses.",
     "en": "ENG: Volikirjaga antud volitused kehtivad PRIA iseteeninduskeskkondade kasutamisel,
elektrooniliste- ja paberdokumentide esitamisel ning vahetus suhtluses.",
     "ru": "RUS: Volikirjaga antud volitused kehtivad PRIA iseteeninduskeskkondade kasutamisel,
elektrooniliste- ja paberdokumentide esitamisel ning vahetus suhtluses."
   },
   "modified": "2022-10-18T11:00:00Z",
   "canSubDelegate": true,
    "representeeType": [
     "LEGAL_PERSON",
      "NATURAL_PERSON"
    "delegateType": [
     "NATURAL_PERSON"
   1.
    "assignableBy": [
     "PRIA: Unrestricted",
      "BUSINESS REGISTRY CARD PRIA: FULL JUHL",
     "BUSINESS_REGISTRY_CARD_PRIA:FULL_PROK"
    "deletableBy": [
     "PRIA: Unrestricted",
      "BUSINESS_REGISTRY_CARD_PRIA:FULL_JUHL",
     "BUSINESS_REGISTRY_CARD_PRIA:FULL_PROK"
    "deletableByDelegate": true,
    "visible": true
    "code": "PRIA:partial",
    "title": {
     "et": "Piirangutega volitus",
     "en": "Partial authorisation",
     "ru": "Piirangutega volitus (rus)"
   },
    "description": {
     "et": "Osalised ehk piirangutega volitused. Detailide nägemiseks on vja pöörduda e-PRIA-sse.",
     "en": "EN: Osalised ehk piirangutega volitused. Detailide nägemiseks on vja pöörduda e-PRIA-sse",
     "ru": "RU: Osalised ehk piirangutega volitused. Detailide nägemiseks on vja pöörduda e-PRIA-sse"
    "modified": "2022-10-18T11:00:00Z",
    "canSubDelegate": false,
    "deletableByDelegate": true,
    "visible": true
 },
```

```
"code": "PRIA:fiscally_marked_gas_buyer",
    "title": {
      "et": "Erimärgistatud diislikütuse ostuõigus",
     "en": "Erimärgistatud diislikütuse ostuõigus (en)",
     "ru": "Erimärgistatud diislikütuse ostuõigus (ru)"
    },
    "description": {
     "et": "Seda õigust saab e-PRIA-st anda erimärgistatud diislikütuse ostuõigust omav juriidiline isik või
FIE oma töötajale või kaluri kalapüügi loale antud isikule.",
     "en": "ENG: Seda õigust saab e-PRIA-st anda erimärgistatud diislikütuse ostuõigust omav juriidiline isik
või FIE oma töötajale või kaluri kalapüügi loale antud isikule.",
     "ru": "RU: Seda õigust saab e-PRIA-st anda erimärgistatud diislikütuse ostuõigust omav juriidiline isik
või FIE oma töötajale või kaluri kalapüügi loale antud isikule."
    "modified": "2022-10-18T11:00:00Z",
    "canSubDelegate": false,
    "deletableByDelegate": true,
    "visible": true
    "code": "BUSINESS_REGISTRY_CARD_PRIA:FULL_JUHL",
    "title": {
     "et": "<seda ei kuvata>"
    "description": {
      "et": "Ainuesindusõigusega juhatuse liige saab ettevõtte nimel teha e-PRIA-s kõiki tegevusi. Eesti.ee-s
saab juhatuse liige kõiki volitusi vaadata ja eemaldada ja lisada piiramatuid volitusi.",
     "en": "Inglisekeelne kirjeldus",
     "ru": "Venekeelne kirjeldus"
   },
    "modified": "2022-10-18T11:00:00Z".
    "canSubDelegate": false,
    "deletableByDelegate": false,
    "visible": true
    "code": "BUSINESS_REGISTRY_CARD_PRIA:FULL_PROK",
    "title": {
     "et": ""
    "description": {
     "et": "Prokurist saab ettevõtte nimel teha e-PRIA-s kõiki tegevusi. Eesti.ee-s saab juhatuse liige kõiki
volitusi vaadata ja eemaldada ja lisada piiramatuid volitusi."
    "modified": "2022-10-18T11:00:00Z",
    "canSubDelegate": false,
    "deletableByDelegate": false,
    "visible": true
 }
]
```

Max modified date is: 2023-01-18T11:00:00Z

8.3 Query to load role translations (with if-modified-since header)

```
curl
-X GET

-H "accept: application/json"
-H "If-Modified-Since: 2023-01-18T11:00:00Z"

"https://security-server/r1/ee-dev/GOV/70006317/volitused-mock/volitused/v1/roles"
```

8.4. Response indicating there are no changes

HTTP status code 304

9. Editing a mandate

It is not possible to edit a mandate that is stored outside of Pääsuke. The user has to delete a mandate and add a new one.