
crabpy_pyramid Documentation

Release 0.6.3

.

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Setup and configuration

Installing *crabpy_pyramid* is fairly straightforward, configuring it can be a bit more complicated. Fundamentally, *crabpy_pyramid* uses the *crabpy* library to offer users access to both the CRAB and the CAPAKEY webservice. It's possible to include none, one or both of the services.

To add *crabpy_pyramid* to you project, just include it.

```
config.include('crabpy_pyramid')
```

Out of the box, this will add the `crabpy.gateway.crab.CrabGateway` and the accompanying REST services. It will not add the `crabpy.gateway.capakey.CapakeyRestGateway` and it's accompanying services. If you want to use this service, you need to set the *crabpy.capakey.include* setting to *True*.

The default will also set a *crabpy.cache.file.root* parameter. This is the default location for writing `dogpile.cache` file caches. It exists to set a default that should work, but won't really help you very much. Please change it.

1.1 Settings

The following settings can be configured:

1.1.1 *crabpy.cache.file.root*

Location where `dogpile.cache` can create file caches. By default it's set to `/tmp/dogpile_data`. Should be changed for any setup that actually wants to use caching.

1.1.2 *crabpy.proxy.http*

Will be passed on to the Gateways, in case the services need to be called through a proxy.

1.1.3 crabpy.proxy.https

Will be passed on to the Gateways, in case the services need to be called through a proxy.

1.1.4 crabpy.crab.include

This setting controls whether the CRAB Gateway is configured or not. By default this is set to *True*.

1.1.5 crabpy.crab.cache_config

This controls the caching settings for the CRAB Gateway. It's actually a prefix for a number of settings, which are all passed on to the CRAB Gateway.

1.1.6 crabpy.capakey.include

This setting controls whether the CAPAKEY Gateway is configured or not. By default this is set to *False*. If you set this to *True*.

1.1.7 crabpy.capakey.cache_config

This controls the caching settings for the CAPAKEY Gateway. It's actually a prefix for a number of settings, which are all passed on to the CAPAKEY Gateway.

CHAPTER 2

Services

Crabpy_pyramid exposes the following services if both *crabpy.capakey.include* and *crabpy.crab.include* are set to *True*.

2.1 Capakey

GET /capakey/gemeenten

List all gemeenten

Example request:

```
GET /capakey/gemeenten HTTP/1.1
Host: example.onroerenderfgoed.be
Accept: application/json
Range: items=0-4
```

Example response:

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Range: 0-4/306

[
  {
    'id': 44001,
    'naam': 'Aalter'
  }, {
    'id': 44011,
    'naam': 'Deinze'
  }, {
    'id': 44012,
    'naam': 'De Pinte'
  }, {
```

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```
'id': 44013,
'naam': 'Destelbergen'
}, {
'id': 4401,
'naam': 'Gent',
}
]
```

Request Headers

- **Range** – Can be used to ask for a certain set of results, eg. `items=0-24` asks for the first 25 items.

Response Headers

- **Content-Range** – Tells the client what range of results is being returned, eg. `items=0-24/306` for the first 25 items out of 306.

Status Codes

- **200 OK** – Gemeenten were found.

GET `/capakey/gemeenten/` (`int: gemeente_id`)

Get a gemeente by id

Example request:

```
GET /capakey/gemeenten/44021 HTTP/1.1
Host: example.onroerenderfgoed.be
Accept: application/json
```

Example response:

```
HTTP/1.1 200 OK
Content-Type: application/json

{
  'id': 44021,
  'naam': 'Gent',
  'centroid': [104154.2225, 197300.703],
  'bbox': [94653.453, 185680.984, 113654.992, 208920.422]
}
```

Status Codes

- **200 OK** – Gemeente was found.
- **404 Not Found** – Gemeente was not found.

GET `/capakey/gemeenten/` (`int: gemeente_id`) `/afdelingen`

List_kadastrale_afdelingen_by_gemeente

Example request:

```
GET /capakey/gemeenten/44021/afdelingen HTTP/1.1
Host: example.onroerenderfgoed.be
Accept: application/json
Range: 0-1
```


Example response:

```

HTTP/1.1 200 OK
Content-Type: application/json
Content-Range: 0-1/30

[
  {
    'id': 44002,
    'naam': 'Afsnee',
    'gemeente': {
      'id': 44021,
      'naam': 'Gent'
    }
  }, {
    'id': 44017,
    'naam': 'Drongen',
    'gemeente': {
      'id': 44021,
      'naam': 'Gent'
    }
  }
]

```

Request Headers

- **Range** – Can be used to ask for a certain set of results, eg. `items=0-24` asks for the first 25 items.

Response Headers

- **Content-Range** – Tells the client what range of results is being returned, eg. `items=0-9/30` for the first 10 items out of 30.

Status Codes

- **200 OK** – Gemeente was found.
- **404 Not Found** – Gemeente was not found.

GET /capakey/afdelingen

List_kadastrale_afdelingen

Example request:

```

GET /capakey/afdelingen HTTP/1.1
Host: example.onroerenderfgoed.be
Accept: application/json
Range: 0-1

```

Example response:

```

HTTP/1.1 200 OK
Content-Type: application/json
Content-Range: 0-1/1433

[
  {
    "id": 44002,

```

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```
        "naam": "Afsnee",
        "gemeente": {
            "id": 44021,
            "naam": "Gent"
        }
    }, {
        "id": 44017,
        "naam": "Drongen",
        "gemeente": {
            "id": 44021,
            "naam": "Gent"
        }
    }
}
```

Request Headers

- **Range** – Can be used to ask for a certain set of results, eg. `items=0-24` asks for the first 25 items.

Response Headers

- **Content-Range** – Tells the client what range of results is being returned, eg. `items=0-99/1433` for the first 100 items out of 1433.

Status Codes

- **200 OK** – Afdelingen were found.

GET `/capakey/afdelingen/` (`int: afdeling_id`)
Get_kadastrale_afdeling_by_id

Example request:

```
GET /capakey/afdelingen/44017 HTTP/1.1
Host: example.onroenderfgoed.be
Accept: application/json
```

Example response:

```
HTTP/1.1 200 OK
Content-Type: application/json

{
    "id": 44017,
    "naam": "Drongen",
    "gemeente": {
        "id": 44021,
        "naam": "Gent"
    },
    "centroid": [104154.2225, 197300.703],
    "bbox": [94653.453, 185680.984, 113654.992, 208920.422]
}
```

Status Codes

- **200 OK** – Afdeling was found.
- **404 Not Found** – Afdeling was not found.

GET /capakey/afdelingen/(int: *afdeling_id*)/secties
List_secties_by_afdeling

Example request:

```
GET /capakey/afdelingen/44017/secties HTTP/1.1
Host: example.onroenderfgoed.be
Accept: application/json
```

Example response:

```
HTTP/1.1 200 OK
Content-Type: application/json

[
  {
    "afdeling": {
      "naam": "GENT 27 AFD/DRONGEN 1 AFD/",
      "id": 44017,
      "gemeente": {
        "naam": "Gent",
        "id": 44021
      }
    },
    "id": "A"
  },
  {
    "afdeling": {
      "naam": "GENT 27 AFD/DRONGEN 1 AFD/",
      "id": 44017,
      "gemeente": {
        "naam": "Gent",
        "id": 44021
      }
    },
    "id": "B"
  },
  {
    "afdeling": {
      "naam": "GENT 27 AFD/DRONGEN 1 AFD/",
      "id": 44017,
      "gemeente": {
        "naam": "Gent",
        "id": 44021
      }
    },
    "id": "C"
  },
  {
    "afdeling": {
      "naam": "GENT 27 AFD/DRONGEN 1 AFD/",
      "id": 44017,
      "gemeente": {
        "naam": "Gent",
        "id": 44021
      }
    },
    "id": "D"
  }
]
```

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```
}  
]
```

Status Codes

- 200 OK – Afdeling was found.
- 404 Not Found – Afdeling was not found.

GET /capakey/afdelingen/ (int: *afdeling_id*) /secties/
string: *sectie_id* Get_sectie_by_id_and_afdeling

Example request:

```
GET /capakey/afdelingen/44017/secties/A HTTP/1.1  
Host: example.onroenderfgoed.be  
Accept: application/json
```

Example response:

```
HTTP/1.1 200 OK  
Content-Type: application/json  
  
{  
  "afdeling": {  
    "naam": "GENT 27 AFD/DRONGEN 1 AFD/",  
    "bounding_box": [  
      94653.7508750036,  
      190442.133125,  
      101151.588,  
      197371.0951875  
    ],  
    "centroid": [  
      97902.6694375016,  
      193906.61415625  
    ],  
    "id": 44017,  
    "gemeente": {  
      "naam": "Gent",  
      "bounding_box": [  
        94653.4530000016,  
        185680.984000001,  
        113654.9919999999,  
        208920.4219999998  
      ],  
      "centroid": [  
        104154.2225,  
        197300.703  
      ],  
      "id": 44021  
    }  
  },  
  "bounding_box": [  
    96205.7660000026,  
    194208.691374999,  
    101032.139624998,  
    197371.0951875  
  ]  
}
```

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```

],
"centroid": [
  98618.9528125003,
  195789.893281249
],
"id": "A"
}

```

Status Codes

- 200 OK – Sectie was found.
- 404 Not Found – Sectie was not found.

GET /capakey/afdelingen/ (int: *afdeling_id*) /secties/
 string: *sectie_id/percelen* List_percelen_by_sectie

Example request:

```

GET /capakey/afdelingen/44017/secties/A/percelen HTTP/1.1
Host: example.onroenderfgoed.be
Accept: application/json
Range: 0-4

```

Example response:

```

HTTP/1.1 200 OK
Content-Type: application/json

[
  {
    "capakey": "44017A0003/00C000",
    "id": "0003/00C000",
    "percid": "44017_A_0003_C_000_00",
    "sectie": {
      "afdeling": {
        "naam": "GENT 27 AFD/DRONGEN 1 AFD/",
        "id": 44017,
        "gemeente": {
          "naam": "Gent",
          "id": 44021
        }
      },
      "id": "A"
    }
  },
  {
    "capakey": "44017A0004/00D000",
    "id": "0004/00D000",
    "percid": "44017_A_0004_D_000_00",
    "sectie": {
      "afdeling": {
        "naam": "GENT 27 AFD/DRONGEN 1 AFD/",
        "id": 44017,
        "gemeente": {
          "naam": "Gent",
          "id": 44021
        }
      }
    }
  }
]

```

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```

    }
  },
  "id": "A"
}
},
{
  "capakey": "44017A0004/00F000",
  "id": "0004/00F000",
  "percid": "44017_A_0004_F_000_00",
  "sectie": {
    "afdeling": {
      "naam": "GENT 27 AFD/DRONGEN 1 AFD/",
      "id": 44017,
      "gemeente": {
        "naam": "Gent",
        "id": 44021
      }
    }
  },
  "id": "A"
}
},
{
  "capakey": "44017A0004/00G000",
  "id": "0004/00G000",
  "percid": "44017_A_0004_G_000_00",
  "sectie": {
    "afdeling": {
      "naam": "GENT 27 AFD/DRONGEN 1 AFD/",
      "id": 44017,
      "gemeente": {
        "naam": "Gent",
        "id": 44021
      }
    }
  },
  "id": "A"
}
},
{
  "capakey": "44017A0006/00A000",
  "id": "0006/00A000",
  "percid": "44017_A_0006_A_000_00",
  "sectie": {
    "afdeling": {
      "naam": "GENT 27 AFD/DRONGEN 1 AFD/",
      "id": 44017,
      "gemeente": {
        "naam": "Gent",
        "id": 44021
      }
    }
  },
  "id": "A"
}
}
]

```

Request Headers

- **Range** – Can be used to ask for a certain set of results, eg. `items=0-5` asks for the first 6 items.

Response Headers

- **Content-Range** – Tells the client what range of results is being returned, eg. `items=0-5/145` for the first 6 items out of 145.

Status Codes

- **200 OK** – Sectie was found.
- **404 Not Found** – Sectie was not found.

GET `/capakey/afdelingen/(int: afdeling_id)/secties/string: sectie_id/percelen/int: perceel_id` Get_perceel_by_sectie_and_id

Example request:

```
GET /capakey/afdelingen/44017/secties/A/percelen/452 HTTP/1.1
Host: example.onroerenderfgoed.be
Accept: application/json
```

Example response:

```
HTTP/1.1 200 OK
Content-Type: application/json

{
  "percid": "44017_A_0003_C_000_00",
  "sectie": {
    "afdeling": {
      "naam": "GENT 27 AFD/DRONGEN 1 AFD/",
      "id": 44017,
      "gemeente": {
        "naam": "Gent",
        "id": 44021
      }
    },
    "id": "A"
  },
  "capakey": "44017A0003/00C000",
  "bounding_box": [
    98798.1679999977,
    197135.57,
    98989.2730000019,
    197356.498
  ],
  "centroid": [
    98893.7204999998,
    197246.034
  ],
  "id": "0003/00C000"
}
```

Status Codes

- **200 OK** – Perceel was found.
- **404 Not Found** – Perceel was not found.

GET /capakey/percelen/ (string: *capakey1*) /
string: *capakey2* Get Perceel_by_capakey

Example request:

```
GET /capakey/percelen/44021A3675/00A000 HTTP/1.1
Host: example.onroerenderfgoed.be
Accept: application/json
```

Example response:

```
HTTP/1.1 200 OK
Content-Type: application/json

{
  "percid": "44021_A_3675_A_000_00",
  "sectie": {
    "afdeling": {
      "naam": "GENT 1 AFD",
      "bounding_box": [
        104002.076624997,
        194168.341499999,
        105784.050875001,
        197876.1466875
      ],
      "centroid": [
        104893.063749999,
        196022.24409375
      ],
      "id": 44021,
      "gemeente": {
        "naam": "Gent",
        "bounding_box": [
          94653.4530000016,
          185680.984000001,
          113654.991999999,
          208920.421999998
        ],
        "centroid": [
          104154.2225,
          197300.703
        ],
        "id": 44021
      }
    },
    "bounding_box": [
      104002.076624997,
      194168.341499999,
      105784.050875001,
      197876.1466875
    ],
    "centroid": [
      104893.063749999,
      196022.24409375
    ],
    "id": "A"
  },
  "capakey": "44021A3675/00A000",
```

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```

"bounding_box": [
    105182.6489999996,
    197425.7419999999,
    105199.1990000001,
    197454.0619999999
],
"centroid": [
    105190.9239999999,
    197439.9019999999
],
"id": "3675/00A000"
}

```

Status Codes

- 200 OK – Perceel was found.
- 404 Not Found – Perceel was not found.

GET /capakey/percelen/ (string: *percid*)

Get_perceel_by_percid

Example request:

```

GET /capakey/percelen/44017_A_0004_D_000_00 HTTP/1.1
Host: example.onroerenderfgoed.be
Accept: application/json

```

Example response:

```

HTTP/1.1 200 OK
Content-Type: application/json

{
  "percid": "44017_A_0004_D_000_00",
  "sectie": {
    "afdeling": {
      "naam": "GENT 27 AFD/DRONGEN 1 AFD/",
      "bounding_box": [
        94653.7508750036,
        190442.133125,
        101151.588,
        197371.0951875
      ],
      "centroid": [
        97902.6694375016,
        193906.61415625
      ],
      "id": 44017,
      "gemeente": {
        "naam": "Gent",
        "bounding_box": [
          94653.45300000016,
          185680.9840000001,
          113654.9919999999,
          208920.4219999998
        ]
      }
    }
  }
}

```

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```
    ],
    "centroid": [
        104154.2225,
        197300.703
    ],
    "id": 44021
},
{
    "bounding_box": [
        96205.7660000026,
        194208.691374999,
        101032.139624998,
        197371.0951875
    ],
    "centroid": [
        98618.9528125003,
        195789.893281249
    ],
    "id": "A"
},
{
    "capakey": "44017A0004/00D000",
    "bounding_box": [
        98800.686999999,
        197101.388,
        98857.4720000029,
        197133.022
    ],
    "centroid": [
        98829.0795000009,
        197117.205
    ],
    "id": "0004/00D000"
}
```

Status Codes

- 200 OK – Perceel was found.
- 404 Not Found – Perceel was not found.

2.2 Crab

GET /crab/gewesten

List_gewesten

Example request:

```
GET /crab/gewesten HTTP/1.1
Host: example.onroenderfgoed.be
Accept: application/json
```

Example response:

```
HTTP/1.1 200 OK
Content-Type: application/json
```

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```
[
  {
    "naam": "Brussels Hoofdstedelijk Gewest",
    "id": 1
  }, {
    "naam": "Vlaams Gewest",
    "id": 2
  }, {
    "naam": "Waals Gewest",
    "id": 3
  }
]
```

Status Codes

- 200 OK – Gewesten were found.

GET /crab/gewesten/(int: gewest_id)
Get_gewest_by_id

Example request:

```
GET /crab/gewesten/2 HTTP/1.1
Host: example.onroenderfgoed.be
Accept: application/json
```

Example response:

```
HTTP/1.1 200 OK
Content-Type: application/json

{
  "namen": {
    "fr": "Région flamande",
    "de": "Die Flämische Region",
    "nl": "Vlaams Gewest"
  },
  "bounding_box": [
    22279.17,
    153050.23,
    258873.3,
    244022.31
  ],
  "centroid": [
    138165.09,
    189297.53
  ],
  "id": 2
}
```

Status Codes

- 200 OK – Gewest was found.
- 404 Not Found – Gewest was not found.

GET /crab/gewesten/(int: *gewest_id*)/provincies
Retrieve alle provincies in a gewest.

Example request:

```
GET /crab/gewesten/2/provincies HTTP/1.1
Host: example.onroenderfgoed.be
Accept: application/json
```

Example response:

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Range: items 0-4/5

[
  {
    "naam": "Antwerpen",
    "gewest": {"naam": "Vlaams Gewest", "id": 2},
    "niscode": 10000
  }, {
    "naam": "Vlaams-Brabant",
    "gewest": {"naam": "Vlaams Gewest", "id": 2},
    "niscode": 20001
  }, {
    "naam": "West-Vlaanderen",
    "gewest": {"naam": "Vlaams Gewest", "id": 2},
    "niscode": 30000
  }, {
    "naam": "Oost-Vlaanderen",
    "gewest": {"naam": "Vlaams Gewest", "id": 2},
    "niscode": 40000
  }, {
    "naam": "Limburg",
    "gewest": {"naam": "Vlaams Gewest", "id": 2},
    "niscode": 70000
  }
]
```

Status Codes

- 200 OK – Gewest was found.
- 404 Not Found – Gewest does not exist.

GET /crab/provincies/(int: *provincie_id*)
Get information about a certain provincie.

Example request:

```
GET /crab/provincies/30000 HTTP/1.1
Host: example.onroenderfgoed.be
Accept: application/json
```

Example response:

```
HTTP/1.1 200 OK
Content-Type: application/json
```

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```
{
  "naam": "West-Vlaanderen",
  "gewest": {"naam": "Vlaams Gewest", "id": 2},
  "niscode": 30000
}
```

Status Codes

- 200 OK – Provincie was found.
- 404 Not Found – Provincie was not found.

GET /crab/gewesten/(int: gewest_id)/gemeenten
List all gemeenten in a certain gewest.

Example request:

```
GET /crab/gewesten/2/gemeenten HTTP/1.1
Host: example.onroenderfgoed.be
Accept: application/json
Range: items=0-4
```

Example response:

```
HTTP/1.1 200 OK
Content-Type: application/json

[
  {
    "naam": "Aartselaar",
    "id": 1
  },
  {
    "naam": "Antwerpen",
    "id": 2
  },
  {
    "naam": "Boechout",
    "id": 3
  },
  {
    "naam": "Boom",
    "id": 4
  },
  {
    "naam": "Borsbeek",
    "id": 5
  }
]
```

Query Parameters

- **sort** – One of id, naam or niscode (default).

Status Codes

- 200 OK – Gemeenten were found.
- 404 Not Found – Gewest does not exist.

GET /crab/provincies/(int: *provincie_id*)/gemeenten
List all gemeenten in a certain provincie.

Example request:

```
GET /crab/provincies/30000/gemeenten HTTP/1.1
Host: example.onroenderfgoed.be
Accept: application/json
```

Example response:

```
HTTP/1.1 200 OK
Content-Type: application/json

[
  {
    "naam": "Beernem",
    "id": 182
  },
  {
    "naam": "Blankenberge",
    "id": 183
  },
  {
    "naam": "Brugge",
    "id": 184
  },
  {
    "naam": "Damme",
    "id": 185
  },
  {
    "naam": "Jabbeke",
    "id": 186
  }
]
```

Status Codes

- 200 OK – Gemeenten were found.
- 404 Not Found – Provincie does not exist.

GET /crab/gemeenten/(int:id of int:niscode)
Get_gemeente_by_id

Example request:

```
GET /crab/gemeenten/1 HTTP/1.1
Host: example.onroenderfgoed.be
Accept: application/json
```

Get_gemeente_by_niscode

Example request:

```
GET /crab/gemeenten/11001 HTTP/1.1
Host: example.onroenderfgoed.be
Accept: application/json
```

Example response:

```
HTTP/1.1 200 OK
Content-Type: application/json

{
  "naam": "Aartselaar",
  "bounding_box": [
    148950.36,
    199938.28,
    152811.77,
    204575.39
  ],
  "centroid": [
    150881.07,
    202256.84
  ],
  "id": 1,
  "metadata": {
    "begin_tijd": "2002-08-13 17:32:32",
    "begin_datum": "1830-01-01 00:00:00",
    "begin_organisatie": {
      "naam": "NGI",
      "definitie": "Nationaal Geografisch Instituut.",
      "id": "6"
    },
    "begin_bewerking": {
      "naam": "invoer",
      "definitie": "Invoer in de databank.",
      "id": "1"
    }
  }
}
```

Status Codes

- 200 OK – Gemeente was found.
- 404 Not Found – Gemeente was not found.

GET /crab/gewesten/(int: *gewest_id*)/deelgemeenten
List all deelgemeenten in a certain gewest.

Example request:

```
GET /crab/gewesten/2/deelgemeenten HTTP/1.1
Host: example.onroenderfgoed.be
Accept: application/json
Range: items=0-4
```

Example response:

```
HTTP/1.1 200 OK
Content-Type: application/json

[
  {
    "naam": "Sint-Joris-Winge",
    "id": "24135C"
  }, {
    "naam": "Meensel-Kiezegem",
    "id": "24135B"
  }, {
    "naam": "Tielt",
    "id": "24135A"
  }, {
    "naam": "Ertvelde",
    "id": "44019C"
  }, {
    "naam": "Kluizen",
    "id": "44019D"
  }
]
```

Status Codes

- 200 OK – Deelgemeenten were found.
- 404 Not Found – Gewest does not exist.

GET /crab/gemeenten/(int:gemeente_id or int:niscode)/deelgemeenten
List all *deelgemeenten* in a certain *gemeente*.

Example request:

```
GET /crab/gemeenten/90/deelgemeenten HTTP/1.1
Host: example.onroenderfgoed.be
Accept: application/json
```

Example request:

```
GET /crab/gemeenten/11002/deelgemeenten HTTP/1.1
Host: example.onroenderfgoed.be
Accept: application/json
```

Example response:

```
HTTP/1.1 200 OK
Content-Type: application/json

[
  {"naam": "Asse", "id": "23002A"},
  {"naam": "Kobbegem", "id": "23002C"},
  {"naam": "Mollem", "id": "23002B"},
  {"naam": "Zellik", "id": "23002E"},
  {"naam": "Relegem", "id": "23002D"},
  {"naam": "Bekkerzeel", "id": "23002F"}
]
```

Status Codes

- **200 OK** – Deelgemeenten were found.
- **404 Not Found** – The Gemeente for which you are requesting Deelgemeenten does not exist.

GET /crab/deelgemeenten/ (string: *deelgemeente_id*)

Get all information on a certain *deelgemeente*.

Example request:

```
GET /crab/deelgemeenten/45062 HTTP/1.1
Host: example.onroenderfgoed.be
Accept: application/json
```

Example response:

```
HTTP/1.1 200 OK
Content-Type: application/json
{
  "naam": "Sint-Maria-Horebeke",
  "id": "45062A",
  "gemeente": {
    "id": 300,
    "naam": "Horebeke"
  }
}
```

Status Codes

- **200 OK** – Deelgemeente was found.
- **404 Not Found** – The Deelgemeente does not exist.

GET /crab/gemeenten/ (int: *gemeente_id*) /postkantons

List all *postkantons* in a certain *gemeente*.

Example request:

```
GET /crab/gemeenten/90/postkantons HTTP/1.1
Host: example.onroenderfgoed.be
Accept: application/json
```

Example response:

```
HTTP/1.1 200 OK
Content-Type: application/json
[
  {"id": 1730},
  {"id": 1731}
]
```

Status Codes

- **200 OK** – Postkantons were found.
- **404 Not Found** – The Gemeente for which you are requesting Postkantons does not exist.

GET /crab/gemeenten/ (int:id of int:niscode) /straten

List all straten in a *gemeente*.

Example request:

```
GET /crab/gemeenten/11001/straten HTTP/1.1
Host: example.onroerenderfgoed.be
Accept: application/json
Range: items=0-4
```

Example response:

```
HTTP/1.1 200 OK
Content-Type: application/json

[
  {
    "status": {
      "naam": "inGebruik",
      "definitie": null,
      "id": "3"
    },
    "id": 1,
    "label": "Acacialaan"
  },
  {
    "status": {
      "naam": "inGebruik",
      "definitie": null,
      "id": "3"
    },
    "id": 2,
    "label": "Adriaan Sanderslei"
  },
  {
    "status": {
      "naam": "inGebruik",
      "definitie": null,
      "id": "3"
    },
    "id": 3,
    "label": "Ahornelaan"
  },
  {
    "status": {
      "naam": "inGebruik",
      "definitie": null,
      "id": "3"
    },
    "id": 4,
    "label": "Antoon van Brabantstraat"
  },
  {
    "status": {
      "naam": "inGebruik",
      "definitie": null,
      "id": "3"
    },
    "id": 5,
    "label": "Antwerpsesteenweg"
  }
]
```

Status Codes

- 200 OK – Straat was found.

GET `/crab/straten/` (`int: straat_id`)
Get information on a *straat*, based on the *ID*.

Example request:

```
GET /crab/straten/1 HTTP/1.1
Host: example.onroenderfgoed.be
Accept: application/json
```

Example response:

```
HTTP/1.1 200 OK
Content-Type: application/json

{
  "status": {
    "naam": "inGebruik",
    "definitie": null,
    "id": "3"
  },
  "namen": [
    [
      "Acacialaan",
      "nl"
    ],
    [
      null,
      null
    ]
  ],
  "taal": {
    "naam": "Nederlands",
    "definitie": "Nederlands.",
    "id": "nl"
  },
  "label": "Acacialaan",
  "bounding_box": [
    "150339.255243488",
    "200079.666892901",
    "150812.200907812",
    "201166.401677653"
  ],
  "id": 1,
  "metadata": {
    "begin_tijd": "2013-04-12 20:07:25.960000",
    "begin_datum": "1830-01-01 00:00:00",
    "begin_organisatie": {
      "naam": "gemeente",
      "definitie": "Gemeente.",
      "id": "1"
    },
    "begin_bewerking": {
      "naam": "correctie",
      "definitie": "Correctie van de attributen.",
```

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```
    "id": "3"
  }
}
```

Status Codes

- 200 OK – Straat was found.
- 404 Not Found – Straat was not found.

GET /crab/straten/(int: *straat_id*)/huisnummers
List all huisnummers in a *straat*.

Example request:

```
GET /crab/straten/1/huisnummers HTTP/1.1
Host: example.onroenderfgoed.be
Accept: application/json
Range: items=0-4
```

Example response:

```
HTTP/1.1 200 OK
Content-Type: application/json

[
  {
    "status": {
      "naam": "inGebruik",
      "definitie": null,
      "id": "3"
    },
    "id": 78036,
    "label": "21"
  },
  {
    "status": {
      "naam": "inGebruik",
      "definitie": null,
      "id": "3"
    },
    "id": 153134,
    "label": "4"
  },
  {
    "status": {
      "naam": "inGebruik",
      "definitie": null,
      "id": "3"
    },
    "id": 221505,
    "label": "11"
  },
  {
    "status": {
      "naam": "inGebruik",
```

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```

        "definitie": null,
        "id": "3"
    },
    "id": 379090,
    "label": "23"
},
{
    "status": {
        "naam": "inGebruik",
        "definitie": null,
        "id": "3"
    },
    "id": 526418,
    "label": "13"
}
]

```

Status Codes

- 200 OK – Huisnummers were found.

GET /crab/straten/ (int: *straat_id*) /huisnummers/
 string: *huisnummer_label* Get more information on a huisnummer by it's straat_id and it's huisnummer.

Example request:

```

GET /crab/straten/1/huisnummers/23 HTTP/1.1
Host: example.onroenderfgoed.be
Accept: application/json

```

Example response:

```

HTTP/1.1 200 OK
Content-Type: application/json

{
  "status": {
    "naam": "inGebruik",
    "definitie": null,
    "id": "3"
  },
  "bounding_box": [
    150786.11,
    200189.33,
    150786.11,
    200189.33
  ],
  "postadres": "Acacialaan 23, 2630 Aartselaar",
  "huisnummer": "23",
  "id": 379090,
  "metadata": {
    "begin_tijd": "2013-04-12 20:06:33.720000",
    "begin_datum": "1830-01-01 00:00:00",
    "begin_organisatie": {
      "naam": "gemeente",
      "definitie": "Gemeente.",
    }
  }
}

```

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```
    "id": "1"
  },
  "begin_bewerking": {
    "naam": "correctie",
    "definitie": "Correctie van de attributen.",
    "id": "3"
  }
}
```

Status Codes

- 200 OK – Huisnummer was found.
- 404 Not Found – Huisnummer was not found.

GET /crab/huisnummers/ (int: *huisnummer_id*)
Get more information on a huisnummer, based on an *ID*.

Example request:

```
GET /crab/huisnummers/1 HTTP/1.1
Host: example.onroenderfgoed.be
Accept: application/json
```

Example response:

```
HTTP/1.1 200 OK
Content-Type: application/json

{
  "status": {
    "naam": "inGebruik",
    "definitie": null,
    "id": "3"
  },
  "bounding_box": [
    190700.24,
    224649.87,
    190700.24,
    224649.87
  ],
  "huisnummer": "51",
  "postadres": "Steenweg op Oosthoven 51, 2300 Turnhout",
  "id": 1,
  "metadata": {
    "begin_tijd": "2014-03-19 17:00:27",
    "begin_datum": "1830-01-01 00:00:00",
    "begin_organisatie": {
      "naam": "gemeente",
      "definitie": "Gemeente.",
      "id": "1"
    },
    "begin_bewerking": {
      "naam": "correctie",
      "definitie": "Correctie van de attributen.",
      "id": "3"
    }
  }
}
```

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```

    }
  }
}
```

Status Codes

- 200 OK – Huisnummer was found.
- 404 Not Found – Huisnummer was not found.

GET /crab/huisnummers/ (int: *huisnummer_id*) /percelen
List all *percelen* linked to a certain *huisnummer*.

Example request:

```
GET /crab/huisnummers/1/percelen HTTP/1.1
Host: example.onroerenderfgoed.be
Accept: application/json
```

Example response:

```
HTTP/1.1 200 OK
Content-Type: application/json

[
  {
    "id": "13040C1747/00G002"
  }
]
```

Status Codes

- 200 OK – Percelen were found.

GET /crab/percelen/ (string: *perceel_id1*) /
string: *perceel_id2* Get a perceel by it's id.

Example request:

```
GET /crab/percelen/13040C1747/00G002 HTTP/1.1
Host: example.onroerenderfgoed.be
Accept: application/json
```

Example response:

```
HTTP/1.1 200 OK
Content-Type: application/json

{
  "centroid": [
    190708.59,
    224667.59
  ],
  "id": "13040C1747/00G002",
  "postadressen": [
    "Steenweg op Oosthoven 51, 2300 Turnhout",
    "Steenweg op Oosthoven 53, 2300 Turnhout"
  ]
}
```

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```
  ],
  "metadata": {
    "begin_tijd": "2009-09-11 12:46:55.693000",
    "begin_datum": "1998-01-01 00:00:00",
    "begin_organisatie": {
      "naam": "AAPD",
      "definitie": "Algemene Administratie der Patrimoniumdocumentatie.",
      "id": "3"
    },
    "begin_bewerking": {
      "naam": "correctie",
      "definitie": "Correctie van de attributen.",
      "id": "3"
    }
  }
}
```

Status Codes

- 200 OK – Perceel was found.
- 404 Not Found – Perceel was not found.

GET /crab/percelen/(string: *perceel_id1*) /
string: *perceel_id2/huisnummers* Get the huisnummers linked to a perceel.

Example request:

```
GET /crab/percelen/13040C1747/00G002 HTTP/1.1
Host: example.onroerenderfgoed.be
Accept: application/json
```

Example response:

```
HTTP/1.1 200 OK
Content-Type: application/json

[
  {
    "status": {"naam": "inGebruik", "definitie": null, "id": "3"},
    "id": 1,
    "label": "51"
  }, {
    "status": {"naam": "buitenGebruik", "definitie": null, "id": "4"},
    "id": 2021223,
    "label": "53"
  }
]
```

Status Codes

- 200 OK – Huisnummers were found.
- 404 Not Found – Perceel was not found.

GET /crab/huisnummers/(int: *huisnummer_id*) /gebouwen
List all gebouwen associated with a certain huisnummer.

Example request:

```
GET /crab/huisnummer/1/gebouwen HTTP/1.1
Host: example.onroenderfgoed.be
Accept: application/json
```

Example response:

```
HTTP/1.1 200 OK
Content-Type: application/json

[
  {
    "status": {
      "naam": "inGebruik",
      "definitie": null,
      "id": "4"
    },
    "aard": {
      "naam": "hoofdgebouw",
      "definitie": "hoofdgebouw volgens het GRB",
      "id": "1"
    },
    "id": 1538575
  }
]
```

Status Codes

- 200 OK – Gebouwen were found.

GET /crab/gebouwen/(int: *gebouw_id*)
Get a Gebouw by it's id.

Example request:

```
GET /crab/gebouwen/1 HTTP/1.1
Host: example.onroenderfgoed.be
Accept: application/json
```

Example response:

```
HTTP/1.1 200 OK
Content-Type: application/json

{
  "status": {
    "naam": "inGebruik",
    "definitie": null,
    "id": "4"
  },
  "aard": {
    "naam": "hoofdgebouw",
    "definitie": "hoofdgebouw volgens het GRB",
    "id": "1"
  },
  "geometriemethode": {
    "naam": "grb",
```

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```

    "definitie": null,
    "id": "3"
  },
  "geometrie": "POLYGON ((205574.52184166759 176477.42431658879, 205579.
↪1574896723 176476.68550058827, 205578.6424176693 176472.64633258432, 205588.
↪81227367371 176471.11494058371, 205589.80452967435 176478.83282858878, 205587.
↪36587367207 176479.30028459057, 205588.38680167496 176487.107260596, 205576.
↪12900967151 176488.87878059596, 205574.52184166759 176477.42431658879))",
  "id": 1,
  "metadata": {
    "begin_tijd": "2011-04-29 13:11:28.540000",
    "begin_datum": "1830-01-01 00:00:00",
    "begin_organisatie": {
      "naam": "AGIV",
      "definitie": "Agentschap voor Geografische Informatie Vlaanderen.",
      "id": "5"
    },
    "begin_bewerking": {
      "naam": "invoer",
      "definitie": "Invoer in de databank.",
      "id": "1"
    }
  }
}

```

Status Codes

- 200 OK – Gebouw was found.
- 404 Not Found – Gebouw was not found.

GET /crab/huisnummers/(int: huisnummer_id)/subadressen

List all Subadressen for a certain Huisnummer.

Example request:

```

GET /crab/huisnummer/1/subadressen HTTP/1.1
Host: example.onroenderfgoed.be
Accept: application/json

```

Example response:

```

HTTP/1.1 200 OK
Content-Type: application/json

[
  {
    "status": {
      "naam": "inGebruik",
      "definitie": null,
      "id": "3"
    },
    "id": 1120936,
    "subadres": "B"
  }, {
    "status": {
      "naam": "inGebruik",

```

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```

        "definitie": null,
        "id": "3"
    },
    "id": 1120937,
    "subadres": "C"
}
]
```

Status Codes

- 200 OK – Subadressen were found.
- 404 Not Found – The Huisnummer for which you are requesting Subadressen does not exist.

GET /crab/subadressen/ (int: *subadres_id*)

Get a Subadres based on it's id.

Example request:

```

GET /crab/subadressen/1 HTTP/1.1
Host: example.onroerenderfgoed.be
Accept: application/json
```

Example response:

```

HTTP/1.1 200 OK
Content-Type: application/json

{
  "status": {
    "naam": "inGebruik",
    "definitie": null,
    "id": "3"
  },
  "metadata": {
    "begin_tijd": "2013-04-12 20:07:13.180000",
    "begin_datum": "1830-01-01 00:00:00",
    "begin_organisatie": {
      "naam": "gemeente",
      "definitie": "Gemeente.",
      "id": "1"
    },
    "begin_bewerking": {
      "naam": "correctie",
      "definitie": "Correctie van de attributen.",
      "id": "3"
    }
  },
  "aard": {
    "naam": "rijksregister",
    "definitie": "Rijksregister.",
    "id": "2"
  },
  "id": 1120936,
  "subadres": "B"
}
```

Status Codes

- 200 OK – Subadres was found.
- 404 Not Found – Subadres was not found.

GET /crab/huisnummers/ (int: *huisnummer_id*) /adresposities

List all adresposities for a certain huisnummer.

Example request:

```
GET /crab/huisnummer/1/adresposities HTTP/1.1
Host: example.onroerenderfgoed.be
Accept: application/json
```

Example response:

```
HTTP/1.1 200 OK
Content-Type: application/json

[
  {
    "herkomst": {
      "naam": "manueleAanduidingVanPerceel",
      "definitie": null,
      "id": "2"
    },
    "id": 4087928
  }
]
```

Status Codes

- 200 OK – A (possibly empty) list of adresposities is available.
- 404 Not Found – The Huisnummer for which you are requesting Adresposities does not exist.

GET /crab/subadressen/ (int: *subadres_id*) /adresposities

List all adresposities for a certain subadres.

Example request:

```
GET /crab/huisnummer/800000/adresposities HTTP/1.1
Host: example.onroerenderfgoed.be
Accept: application/json
```

Example response:

```
HTTP/1.1 200 OK
Content-Type: application/json

[
  {
    "herkomst": {
      "naam": "afgeleidVanGebouw",
      "definitie": null,
      "id": "10"
    },
  },
]
```

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```

    "id": 2706297
  }
]

```

Status Codes

- **200 OK** – A (possibly empty) list of adresposities is available.
- **404 Not Found** – The Subadres for which you are requesting Adresposities does not exist.

GET /crab/adresposities/(int: *adrespositie_id*)

List all information on a certain adrespositie.

Example request:

```

GET /crab/adresposities/2706297 HTTP/1.1
Host: example.onroenderfgoed.be
Accept: application/json

```

Example response:

```

HTTP/1.1 200 OK
Content-Type: application/json

{
  "herkomst": {
    "naam": "afgeleidVanGebouw",
    "definitie": null,
    "id": "10"
  },
  "metadata": {
    "begin_tijd": "2013-01-19 06:28:57.483000",
    "begin_datum": "1830-01-01 00:00:00",
    "begin_organisatie": {
      "naam": "AGIV",
      "definitie": "Agentschap voor Geografische Informatie
Vlaanderen.",
      "id": "5"
    },
    "begin_bewerking": {
      "naam": "correctie",
      "definitie": "Correctie van de attributen.",
      "id": "3"
    }
  },
  "geometrie": "POINT (154546.38 216367)",
  "id": 2706297,
  "aard": {
    "naam": "subAdres",
    "definitie": "Aanduiding van een plaats op een huisnummer",
    "id": "1"
  }
}

```

GET /crab/landen

List all landen.

Example request:

```
GET /crab/landen HTTP/1.1
Host: example.onroerenderfgoed.be
Accept: application/json
```

Example response:

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Range: 0-6/249

[
  {
    "naam": "Afghanistan",
    "id": "AF"
  }, {
    "naam": "\u00c5land Islands",
    "id": "AX"
  }, {
    "naam": "Albania",
    "id": "AL"
  }, {
    "naam": "Algeria",
    "id": "DZ"
  }, {
    "naam": "American Samoa",
    "id": "AS"
  }, {
    "naam": "Andorra",
    "id": "AD"
  }, {
    "naam": "Angola",
    "id": "AO"
  }
]
```

Status Codes

- 200 OK – List of landen was found.

GET /crab/landen/BE

List all information for a certain land.

Example request:

```
GET /crab/landen/BE HTTP/1.1
Host: example.onroerenderfgoed.be
Accept: application/json
```

Example response:

```
HTTP/1.1 200 OK
Content-Type: application/json

{
  "alpha2": "BE",
  "alpha3": "BEL",
  "id": "BE",
```

(continues on next page)

(continued from previous page)

```
"naam": "Belgium"  
}
```

Status Codes

- 200 OK – Land was found.
- 404 Not Found – Land was not found.

`crabpy_pyramid.add_route` (*config, name, pattern, *args, **kwargs*)

Adds a pyramid route to the config. All args and kwargs will be passed on to `config.add_route`.

This exists so the default behaviour of including crabpy will still be to cache all crabpy routes.

`crabpy_pyramid.conditional_http_tween_factory` (*handler, registry*)

Tween that adds ETag headers and tells Pyramid to enable conditional responses where appropriate.

`crabpy_pyramid.get_capakey` (*registry*)

Get the Capakey Gateway

Return type `crabpy.gateway.capakey.CapakeyRestGateway`

`crabpy_pyramid.get_crab` (*registry*)

Get the Crab Gateway

Return type `crabpy.gateway.crab.CrabGateway`

argument might be a config or a request

`crabpy_pyramid.includeme` (*config*)

Include *crabpy_pyramid* in this *Pyramid* application.

Parameters `config` (*pyramid.config.Configurator*) – A Pyramid configurator.

`crabpy_pyramid.main` (*global_config, **settings*)

This function returns a Pyramid WSGI application.

3.1 Utils module

Utility functions to help with range handling.

New in version 0.1.0.

`crabpy_pyramid.utils.parse_range_header` (*range*)

Parse a range header as used by the dojo Json Rest store.

Parameters `range` (*str*) – The content of the range header to be parsed. eg. *items=0-9*

Returns A dict with keys start, finish and number or *False* if the range is invalid.

`crabpy_pyramid.utils.range_return(request, items)`

Determine what range of objects to return.

Will check for both *Range* and *X-Range* headers in the request and set both *Content-Range* and 'X-Content-Range' headers.

Return type `list`

`crabpy_pyramid.utils.set_http_caching(request, gateway='crab', region='permanent')`

Set an HTTP Cache Control header on a request.

Parameters

- **request** (*pyramid.request.Request*) – Request to set headers on.
- **gateway** (*str*) – What gateway are we caching for? Defaults to *crab*.
- **region** (*str*) – What caching region to use? Defaults to *permanent*.

Return type `pyramid.request.Request`

4.1 0.8.1 (06-06-2019)

- Etag tween geeft soms errors (#102)

4.2 0.8.0 (11-01-2019)

- Caching tween volledig herwerken (#97)

4.3 0.7.0 (2019-01-03)

- Update crabpy to get new deelgemeente codes (#84, #92)
- Include CAPAKEY by default (#46)
- Allow passing custom crab wsdl (#75)

4.4 0.6.3 (2017-12-07)

- Make compatible with CRABpy 0.8.3
- Make compatible with latest pyCountry. (#56)

4.5 0.6.2 (2017-08-29)

- Make compatible with CRABpy 0.8.2

4.6 0.6.1 (2017-04-20)

- Make compatible with CRABpy 0.8.1 and fix center and bounding box formats in responses (#47)

4.7 0.6.0 (2017-04-19)

- Make compatible with CRABpy 0.8.0 and use the CAPAKEY REST gateway (#40)
- Blacklist for conditional tween (#41)

4.8 0.5.1 (2016-11-22)

- Add niscode to CRAB gemeente renderer. (#39)

4.9 0.5.0 (2016-07-27)

- Add HTTP caching headers. Both conditional GET with ETags and Cache-Control headers. Caching times are based on the ones passed to the gateways. (#37)
- Empty proxy settings are filtered out before being passed to the gateways. (#38)

4.10 0.4.1 (2016-02-02)

- Better error handling for capakey views. Generate HTTP 404 Not Found instead of HTTP 500 Internal Server Error. (#36)

4.11 0.4.0 (2016-01-25)

- Update dependencies. Update pycountry to version 1.19.
- Add explicit support for python 3.5.
- Add deeltgemeenten. (#33)
- Added postadressen in a few places.
- Added a list of huisnummers to a CRAB perceel.

4.12 0.3.0 (2015-06-01)

- Add Adresposities. Add endpoints that exposes the Adresposities linked to a certain Huisnummer or Subadres. (#26) [TalissaJoly]
- Add Landen (countries). Add endpoints to get a list of Landen or more information about a single Land. (#30, #31) [TalissaJoly]
- Return HTTP 404 errors for certain unexisting resources. (#25) [TalissaJoly]

- Limit the number of results that can be returned in a list. There was some partial handling for this, but only when the user did not send any range headers. This behaviour was deemed potentially hazardous and changed. Now, only a maximum of 5.000 records will be returned and range slicing works correctly. (#16) [TalissaJoly]

4.13 0.2.0 (2015-03-03)

- Implement two service endpoints dealing with Subadressen (think of boxes in an appartment building). (#18) [TalissaJoly]
- Implement a service endpoint for listing the Postkantons (ie. Postcode) in a certain gemeente. (#23) [TalissaJoly]
- Cleaned the code a bit by removing unneeded bits and pieces. (#17) (#19) [TalissaJoly]

4.14 0.1.1 (2014-09-18)

- Minor release adding and cleaning up lots of service documentation. (#14)
- Fixes a small bug when no capakey username or password was set and the capakey service was included.

4.15 0.1.0 (2014-09-05)

- First stable release, matches with CRABpy 0.4.1
- Exposes CRAB and CAPAKEY gateways.
- CRAB Gateway also exposes some Provincie objects. (#13)
- CRAB and CAPAKEY can be configured independently. (#11)

4.16 0.1.0a2 (2014-04-30)

- Still alpha.
- Coveralls support.
- Proxy settings in ini file. (#5)
- Range headers. (#9)

4.17 0.1.0a1 (2014-03-19)

- Initial version

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