EMTA mock

1. Preface

This description is written against Pääsuke x-road API spec 0.6.0.

1.1 Sending queries to the mock

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

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

1.2. Imaginary situations

All the flows start with describing an imaginary situation.

- We have a legal entity Tolliagentuur Maks OÜ (EE11065244)
- We have an imaginary person Kalle Kuusk-Konstatinov (EE50001029996)
- Kalle Kuusk-Konstantinov is a board member of the company Tolliagentuur Maks OÜ (EE11065244)
- Kalle logs in to Pääsuke and selects that he currently represents that company.

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

2.1. Imaginary situation

- Kalle Kuusk-Konstatinov (EE50001029996) is the board member (with full representation rights)
- Mari Maasikas has a role EMTA:HAMPI
  - that is valid until 2023-01-01...2031-10-31
  - she has a right to sub-delegate it
  - In 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 EMTA:HAMPI to Jüri Vaarikas
  - this sub-delegation is valid only during the year 2030 (2030-01-01 ... 2030-12-31)
  - 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)
  - In chapter 6 of this document, we go through how Mari Maasikas sub-delegated her mandate to Jüri Vaarikas

2.2. Query

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 EMTA mock service:

```
curl \
 -X GET \
 -H "accept: application/json"  \
 -H "X-Road-User-Id: EE50001029996" \
 -H "X-Road-Represented-Party: EE11065244" \
 "https://security-server/r1/ee-dev/GOV/70006317/volitused-mock/volitused-emta/v1/representees/EE11065244/delegates/mandates"
```

NB! This query is made by management board member Kalle Kuusk-Konstantinov.

2.3. Response

The following response is returned by EMTA mocks service:

```
[
  {
    "representee": {
      "type": "LEGAL_PERSON",
      "legalName": "Tolliagentuur Maks OÜ",
      "identifier": "EE11065244"
    },
    "delegate": {
      "type": "NATURAL_PERSON",
      "firstName": "Kalle",
      "surname": "Kuusk-Konstantinov",
      "identifier": "EE50001029996"
    },
    "mandates": [
      {
        "namespace": "EMTA",
        "role": "A-JI",
        "validityPeriod": {
          "from": "2022-10-21"
        }
      },
      /* The following role is special case with EMTA integration.

         All the privileges in "A-JI-V" are all included in "A-JI".
         Since this user has both roles we plan not to display this role in Pääsuke.

             At first we can display it but later we might remove it.
      */
      {
        "namespace": "EMTA",
        "role": "A-JI-V",
        "validityPeriod": {
          "from": "2022-10-21"
```

```
        }
      }
    ]
  },
  {
    "representee": {
      "type": "LEGAL_PERSON",
      "legalName": "Tolliagentuur Maks OÜ",
      "identifier": "EE11065244"
    },
    "delegate": {
      "type": "NATURAL_PERSON",
      "firstName": "Mari",
      "surname": "Maasikas",
      "identifier": "EE60001019906"
    },
    "mandates": [
      {
        "namespace": "EMTA",
        "role": "HAMPI",
        "validityPeriod": {
          "from": "2023-01-01",
          "through": "2031-10-31"
        },
        "links": {
          "uiExternalEdit": "https://vaarikas.emta.ee?x=y&z=q",
          "xRoadDeleteMandate": "/v1/ns/EMTA/representees/imp4-EE11065244/delegates/imp5-EE60001019906/mandates
/imp6-HAMPI",

          /*
          NB! In the response of /representees/{representee}/delegates/mandates there can be never be
attributes to sub-delegate.
          xRoadPostSubDelegate can only be present in the response of /delegates/{delegate}/mandates
          */
        }
      }
    ]
  },
  {
    "representee": {
      "type": "LEGAL_PERSON",
      "legalName": "Tolliagentuur Maks OÜ",
      "identifier": "EE11065244"
    },
    "delegate": {
      "type": "NATURAL_PERSON",
      "firstName": "Jüri",
      "surname": "Vaarikas",
      "identifier": "EE30303039914"
    },
    "mandates": [
      {
        "namespace": "EMTA",
        "role": "HAMPI",
        "validityPeriod": {
          "from": "2029-01-01",
          "through": "2030-12-31"
        },
        "links": {
          /* See chapter 8 for deleting this mandate */
          "xRoadDeleteMandate": "/v1/ns/EMTA/representees/imp7-EE11065244/delegates/imp8-EE30303039914/mandates
/imp9-HAMPI",
          /* this role cannot be further sub-delegated as it is already sub-delegated mandate itself */
        }
      }
    ]
  }
]
```

2.4. How Pääsuke is going to display this response

Tolliagentuur Maks OÜ (EE11065244)

| Ettevõtte esindajad ja volitatud isikud | Ettevõttele antud volitused |

Lisa uus volitus   🔍 Ava otsing

👤 **Kalle Kuusk-Konstantinov** (50001029996)   Äriregistrist: **Juhatuse liige** ⑦   Vaata

👤 **Mari Maasikas** (60001019906)   Maksu- ja Tolliamet: **Hasartmängu mängimise piirangutega isikute nimekirja" vaatamine**   Vaata Kopeeri Eemalda

👤 **Jüri Vaarikas** (30303039914)   Maksu- ja Tolliamet: **Hasartmängu mängimise piirangutega isikute nimekirja" vaatamine** (alates 1.1.2030)   Vaata Kopeeri Eemalda

3. Mandates that are given to the legal entity (Ettevõttele antud volitused)

3.1. Imaginary situation

- Väikefirma OÜ has given two roles to Tolliagentuur Maks OÜ
    - aktsiisideklaratsioonide haldamine
        - alates 1.01.2022 kuni 31.12.2025
        - edasivolitamise õigusega
    - väljaveodeklaratsioonide haldamine
        - alates 1.01.2025 - ilma kuupäevalise piiranguta
        - edasivolitamise õigusega
- Management board member of Tolliagentuur Maks OÜ opens the tab to see the mandates that are delegated to his company.

3.2. Query

Pääsuke starts to gather information to display the view that displays mandates given to a legal entity by others.

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

```
curl
 -X GET
 -H "accept: application/json"
 -H "X-Road-User-Id: EE50001029996"
 -H "X-Road-Represented-Party: EE11065244"
 "https://security-server/r1/ee-dev/GOV/70006317/volitused-mock/volitused-emta/v1/delegates/EE11065244/representees/mandates"
```

3.3. Response

The following response is returned by EMTA mocks service:

```
[
  {
    "representee": {
      "type": "LEGAL_PERSON",
      "legalName": "Väikefirma OÜ",
      "identifier": "EE10391131"
    },
    "delegate": {
      "type": "LEGAL_PERSON",
      "legalName": "Tolliagentuur Maks OÜ",
      "identifier": "EE11065244"
    },
    "mandates": [
      {
        "namespace": "EMTA",
        "role": "ADEK_CLIENT",
        "validityPeriod": {
          "from": "2023-01-01",
          "through": "2029-12-31"
        },
        "links": {
          "xRoadDeleteMandate": "/v1/ns/EMTA/representees/imp1-EE10391131/delegates/imp2-EE11065244/mandates/imp3-ADEK_CLIENT",
          "xRoadPostSubDelegate": "/v1/ns/EMTA/representees/imp1-EE10391131/delegates/imp2-EE11065244/mandates/imp3-ADEK_CLIENT/subdelegates"
        }
      },
      {
        "namespace": "EMTA",
        "role": "ECS_VOLITATUDEV_VALJUMINE",
        "validityPeriod": {
          "from": "2028-01-01"
        },
        "links": {
          "xRoadDeleteMandate": "/v1/ns/STAT/representees/imp1-EE10391131/delegates/imp2-EE11065244/mandates/imp3-ECS_VOLITATUDEV_VALJUMINE",
          "xRoadPostSubDelegate": "/v1/ns/STAT/representees/imp1-EE10391131/delegates/imp2-EE11065244/mandates/imp3-ECS_VOLITATUDEV_VALJUMINE/subdelegates"
        }
      }
    ]
  }
]
```

3.4. How Pääsuke is going to display this response

Tolliagentuur Maks OÜ (EE67890123)

| Ettevõtte esindajad ja volitatud isikud | Ettevõttele antud volitused |

▥ **Väikefirma OÜ** (EE12345678)   Maksu- ja Tolliamet: **Aktsiisideklaratsioonide haldamine (alates 01.02.2019)**
Maksu- ja Tolliamet: **Ekspordikontrolli süsteemis (ECS, OMF) väljaveodeklaratsioonide haldamine väljumistolliasutuses**
Vaata edasivolitusi Volita edasi Loobu

What the prototype is not capable of displaying

- since the second mandate becomes in effect in the future it should be displayed with gray color

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

4.1. Imaginary situation

On the previous screen, the management board member clicks on the button to see sub-delegates ("Vaata edasivolitusi")

4.2. Query

Pääsuke sends out the query:

- return the delegates of Väikefirma (EE10391131)
- apply a filter to only return delegates that have been sub-delegated by Tolliagentuur Maks OÜ (EE11065244)

```
curl
 -X GET
 -H "accept: application/json"
 -H "X-Road-User-Id: EE50001029996"
 -H "X-Road-Represented-Party: EE11065244"
 "https://security-server/r1/ee-dev/GOV/70006317/volitused-mock/volitused-emta/v1/representees/EE10391131/delegates/mandates?
subDelegatedBy=EE11065244"
```

4.3. Response

- The same mandates have been sub-delegated by Tõnu Tuuline

```
[
  {
    "representee": {
      "type": "LEGAL_PERSON",
      "legalName": "Väikefirma OÜ",
      "identifier": "EE10391131"
    },
    "delegate": {
      "type": "LEGAL_PERSON",
      "firstName": "Tõnu",
      "surname": "Tuuline",
      "identifier": "EE30303039816"
    },
    "mandates": [
      {
        "namespace": "EMTA",
        "role": "ADEK_CLIENT",
        "validityPeriod": {
          "from": "2022-01-01",
          "through": "2025-12-31"
        },
        "links": {
          "xRoadDeleteMandate": "/v1/ns/EMTA/representees/imp1-EE10391131/delegates/imp2-EE30303039816/mandates
/imp3-ADEK_CLIENT"
        }
      },
      {
        "namespace": "EMTA",
        "role": "ECS_VOLITATUDEV_VALJUMINE",
        "validityPeriod": {
          "from": "2025-01-01"
        },
        "links": {
          "xRoadDeleteMandate": "/v1/ns/STAT/representees/imp1-EE10391131/delegates/imp2-EE30303039816/mandates
/imp3-ECS_VOLITATUDEV_VALJUMINE"
        }
      }
    ]
  }
]
```

4.4. How Pääsuke is going to display this response

- The prototype has no screen for that yet

5. Adding a new mandate

5.1. Imaginary situation

- Mari Maasikas has no roles yet to represent the company
- Management board member Kalle Kuusk-Konstantinov grants the first role to Mari Maasikas

Pääsuke UI for granting a mandate

5.2. Request

5.2.1. Request except for the payload

```
curl
 -X POST
 -H "accept: application/json"
 -H "X-Road-User-Id: EE50001029996"
 -H "X-Road-Represented-Party: EE11065244"
 "https://security-server/r1/ee-dev/GOV/70006317/volitused-mock/volitused-emta/v1/representees/EE11065244/delegates/EE60001019906/mandates"
```

5.2.2. Request Payload

```
{
  "representee": {
    "identifier": "EE11065244",
    "legalName": "Tolliagentuur Maks OÜ",
    "type": "LEGAL_PERSON"
  },
  "delegate": {
    "identifier": "EE60001019906",
    "firstName": "Mari",
    "surname": "Maasikas",
    "type": "NATURAL_PERSON"
  },
  "mandates": [
    {
      "canSubDelegate": true,
      "namespace": "EMTA",
      "role": "HAMPI",
      "validityPeriod": {
        "from": "2023-01-01",
        "through": "2031-10-31"
      }
    }
  ],
  "authorizations": [
    {
      "hasRole": "EMTA:A-JI",
      "userIdentifier": "EE50001029996"
    }
  ]
}
```

6. Sub-delegating a mandate

6.1. Imaginary situation

- Tolliagentuur Maks OÜ (EE11065244) has granted one mandate to Mari Maasikas
- This mandate has been given to her together with the right to sub-delegate it

6.2. Step 1 - Mari Maasikas requests what mandates have been granted to her by any parties

- Mari Maasikas logs in to Pääsuke (eesti.ee) and sets that she is going to represent herself (and not any company)
- Default tab "Mandates given to me by other parties" (Mulle antud volitused)

6.2.1 Query

NB! This query is very similar to the query described in chapter 3.2

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 EMTA mock service:

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

NB! Header "X-Road-Represented-Party" is not included as the person is representing herself.

6.2.2. Response

The following response is returned by EMTA mocks service:

```
[
  {
    "representee": {
      "type": "LEGAL_PERSON",
      "legalName": "Tolliagentuur Maks OÜ",
      "identifier": "EE11065244"
    },
    "delegate": {
      "type": "NATURAL_PERSON",
      "firstName": "Mari",
      "surname": "Maasikas",
      "identifier": "EE60001019906"
    },
    "mandates": [
      {
        "namespace": "EMTA",
        "role": "HAMPI",
        "validityPeriod": {
          "from": "2028-12-13",
          "through": "2031-10-31"
        },
        "links": {
          "uiExternalView": "https://vaarikas.emta.ee/view/?x=y&z=q",
          "xRoadDeleteMandate": "/v1/ns/EMTA/representees/imp1-EE11065244/delegates/imp2-EE60001019906/mandates
/imp3-HAMPI",
          "xRoadPostSubDelegate": "/v1/ns/EMTA/representees/imp1-EE11065244/delegates/imp2-EE60001019906
/mandates/imp3-HAMPI/subdelegates"
        }
      }
    ]
  }
]
```

NB! The "xRoadPostSubDelegate" link (for not being null) permits Mari Maasikas to further sub-delegate this mandate.

The following parameters (highlighted with different colors) from this link will be used by Pääsuke in the next step:
 "xRoadPostSubDelegate": "/v1/ns/EMTA/representees/imp1-EE11065244/delegates/imp2-EE60001019906/mandates/imp3-HAMPI/subdelegates"

6.2.3. How it is displayed in Pääsuke

Mari Maasikas (60001019906)

Mulle antud volitused	Minu esindajad

| 📇 **Tolliagentuur Maks OÜ** (EE11065244) | Maksu- ja Tolliamet: **Hasartmängu mängimise piirangutega isikute nimekirja" vaatamine** | Vaata edasivolitusi Volita edasi Loobu |

6.3. Step2 - Mari Maasikas sub-delegates the mandate

Mari Maasikas clicks the link to further sub-delegate the mandate ("Volita edasi").

6.3.1. 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.

6.3.2. Request except for the payload

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

```
curl
 -X POST
 -H "accept: application/json"
 -H "X-Road-User-Id: EE60001019906"
 -H "X-Road-Represented-Party: EE11065244"
 "https://security-server/r1/ee-dev/GOV/70006317/volitused-mock/volitused-emta

/v1/ns/EMTA/representees/imp1-EE11065244/delegates/imp2-EE60001019906/mandates/imp3-HAMPI/subdelegates"
```

6.3.3. Request Payload

```
{
  "subDelegate": {
    "identifier": "EE303030399143",
    "firstName": "Jüri",
    "surname": "Vaarikas",
    "type": "NATURAL_PERSON"
  },
  "validityPeriod": {
    "from": "2029-01-01",
    "through": "2030-12-31"
  },
  /* this block tells that Mari Maasikas has the right to sub-delegate it because
     she herself is the owner of the role that is being sub-delegated */
  "authorizations": [
    {
      "hasRole": "EMTA:HAMPI",
      "userIdentifier": "EE60001019906"
    }
  ]
}
```

7. Editing a mandate

It is not possible to edit a mandate that is stored outside of Pääsuke.

8. Deleting a mandate

8.1. Imaginary situation

After looking at the mandates of Tolliagentuur Maks OÜ
that were returned by the query described in chapter 2,
the management board member Kalle Kuusk-Konstantinov
decides to delete the mandate given to Jüri Vaarikas.

8.2. Link in the returned mandates

In chapter 2.3 the following link was returned to management board member Kalle Kuusk-Konstantinov:

"xRoadDeleteMandate": "/v1/ns/EMTA/representees/imp7-EE11065244/delegates/imp8-EE30303039914/mandates/imp9-HAMPI"

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

8.3. How deleting is displayed in Pääsuke

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

8.4.1 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 (EMTA, imp7-EE11065244, imp8-EE30303039914, imp9-HAMPI) used in the URL are taken from the link above.

```
curl
 -X DELETE

 -H "accept: application/json"
 -H "X-Road-User-Id: EE50001029996"
 -H "X-Road-Represented-Party: EE11065244"
 "https://security-server/r1/ee-dev/GOV/70006317/volitused-mock/volitused-emta

/v1/ns/EMTA/representees/imp7-EE11065244/delegates/imp8-EE30303039914/mandates/imp9-HAMPI"
```

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.

9. Pääsuke periodically pulls the translations for the roles

Until this far we have seen role codes (like HAMPI).

Pääsuke needs to load translations to these roles.

For that Pääsuke periodically fetches roles.

9.1. 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"
 "https://security-server/r1/ee-dev/GOV/70006317/volitused-mock/volitused-emta/v1/roles"
```

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

9.2. Response with translations

```
[
  {
    "namespace": "GLOBAL1_EMTA",
    "roles": [
      {
        "code": "ACCOUNTANT",
        "title": null,
        "description": {
          "et": "Raamatupidaja katusroll EMTA-s",
          "en": "Global Accountant role in EMTA",
          "ru": "Raamatupidaja katusroll EMTA-s (vene keeles)"
        },
        "modified": "2022-10-18T11:00:00Z",
        "canSubDelegate": true,
        "representeeType": [
          "LEGAL_PERSON"
        ],
        "delegateType": [
          "NATURAL_PERSON",
          "LEGAL_PERSON"
        ],
        "assignableBy": [
          "EMTA:A-JI"
        ]
      },
      {
        "code": "HR",
        "title": null,
        "description": {
          "et": "Personalitöötaja katusroll EMTA-s",
          "en": "Global HR role in EMTA",
          "ru": "Personalitöötaja katusroll EMTA-s (vene keeles)"
        },
        "modified": "2022-10-18T11:00:00Z",
        "canSubDelegate": true,
        "representeeType": [
          "LEGAL_PERSON"
        ],
```

```json
          "delegateType": [
            "NATURAL_PERSON",
            "LEGAL_PERSON"
          ],
          "assignableBy": [
            "EMTA:A-JI"
          ]
        }
      ]
    },
    {
      "namespace": "EMTA",
      "roles": [
        {
          "code": "A-JI",
          "title": {
            "et": "Juriidilise isiku esindaja pakett",
            "en": "Package for legal person's representative",
            "ru": "    "
          },
          "description": {
            "et": "Pakett sisaldab juriidilise isiku andmete vaatamise, esitamise ja muutmise õigust.",
            "en": "The package contains the right to view, submit and change legal person's data.",
            "ru": "   ,     ."
          },
          "modified": "2022-10-18T11:00:00Z",
          "canSubDelegate": false,
          "representeeType": [
            "LEGAL_PERSON"
          ],
          "delegateType": [
            "NATURAL_PERSON"
          ],
          "assignableBy": [

          ]
        },
        {
          "code": "A-JI-V",
          "title": {
            "et": "Juriidilise isiku andmete vaataja pakett",
            "en": "Package for viewing the data of legal person",
            "ru": "     "
          },
          "description": {
            "et": "Pakett sisaldab juriidilise isiku andmete vaatamise õigust.",
            "en": "The package contains the right to view legal person's data.",
            "ru": "    ."
          },
          "modified": "2022-10-18T11:00:00Z",
          "canSubDelegate": false,
          "representeeType": [
            "LEGAL_PERSON"
          ],
          "delegateType": [
            "NATURAL_PERSON"
          ],
          "assignableBy": [

          ]
        },
        {
          "code": "HAMPI",
          "title": {
            "et": "„Hasartmängu mängimise piirangutega isikute nimekirja" vaatamine",
            "en": "View the List of Persons with Restrictions on Gambling (HAMPI)",
            "ru": " «  ,            »"
          },
          "description": null,
          "modified": "2022-10-18T11:00:00Z",
          "canSubDelegate": true,
```

```json
        "representeeType": [
          "LEGAL_PERSON"
        ],
        "delegateType": [
          "NATURAL_PERSON",
          "LEGAL_PERSON"
        ],
        "assignableBy": [
          "EMTA:A-JI"
        ]
      },
      {
        "code": "ADEK_CLIENT",
        "title": {
          "et": "Aktsiisideklaratsioonide haldamine (alates 01.02.2019)",
          "en": "Administering excise duty returns (from 01.02.2019)",
          "ru": "    (c 01.02.2019)"
        },
        "description": null,
        "modified": "2022-10-18T11:00:00Z",
        "canSubDelegate": true,
        "representeeType": [
          "LEGAL_PERSON"
        ],
        "delegateType": [
          "LEGAL_PERSON",
          "NATURAL_PERSON"
        ],
        "assignableBy": [
          "EMTA:A-JI"
        ]
      },
      {
        "code": "ECS_VOLITATUDEV_VALJUMINE",
        "title": {
          "et": "Ekspordikontrolli süsteemis (ECS, OMF) väljaveodeklaratsioonide haldamine
väljumistolliasutuses",
          "en": "Administering export declarations in the Export Control System (ECS, OMF) at a customs office
of exit",
          "ru": "         (ECS, OMF)     "
        },
        "description": null,
        "modified": "2023-01-18T11:00:00Z",
        "canSubDelegate": true,
        "representeeType": [
          "LEGAL_PERSON"
        ],
        "delegateType": [
          "LEGAL_PERSON",
          "NATURAL_PERSON"
        ],
        "assignableBy": [
          "EMTA:A-JI"
        ]
      }
    ]
  }
]
```

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

9.3 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-emta/v1/roles"
```

9.4. Response indicating there are no changes

HTTP status code 304