# **API Documentation**

#### Search API

Request: 10.11.1.6:8000/cameo/search

Body: {

"footprint": "3.46191 6.16042, -4.59641 37.9012, -6.697357 54.65898353711527",

"platformname":"Sentinel-2",

"fromDate":"2022-01-01",

"username": "user1"

}

The four parameters mentioned above are required. Additional, optional parameters include

"processinglevel":"Level-2A",

    "toDate":"2023-01-01",

    "limit": 5

Response:

[

{

"cloudcover": {

"datatype": "http://www.w3.org/2001/XMLSchema#float",

"type": "literal",

"value": "85.943234"

},

"dataid": {

"datatype": "http://w3id.org/meta-share/meta-share/MetadataRecordIdentifier",

"type": "literal",

"value": "1dfcbac9-c227-4b9b-afa7-6b6f9e68206a"

},

"footprint": {

"datatype": "http://www.w3.org/2000/01/rdf-schema#label",

"type": "literal",

"value": "MULTIPOLYGON (((-5.797516 54.017541579537756, -5.7194214 55.00275121196942, -6.5272827 55.01884306572328, -6.560364 54.94935007092969, -6.629059 54.80421125734065, -6.697357 54.65898353711527, -6.7650757 54.51364031223683, -6.8327026 54.36833823111873, -6.8996277 54.22286312544946, -6.9665527 54.07745669513319, -6.983246 54.04087577264709, -5.797516 54.017541579537756)))"

},

"generationdate": {

"datatype": "http://www.w3.org/2001/XMLSchema#date",

"type": "literal",

"value": "2022-07-31 11:33:31.024000"

},

"id": {

"type": "uri",

"value": "urn:dcat:Dataset:1dfcbac9-c227-4b9b-afa7-6b6f9e68206a"

},

"ingestiondate": {

"datatype": "http://www.w3.org/2001/XMLSchema#date",

"type": "literal",

"value": "2022-07-31 21:33:58.480000"

},

"instrumentname": {

"datatype": "http://www.w3.org/2000/01/rdf-schema#label",

"type": "literal",

"value": "Multi-Spectral Instrument"

},

"metadataid": {

"datatype": "http://w3id.org/meta-share/meta-share/MetadataRecordIdentifier",

"type": "literal",

"value": "1dfcbac9-c227-4b9b-afa7-6b6f9e68206a"

},

"paidaccess": {

"datatype": "http://www.w3.org/2001/XMLSchema#boolean",

"type": "literal",

"value": "false"

},

"platformname": {

"datatype": "http://www.w3.org/2000/01/rdf-schema#label",

"type": "literal",

"value": "Sentinel-2"

},

"processinglevel": {

"datatype": "http://www.w3.org/2000/01/rdf-schema#label",

"type": "literal",

"value": "Level-2A"

},

"size": {

"datatype": "http://www.w3.org/2000/01/rdf-schema#label",

"type": "literal",

"value": "613.47 MB"

},

"snowcover": {

"datatype": "http://www.w3.org/2001/XMLSchema#float",

"type": "literal",

"value": "6e-06"

},

"uuid": {

"datatype": "http://www.w3.org/2000/01/rdf-schema#label",

"type": "literal",

"value": "ebfb2a04-2cc4-4663-b9ab-dcd7e46a40c4"

}

}

]

#### Metadata Retrieval API

Request: [http://10.11.1.6:8000/cameo/metadata/](http://172.17.0.3:5000/cameo/metadata/7)1dfcbac9-c227-4b9b-afa7-6b6f9e68206a

Response: [

    {

        "dataid": {

            "datatype": "http://w3id.org/meta-share/meta-share/MetadataRecordIdentifier",

            "type": "literal",

            "value": "1dfcbac9-c227-4b9b-afa7-6b6f9e68206a"

        },

        "expirationdate": {

            "datatype": "http://www.w3.org/2001/XMLSchema#date",

            "type": "literal",

            "value": "2025-01-24 09:54:00.117164"

        },

        "footprint": {

            "datatype": "http://www.w3.org/2000/01/rdf-schema#label",

            "type": "literal",

            "value": "MULTIPOLYGON (((-5.797516 54.017541579537756, -5.7194214 55.00275121196942, -6.5272827 55.01884306572328, -6.560364 54.94935007092969, -6.629059 54.80421125734065, -6.697357 54.65898353711527, -6.7650757 54.51364031223683, -6.8327026 54.36833823111873, -6.8996277 54.22286312544946, -6.9665527 54.07745669513319, -6.983246 54.04087577264709, -5.797516 54.017541579537756)))"

        },

        "generationdate": {

            "datatype": "http://www.w3.org/2001/XMLSchema#date",

            "type": "literal",

            "value": "2022-07-31 11:33:31.024000"

        },

        "ingestiondate": {

            "datatype": "http://www.w3.org/2001/XMLSchema#date",

            "type": "literal",

            "value": "2022-07-31 21:33:58.480000"

        },

        "instore": {

            "datatype": "http://www.w3.org/2001/XMLSchema#boolean",

            "type": "literal",

            "value": "True"

        },

        "instrumentname": {

            "datatype": "http://www.w3.org/2000/01/rdf-schema#label",

            "type": "literal",

            "value": "Multi-Spectral Instrument"

        },

        "instrumentshortname": {

            "datatype": "http://www.w3.org/2000/01/rdf-schema#label",

            "type": "literal",

            "value": "MSI"

        },

        "metadataid": {

            "datatype": "http://w3id.org/meta-share/meta-share/MetadataRecordIdentifier",

            "type": "literal",

            "value": "1dfcbac9-c227-4b9b-afa7-6b6f9e68206a"

        },

        "metadataingestiondate": {

            "datatype": "http://www.w3.org/2001/XMLSchema#date",

            "type": "literal",

            "value": "2023-01-25 09:54:00.117157"

        },

        "orbitdirection": {

            "datatype": "http://www.w3.org/2000/01/rdf-schema#label",

            "type": "literal",

            "value": "DESCENDING"

        },

        "paidaccess": {

            "datatype": "http://www.w3.org/2001/XMLSchema#boolean",

            "type": "literal",

            "value": "false"

        },

        "platformname": {

            "datatype": "http://www.w3.org/2000/01/rdf-schema#label",

            "type": "literal",

            "value": "Sentinel-2"

        },

        "processinglevel": {

            "datatype": "http://www.w3.org/2000/01/rdf-schema#label",

            "type": "literal",

            "value": "Level-2A"

        },

        "size": {

            "datatype": "http://www.w3.org/2000/01/rdf-schema#label",

            "type": "literal",

            "value": "613.47 MB"

        },

        "snowcover": {

            "datatype": "http://www.w3.org/2001/XMLSchema#float",

            "type": "literal",

            "value": "6e-06"

        },

        "summary": {

            "datatype": "http://www.w3.org/2000/01/rdf-schema#label",

            "type": "literal",

            "value": "Date: 2022-07-31T11:33:31.024Z, Instrument: MSI, Satellite: Sentinel-2, Size: 613.47 MB"

        },

        "title": {

            "datatype": "http://www.w3.org/2000/01/rdf-schema#label",

            "type": "literal",

            "value": "S2A\_MSIL2A\_20220731T113331\_N0400\_R080\_T29UPA\_20220731T173109"

        }

    }

]

#### Data Retrieval API

Request: [http://10.11.1.6:8000/cameo/data/](http://172.17.0.3:5000/cameo/data/)1dfcbac9-c227-4b9b-afa7-6b6f9e68206a

Response:

[

    {

        "data\_s3\_link": {

            "datatype": "http://www.w3.org/2000/01/rdf-schema#label",

            "type": "literal",

            "value": "S2A\_MSIL2A\_20220731T113331\_N0400\_R080\_T29UPA\_20220731T173109"

        },

        "instore": {

            "datatype": "http://www.w3.org/2001/XMLSchema#boolean",

            "type": "literal",

            "value": "True"

        }

    }

]