

Person API

Record of amendments

Date	Amended by	Amendment
23.2.2021	Marko Vähänen	Updated employment types (contract_type) to match currently used types. <ul style="list-style-type: none">Removed contract_types; 2 = leased employee / vuokratyöntekijä and 5 = voluntary work / talkootyö
28.10.2019	Jaro Lexmond	"Tax authority employee report data" endpoint: <ul style="list-style-type: none">Employee address data removed due to legislation changes coming in 1.1.2020
19.6.2019	Jaro Lexmond	Result field descriptions clarified More test data added: Persons <ul style="list-style-type: none">Massimo Molicarti<ul style="list-style-type: none">three active Valtti cards for same employer
17.12.2018	Jaro Lexmond	HTTP/403 error returned when querying personal data with a closed or expired card More test data added: Persons <ul style="list-style-type: none">Roberto Residenzemoni<ul style="list-style-type: none">multiple claimed residences (FI & IT)active and closed Valtti cardGianna Nonatione<ul style="list-style-type: none">no nationalities Companies <ul style="list-style-type: none">Pronto Costruzione<ul style="list-style-type: none">no contact person's details available
30.10.2018	Jaro Lexmond	"Tax authority employee report data" endpoint <ul style="list-style-type: none">employment specific residences and nationalities added Valtti UID identifiers added to test data list
17.5.2018	Jaro Lexmond	"Contact information of a person/employee" added "Tax authority employee report data" endpoint <ul style="list-style-type: none">search parameter mandatorities specified
17.4.2018	Jaro Lexmond	Competence data added to test data list
15.3.2018	Jaro Lexmond	"Tax authority employee report data" endpoint <ul style="list-style-type: none">card_barcode and card_uid added as possible search parameters Company data specified in test data list
16.10.2017	Jaro Lexmond	"Tax authority employee report data" endpoint <ul style="list-style-type: none">post code and post area added to address entitieserror code descriptions added

28.8.2017	Jaro Lexmond	"Tax authority employee report data" endpoint <ul style="list-style-type: none"> • response description added • example data changed to foreign based employee
25.5.2017	Jaro Lexmond	First version <ul style="list-style-type: none"> • "Tax authority employee report data" endpoint • test data list

Terminology

Qvarn

Restful HTTP API for querying and storing business data of Vastuu Group Oy.

Person API

Person API is a restful HTTP service built on top of the the Qvarn API for querying person related data from Vastuu Group Oy's database.

Authentication and authorization

The API follows Qvarn authentication and authorization. An OAuth 2.0 token with required scope is needed in order to access API endpoints. Token is obtained by making a token request to the authentication endpoint. OAuth 2.0 authentication specifics are not in the scope of this document. OAuth 2.0 **client_id** and **client_secret** (essentially username and password) are needed for the authentication. The account corresponding to the **client_id** needs to have permission to obtain tokens with the required scope. The token is passed in the Authorization HTTP header. Passing the token as a URI query parameter is currently not supported.

API endpoints

1. Tax authority employee report data for a person/employee

Required scope: *person_authority_reporting_get*

```
GET /persons/authority_report?country=<country_code>
```

Example request (with curl)

```
curl -X GET -H "id-type: tax_number" -H "id-country: fi" -H "id-value: 100060006001" -H "Authorization: Bearer <access_token>" https://personapi.beta.tilaajavastuu.fi/api/v1/persons/authority_report?country=FI -i
```

URL parameters

Parameter	Value (example)	Description
country*	FI	Country code that defines, according to which country's legislation requirements the employee data set is defined. Legislation requirements for employee reporting vary for different countries

*mandatory parameter

Header parameters

Parameter	Value (example)	Description
-----------	-----------------	-------------

id-type*	tax_number ssn card_uid card_barcode	type of the search key used
id-value*	100060006001	value of the search key used for identifying person
id-country*	FI	country code of the search key used to specify whether it's a Finnish or Swedish tax number / social security number <i>*not required when id-type is card_uid or card_barcode</i>

*mandatory parameter

Result JSON

```
{
  "names": [
    {
      "full_name": "Liiv Laimio",
      "given_names": [
        "Liiv"
      ],
      "surnames": [
        "Laimio"
      ],
      "titles": [

      ],
      "sort_key": "Laimio, Liiv"
    },
    {
      "full_name": "Liiv Laimio",
      "given_names": [
        "Liiv"
      ],
      "surnames": [
        "Laimio"
      ],
      "titles": [

      ],
      "sort_key": "Laimio, Liiv"
    }
  ],
  "date_of_birth": "1978-04-01",
  "gov_ids": [
    {
      "gov_id": "100060006022",
      "id_type": "tax_number",
      "country": "FI"
    }
  ],
  "nationalities": [
    "EE"
  ],
  "employers": [
    {
      "employers_contact_person": {
        "contact_phone": "+3740123456",
        "contact_last_name": "Raivaaja",
        "contact_first_name": "Raivo",
        "contact_email": "raivo@rr.fi"
      },
      "country": "EE",
      "address": {
        "address": [
          "Raivausgatu"
        ]
      }
    }
  ]
}
```

```

    ],
    "post_area": "Tallinn",
    "country": "EE",
    "full_address": "Raivausgatu, 10135 Tallinn",
    "post_code": "10135"
  },
  "employment_periods": [
    {
      "contract_type": 5,
      "nationalities": [
        "EE"
      ]
    },
    {
      "qvarn_id": "b2c5-c964cbbe117c1c89b2712a3545df8aa4-a57f9f73"
    }
  ],
  "gov_org_ids": [
    {
      "country": "EE",
      "gov_org_id": "87876554",
      "org_id_type": "registration_number"
    }
  ],
  "name": "Raivon Raivaus O\u00fcl",
  "qvarn_id": "f392-5bf9fa0963346d5385542dcf59886e7c-61eed74e"
},
{
  "employers_contact_person": {
    "contact_phone": "+35840123123",
    "contact_last_name": "Raksanen",
    "contact_first_name": "Reiska",
    "contact_email": "reiska@sr.fi"
  },
  "country": "FI",
  "address": {
    "address": [
      "Raksakatu 12"
    ],
    "post_area": "Helsinki",
    "country": "FI",
    "post_code": "00100"
  },
  "employment_periods": [
    {
      "contract_type": 1,
      "nationalities": [
        "EE"
      ]
    },
    {
      "qvarn_id": "b2c5-4e90c8daea5018362b0306295049f815-48cb79eb"
    }
  ],
  "gov_org_ids": [
    {
      "country": "FI",
      "gov_org_id": "6000000-2",
      "org_id_type": "registration_number"
    }
  ],
  "name": "Suomen Raksareiskat Oy",
  "qvarn_id": "f392-84601adfc4d643b31937e0202c8e9ed3-6dac5668"
}
],
"qvarn_id": "0035-8b1dbfefdl07cf4120d55793c8dd3ba8-58505f31"
}

```

Response description

- **qvarn_id***: person's unique identifier in Qvarn
- **names***: list of person's names
 - **full_name**: person's full name
 - **given_names**: person's first names as an array

- **surnames**: person's surnames as an array
- **titles**: person's titles
- **sort_key**: person's sort keys in Qvarn
- **date_of_birth***: person's date of birth in YYYY-MM-DD format.
- **nationalities**: person's nationalities in ISO-3166 alpha-2 format country code as an array
- **gov_ids***: list of person's government issued identifier
 - **gov_id**: person's government id value
 - **id_type**: type of the government id (currently only *tax_number* in use)
 - **country**: government id's issuer country's in ISO-3166 alpha-2 format country code
- **employers**: list of employers under which the person has an active employment
 - **qvarn_id**: employer's unique identifier in Qvarn
 - **name**: employer's name
 - **employers_contact_person**: employer's contact person's contact details
 - **contact_phone**: phone number of employer's contact person
 - **contact_last_name**: last name of employer's contact person
 - **contact_first_name**: first name of employer's contact person
 - **contact_email**: email address of employer's contact person
 - **country***: employer's home country in ISO-3166 alpha-2 format country code
 - **address**: employer's address details
 - **full_address***: street address, post area and post code as one string
 - **address**: street address lines as an array
 - **post_area**: post area/city of the address
 - **post_code**: post code of the address
 - **country***: country of the address in ISO-3166 alpha-2 format country code
 - **employment_periods***: person's employment's details (provided by employer representative, currently only one employment period entity found in response)
 - **contract_type***: type of contract of employment in tax authority's employee report format (1 = direct employment / työsuhteinen | 3 = independent contractor / ammatinharjoittaja tai vastaava | 4 = trainee work / harjoittelija)
 - **nationalities**: person's nationalities in ISO-3166 alpha-2 format country code as an array, claimed by employer
 - **qvarn_id***: employment contract's unique identifier in Qvarn
 - **gov_org_ids**:
 - **gov_org_id**: value of employer's organization identifier
 - **org_id_type**: organization identifier's type (*registration_number* | *vat_number*)
 - **country**: organization identifier's issuer country in ISO-3166 alpha-2 format country code

*mandatory field

2. Contact information of a person/employee

Required scope: *employee_contacts_get*

```
GET /employees/contacts
```

Example request (with curl)

```
curl -X GET -H "id-type: tax_number" -H "id-country: fi" -H "id-value: 100060006001" -H "org-id-type: registration_number" -H "org-id-country: FI" -H "org-id-value: 6000000-2" -H "Authorization: Bearer <access_token>" https://personapi.beta.tilaajavastuu.fi/api/v1/employees/contacts -i
```

Header parameters

Parameter	Value (example)	Description
id-type*	tax_number ssn card_uid card_barcode	type of the search key used for identifying person
id-value*	100060006001	value of the search key used for identifying person
id-country*	FI	country code of the search key used to specify whether it's a Finnish or Swedish tax number / social security number <i>*not required when id-type is card_uid or card_barcode</i>

org-id-type*	registration_number vat_number	type of the search key used for identifying employer company <i>*not required when id-type is card_uid or card_barcode</i>
org-id-country*	FI	country code of the search key used for identifying employer company <i>*not required when id-type is card_uid or card_barcode</i>
org-id-value*	6000000-2	value of the search key used for identifying employer company <i>*not required when id-type is card_uid or card_barcode</i>

Result JSON

```
{
  "names": [
    {
      "full_name": "Liiv Laimio",
      "surnames": [
        "Laimio"
      ],
      "titles": [
      ],
      "given_names": [
        "Liiv"
      ]
    }
  ],
  "phone_numbers": [
    {
      "phone_number": "+358401234567"
    }
  ],
  "addresses": [
    {
      "full_address": "Polkakatu\n02123 Varsova",
      "post_code": "02123",
      "country": "PL",
      "post_area": "Varsova",
      "address_lines": [
        "Polkakatu"
      ]
    }
  ],
  "email_addresses": [
    {
      "email_address": "liiv.laimio@rr.fi"
    }
  ],
  "qvarn_id": "0035-8b1dbfefbd107cf4120d55793c8dd3ba8-58505f31"
}
```

Response description

- **qvarn_id***: person's unique identifier in Qvarn
- **names***:
 - **full_name**: person's full name
 - **given_names**: person's first names as an array
 - **surnames**: person's surnames as an array
 - **titles**: person's titles
- **addresses***:
 - **full_address***: street address, post area and post code as one string
 - **address**: street address lines as an array
 - **post_area**: post area/city of the address
 - **post_code**: post code of the address
 - **country***: country of the address in ISO-3166 alpha-2 format country code

- **email_addresses***:
 - **email_address**:
- **phone_numbers***:
 - **phone_number**:

Errors

HTTP status code	Description
400	Malformed request (omitted or unknown idType or omitted or malformed idValue).
401	The requestor has not authenticated correctly.
403	Forbidden, the application cannot access Person resources. Card used for searching is closed or has expired.
404	No Person matching the idValue given as argument.
500	General response for failures to retrieve data internally or from Qvarn.

Test data

Persons

Kalle Kuljettaja, FI/100060006002, 210268-577A

- two current contracts (Suomen Raksareiskat Oy, contract_type=1 & Suomen Kuljettajat Oy, contract_type=1)
 - active Valtti card for Suomen Kuljettajat Oy (bar code 702225365136, UID 045332C2D93F80)
 - competences
 - Roof hot work permit (*validation_status = unknown*)
 - Torninosturin kuljettaja (*validation_status = unknown*)
 - active Valtti card for Suomen Raksareiskat Oy (bar code 368284752296, UID 045332C2D92F80)
- Finnish national

Reijo Raksamies, FI/100060006001, 100773-883D

- single current contract (Suomen Raksareiskat Oy, contract_type=1)
 - active Valtti card for Suomen Raksareiskat Oy (bar code 749805635410, UID 046F3C82473480)
 - competences
 - SFS5900 Hot Work Permit (*validation_status = valid*)
 - Occupational Safety Card (*validation_status = valid*)
 - SFS 6002 Safety at Electrical Work SÄTKY (*validation_status = valid*)
- Finnish national

Veijo Veteraani, FI/100060006003, 070345-653L

- no current contracts
- Finnish national

Timo Tapani Tuplakortti, FI/100060006003, 140675-763U

- single current contract (Suomen Raksareiskat Oy, contract_type=1)
 - two active Valtti cards for Suomen Raksareiskat Oy
 - bar code 720746399227, UID 04645D1AFC5780
 - bar code 872715990431, UID 04645D1AFC6780

Anders Andersson, FI/100060006011, 290577-445Y

- single current contract (Suomen Raksareiskat Oy, contract_type=1)
 - active Valtti card for Sivuliike Oü (bar code 804971735532, UID 046F6C82473480)
- Swedish national

Botilda Bamse, FI/100060006012, 110577-698H

- two current contracts (Suomen Raksareiskat Oy, contract_type=1 & Bosses Bygge Ab, contract_type=3)
- Swedish national

Calle Citron, FI/100060006013, 090971-629N

- two current contracts (Suomen Raksareiskat Oy, contract_type=1 & Bosses Bygge Ab, contract_type=4)
- Swedish national

Damien Double-Citizen, FI/100060006023, 120277-203S

- two current contracts (Suomen Raksareiskat Oy, contract_type=1 & Bob & The Builders, contract_type=5)
- Finnish and english national

Diana Diamond, FI/100060006014, 210569-350N

- two current contracts (Suomen Raksareiskat Oy, contract_type=1 & Raivon Raivaus Oü, contract_type=1)
- Finnish national

Gianna Nonatione FI/100060006024, 150688-0029

- single current contract (Pronto Costruzione, contract_type=1)
 - active Valtti card for Pronto Costruzione (bar code 433007558689, UID 045426C3496A80)
- no nationalities claimed

Janek Koppel FI/100060006015, 091180-727S

- single current contract (Sivuliike Oü, contract_type=1)
 - active Valtti card for Sivuliike Oü (bar code 270230583848, UID 046F3C82474480)
- Estonian national

Kalev Kalev, FI/100060006021, 200781-183B

- two current contracts (Suomen Raksareiskat Oy, contract_type=1 & Raivon Raivaus Oü, contract_type=3)
- Estonian national

Liiv Laimio, FI/100060006022, 010478-7506

- two current contracts (Suomen Raksareiskat Oy, contract_type=1 & Raivon Raivaus Oü, contract_type=5)
 - active Valtti Card for Raivon Raivaus Oü (bar code 201378075852, UID 046F3C82473380)
 - competences
 - Occupational Safety Card (*validation_status = valid*)
 - First Aid course EA1 (*validation_status = unknown*)
- estonian national

Massimo Molicarti, FI/100060006018, 200964-579B

- single current contract (Pronto Costruzione, contract_type=1)
 - three active Valtti cards for Pronto Costruzione
 - bar code 159290702676, UID 046526C3496A80
 - bar code 162871595044, UID 046626C3496A80
 - bar code 719919711829, UID 046726C3496A80
- Italian national

Roberto Residenzemoni, FI/100060006025, 230882-323V

- two current contracts (Suomen Raksareiskat Oy, contract_type=1 & Pronto Costruzione, contract_type=1)
 - closed Valtti Card for Pronto Costruzione (bar code 818299791518, UID 045426C2496A80)
 - active Valtti Card for Suomen Raksareiskat Oy (bar code 816613536856, UID 045436C2496A80)
- Finnish and Italian national

Tanel Tuplakaart

- single current contract (Raivon Raivaus Oü, contract_type=1)
 - two active Valtti cards for Raivon Raivaus Oü
 - bar code 287362616108, UID 04651B1AFC5780
 - bar code 945151290341, UID 04651C2AFC5780

Companies

Suomen Raksareiskat Oy

- Finnish registration_number 6000000-2

Suomen Kuljettajat Oy

- Finnish registration_number 6000001-0

Bosses Bygge

- Swedish registration_number 123412-5588

Raivon Raivaus

- Estonian registration_number 87876554

Sivuliike Oü

- Estonian registration_number 11122233
- Finnish registration_number 6000002-9

Pronto Costruzione

- Italian vat_number IT0011223344
- No contact person's details available