

OptiCloud

External API Reference

Base URL `https://dataexport.optipeople.dk/api`

54 endpoints

Authentication

There are two ways to authenticate with the external API. Either add an **Authorization** header using the authorization scheme `Opti`, or supply the same code in the query string via the `access_code` parameter.

The preferred approach is the Authorization header. The authorization code following `Opti` is randomly generated per account.

Example header

```
Authorization: Opti d7Ffcs1b48beC11bEB51907E6a8d652dADE2d6Fe74AA5B56eEa2D2e1f2ec3DFf
```

Example query string

```
?access_code=d7Ffcs1b48beC11bEB51907E6a8d652dADE2d6Fe74AA5B56eEa2D2e1f2ec3DFf
```

You can retrieve the authorization code used for both methods at <https://portal.optipeople.dk> › Accounts › External API.

Account

1. Get all settings for an account

API

GET /Account/GetAccountSettings

URL

`https://dataexport.optipeople.dk/api/Account/GetAccountSettings?access_code=<String>`

Parameters

This endpoint takes no parameters beyond `access_code`. The account is resolved from the authenticated caller.

Returns

Response schema

```
{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "type": "object",
  "required": ["data", "errors", "meta"],

  "properties": {
    "data": {
      "type": "array",
      "description": "List of account settings configured for the account",
      "items": {
        "type": "object",
        "required": ["id", "accountId", "name", "valueType"],
        "properties": {
          "id": {
            "type": "string",
            "format": "uuid",
            "description": "Unique identifier for the account setting"
          },
          "accountId": {
            "type": "string",
            "format": "uuid",
            "description": "Reference to associated account"
          },
          "name": {
            "type": "string",
            "description": "Name of the account setting"
          },
          "valueType": {
            "type": "integer",
            "description": "Type of value stored in the setting (0 = String, 1 = Number)"
          },
          "stringValue": {
            "type": ["string", "null"],
            "description": "String value of the setting, if applicable"
          },
          "numberValue": {
            "type": ["number", "null"],
            "description": "Numeric value of the setting, if applicable"
          }
        }
      },
      "additionalProperties": false
    }
  }
}
```

```

"errors": {
  "type": "array",
  "description": "List of any errors
    that occurred"
},
"meta": {
  "type": "object",
  "description": "Additional
    metadata about the response"
}
},
"additionalProperties": false
}

```

API Usage

2. Get external API usage totals for the account

API	Returns
GET /APIUsage/GetUsageForAccount URL <pre>https://dataexport.optipeople.dk/api/APIUsage/GetUsageForAccount?access_code=<String>&startDate=<DateTime>[&endDate=<DateTime>]</pre> Parameters • [Required] startDate: Start of the period to aggregate usage for, e.g. 2025-06-01T00:00:00 • [Optional] endDate: End of the period to aggregate usage for, e.g. 2025-06-30T00:00:00. Defaults to the current date (midnight) when omitted. Must be greater than startDate.	Response schema <pre> { "\$schema": "http://json-schema.org/draft-07/schema#", "type": "object", "required": ["data", "errors", "meta"], "properties": { "data": { "type": "object", "description": "Aggregated external API usage for the account over the requested period", "required": ["accountName", "accountId", "sizeInKb", "amountOfRequests", "apiUsageEndpoints"], "properties": { "accountName": { "type": "string", "description": "Name of the account" }, "accountId": { "type": "string", "format": "uuid", "description": "Unique identifier for the account" }, "sizeInKb": { "type": "integer", "minimum": 0, "description": "Total response payload size for the account in kilobytes" }, "amountOfRequests": { "type": "integer", "minimum": 0, "description": "Total number of requests made for the </pre>

```

        account"
      },
      "apiUsageEndpoints": {
        "type": "array",
        "description": "Per-endpoint
        usage breakdown for the
        account",
        "items": {
          "type": "object",
          "required": ["endpointName",
            "endpointId", "sizeInKb",
            "amountOfRequests"],
          "properties": {
            "endpointName": {
              "type": "string",
              "description": "Name of
              the external API
              endpoint"
            },
            "endpointId": {
              "type": "string",
              "format": "uuid",
              "description": "Unique
              identifier for the
              external API endpoint"
            },
            "sizeInKb": {
              "type": "integer",
              "minimum": 0,
              "description": "Total
              response payload size
              for the endpoint in
              kilobytes"
            },
            "amountOfRequests": {
              "type": "integer",
              "minimum": 0,
              "description": "Number
              of requests made to
              the endpoint"
            }
          },
          "additionalProperties":
            false
        }
      },
      "additionalProperties": false
    },
    "errors": {
      "type": "array",
      "description": "List of any errors
      that occurred"
    },
    "meta": {
      "type": "object",
      "description": "Additional
      metadata about the response"
    }
  },
  "additionalProperties": false
}

```

3. Get API usage for an external application

API	Returns
GET /APIUsage/GetUsageForExternalApplication URL <pre>https://dataexport.optipeople.dk/api/APIUsage/GetUsageForExternalApplication?access_code=<String>&startDate=<DateTime>[&externalApplicationId=<Guid>][&name=<String>][&endDate=<DateTime>]</pre> Parameters • [Required] startDate: Start of the period to report usage for (yyyy-MM-dd or full ISO 8601 date-time) • [Optional] endDate: End of the period to report usage for (yyyy-MM-dd or full ISO 8601 date-time). Defaults to today's date if omitted. Must be greater than startDate • [Optional] externalApplicationId: Unique identifier of the external application to report on, e.g. c4e80c24-1fc1-47a4-4977-08d93ba4b9b0. If omitted, name must be supplied • [Optional] name: Name of the external application to report on. Used to look up the application when externalApplicationId is not supplied. Required if externalApplicationId is omitted	Response schema <pre>{ "\$schema": "http://json-schema.org/draft-07/schema#", "type": "object", "required": ["data", "errors", "meta"], "properties": { "data": { "type": "object", "description": "API usage details for the external application over the requested period", "required": ["from", "to", "accountName", "accountId", "externalApplicationId", "externalApplicationName", "sizeInKb", "amountOfRequests", "apiUsageEndpoints"], "properties": { "from": { "type": "string", "format": "date-time", "description": "Start time of the reported period" }, "to": { "type": "string", "format": "date-time", "description": "End time of the reported period" }, "accountName": { "type": "string", "description": "Name of the account" }, "accountId": { "type": "string", "format": "uuid", "description": "Reference to the account" }, "externalApplicationId": { "type": "string", "format": "uuid", "description": "Unique identifier for the external application" }, "externalApplicationName": { "type": "string", "description": "Name of the external application" }, "sizeInKb": { "type": "integer", "description": "Total response size for the external" } } } } }</pre>

```

        application during the
        period, in kilobytes",
        "minimum": 0
    },
    "amountOfRequests": {
        "type": "integer",
        "description": "Total number
        of requests made by the
        external application during
        the period",
        "minimum": 0
    },
    "apiUsageEndpoints": {
        "type": "array",
        "description": "Per-endpoint
        usage breakdown for the
        external application during
        the period",
        "items": {
            "type": "object",
            "required": ["endpointName",
            "endpointId", "sizeInKb",
            "amountOfRequests"],
            "properties": {
                "endpointName": {
                    "type": "string",
                    "description": "Name of
                    the endpoint"
                },
                "endpointId": {
                    "type": "string",
                    "format": "uuid",
                    "description": "Unique
                    identifier for the
                    endpoint"
                },
                "sizeInKb": {
                    "type": "integer",
                    "description": "Total
                    response size for this
                    endpoint during the
                    period, in kilobytes",
                    "minimum": 0
                },
                "amountOfRequests": {
                    "type": "integer",
                    "description": "Total
                    number of requests
                    made to this endpoint
                    during the period",
                    "minimum": 0
                }
            }
        },
        "additionalProperties":
            false
    }
},
    "errors": {
        "type": "array",
        "description": "List of any errors
        that occurred"
    },
    "meta": {
        "type": "object",
        "description": "Additional

```

```

        metadata about the response"
    },
    "additionalProperties": false
}

```

Factory

4. Get all factories the caller has access to

API

GET /Factory/GetAll

URL

https://dataexport.optipeople.dk/api/Factory/GetAll?access_code=<String>

Parameters

This endpoint takes no parameters beyond access_code.

Returns

Response schema

```

{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "type": "object",
  "required": ["data", "errors", "meta"],

  "properties": {
    "data": {
      "type": "array",
      "description": "Factories the authenticated application has access to, ordered by name",
      "items": {
        "type": "object",
        "required": [
          "id",
          "name",
          "isEnabledOperatorPanelCreatePartInformation",
          "currentFactoryDateTime"
        ],
        "properties": {
          "id": {
            "type": "string",
            "format": "uuid",
            "description": "Unique identifier for the factory"
          },
          "name": {
            "type": ["string", "null"],
            "description": "Name of the factory"
          },
          "location": {
            "type": ["string", "null"],
            "description": "Location of the factory, taken from the configured country if available, otherwise the free-text location name"
          },
          "isEnabledOperatorPanelCreatePartInformation": {
            "type": "boolean",
            "description": "Flag indicating if operators can create part information from the

```

```

        operator panel for this
        factory"
    },
    "currentFactoryDateTime": {
        "type": "string",
        "format": "date-time",
        "description": "Current
        local date and time at the
        factory"
    },
    "accountName": {
        "type": ["string", "null"],
        "description": "Name of the
        account that owns the
        factory"
    }
},
"additionalProperties": false
}
},
"errors": {
    "type": "array",
    "description": "List of any errors
    that occurred"
},
"meta": {
    "type": "object",
    "description": "Additional
    metadata about the response"
}
},
"additionalProperties": false
}

```

5. Get a factory by id

API

GET /Factory/GetById

URL

https://dataexport.optipeople.dk/api/Factory/GetById?access_code=<String>&factoryId=<Guid>

Parameters

- **[Required] factoryId**: Unique identifier of the factory to retrieve, e.g. c4e80c24-1fc1-47a4-4977-08d93ba4b9b0

Returns

Response schema

```

{
    "$schema": "http://json-schema.org/draft-07/schema#",
    "type": "object",
    "required": ["data", "errors", "meta"],

    "properties": {
        "data": {
            "type": "object",
            "description": "Details of the
            requested factory",
            "required": [
                "id",
                "name",
                "accountId",
                "isEnabledOperatorPanelCreatePart
                Information",
                "midnightShiftShouldBelongToStar
                toShift",
                "createdDate",
                "updatedDate"
            ],
            "properties": {
                "id": {

```

```

    "type": "string",
    "format": "uuid",
    "description": "Unique
        identifier for the factory"
  },
  "name": {
    "type": "string",
    "description": "Name of the
        factory"
  },
  "country": {
    "type": ["object", "null"],
    "description": "Country the
        factory is located in",
    "required": ["id", "name"],
    "properties": {
      "id": {
        "type": "string",
        "format": "uuid",
        "description": "Unique
            identifier for the
            country"
      },
      "name": {
        "type": "string",
        "description": "Name of
            the country"
      }
    }
  },
  "additionalProperties": false
},
"timeZone": {
  "type": ["object", "null"],
  "description": "Time zone
        configured for the factory",
  "required": ["id", "name",
    "title"],
  "properties": {
    "id": {
      "type": "string",
      "format": "uuid",
      "description": "Unique
          identifier for the time
          zone"
    },
    "name": {
      "type": "string",
      "description": "Name of
          the time zone"
    },
    "title": {
      "type": "string",
      "description": "Display
          title of the time zone"
    }
  }
},
"additionalProperties": false
},
"accountId": {
  "type": "string",
  "format": "uuid",
  "description": "Reference to
        associated account"
},
"isEnableOperatorPanelCreatePart
Information": {
  "type": "boolean",
  "description": "Flag

```

```

        indicating if operators can
        create part information from
        the operator panel"
    },
    "midnightShiftShouldBelongToStar
    tOfShift": {
        "type": "integer",
        "description": "How a shift
        spanning midnight is
        attributed (0 = StartOfShift,
        1 = EndOfShift, 2 = Split)"
    },
    "createdDate": {
        "type": "string",
        "format": "date-time",
        "description": "Date and time
        when the factory was
        created"
    },
    "updatedAt": {
        "type": "string",
        "format": "date-time",
        "description": "Date and time
        when the factory was last
        updated"
    }
    },
    "additionalProperties": false
},
"errors": {
    "type": "array",
    "description": "List of any errors
    that occurred"
},
"meta": {
    "type": "object",
    "description": "Additional
    metadata about the response"
}
},
"additionalProperties": false
}

```

Device

6. Get all devices for the account

API

GET /Device/GetAll

URL

https://dataexport.optipeople.dk/api/Device/GetAll?access_code=<String>

Parameters

This endpoint takes no additional parameters. All devices belonging to the accounts the caller has access to are returned in a single page.

Returns

Response schema

```

{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "type": "object",
  "required": ["data", "errors", "meta"],

  "properties": {
    "data": {
      "type": "object",
      "description": "Paged list of
      devices visible to the account",
      "required": ["devices", "page",

```

```

"count", "pageSize", "totalPage",
"orderby", "isAscending",
"keyword"],
"properties": {
  "devices": {
    "type": "array",
    "description": "Devices
      visible to the account",
    "items": {
      "type": "object",
      "required": ["id", "name",
        "deviceId", "machineName",
        "location", "wifisSID",
        "wifiFallbacksSID",
        "lastActivity"],
      "properties": {
        "id": {
          "type": "string",
          "format": "uuid",
          "description": "Unique
            identifier for the
            device"
        },
        "name": {
          "type": "string",
          "description": "Name of
            the device"
        },
        "deviceId": {
          "type": "string",
          "description": "IoT Hub
            identifier for the
            device"
        },
        "proxyDeviceId": {
          "type": ["string",
            "null"],
          "format": "uuid",
          "description":
            "Reference to the
            proxy device, if
            applicable"
        },
        "machineId": {
          "type": ["string",
            "null"],
          "format": "uuid",
          "description":
            "Reference to the
            machine the device is
            paired with, if
            applicable"
        },
        "machineName": {
          "type": ["string",
            "null"],
          "description": "Name of
            the machine the device
            is paired with, if
            applicable"
        },
        "location": {
          "type": ["string",
            "null"],
          "description": "Physical
            location of the
            device"
        }
      }
    },
  },

```

```

        "wifisSID": {
            "type": ["string",
                "null"],
            "description": "SSID of
                the primary Wi-Fi
                network configured on
                the device"
        },
        "wifiFallbacksSID": {
            "type": ["string",
                "null"],
            "description": "SSID of
                the fallback Wi-Fi
                network configured on
                the device"
        },
        "lastActivity": {
            "type": "string",
            "description": "Time
                when the device was
                last seen, or '-' if
                it has never reported
                in"
        }
    },
    "additionalProperties":
        false
}
},
"page": {
    "type": "integer",
    "minimum": 1,
    "description": "Current page
        number"
},
"count": {
    "type": "integer",
    "minimum": 0,
    "description": "Total number
        of devices matching the
        query"
},
"pageSize": {
    "type": "integer",
    "minimum": 1,
    "description": "Number of
        devices per page"
},
"totalPage": {
    "type": "integer",
    "minimum": 1,
    "description": "Total number
        of pages"
},
"orderBy": {
    "type": "string",
    "description": "Column used to
        order the result set"
},
"isAscending": {
    "type": "boolean",
    "description": "Flag
        indicating if the result set
        is sorted in ascending
        order"
},
"keyword": {
    "type": "string",

```

```

        "description": "Search keyword
        applied to the result set"
      },
    },
    "additionalProperties": false
  },
  "errors": {
    "type": "array",
    "description": "List of any errors
    that occurred"
  },
  "meta": {
    "type": "object",
    "description": "Additional
    metadata about the response"
  }
},
"additionalProperties": false
}

```

7. Get a device by id

API

GET /Device/GetById

URL

`https://dataexport.optipeople.dk/api/Device/GetById?access_code=<String>&deviceId=<Guid>`

Parameters

- **[Required] deviceId**: Unique identifier of the device to retrieve, e.g. c4e80c24-1fc1-47a4-4977-08d93ba4b9b0

Returns

Response schema

```

{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "type": "object",
  "required": ["data", "errors", "meta"],

  "properties": {
    "data": {
      "type": "object",
      "description": "Device matching
      the supplied identifier",
      "required": ["id", "name",
        "deviceId", "machineId",
        "machineName", "location",
        "wifisSID", "wifiFallbacksSID",
        "lastActivity"],
      "properties": {
        "id": {
          "type": "string",
          "format": "uuid",
          "description": "Unique
          identifier for the device"
        },
        "name": {
          "type": ["string", "null"],
          "description": "Name of the
          device"
        },
        "deviceId": {
          "type": ["string", "null"],
          "description": "IoT Hub
          identifier of the device"
        },
        "proxyDeviceId": {
          "type": ["string", "null"],
          "format": "uuid",
          "description": "Reference to
          the proxy device, if

```

```

        applicable"
      },
      "machineId": {
        "type": ["string", "null"],
        "description": "Reference to
          associated machine"
      },
      "machineName": {
        "type": ["string", "null"],
        "description": "Name of the
          associated machine"
      },
      "location": {
        "type": ["string", "null"],
        "description": "Physical
          location of the device"
      },
      "wifisSID": {
        "type": ["string", "null"],
        "description": "SSID of the
          primary Wi-Fi network
          configured on the device"
      },
      "wifiFallbacksSID": {
        "type": ["string", "null"],
        "description": "SSID of the
          fallback Wi-Fi network
          configured on the device"
      },
      "lastActivity": {
        "type": ["string", "null"],
        "description": "Timestamp of
          the last activity reported
          by the device, or '-' if
          never reported"
      }
    },
    "additionalProperties": false
  },
  "errors": {
    "type": "array",
    "description": "List of any errors
      that occurred"
  },
  "meta": {
    "type": "object",
    "description": "Additional
      metadata about the response"
  }
},
"additionalProperties": false
}

```

Machine

8. Export manual operator logs for one or more machines

API

GET /Machine/ExternalGetManualLogs

URL

<https://dataexport.optipeople.dk/api/Mac>

Returns

Response schema

```
{
  "$schema": "http://json-schema.org/dra
```

```
hine/ExternalGetManualLogs?access_code
=<String>&from=<DateTime>[&machineId=<
Guid>[&to=<DateTime>]]
```

Parameters

- **[Required] from:** Start of the time range to export logs for (yyyy-MM-dd or full ISO date-time)
- **[Optional] machineId:** Unique identifier of the machine to export logs for, e.g. c4e80c24-1fc1-47a4-4977-08d93ba4b9b0. If omitted, manual logs for every machine the calling user has access to are returned
- **[Optional] to:** End of the time range to export logs for (yyyy-MM-dd or full ISO date-time). If omitted, defaults to the end of the current day

```
ft-07/schema#",
"type": "object",
"required": ["data", "errors", "meta"],

"properties": {
  "data": {
    "type": "array",
    "description": "Manual log entries
      grouped by machine",
    "items": {
      "type": "object",
      "required": ["manualLog"],
      "properties": {
        "machineId": {
          "type": ["string", "null"],
          "format": "uuid",
          "description": "Unique
            identifier for the
            machine"
        },
        "manualLog": {
          "type": "array",
          "description": "Manual log
            entries recorded for the
            machine in the requested
            time range",
          "items": {
            "type": "object",
            "required": ["logTime"],
            "properties": {
              "id": {
                "type": ["string",
                  "null"],
                "description": "Unique
                  identifier for the
                  manual log entry"
              },
              "message": {
                "type": ["string",
                  "null"],
                "description": "Text
                  of the manual log
                  entry"
              },
              "logTime": {
                "type": "string",
                "format": "date-time",
                "description": "Time
                  when the manual log
                  entry was recorded"
              }
            },
            "additionalProperties":
              false
          },
          "additionalProperties":
            false
        },
        "errors": {
          "type": "array",
          "description": "List of any errors
            that occurred"
        },
        "meta": {
          "type": "object",
```

```

    "description": "Additional
    metadata about the response"
  }
},
"additionalProperties": false
}

```

9. Get all machines the caller has access to

API	Returns
GET /Machine/GetAll URL <code>https://dataexport.optipeople.dk/api/Machine/GetAll?access_code=<String></code> Parameters This endpoint takes no additional parameters. All machines belonging to the accounts the caller has access to are returned in a single page.	Response schema <pre> { "\$schema": "http://json-schema.org/draft-07/schema#", "type": "object", "required": ["data", "errors", "meta"], "properties": { "data": { "type": "object", "description": "Paged list of machines visible to the account", "required": ["machines", "isEnabledClearingMachineLogs", "page", "count", "pageSize", "totalPage", "orderBy", "isAscending", "keyword"], }, "properties": { "accountName": { "type": ["string", "null"], "description": "Name of the account the result set is scoped to" }, "factoryName": { "type": ["string", "null"], "description": "Name of the factory the result set is scoped to" }, "machines": { "type": "array", "description": "Machines visible to the account", "items": { "type": "object", "required": ["name", "factoryId", "factoryName", "manufacturerName", "manufacturerModelId", "deviceId", "deviceName", "target", </pre>

```

"performanceTarget",
"performanceFriendlyName",
"qualityTarget",
"oeeTarget",
"uptime",
"isRunning",
"validationCode",
"productionYear",
"serialNumber",
"accountId",
"accountName",
"machineStatusType",
"isCopyIOSettings",
"hasDefaultWaste",
"isEnableWasteScreen",
"isEnableOEEChart",
"isEnableOPNumber",
"isResetOpByUnitInformation",
"isReportWasteResonToDevice",
"clearPendingWasteOnShiftChange",
"keepStopAcrossShifts",
"isSetupMode",
"wasteConfigurationName",
"expectedSpeed",
"leftBottomCorner",
"operatorPanelType",
"needToBeProducedBasedOn",
"triggerAutoStopOnMissingHeartbeat",
"isCopyDeviceSettings",
"isCopyShiftSettings",
"isCopyWasteConfigSettings",
"isCopyTelemetrySettings",
"isCopyUnitSettings",
"hasOrderCustomFieldsEnabled",
"resettingPartCounters",
"partCounterOutputList"
],
"properties": {
  "id": {
    "type": ["string", "null"],
    "format": "uuid",
    "description": "Unique identifier for the machine"
  },
  "name": {
    "type": ["string", "null"],
    "description": "Name of the machine"
  },
  "factoryId": {
    "type": "string",
    "format": "uuid",
    "description": "Reference to the factory the machine belongs to"
  },
  "factoryName": {
    "type": ["string",

```

```

    "null"],
    "description": "Name of
the factory the
machine belongs to"
  },
  "manufacturerName": {
    "type": ["string",
    "null"],
    "description": "Name of
the machine
manufacturer"
  },
  "manufacturerModelId": {
    "type": "string",
    "format": "uuid",
    "description":
      "Reference to the
      manufacturer model"
  },
  "deviceId": {
    "type": ["string",
    "null"],
    "description": "IoT Hub
identifier of the
device paired with the
machine"
  },
  "deviceName": {
    "type": ["string",
    "null"],
    "description": "Name of
the device paired with
the machine"
  },
  "target": {
    "type": "integer",
    "minimum": 0,
    "description":
      "Production target for
      the machine"
  },
  "performanceTarget": {
    "type": "integer",
    "minimum": 0,
    "maximum": 100,
    "description":
      "Performance target as
      a percentage"
  },
  "performanceFriendlyName":
  {
    "type": ["string",
    "null"],
    "description": "Friendly
name for the
performance metric"
  },
  "qualityTarget": {
    "type": "integer",
    "minimum": 0,
    "maximum": 100,
    "description": "Quality
target as a
percentage"
  },
  "oeeTarget": {
    "type": "integer",
    "minimum": 0,

```

```

    "maximum": 100,
    "description": "OEE
    target as a
    percentage"
  },
  "uptime": {
    "type": "integer",
    "minimum": 0,
    "description": "Uptime
    target for the
    machine"
  },
  "isRunning": {
    "type": "boolean",
    "description": "Flag
    indicating if the
    machine is currently
    running"
  },
  "validationCode": {
    "type": ["string",
    "null"],
    "description":
    "Validation code used
    to pair operator
    panels to the machine"
  },
  "productionYear": {
    "type": "integer",
    "minimum": 0,
    "description": "Year the
    machine was put into
    production"
  },
  "serialNumber": {
    "type": ["string",
    "null"],
    "description": "Serial
    number of the machine"
  },
  "accountId": {
    "type": "string",
    "format": "uuid",
    "description":
    "Reference to the
    account that owns the
    machine"
  },
  "accountName": {
    "type": ["string",
    "null"],
    "description": "Name of
    the account that owns
    the machine"
  },
  "machineStatusType": {
    "type": "integer",
    "description": "Current
    status of the machine:
    1 = OnTarget, 2 =
    Acceptable, 3 =
    Unacceptable, 4 =
    Overtime"
  },
  "machineTemplateId": {
    "type": ["string",
    "null"],
    "format": "uuid",

```

```

      "description":
        "Reference to the
        machine template, if
        applicable"
    },
    "associatedDeviceId": {
      "type": ["string",
        "null"],
      "format": "uuid",
      "description":
        "Reference to the
        associated device, if
        applicable"
    },
    "isCopyIOSettings": {
      "type": "boolean",
      "description": "Flag
        indicating if IO
        settings should be
        copied when cloning
        the machine"
    },
    "hasDefaultWaste": {
      "type": "boolean",
      "description": "Flag
        indicating if the
        machine has a default
        waste configuration"
    },
    "isEnabledWasteScreen": {
      "type": "boolean",
      "description": "Flag
        indicating if the
        waste screen is
        enabled on the
        operator panel"
    },
    "isEnabledOEEChart": {
      "type": "boolean",
      "description": "Flag
        indicating if the OEE
        chart is enabled on
        the operator panel"
    },
    "isEnabledOPNumber": {
      "type": "boolean",
      "description": "Flag
        indicating if
        order/part numbers are
        enabled on the
        operator panel"
    },
    "isResetOpByUnitInformation": {
      "type": "boolean",
      "description": "Flag
        indicating if the
        operator panel resets
        based on unit
        information"
    },
    "isReportWasteReasonToDevice": {
      "type": "boolean",
      "description": "Flag
        indicating if waste
        reasons are reported
        back to the device"
    }
  }

```

```

    },
    "clearPendingWasteOnShiftChange": {
      "type": "boolean",
      "description": "Flag indicating if pending waste is cleared on shift change"
    },
    "keepStopAcrossShifts": {
      "type": "boolean",
      "description": "Flag indicating if stops are kept open across shift changes"
    },
    "currentOPNumber": {
      "type": ["integer", "null"],
      "description": "Current order/part number on the machine, if applicable"
    },
    "isSetupMode": {
      "type": "boolean",
      "description": "Flag indicating if the machine is in setup mode"
    },
    "wasteConfigurationName": {
      "type": ["string", "null"],
      "description": "Name of the active waste configuration"
    },
    "expectedSpeed": {
      "type": "integer",
      "minimum": 0,
      "description": "Expected production speed of the machine"
    },
    "leftBottomCorner": {
      "type": ["string", "null"],
      "description": "Widget shown in the left bottom corner of the operator panel"
    },
    "operatorPanelType": {
      "type": "integer",
      "description": "Operator panel layout: 0 = Panel1, 1 = Panel2, 2 = Panel3, 3 = Panel4, 4 = Panel5, 5 = Panel6, 6 = Panel7, 7 = Panel8, 8 = Panel9"
    },
    "needToBeProducedBasedOn": {
      "type": "integer",
      "description": "Basis

```

```

        for the
        need-to-be-produced
        calculation: 0 =
        ExpectedSpeed, 1 =
        TotalUnitsToProduce"
    },
    "triggerAutoStopOnMissingHeartbeat": {
        "type": "boolean",
        "description": "Flag
        indicating if an
        automatic stop is
        triggered when the
        device heartbeat is
        missing"
    },
    "isCopyDeviceSettings": {
        "type": "boolean",
        "description": "Flag
        indicating if device
        settings should be
        copied when cloning
        the machine"
    },
    "isCopyShiftSettings": {
        "type": "boolean",
        "description": "Flag
        indicating if shift
        settings should be
        copied when cloning
        the machine"
    },
    "isCopyWasteConfigSettings": {
        "type": "boolean",
        "description": "Flag
        indicating if waste
        configuration settings
        should be copied when
        cloning the machine"
    },
    "isCopyTelemetrySettings": {
        "type": "boolean",
        "description": "Flag
        indicating if
        telemetry settings
        should be copied when
        cloning the machine"
    },
    "isCopyUnitSettings": {
        "type": "boolean",
        "description": "Flag
        indicating if unit
        settings should be
        copied when cloning
        the machine"
    },
    "hasOrderCustomFieldsEnabled": {
        "type": "boolean",
        "description": "Flag
        indicating if order
        custom fields are
        enabled for the
        machine"
    },
    "resettingPartCounters": {

```

```

    "type": "array",
    "description": "Names of
    part counters that
    reset",
    "items": { "type":
    "string" }
  },
  "partCounterOutputList": {
    "type": "array",
    "description": "Part
    counter outputs
    configured on the
    machine",
    "items": {
      "type": "object",
      "required":
        [ "internalName",
        "friendlyName" ],
      "properties": {
        "internalName": {
          "type": [ "string",
          "null" ],
          "description":
            "Internal name
            of the part
            counter output"
        },
        "friendlyName": {
          "type": [ "string",
          "null" ],
          "description":
            "Friendly name
            shown for the
            part counter
            output"
        }
      }
    },
    "additionalProperties":
      false
  }
},
"entityType": {
  "type": [ "object",
  "null" ],
  "description": "Entity
  type the machine is
  classified as, if
  applicable",
  "properties": {
    "id": {
      "type": [ "string",
      "null" ],
      "format": "uuid",
      "description":
        "Unique identifier
        for the entity
        type"
    },
    "name": {
      "type": [ "string",
      "null" ],
      "description": "Name
      of the entity
      type"
    }
  },
  "description": {
    "type": [ "string",
    "null" ],

```

```

        "description":
        "Description of
        the entity type"
    }
},
"additionalProperties":
    false
},
"entityTypeId": {
    "type": ["string",
    "null"],
    "format": "uuid",
    "description":
    "Reference to the
    entity type, if
    applicable"
}
},
"additionalProperties":
    false
}
},
"isEnableClearingMachineLogs": {
    "type": "boolean",
    "description": "Flag
    indicating if clearing
    machine logs is enabled for
    the account"
},
"page": {
    "type": "integer",
    "minimum": 1,
    "description": "Current page
    number"
},
"count": {
    "type": "integer",
    "minimum": 0,
    "description": "Total number
    of machines matching the
    query"
},
"pageSize": {
    "type": "integer",
    "minimum": 1,
    "description": "Number of
    machines per page"
},
"totalPage": {
    "type": "integer",
    "minimum": 1,
    "description": "Total number
    of pages"
},
"orderBy": {
    "type": "string",
    "description": "Column used to
    order the result set"
},
"isAscending": {
    "type": "boolean",
    "description": "Flag
    indicating if the result set
    is sorted in ascending
    order"
},
"keyword": {
    "type": "string",

```

```

        "description": "Search keyword
        applied to the result set"
      },
    },
    "additionalProperties": false
  },
  "errors": {
    "type": "array",
    "description": "List of any errors
    that occurred"
  },
  "meta": {
    "type": "object",
    "description": "Additional
    metadata about the response"
  }
},
"additionalProperties": false
}

```

10. Get all waste configurations for a machine

API

GET /Machine/GetWasteConfigurations

URL

https://dataexport.optipeople.dk/api/Machine/GetWasteConfigurations?access_code=<String>&machineId=<Guid>

Parameters

- **[Required] machineId**: Unique identifier of the machine to fetch waste configurations for, e.g. c4e80c24-1fc1-47a4-4977-08d93ba4b9b0

Returns

Response schema

```

{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "type": "object",
  "required": ["data", "errors", "meta"],

  "properties": {
    "data": {
      "type": "array",
      "description": "List of machines
      with their configured waste
      entries, grouped by machine",
      "items": {
        "type": "object",
        "required": ["wasteConfigurations"],
        "properties": {
          "machineId": {
            "type": ["string", "null"],
            "format": "uuid",
            "description": "Reference to
            the machine the waste
            configurations belong to"
          },
          "wasteConfigurations": {
            "type": "array",
            "description": "List of
            waste configurations
            defined for the machine",
            "items": {
              "type": "object",
              "required": [
                "wasteConfigurationId",
                "wasteConfigurationName",

                "categoryId",
                "categoryName",
                "isPlanned",

```

```

    "isRequireReason",
    "isDefault",
    "isDefaultSetupMode",
    "tags"
  ],
  "properties": {
    "wasteConfigurationId": {
      "type": "string",
      "format": "uuid",
      "description": "Unique
        identifier for the
        waste configuration"
    },
    "wasteConfigurationName": {
      "type": "string",
      "description": "Name
        of the waste
        configuration"
    },
    "categoryId": {
      "type": "string",
      "format": "uuid",
      "description": "Reference to
        associated waste
        category"
    },
    "categoryName": {
      "type": "string",
      "description": "Name
        of the waste
        category"
    },
    "isPlanned": {
      "type": "boolean",
      "description": "Flag
        indicating if the
        waste is planned"
    },
    "isRequireReason": {
      "type": "boolean",
      "description": "Flag
        indicating if a
        reason must be
        provided when
        registering this
        waste"
    },
    "isDefault": {
      "type": "boolean",
      "description": "Flag
        indicating if this
        waste configuration
        is selected by
        default when
        registering waste"
    },
    "isDefaultSetupMode": {
      "type": "boolean",
      "description": "Flag
        indicating if this
        waste configuration
        is selected by
        default in setup
        mode"
    }
  },

```

```

      "tags": {
        "type": "array",
        "description": "List
          of waste tags
          associated with the
          configuration",
        "items": {
          "type": "string"
        }
      },
      "additionalProperties":
        false
    }
  },
  "additionalProperties": false
}
},
"errors": {
  "type": "array",
  "description": "List of any errors
    that occurred"
},
"meta": {
  "type": "object",
  "description": "Additional
    metadata about the response"
}
},
"additionalProperties": false
}

```

11. Set part information for a machine

API

POST /Machine/SetMachinePartInformation

URL

https://dataexport.optipeople.dk/api/Machine/SetMachinePartInformation?access_code=<String>

Request body

```

{
  "partInformationName": "string",
  "machineId": "00000000-0000-0000-0000-000000000000",
  "expectedSpeed": 0,
  "totalAmountToProduce": 0,
  "timeOfOccurrence": "2026-01-01T00:00:00Z",
  "customFields": [
    { "name": "string", "value": "string" }
  ]
}

```

- **partInformationName**: Name of the part order being assigned to the machine
- **machineId**: Unique identifier for the machine, e.g. c4e80c24-1fc1-47a4-4977-08d93ba4b9b0

Returns

Response schema

```

{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "type": "object",
  "required": ["data", "errors", "meta"],

  "properties": {
    "data": {
      "type": "object",
      "description": "Empty object
        returned on success",
      "additionalProperties": false
    },
    "errors": {
      "type": "array",
      "description": "List of any errors
        that occurred"
    },
    "meta": {
      "type": "object",
      "description": "Additional
        metadata about the response"
    }
  },
  "additionalProperties": false
}

```

- **expectedSpeed**: Expected production speed for the part order
- **totalAmountToProduce**: Total number of units planned for the part order
- **timeOfOccurence**: Time when the part order takes effect on the machine
- **customFields**: List of custom name/value pairs to attach to the part order

}

Machine Shift

12. Get all shifts configured for a machine

API

GET

/MachineShift/ExternalGetMachineShiftByMachineId

URL

https://dataexport.optipeople.dk/api/MachineShift/ExternalGetMachineShiftByMachineId?access_code=<String>&machineId=<Guid>

Parameters

- **[Required] machineId**: Unique identifier of the machine whose shifts should be returned, e.g. c4e80c24-1fc1-47a4-4977-08d93ba4b9b0

Returns

Response schema

```
{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "type": "object",
  "required": ["data", "errors", "meta"],

  "properties": {
    "data": {
      "type": "array",
      "description": "Shifts configured for the specified machine",
      "items": {
        "type": "object",
        "required": [
          "id",
          "day",
          "startTime",
          "isDynamicStart",
          "endTime",
          "isDynamicStop"
        ],
        "properties": {
          "id": {
            "type": "string",
            "format": "uuid",
            "description": "Unique identifier for the machine shift"
          },
          "day": {
            "type": "string",
            "enum": [
              "Sunday",
              "Monday",
              "Tuesday",
              "Wednesday",
              "Thursday",
              "Friday",
              "Saturday"
            ],
            "description": "Day of the week the shift applies to"
          }
        }
      }
    }
  }
}
```

```

    "startTime": {
      "type": "string",
      "description": "Start time
of the shift in HH:mm:ss
format"
    },
    "isDynamicStart": {
      "type": "boolean",
      "description": "Flag
indicating if the shift
start is dynamic"
    },
    "endTime": {
      "type": "string",
      "description": "End time of
the shift in HH:mm:ss
format"
    },
    "isDynamicStop": {
      "type": "boolean",
      "description": "Flag
indicating if the shift
end is dynamic"
    }
  },
  "additionalProperties": false
},
"errors": {
  "type": "array",
  "description": "List of any errors
that occurred"
},
"meta": {
  "type": "object",
  "description": "Additional
metadata about the response"
}
},
"additionalProperties": false
}

```

Data Export

13. Export shift, counter, unit, waste, operator and machine setting data

API	Returns
GET /DataExport/GetDataExport URL <a href="https://dataexport.optipeople.dk/api/DataExport/GetDataExport?access_code=<String>[&machineId=<Guid>[&factoryId=<Guid>[&from=<DateTime>[&to=<DateTime>]]]]">https://dataexport.optipeople.dk/api/DataExport/GetDataExport?access_code=<String>[&machineId=<Guid>[&factoryId=<Guid>[&from=<DateTime>[&to=<DateTime>]]]] Parameters • [Optional] machineId: Unique identifier of a machine to include in the export. May be repeated to include multiple machines, e.g. &machineId=<Guid1>&machineId=<Guid2>	Response schema <pre> { "\$schema": "http://json-schema.org/draft-07/schema#", "type": "object", "description": "Production data export for the requested machines and period, grouped by shift", "required": ["shiftData", "counterData", "unitData", "wasteData", "operatorData", "machineSettings"], "properties": { "shiftData": { </pre>

- **[Optional] factoryId:** Unique identifier of a factory to include in the export, e.g. c4e80c24-1fc1-47a4-4977-08d93ba4b9b0
- **[Optional] from:** Start of the period to export, format yyyy-MM-dd. Defaults to today
- **[Optional] to:** End of the period to export, format yyyy-MM-dd. Defaults to today. The range from-to cannot exceed one year

```

"type": "array",
"description": "Per-shift summary
  rows for each machine in the
  period",
"items": {
  "type": "object",
  "required": [
    "shiftId",
    "shiftIdentifierId",
    "shiftIdentifierName",
    "shiftDay",
    "machineId",
    "machineName",
    "factoryId",
    "factoryName",
    "durationInSec",
    "startTimeShift",
    "stopTimeShift",
    "unplannedWasteDurationInSec",
    "plannedWasteDurationInSec",
    "unitsCount",
    "unitsCountForPerfCalc",
    "unitsRejected",
    "unitsRejectedForPerfCalc",
    "weekNumber",
    "dateString",
    "reportDate"
  ],
  "properties": {
    "shiftId": {
      "type": "string",
      "format": "uuid",
      "description": "Unique
        identifier for the shift"
    },
    "shiftIdentifierId": {
      "type": "string",
      "format": "uuid",
      "description": "Reference to
        associated shift
        identifier"
    },
    "shiftIdentifierName": {
      "type": "string",
      "description": "Name of the
        shift identifier"
    },
    "shiftDay": {
      "type": "string",
      "description": "Day of week
        the shift belongs to"
    },
    "machineId": {
      "type": "string",
      "format": "uuid",
      "description": "Reference to
        associated machine"
    },
    "machineName": {
      "type": ["string", "null"],
      "description": "Name of the
        machine"
    },
    "factoryId": {
      "type": "string",
      "format": "uuid",
      "description": "Reference to
        associated factory"
    }
  }
}

```

```

    },
    "factoryName": {
      "type": ["string", "null"],
      "description": "Name of the
        factory"
    },
    },
    "durationInSec": {
      "type": "integer",
      "minimum": 0,
      "description": "Duration of
        the shift in seconds"
    },
    },
    "startTimeShift": {
      "type": "string",
      "format": "date-time",
      "description": "Start time
        of the shift"
    },
    },
    "stopTimeShift": {
      "type": "string",
      "format": "date-time",
      "description": "End time of
        the shift"
    },
    },
    "unplannedWasteDurationInSec":
    {
      "type": "integer",
      "minimum": 0,
      "description": "Total
        unplanned waste duration
        during the shift in
        seconds"
    },
    },
    "plannedWasteDurationInSec": {
      "type": "integer",
      "minimum": 0,
      "description": "Total
        planned waste duration
        during the shift in
        seconds"
    },
    },
    "unitsCount": {
      "type": "number",
      "description": "Total units
        produced during the shift"
    },
    },
    "unitsCountForPerfCalc": {
      "type": "number",
      "description": "Total units
        produced used for
        performance calculation"
    },
    },
    "unitsRejected": {
      "type": "number",
      "description": "Total units
        rejected during the shift"
    },
    },
    "unitsRejectedForPerfCalc": {
      "type": "number",
      "description": "Total units
        rejected used for
        performance calculation"
    },
    },
    "weekNumber": {
      "type": "integer",
      "minimum": 1,
      "description": "ISO week
        number of the shift start"
    }
  }

```

```

    },
    "dateString": {
      "type": "string",
      "description": "Date the
        shift belongs to in
        YYYYMMDD format"
    },
    "reportDate": {
      "type": "string",
      "description": "Reporting
        date for the shift in
        YYYYMMDD format, adjusted
        for shift spanning
        midnight"
    }
  },
  "additionalProperties": false
},
"counterData": {
  "type": "array",
  "description": "Per-counter
    production rows linked to a unit
    data row",
  "items": {
    "type": "object",
    "required": ["counterId",
      "counterName", "unitDataId",
      "unitsCount", "unitsRejected"],

    "properties": {
      "counterId": {
        "type": "string",
        "description": "Unique
          identifier for the counter
          row"
      },
      "counterName": {
        "type": "string",
        "description": "Name of the
          counter"
      },
      "unitDataId": {
        "type": "string",
        "description": "Reference to
          associated unit data row"
      },
      "unitsCount": {
        "type": "number",
        "description": "Number of
          units produced for the
          counter"
      },
      "unitsRejected": {
        "type": "number",
        "description": "Number of
          units rejected for the
          counter"
      }
    }
  },
  "additionalProperties": false
},
"unitData": {
  "type": "array",
  "description": "Part order
    production rows for each shift",

```

```

"items": {
  "type": "object",
  "required": ["unitDataId",
    "unitId", "unitName",
    "shiftId", "startTimeUnit",
    "endTimeUnit",
    "speedUnitsHour"],
  "properties": {
    "unitDataId": {
      "type": "string",
      "description": "Unique
        identifier for the unit
        data row"
    },
    "unitId": {
      "type": "string",
      "format": "uuid",
      "description": "Reference to
        associated part order
        number"
    },
    "unitName": {
      "type": "string",
      "description": "Name of the
        part order"
    },
    "shiftId": {
      "type": "string",
      "format": "uuid",
      "description": "Reference to
        associated shift"
    },
    "startTimeUnit": {
      "type": "string",
      "format": "date-time",
      "description": "Start time
        of production for the part
        order"
    },
    "endTimeUnit": {
      "type": "string",
      "format": "date-time",
      "description": "End time of
        production for the part
        order"
    },
    "speedUnitsHour": {
      "type": "integer",
      "description": "Expected
        speed in units per hour
        for the part order"
    }
  },
  "additionalProperties": false
},
"wasteData": {
  "type": "array",
  "description": "Waste time event
    rows recorded during the shifts",
  "items": {
    "type": "object",
    "required": [
      "shiftId",
      "wasteId",
      "wasteConfigurationId",

```

```

"wasteConfigurationName",
"wasteParentId",
"wasteParentName",
"wasteParentString",
"wasteCategoryId",
"wasteCategoryName",
"isPlanned",
"durationInSecWasteInShift",
"startTimeWasteInShift",
"stopTimeWasteInShift",
"wasteComment",
"unitDataId"
],
"properties": {
  "shiftId": {
    "type": "string",
    "format": "uuid",
    "description": "Reference to
      associated shift"
  },
  "wasteId": {
    "type": "string",
    "format": "uuid",
    "description": "Unique
      identifier for the waste
      time event"
  },
  "wasteConfigurationId": {
    "type": "string",
    "format": "uuid",
    "description": "Reference to
      associated waste
      configuration"
  },
  "wasteConfigurationName": {
    "type": ["string", "null"],
    "description": "Name of the
      waste configuration"
  },
  "wasteParentId": {
    "type": "string",
    "format": "uuid",
    "description": "Reference to
      the parent waste folder"
  },
  "wasteParentName": {
    "type": "string",
    "description": "Name of the
      parent waste folder"
  },
  "wasteParentString": {
    "type": "string",
    "description":
      "Semicolon-separated path
      of parent waste folder
      names from root to leaf"
  },
  "wasteCategoryId": {
    "type": "string",
    "format": "uuid",
    "description": "Reference to
      associated waste category"
  },
  "wasteCategoryName": {
    "type": "string",
    "description": "Name of the
      waste category"
  }
},

```

```

    "isPlanned": {
      "type": "boolean",
      "description": "Flag
        indicating if the waste is
        planned"
    },
    "durationInSecWasteInShift": {
      "type": "integer",
      "minimum": 0,
      "description": "Duration of
        the waste within the shift
        in seconds"
    },
    "startTimeWasteInShift": {
      "type": "string",
      "format": "date-time",
      "description": "Start time
        of the waste within the
        shift"
    },
    "stopTimeWasteInShift": {
      "type": "string",
      "format": "date-time",
      "description": "End time of
        the waste within the
        shift"
    },
    "wasteComment": {
      "type": "string",
      "description": "Comment
        entered for the waste
        event"
    },
    "unitDataId": {
      "type": ["string", "null"],
      "description": "Reference to
        associated unit data row,
        if applicable"
    }
  },
  "additionalProperties": false
},
"operatorData": {
  "type": "array",
  "description": "Operator presence
    rows recorded during the shifts",

  "items": {
    "type": "object",
    "required": ["shiftId",
      "operatorCount",
      "startTimeInShift"],
    "properties": {
      "shiftId": {
        "type": "string",
        "format": "uuid",
        "description": "Reference to
          associated shift"
      },
      "operatorCount": {
        "type": "integer",
        "minimum": 0,
        "description": "Number of
          operators present"
      },
      "startTimeInShift": {

```

```

        "type": "string",
        "format": "date-time",
        "description": "Start time
                        of the operator presence
                        within the shift"
    },
    },
    "additionalProperties": false
}
},
"machineSettings": {
    "type": "object",
    "description": "Machine settings
                    keyed by machine identifier",
    "additionalProperties": {
        "type": "object",
        "description": "Settings for a
                        single machine, keyed by
                        setting name",
        "properties": {
            "OEEtarget": {
                "type": "string",
                "format": "integer",
                "description": "OEE target
                                as a whole-number
                                percentage"
            },
            "PerformanceTarget": {
                "type": "string",
                "format": "integer",
                "description": "Performance
                                target as a whole-number
                                percentage"
            },
            "QualityTarget": {
                "type": "string",
                "format": "integer",
                "description": "Quality
                                target as a whole-number
                                percentage"
            },
            "AvailabilityTarget": {
                "type": "string",
                "format": "integer",
                "description": "Availability
                                target as a whole-number
                                percentage"
            },
            "OEEtargetAsDecimal": {
                "type": "string",
                "description": "OEE target
                                expressed as a decimal
                                between 0 and 1"
            },
            "PerformanceTargetAsDecimal": {
                "type": "string",
                "description": "Performance
                                target expressed as a
                                decimal between 0 and 1"
            },
            "QualityTargetAsDecimal": {
                "type": "string",
                "description": "Quality
                                target expressed as a
                                decimal between 0 and 1"
            },
            "AvailabilityTargetAsDecimal":

```

```

{
  "type": "string",
  "description": "Availability
    target expressed as a
    decimal between 0 and 1"
},
"ExpectedSpeed": {
  "type": "string",
  "description": "Expected
    machine speed in units per
    hour"
},
"IoTHubId": {
  "type": ["string", "null"],
  "description": "IoT Hub
    identifier of the device
    attached to the machine,
    if applicable"
}
},
"additionalProperties": false
}
},
"additionalProperties": false
}

```

14. Export individual runtime and downtime events

API

GET /DataExport/GetEventExport

URL

[https://dataexport.optipeople.dk/api/DataExport/GetEventExport?access_code=<String>\[&machineId=<Guid>\[&from=<DateTime>\[&to=<DateTime>\]\]\]](https://dataexport.optipeople.dk/api/DataExport/GetEventExport?access_code=<String>[&machineId=<Guid>[&from=<DateTime>[&to=<DateTime>]]])

Parameters

- **[Optional] machineId:** Unique identifier of a machine to include in the export, e.g. c4e80c24-1fc1-47a4-4977-08d93ba4b9b0. May be repeated to include multiple machines. If omitted, all machines on the caller's account are included.
- **[Optional] from:** Start of the period to export, format yyyy-MM-dd. Defaults to today.
- **[Optional] to:** End of the period to export, format yyyy-MM-dd. The day is treated as inclusive (extended to 23:59:59). Defaults to the start of tomorrow. The total span between from and to may not exceed one year.

Returns

Response schema

```

{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "type": "array",
  "description": "List of machine state
    reports, one entry per requested
    machine",
  "items": {
    "type": "object",
    "required": ["machineId", "events"],
    "properties": {
      "machineId": {
        "type": "string",
        "format": "uuid",
        "description": "Unique
          identifier for the machine"
      },
      "events": {
        "type": "array",
        "description": "Runtime and
          downtime events recorded for
          the machine within the
          requested period",
        "items": {
          "type": "object",
          "required": ["eventStart",
            "eventCategory", "eventId",
            "shiftName",
            "durationInSeconds"],
          "properties": {
            "eventStart": {
              "type": "string",

```

```

        "format": "date-time",
        "description": "Start time
          of the event"
      },
      "eventEnd": {
        "type": ["string", "null"],

        "format": "date-time",
        "description": "End time
          of the event, if the
          event has ended"
      },
      "eventCategory": {
        "type": "string",
        "enum": ["RunTime",
          "DownTime"],
        "description": "Category
          of the event"
      },
      "eventId": {
        "type": "string",
        "format": "uuid",
        "description": "Unique
          identifier for the
          event"
      },
      "shiftName": {
        "type": "string",
        "description": "Name of
          the shift during which
          the event occurred"
      },
      "shiftId": {
        "type": ["string", "null"],

        "format": "uuid",
        "description": "Reference
          to associated shift, if
          applicable"
      },
      "durationInSeconds": {
        "type": "integer",
        "minimum": 0,
        "description": "Duration
          of the event in seconds"
      }
    },
    "additionalProperties": false
  }
},
"additionalProperties": false
}

```

15. Export heartbeats for machines

API

GET /DataExport/GetHeartbeats

URL

https://dataexport.optipeople.dk/api/DataExport/GetHeartbeats?access_code=<String>

Returns

Response schema

```

{
  "$schema": "http://json-schema.org/draft-07/schema#"
}

```

```
ing>[&$skip=<Integer>[&$top=<Integer>[
&$filter=<String>[&$orderby=<String>]]
]]
```

This endpoint is an OData passthrough. See <https://www.odata.org/documentation/> for the full query syntax. A maximum of 10000 records is returned in a single request — use \$skip and \$top to page through larger result sets.

Example query:

```
?$skip=1000&$top=1000&$filter=ioTHubId
eq 'deviceabc'&$orderby=timeOfOccurren
ce desc
```

```
"type": "array",
"description": "List of heartbeat
records emitted by machine IoT
devices",
"items": {
  "type": "object",
  "required": [
    "ioTHubId",
    "timeOfOccurrence",
    "messageTime",
    "id",
    "createdDate",
    "updatedAt"
  ],
  "properties": {
    "ioTHubId": {
      "type": "string",
      "description": "Identifier of
the IoT Hub device that sent
the heartbeat"
    },
    "machineId": {
      "type": ["string", "null"],
      "format": "uuid",
      "description": "Reference to
associated machine, if
applicable"
    },
    "timeOfOccurrence": {
      "type": "string",
      "format": "date-time",
      "description": "Time when the
heartbeat occurred on the
device"
    },
    "messageTime": {
      "type": "string",
      "format": "date-time",
      "description": "Time when the
heartbeat message was
received"
    },
    "id": {
      "type": "string",
      "format": "uuid",
      "description": "Unique
identifier for the heartbeat
record"
    },
    "createdDate": {
      "type": "string",
      "format": "date-time",
      "description": "Date and time
when the heartbeat record was
created"
    },
    "updatedAt": {
      "type": "string",
      "format": "date-time",
      "description": "Date and time
when the heartbeat record was
last updated"
    }
  },
  "additionalProperties": false
}
```

16. Get hours spent for a machine between two telemetry thresholds

API

GET

/DataExport/GetHoursSpentBetweenTelemetryThresholds

URL

https://dataexport.optipeople.dk/api/DataExport/GetHoursSpentBetweenTelemetryThresholds?access_code=<String>&machineId=<Guid>¶meter=<String>&from=<DateTime>&threshold1=<Decimal>&threshold2=<Decimal>[&to=<DateTime>]

Parameters

- **[Required] machineld:** Unique identifier of the machine to analyse, e.g. c4e80c24-1fc1-47a4-4977-08d93ba4b9b0
- **[Required] parameter:** Name of the telemetry parameter to evaluate against the thresholds
- **[Required] from:** Start of the period to analyse, in the factory's local time, e.g. 2025-06-01T00:00:00
- **[Required] threshold1:** Lower threshold (or upper threshold when threshold1 is greater than threshold2). A telemetry value at or above threshold1 is considered within the threshold range
- **[Required] threshold2:** Upper bound of the threshold range. When threshold1 is less than threshold2, a value is within range only while strictly below threshold2
- **[Optional] to:** End of the period to analyse, in the factory's local time. Defaults to the factory's current date and time when omitted

Returns

Response schema

```
{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "type": "object",
  "description": "Aggregated time the machine spent within and outside the configured telemetry threshold range over the requested period",
  "required": [
    "timeWithinThresholdHours",
    "timeOutsideThresholdHours",
    "totalPeriodHours",
    "threshold1Passes",
    "threshold2Passes",
    "initialStateWithinThreshold",
    "finalStateWithinThreshold",
    "longestPeriodWithinThresholdInHours",
    "longestPeriodOutsideThresholdInHours"
  ],
  "properties": {
    "timeWithinThresholdHours": {
      "type": "number",
      "minimum": 0,
      "description": "Total time the telemetry value stayed within the threshold range, in hours"
    },
    "timeOutsideThresholdHours": {
      "type": "number",
      "minimum": 0,
      "description": "Total time the telemetry value stayed outside the threshold range, in hours"
    },
    "totalPeriodHours": {
      "type": "number",
      "minimum": 0,
      "description": "Total length of the analysed period, in hours"
    },
    "threshold1Passes": {
      "type": "integer",
      "minimum": 0,
      "description": "Number of times the telemetry value crossed threshold1"
    },
    "threshold2Passes": {
      "type": "integer",
      "minimum": 0,
      "description": "Number of times the telemetry value crossed threshold2"
    },
    "initialStateWithinThreshold": {
      "type": "boolean",
      "description": "Flag indicating if"
    }
  }
}
```

```

        the telemetry value was within
        the threshold range at the start
        of the period"
    },
    "finalStateWithinThreshold": {
        "type": "boolean",
        "description": "Flag indicating if
        the telemetry value was within
        the threshold range at the end
        of the period"
    },
    "longestPeriodWithinThresholdInHours": {
        "type": "number",
        "minimum": 0,
        "description": "Longest continuous
        period the telemetry value
        stayed within the threshold
        range, in hours"
    },
    "longestPeriodOutsideThresholdInHours": {
        "type": "number",
        "minimum": 0,
        "description": "Longest continuous
        period the telemetry value
        stayed outside the threshold
        range, in hours"
    }
  },
  "additionalProperties": false
}

```

17. Export the latest stop for a machine

API	Returns
GET /DataExport/GetLatestStop URL <code>https://dataexport.optipeople.dk/api/DataExport/GetLatestStop?access_code=<String>&machineId=<Guid></code> Parameters • [Required] machineId: Unique identifier of the machine to look up the latest stop for, e.g. c4e80c24-1fc1-47a4-4977-08d93ba4b9b0	Response schema <pre> { "\$schema": "http://json-schema.org/draft-07/schema#", "type": "object", "description": "Latest waste time (stop) event recorded for the machine", "required": ["s"], "properties": { "s": { "type": "string", "format": "date-time", "description": "Start time of the latest stop" }, "e": { "type": ["string", "null"], "format": "date-time", "description": "End time of the latest stop, if the stop has ended" }, "r": { "type": ["string", "null"], "format": "uuid", "description": "Reference to the </pre>

```

        waste configuration (stop
        reason) associated with the stop,
        if applicable"
    }
  },
  "additionalProperties": false
}

```

18. Export OEE, performance and quality KPIs for one or more machines

API

GET /DataExport/GetOEE

URL

`https://dataexport.optipeople.dk/api/DataExport/GetOEE?access_code=<String>&machineId=<Guid>[&machineId=<Guid>...][&from=<DateTime>[&to=<DateTime>[&includePerShiftData=<Boolean>]]]`

Parameters

- **[Required] machineId**: Unique identifier of the machine to report on, e.g. c4e80c24-1fc1-47a4-4977-08d93ba4b9b0. Repeat the parameter to request multiple machines in a single call.
- **[Optional] from**: Start of the reporting window, format yyyy-MM-dd. Defaults to today (midnight). The window may not exceed one year.
- **[Optional] to**: End of the reporting window, format yyyy-MM-dd. Defaults to today (end of day). The window may not exceed one year.
- **[Optional] includePerShiftData**: Flag indicating if per-shift KPI breakdowns should be included in shiftIdentifierData. Defaults to false.

Returns

Response schema

```

{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "type": "object",
  "description": "OEE, performance, quality and average uptime KPIs aggregated per machine for the requested time window",
  "required": ["startDate", "endDate", "machines"],
  "properties": {
    "startDate": {
      "type": "string",
      "format": "date-time",
      "description": "Start time of the reporting window"
    },
    "endDate": {
      "type": "string",
      "format": "date-time",
      "description": "End time of the reporting window"
    },
    "machines": {
      "type": "array",
      "description": "KPI results, one entry per requested machine",
      "items": {
        "type": "object",
        "required": ["machineId", "avg", "oe", "perf", "qlty", "shiftIdentifierData"],
        "properties": {
          "machineId": {
            "type": "string",
            "format": "uuid",
            "description": "Reference to the machine"
          },
          "avg": {
            "type": "number",
            "minimum": 0,
            "maximum": 100,
            "description": "Average uptime for the machine in the reporting window, as a percentage"
          },
          "oe": {
            "type": "number",
            "minimum": 0,

```

```

    "maximum": 100,
    "description": "Overall
    Equipment Effectiveness
    for the machine in the
    reporting window, as a
    percentage"
  },
  "perf": {
    "type": "number",
    "minimum": 0,
    "maximum": 100,
    "description": "Performance
    for the machine in the
    reporting window, as a
    percentage"
  },
  "qlty": {
    "type": "number",
    "minimum": 0,
    "maximum": 100,
    "description": "Quality for
    the machine in the
    reporting window, as a
    percentage"
  },
  "shiftIdentifierData": {
    "type": "array",
    "description": "Per-shift
    KPI breakdown for the
    machine, populated only
    when includePerShiftData
    is true",
    "items": {
      "type": "object",
      "required": ["label",
        "avg", "oeo", "perf",
        "qlty"],
      "properties": {
        "shiftIdentifierId": {
          "type": ["string",
            "null"],
          "format": "uuid",
          "description":
            "Reference to the
            shift identifier, if
            applicable"
        },
        "label": {
          "type": "string",
          "description": "Name
            of the shift
            identifier"
        },
        "avg": {
          "type": "number",
          "minimum": 0,
          "maximum": 100,
          "description":
            "Average uptime for
            the shift, as a
            percentage"
        },
        "oeo": {
          "type": "number",
          "minimum": 0,
          "maximum": 100,
          "description":
            "Overall Equipment

```

```

        Effectiveness for
        the shift, as a
        percentage"
    },
    "perf": {
        "type": "number",
        "minimum": 0,
        "maximum": 100,
        "description":
            "Performance for the
            shift, as a
            percentage"
    },
    "qlty": {
        "type": "number",
        "minimum": 0,
        "maximum": 100,
        "description":
            "Quality for the
            shift, as a
            percentage"
    }
},
"additionalProperties":
    false
}
},
"additionalProperties": false
}
},
"additionalProperties": false
}
}

```

19. Export order-based production data with waste time allocation

API

GET /DataExport/GetOrderReportExport

URL

`https://dataexport.optipeople.dk/api/DataExport/GetOrderReportExport?access_code=<String>&machineId=<Guid>[&machineId=<Guid>...][&from=<DateTime>[&to=<DateTime>]]`

Parameters

- **[Required] machineId**: Unique identifier of the machine to export orders for. Repeat the parameter to query multiple machines, e.g. c4e80c24-1fc1-47a4-4977-08d93ba4b9b0
- **[Optional] from**: Start of the export window (inclusive). Defaults to today at 00:00. Format yyyy-MM-dd or full ISO date-time
- **[Optional] to**: End of the export window (inclusive). Defaults to today. Format yyyy-MM-dd or full ISO date-time. The range between from and to may not exceed one year

Returns

Response schema

```

{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "type": "array",
  "description": "Order-based production records for the requested machines and time range, one entry per part order on each machine",
  "items": {
    "type": "object",
    "required": [
      "machineId",
      "machineName",
      "partInformationId",
      "partOrderNumberId",
      "startTime",
      "shiftTimeInSeconds",
      "totalDownTimeInSeconds",
      "expectedSpeed",
      "wasteInformation",
      "counters"
    ],
    "properties": {
      "machineId": {

```

```

    "type": "string",
    "format": "uuid",
    "description": "Reference to the
    machine that produced the
    order"
  },
  "machineName": {
    "type": "string",
    "description": "Name of the
    machine"
  },
  "shiftId": {
    "type": ["string", "null"],
    "format": "uuid",
    "description": "Reference to the
    shift the order was produced
    on, if applicable"
  },
  "shiftIdentifierId": {
    "type": ["string", "null"],
    "format": "uuid",
    "description": "Reference to the
    shift identifier the order was
    produced on, if applicable"
  },
  "shiftIdentifierName": {
    "type": ["string", "null"],
    "description": "Name of the
    shift identifier the order was
    produced on, if applicable"
  },
  "partInformationId": {
    "type": "string",
    "format": "uuid",
    "description": "Unique
    identifier for the part
    information record"
  },
  "partOrderNumberId": {
    "type": "string",
    "format": "uuid",
    "description": "Reference to the
    part order number"
  },
  "partOrderName": {
    "type": ["string", "null"],
    "description": "Name of the part
    order, if assigned"
  },
  "startTime": {
    "type": "string",
    "format": "date-time",
    "description": "Start time of
    the order on the machine"
  },
  "endTime": {
    "type": ["string", "null"],
    "format": "date-time",
    "description": "End time of the
    order on the machine, if the
    order has ended"
  },
  "shiftTimeInSeconds": {
    "type": "integer",
    "minimum": 0,
    "description": "Duration of the
    order in seconds"
  },

```

```

"totalDowntimeInSeconds": {
  "type": "integer",
  "minimum": 0,
  "description": "Total down time
    during the order in seconds"
},
"expectedSpeed": {
  "type": "number",
  "minimum": 0,
  "description": "Expected
    production speed for the part
    on the machine"
},
"wasteInformation": {
  "type": "array",
  "description": "Waste time
    events that occurred during
    the order",
  "items": {
    "type": "object",
    "required": [
      "wasteTimeStart",
      "wasteTimeEnd",
      "wasteTimeInSeconds",
      "isPlanned"
    ],
    "properties": {
      "wasteTimeStart": {
        "type": "string",
        "format": "date-time",
        "description": "Start time
          of the waste event"
      },
      "wasteTimeEnd": {
        "type": "string",
        "format": "date-time",
        "description": "End time
          of the waste event"
      },
      "wasteTimeInSeconds": {
        "type": "integer",
        "minimum": 0,
        "description": "Duration
          of the waste event in
          seconds"
      },
      "wasteConfigurationId": {
        "type": ["string", "null"],

        "format": "uuid",
        "description": "Reference
          to the waste
          configuration (stop
          reason) associated with
          the event, if
          applicable"
      },
      "wasteConfigurationName": {
        "type": ["string", "null"],

        "description": "Name of
          the waste configuration
          (stop reason), if
          applicable"
      },
      "isPlanned": {
        "type": "boolean",

```

	<pre> "description": "Flag indicating if the waste event is a planned stop" }, "additionalProperties": false }, "counters": { "type": "array", "description": "Per-counter production totals for the order", "items": { "type": "object", "required": ["counterName", "produced", "rejected", "total"], "properties": { "counterName": { "type": ["string", "null"], "description": "Name of the counter" }, "produced": { "type": "number", "description": "Number of units produced on the counter during the order" }, "rejected": { "type": "number", "description": "Number of units rejected on the counter during the order" }, "total": { "type": "number", "description": "Sum of produced and rejected units on the counter during the order" } } }, "additionalProperties": false } }, "additionalProperties": false }</pre>
--	---

20. Export TPM alerts for one or more machines	
API	Returns
GET /DataExport/GetTPMAAlertsExport URL https://dataexport.optipeople.dk/api/DataExport/GetTPMAAlertsExport?access_code	Response schema <pre>{ "\$schema": "http://json-schema.org/draft-07/schema#", </pre>

```
=<String>&machineId=<Guid>[&machineId=
<Guid>...][&from=<DateTime>[&to=<DateT
ime>]]
```

Parameters

- **[Required] machineId**: Unique identifier of the machine to export TPM alerts for, e.g. c4e80c24-1fc1-47a4-4977-08d93ba4b9b0. Repeat the parameter to include several machines in one request.
- **[Optional] from**: Start of the export period (yyyy-MM-dd). Defaults to today.
- **[Optional] to**: End of the export period (yyyy-MM-dd). Defaults to today. The range may not exceed one year.

```
"type": "array",
"description": "List of TPM alerts for
the requested machines and time
range",
"items": {
  "type": "object",
  "required": [
    "tpmName",
    "tpmInfo",
    "tpmStartTime",
    "tpmType",
    "tpmEmail",
    "tpmSigned",
    "machineId",
    "tpmEventId"
  ],
  "properties": {
    "tpmName": {
      "type": "string",
      "description": "Name of the TPM"
    },
    "tpmInfo": {
      "type": "string",
      "description": "Additional
information describing the
TPM"
    },
    "tpmStartTime": {
      "type": "string",
      "format": "date-time",
      "description": "Start time of
the TPM"
    },
    "tpmType": {
      "type": "string",
      "enum": ["Time",
"ProductionHour",
"UnitCounter"],
      "description": "Type of TPM
trigger"
    },
    "tpmEmail": {
      "type": "string",
      "format": "email",
      "description": "Email address
notified for the TPM"
    },
    "tpmSigned": {
      "type": "boolean",
      "description": "Flag indicating
if the TPM alert has been
signed off"
    },
    "tpmSignedTimeOfOccurrence": {
      "type": ["string", "null"],
      "format": "date-time",
      "description": "Time when the
TPM was signed off, if
applicable"
    },
    "tpmTimeOfOccurrence": {
      "type": ["string", "null"],
      "format": "date-time",
      "description": "Time when the
TPM alert occurred, if
applicable"
    },
    "machineId": {
```

```

    "type": "string",
    "format": "uuid",
    "description": "Reference to
        associated machine"
  },
  "tpmEventId": {
    "type": "string",
    "format": "uuid",
    "description": "Unique
        identifier for the TPM event"
  },
  "timePassedSinceLastAlarm": {
    "type": ["integer", "null"],
    "minimum": 0,
    "description": "Time elapsed
        since the last alarm, in
        seconds"
  },
  "remainingUnitsToNextAlarm": {
    "type": ["number", "null"],
    "minimum": 0,
    "description": "Remaining units
        before the next alarm,
        returned when tpmType is
        UnitCounter"
  },
  "remainingProductionHoursToNextAlarm": {
    "type": ["integer", "null"],
    "minimum": 0,
    "description": "Remaining
        production hours before the
        next alarm, returned when
        tpmType is ProductionHour"
  },
  "timeToNextAlarm": {
    "type": ["integer", "null"],
    "minimum": 0,
    "description": "Time remaining
        until the next alarm in
        seconds, returned when tpmType
        is Time"
  }
},
"additionalProperties": false
}

```

21. Query raw telemetry rows for a machine using OData

API	Returns
GET /DataExport/GetTelemetry This endpoint accepts OData v4 query options. Construct the query string using standard OData operators (\$filter, \$orderby, \$skip, \$top, \$count). See https://www.odata.org/documentation/ for the full specification. URL <code>https://dataexport.optipeople.dk/api/DataExport/GetTelemetry?access_code=<Stri</code>	Response schema <pre> { "\$schema": "http://json-schema.org/draft-07/schema#", "type": "object", "required": ["value"], "properties": { "@odata.count": { "type": "integer", "description": "Total number of rows matching the filter, included only when \$count=true" } } } </pre>

```
ng>[&$filter=<String>[&$orderby=<String>[&$skip=<Integer>[&$top=<Integer>[&$count=<Boolean>]]]]]
```

Example

```
https://dataexport.optipeople.dk/api/DataExport/GetTelemetry?access_code=<String>&$filter=DeviceId eq 'deviceabc' and InternalName eq 'temperature'&$orderby=TimeStamp desc&$skip=1000&$top=1000&$count=true
```

Parameters

- **[Optional] \$filter:** OData filter expression applied to the telemetry rows (e.g. DeviceId eq 'device123' and InternalName eq 'temperature')
- **[Optional] \$orderby:** OData sort expression (e.g. TimeStamp desc)
- **[Optional] \$skip:** Number of records to skip for pagination
- **[Optional] \$top:** Maximum number of records to return (capped at 10000)
- **[Optional] \$count:** Set to true to include the total matching row count as @odata.count in the response

```
was requested",
"minimum": 0
},
"@odata.nextLink": {
"type": "string",
"description": "Absolute URL to fetch the next page of results, included only when more pages are available"
},
"value": {
"type": "array",
"description": "Telemetry rows matching the OData query",
"items": {
"type": "object",
"required": ["id", "deviceId", "internalName", "timeStamp", "valueType"],
"properties": {
"id": {
"type": "string",
"format": "uuid",
"description": "Unique identifier for the telemetry row"
},
"deviceId": {
"type": ["string", "null"],
"description": "Identifier of the device that produced the telemetry"
},
"internalName": {
"type": ["string", "null"],
"description": "Internal name of the telemetry parameter"
},
"timeStamp": {
"type": "string",
"format": "date-time",
"description": "Time when the telemetry value was recorded"
},
"valueType": {
"type": "integer",
"description": "Type of the recorded value (0 = Int, 1 = Decimal, 2 = String)",
"minimum": 0
},
"valueInt": {
"type": ["integer", "null"],
"description": "Integer value, if valueType is Int"
},
"valueDec": {
"type": ["number", "null"],
"description": "Decimal value, if valueType is Decimal"
},
"valueString": {
"type": ["string", "null"],
"description": "String value,
```

```

        if valueType is String"
      }
    },
    "additionalProperties": false
  }
},
"additionalProperties": false
}

```

22. Export telemetry samples for a machine parameter

API	Returns
GET /DataExport/GetTelemetryData URL <a href="https://dataexport.optipeople.dk/api/DataExport/GetTelemetryData?access_code=<String>&machineId=<Guid>&parameter=<String>&from=<DateTime>&to=<DateTime>">https://dataexport.optipeople.dk/api/DataExport/GetTelemetryData?access_code=<String>&machineId=<Guid>&parameter=<String>&from=<DateTime>&to=<DateTime> Parameters • [Required] machineId: Unique identifier for the machine to query, e.g. c4e80c24-1fc1-47a4-4977-08d93ba4b9b0 • [Required] parameter: Name of the telemetry parameter (friendly name) to return samples for • [Required] from: Start of the time range to query, ISO 8601 date-time • [Required] to: End of the time range to query, ISO 8601 date-time	Response schema <pre> { "\$schema": "http://json-schema.org/draft-07/schema#", "type": "array", "description": "List of telemetry samples for the requested machine and parameter within the given time range", "items": { "type": "object", "required": ["time", "value"], "properties": { "time": { "type": "string", "format": "date-time", "description": "Time when the telemetry sample was recorded" }, "value": { "description": "Measured value at the given timestamp", "oneOf": [{ "type": "number" }, { "type": "string" }, { "type": "integer" }, { "type": "null" }] } } }, "additionalProperties": false } </pre>

Report

23. Get the current unit information for a machine

API	Returns
GET /Report/CurrentUnitInformation	Response schema

URL

`https://dataexport.optipeople.dk/api/Report/CurrentUnitInformation?access_code=<String>&machineId=<Guid>`

Parameters

- **[Required] machineId**: Unique identifier of the machine to look up the latest part information for, e.g. c4e80c24-1fc1-47a4-4977-08d93ba4b9b0

```
{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "type": "object",
  "required": ["data", "errors", "meta"],

  "properties": {
    "data": {
      "type": "object",
      "description": "Latest part information currently running on the machine",
      "required": ["partInfoId", "partOrderNoId", "startTime", "customFields"],
      "properties": {
        "partInfoId": { "type": "string", "format": "uuid", "description": "Unique identifier for the part information record" },
        "partOrderNoId": { "type": "string", "format": "uuid", "description": "Reference to associated part order number" },
        "partOrderNumber": { "type": ["string", "null"], "description": "Part order number assigned to the unit" },

        "identifierType": { "type": ["string", "null"], "description": "Identifier type of the part order (e.g. PartOrderNumber, Recipe, Article)" },
        "startTime": { "type": "string", "format": "date-time", "description": "Start time of the part information" },
        "endTime": { "type": ["string", "null"], "format": "date-time", "description": "End time of the part information, if applicable" },
        "customFields": {
          "type": "array",
          "description": "Custom fields associated with the part order",
          "items": {
            "type": "object",
            "required": ["name", "value"],
            "properties": {
              "name": { "type": "string", "description": "Name of the custom field" },
              "value": { "type": "string", "description": "Value of the custom field" }
            }
          },
          "additionalProperties": false
        }
      }
    }
  }
}
```

```

    }
  },
  "additionalProperties": false
},
"errors": { "type": "array",
  "description": "List of any errors
  that occurred" },
"meta": { "type": "object",
  "description": "Additional
  metadata about the response" }
},
"additionalProperties": false
}

```

24. Export part counter daily report for a machine

API	Returns
GET /Report/ExternalExportUnitCounter URL <code>https://dataexport.optipeople.dk/api/Report/ExternalExportUnitCounter?access_code=<String>&machineId=<Guid>&startDate=<DateTime>[&friendName=<String>[&endDate=<DateTime>]]</code> Parameters • [Required] machineId: Unique identifier of the machine to export part counter data for, e.g. c4e80c24-1fc1-47a4-4977-08d93ba4b9b0 • [Required] startDate: Start of the reporting period (inclusive), format yyyy-MM-ddTHH:mm:ss • [Optional] friendName: Friendly name of the unit counter to filter on. When omitted, all unit counters for the machine are included • [Optional] endDate: End of the reporting period (inclusive), format yyyy-MM-ddTHH:mm:ss	Response schema <pre> { "\$schema": "http://json-schema.org/draft-07/schema#", "type": "object", "required": ["data", "errors", "meta"], "properties": { "data": { "type": "array", "description": "Daily part counter totals grouped by machine and unit counter", "items": { "type": "object", "required": ["machineId", "friendName", "values"], "properties": { "machineId": { "type": "string", "format": "uuid", "description": "Reference to the machine" }, "friendName": { "type": ["string", "null"], "description": "Friendly name of the unit counter" }, "values": { "type": "array", "description": "Daily totals for the unit counter within the reporting period", "items": { "type": "object", "required": ["startTime", "endTime", "produced", "rejected"], "properties": { "startTime": { "type": "string", "format": "date-time", "description": "Start </pre>

	<pre> time of the daily interval" }, "endTime": { "type": "string", "format": "date-time", "description": "End time of the daily interval" }, "produced": { "type": "number", "description": "Total units produced during the interval", "minimum": 0 }, "rejected": { "type": "number", "description": "Total units rejected during the interval", "minimum": 0 } }, "additionalProperties": false } }, "additionalProperties": false } }, "errors": { "type": "array", "description": "List of any errors that occurred" }, "meta": { "type": "object", "description": "Additional metadata about the response" } }, "additionalProperties": false }</pre>
--	---

25. Export produced units per hour for a machine	
API	Returns
GET /Report/ExternalExportUnitCounterPerHour URL https://dataexport.optipeople.dk/api/Report/ExternalExportUnitCounterPerHour?access_code=<String>&machineId=<Guid>&unitCounterName=<String>&from=<DateTime>&to=<DateTime> Parameters	Response schema <pre>{ "\$schema": "http://json-schema.org/draft-07/schema#", "type": "object", "required": ["data", "errors", "meta"], "properties": { "data": { "type": "array",</pre>

- **[Required] machineId**: Unique identifier for the machine, e.g. c4e80c24-1fc1-47a4-4977-08d93ba4b9b0
- **[Required] unitCounterName**: Friendly name of the unit counter to export
- **[Required] from**: Start of the period to export (yyyy-MM-ddTHH:mm:ss)
- **[Optional] to**: End of the period to export (yyyy-MM-ddTHH:mm:ss). Defaults to the current server time when omitted

```

"description": "Hourly unit counter readings for the requested machine and counter",
"items": {
  "type": "object",
  "required": ["StartTime", "Value", "Added", "Rejected"],
  "properties": {
    "StartTime": { "type": "string", "format": "date-time", "description": "Start time of the one-hour bucket" },
    "Value": { "type": "number", "description": "Net produced units in the hour", "minimum": 0 },
    "Added": { "type": "number", "description": "Total units added in the hour", "minimum": 0 },
    "Rejected": { "type": "number", "description": "Total units rejected in the hour", "minimum": 0 }
  },
  "additionalProperties": false
},
"errors": { "type": "array", "description": "List of any errors that occurred" },
"meta": { "type": "object", "description": "Additional metadata about the response" }
},
"additionalProperties": false
}

```

26. Export unit information for a machine

API

GET /Report/ExternalExportUnitInformation

URL

```
https://dataexport.optipeople.dk/api/Report/ExternalExportUnitInformation?access_code=<String>&machineId=<Guid>[&startDate=<DateTime>[&endDate=<DateTime>[&from=<DateTime>[&to=<DateTime>[&showLatest=<Boolean>]]]]]
```

Parameters

- **[Required] machineId**: Unique identifier of the machine to export unit information for, e.g. c4e80c24-1fc1-47a4-4977-08d93ba4b9b0
- **[Optional] startDate**: Start of the period to export, e.g. 2024-06-01T00:00:00. If omitted, the value of from is used
- **[Optional] endDate**: End of the period to export, e.g. 2024-06-30T23:59:59. If omitted, the value of

Returns

Response schema

```

{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "type": "object",
  "required": ["data", "errors", "meta"],

  "properties": {
    "data": {
      "type": "array",
      "description": "Unit information entries produced on the machine in the requested period",
      "items": {
        "type": "object",
        "required": [
          "partInformationId",
          "partOrderNumberId",
          "timeStart",
          "isDefaultPartInfo",

```

to is used; if both are omitted, the current server time is used

- **[Optional] from:** Alias for startDate, used when startDate is not supplied
- **[Optional] to:** Alias for endDate, used when endDate is not supplied
- **[Optional] showLatest:** When true, returns only the latest unit information for the machine and ignores the date range. If no date parameters and no showLatest value are supplied, the latest entry is returned by default

```

"identifierType",
"expectedSpeed",
"partCounter",
"customFields"
],
"properties": {
  "shiftId": {
    "type": ["string", "null"],
    "format": "uuid",
    "description": "Reference to
the associated shift, if
applicable"
  },
  "shiftIdentifierId": {
    "type": ["string", "null"],
    "format": "uuid",
    "description": "Reference to
the associated shift
identifier, if applicable"
  },
  "partInformationId": {
    "type": "string",
    "format": "uuid",
    "description": "Unique
identifier for the part
information entry"
  },
  "partOrderNumberId": {
    "type": "string",
    "format": "uuid",
    "description": "Reference to
the associated part order
number"
  },
  "timeStart": {
    "type": "string",
    "format": "date-time",
    "description": "Start time
of the unit information
entry"
  },
  "timeEnd": {
    "type": ["string", "null"],
    "format": "date-time",
    "description": "End time of
the unit information entry,
if applicable"
  },
  "isDefaultPartInfo": {
    "type": "boolean",
    "description": "Flag
indicating if this is the
default part information
entry"
  },
  "identifierNumber": {
    "type": ["string", "null"],
    "description": "Identifier
value of the part order"
  },
  "identifierType": {
    "type": "integer",
    "description": "Type of the
part order identifier (0 =
Batch, 1 = PartNo, 2 =
OrderNo)"
  },
  "expectedSpeed": {

```

```

    "type": "integer",
    "description": "Expected
      production speed for the
      unit information entry"
  },
  "firstUnitProduced": {
    "type": ["string", "null"],
    "format": "date-time",
    "description": "Time when
      the first unit was
      produced during the entry,
      if applicable"
  },
  "lastUnitProduced": {
    "type": ["string", "null"],
    "format": "date-time",
    "description": "Time when
      the last unit was produced
      during the entry, if
      applicable"
  },
  "partCounter": {
    "type": "array",
    "description": "Part counter
      totals captured for the
      unit information entry",
    "items": {
      "type": "object",
      "required": ["rejected",
        "produced"],
      "properties": {
        "friendlyName": {
          "type": ["string",
            "null"],
          "description":
            "Friendly name of
            the part counter"
        },
        "rejected": {
          "type": "number",
          "minimum": 0,
          "description": "Number
            of rejected units
            counted"
        },
        "produced": {
          "type": "number",
          "minimum": 0,
          "description": "Number
            of produced units
            counted"
        }
      },
      "scale": {
        "type": ["number",
          "null"],
        "description": "Scale
          applied to the part
          counter, if
          applicable"
      }
    },
    "additionalProperties":
      false
  },
  "customFields": {
    "type": "array",
    "description": "Custom

```

API	Returns
GET /Report/ExternalExportUnitInformationV2 URL <pre>https://dataexport.optipeople.dk/api/Report/ExternalExportUnitInformationV2?access_code=<String>&machineId=<Guid>[&startDate=<DateTime>[&endDate=<DateTime>[&from=<DateTime>[&to=<DateTime>]]]]]</pre> Parameters • [Required] machineId: Unique identifier of the machine to export unit information for, e.g. c4e80c24-1fc1-47a4-4977-08d93ba4b9b0 • [Optional] startDate: Start of the period to export, e.g. 2024-06-01T00:00:00. If omitted, the value of from is used • [Optional] endDate: End of the period to export, e.g. 2024-06-30T23:59:59. If omitted, the value of to is used; if both are omitted, the current server time is used	Response schema <pre>{ "\$schema": "http://json-schema.org/draft-07/schema#", "type": "object", "required": ["data", "errors", "meta"], "properties": { "data": { "type": "object", "description": "Unit information for the machine within the requested period", "required": ["items", "total", "itemPerPage"], "properties": { "items": { "type": "array", "description": "Unit information entries produced on the machine in the" } } } } }</pre>

- **[Optional] from:** Alias for startDate, used when startDate is not supplied
- **[Optional] to:** Alias for endDate, used when endDate is not supplied

```

requested period",
"items": {
  "type": "object",
  "required": ["partInfoId",
    "partOrderNoId",
    "startTime",
    "customFields"],
  "properties": {
    "partInfoId": { "type":
      "string", "format":
        "uuid", "description":
          "Unique identifier for
            the part information
            entry" },
    "partOrderNoId": { "type":
      "string", "format":
        "uuid", "description":
          "Reference to the
            associated part order
            number" },
    "partOrderNumber": {
      "type": ["string",
        "null"], "description":
        "Part order number
        assigned to the unit" },
    "identifierType": { "type":
      ["string", "null"],
      "enum": ["Batch",
        "PartNo", "OrderNo",
        null], "description":
        "Type of the part order
        identifier" },
    "startTime": { "type":
      "string", "format":
        "date-time",
        "description": "Start
        time of the unit
        information entry" },
    "endTime": { "type":
      ["string", "null"],
      "format": "date-time",
      "description": "End time
        of the unit information
        entry, if applicable" },
    "customFields": {
      "type": "array",
      "description": "Custom
        fields captured for
        the unit information
        entry",
      "items": {
        "type": "object",
        "required": ["name",
          "value"],
        "properties": {
          "name": { "type":
            ["string", "null"],
            "description":
              "Name of the
                custom field" },
          "value": { "type":
            ["string", "null"],
            "description":
              "Value of the
                custom field" }
        },
        "additionalProperties":
          false
      }
    }
  }
}

```

```

    }
  },
  "additionalProperties": false
},
{
  "total": { "type": "integer",
    "minimum": 0, "description":
    "Total number of unit
    information entries" },
  "itemPerPage": { "type":
    "integer", "minimum": 0,
    "description": "Number of unit
    information entries per page"
  }
},
{
  "additionalProperties": false
},
{
  "errors": { "type": "array",
    "description": "List of any errors
    that occurred" },
  "meta": { "type": "object",
    "description": "Additional
    metadata about the response" }
},
{
  "additionalProperties": false
}

```

Part Order Number

28. Get part order numbers for a factory

API

GET /PartOrderNumber/ExternalGetByFactoryId

URL

`https://dataexport.optipeople.dk/api/PartOrderNumber/ExternalGetByFactoryId?access_code=<String>&factoryId=<Guid>`

Parameters

- **[Required] factoryId**: Unique identifier for the factory, e.g. c4e80c24-1fc1-47a4-4977-08d93ba4b9b0. If an empty GUID (00000000-0000-0000-0000-000000000000) is supplied, all part order numbers for the caller's account are returned

Returns

Response schema

```

{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "type": "object",
  "required": ["data", "errors", "meta"],

  "properties": {
    "data": {
      "type": "array",
      "description": "Part order numbers
        belonging to the factory",
      "items": {
        "type": "object",
        "required": ["id", "partNumber",
          "factoryName"],
        "properties": {
          "id": {
            "type": "string",
            "format": "uuid",
            "description": "Unique
              identifier for the part
              order number"
          },
          "partNumber": {
            "type": "string",
            "description": "Part order

```

```

        number value"
      },
      "factoryName": {
        "type": "string",
        "description": "Name of the
        factory"
      }
    },
    "additionalProperties": false
  },
  "errors": {
    "type": "array",
    "description": "List of any errors
    that occurred"
  },
  "meta": {
    "type": "object",
    "description": "Additional
    metadata about the response"
  }
},
"additionalProperties": false
}

```

29. Get exact count of units produced between timestamps

API

GET

/PartOrderNumber/ExternalGetUnitsProduced

URL

https://dataexport.optipeople.dk/api/PartOrderNumber/ExternalGetUnitsProduced?access_code=<String>&machineId=<Guid>&counterName=<String>&from=<DateTime>[&to=<DateTime>]

Parameters

- **[Required] machineId:** Unique identifier for the machine, e.g. c4e80c24-1fc1-47a4-4977-08d93ba4b9b0
- **[Required] counterName:** Friendly name of the part counter to aggregate
- **[Required] from:** Start of the time range (ISO 8601, e.g. 2024-01-01T00:00:00)
- **[Optional] to:** End of the time range (ISO 8601). If supplied as a midnight value (00:00:00), it is rounded up to the end of that day

Returns

Response schema

```

{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "type": "object",
  "required": ["data", "errors", "meta"],

  "properties": {
    "data": {
      "type": "array",
      "description": "Aggregated counter
      totals for the machine within
      the requested time range",
      "items": {
        "type": "object",
        "required": ["counter", "sum"],
        "properties": {
          "counter": {
            "type": "string",
            "description": "Name of the
            part counter"
          },
          "sum": {
            "type": "number",
            "description": "Total units
            produced for the counter
            in the requested time
            range",
            "minimum": 0
          }
        }
      },
      "additionalProperties": false
    }
  }
},

```

```

"errors": {
  "type": "array",
  "description": "List of any errors
    that occurred"
},
"meta": {
  "type": "object",
  "description": "Additional
    metadata about the response"
}
},
"additionalProperties": false
}

```

30. Set part order on factory level

API

POST /PartOrderNumber/ExternalSetPartOrder

URL

https://dataexport.optipeople.dk/api/PartOrderNumber/ExternalSetPartOrder?access_code=<String>

Request body

```

{
  "factoryId": "00000000-0000-0000-0000-
    000000000000",
  "partOrderNumber": "string",
  "customFields": [
    { "text": "string", "label":
      "string" }
  ]
}

```

- **factoryId**: Unique identifier for the factory the part order belongs to, e.g. c4e80c24-1fc1-47a4-4977-08d93ba4b9b0
- **partOrderNumber**: Name or number of the part order to create or update
- **customFields**: List of custom text fields to attach to the part order

Returns

Response schema

```

{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "type": "object",
  "required": ["data", "errors", "meta"],

  "properties": {
    "data": {
      "type": "object",
      "description": "Empty object
        returned on success",
      "additionalProperties": false
    },
    "errors": {
      "type": "array",
      "description": "List of any errors
        that occurred",
      "items": {
        "type": "object",
        "required": ["title", "message"],

        "properties": {
          "title": {
            "type": "string",
            "description": "Short error
              identifier"
          },
          "message": {
            "type": "string",
            "description": "Human
              readable error message"
          }
        }
      },
      "additionalProperties": false
    },
    "meta": {
      "type": "object",
      "description": "Additional
        metadata about the response"
    }
  },
  "additionalProperties": false
}

```

Shift Identifier

31. Get all shift identifiers for a factory

API	Returns
GET /ShiftIdentifier/ExternalGetShiftIdentifiers URL https://dataexport.optipeople.dk/api/ShiftIdentifier/ExternalGetShiftIdentifiers?access_code=<String>&factoryId=<Guid> Parameters • [Required] factoryId: Unique identifier of the factory to list shift identifiers for, e.g. c4e80c24-1fc1-47a4-4977-08d93ba4b9b0	Response schema <pre>{ "\$schema": "http://json-schema.org/draft-07/schema#", "type": "object", "required": ["data", "errors", "meta"], "properties": { "data": { "type": "array", "description": "Shift identifiers configured for the factory", "items": { "type": "object", "required": ["id", "name"], "properties": { "id": { "type": "string", "format": "uuid", "description": "Unique identifier for the shift identifier" }, "name": { "type": ["string", "null"], "description": "Name of the shift identifier" } } }, "additionalProperties": false }, "errors": { "type": "array", "description": "List of any errors that occurred" }, "meta": { "type": "object", "description": "Additional metadata about the response" } }, "additionalProperties": false }</pre>

Master Data

32. Create or update a row in a master data table

API	Returns
-----	---------

POST

/MasterData/ExternalCreateOrUpdateRow/{tableId}

URL

https://dataexport.optipeople.dk/api/MasterData/ExternalCreateOrUpdateRow/{tableId}?access_code=<String>

Parameters

- **[Required] tableId:** Unique identifier for the master data table, e.g. c4e80c24-1fc1-47a4-4977-08d93ba4b9b0

Request body

```
{
  "values": {
    "columnName1": "value1",
    "columnName2": "value2"
  }
}
```

The values object maps column names to their values. The body must include a value for every key column defined on the table; the table must contain at least one key column. If a row matching the supplied key values already exists it will be updated, otherwise a new row will be created.

Response schema

```
{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "type": "object",
  "required": ["data", "errors", "meta"],

  "properties": {
    "data": {
      "type": "object",
      "required": ["id", "tableId", "values"],
      "properties": {
        "id": {
          "type": "string",
          "format": "uuid",
          "description": "Unique identifier for the row"
        },
        "tableId": {
          "type": "string",
          "format": "uuid",
          "description": "Reference to the master data table"
        },
        "values": {
          "type": "object",
          "description": "Map of column name to column value for the row",
          "additionalProperties": true
        }
      },
      "additionalProperties": false
    },
    "errors": {
      "type": "array",
      "description": "List of any errors that occurred"
    },
    "meta": {
      "type": "object",
      "description": "Additional metadata about the response"
    }
  },
  "additionalProperties": false
}
```

33. Create a new row in a master data table**API****POST**

/MasterData/ExternalCreateRow/{tableId}

URL

https://dataexport.optipeople.dk/api/MasterData/ExternalCreateRow/{tableId}?access_code=<String>

Parameters**Returns****Response schema**

```
{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "type": "object",
  "required": ["data", "errors", "meta"],

  "properties": {
    "data": {
```

- **[Required] tableId:** Unique identifier for the master data table to insert into, e.g. c4e80c24-1fc1-47a4-4977-08d93ba4b9b0

Request body

```
{
  "values": {
    "columnName": "value"
  }
}
```

Body fields

- **[Required] values:** Map of column name to value for the new row. Keys must match existing column names on the table; value types must match each column's declared data type (String, Int, Decimal, DateTime, Bool, or Lookup row id). At least one entry is required.

```
"type": "object",
"description": "The newly created
row",
"required": ["id", "tableId",
"values"],
"properties": {
  "id": {
    "type": "string",
    "format": "uuid",
    "description": "Unique
identifier for the created
row"
  },
  "tableId": {
    "type": "string",
    "format": "uuid",
    "description": "Reference to
the master data table the
row belongs to"
  },
  "values": {
    "type": "object",
    "description": "Map of column
name to stored value for the
row"
  }
},
"additionalProperties": false
},
"errors": {
  "type": "array",
  "description": "List of any errors
that occurred"
},
"meta": {
  "type": "object",
  "description": "Additional
metadata about the response"
}
},
"additionalProperties": false
}
```

34. Delete a row from a master data table

API	Returns
DELETE MasterData/ExternalDeleteRow/{rowId}	Response schema <pre>{ "\$schema": "http://json-schema.org/draft-07/schema#", "type": "object", "required": ["data", "errors", "meta"], "properties": { "data": { "type": "object", "description": "Empty object on success", "additionalProperties": false }, "errors": { "type": "array",</pre>
URL <a href="https://dataexport.optipeople.dk/api/MasterData/ExternalDeleteRow/{rowId}?access_code=<String>">https://dataexport.optipeople.dk/api/MasterData/ExternalDeleteRow/{rowId}?access_code=<String>	
Parameters • [Required] rowId: Unique identifier for the row to delete, e.g. c4e80c24-1fc1-47a4-4977-08d93ba4b9b0	

```

    "description": "List of any errors
    that occurred"
  },
  "meta": {
    "type": "object",
    "description": "Additional
    metadata about the response"
  }
},
"additionalProperties": false
}

```

35. Get all rows for a master data table

API

GET /MasterData/ExternalGetRows/{tableId}

URL

`https://dataexport.optipeople.dk/api/MasterData/ExternalGetRows/{tableId}?access_code=<String>`

Parameters

- **[Required] tableId**: Unique identifier of the master data table to read rows from, e.g. c4e80c24-1fc1-47a4-4977-08d93ba4b9b0. Supplied as a route segment, not a query parameter

Returns

Response schema

```

{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "type": "object",
  "required": ["data", "errors", "meta"],

  "properties": {
    "data": {
      "type": "array",
      "description": "Rows stored in the
      master data table",
      "items": {
        "type": "object",
        "required": ["id", "tableId",
          "values"],
        "properties": {
          "id": {
            "type": "string",
            "format": "uuid",
            "description": "Unique
            identifier for the row"
          },
          "tableId": {
            "type": "string",
            "format": "uuid",
            "description": "Reference to
            the master data table the
            row belongs to"
          },
          "values": {
            "type": "object",
            "description": "Column
            values for the row, keyed
            by column name. Value
            types depend on each
            column's data type (string,
            integer, number, boolean,
            date-time, or lookup row
            id)"
          }
        }
      },
      "additionalProperties": false
    },
    "errors": {
      "type": "array",

```

```

    "description": "List of any errors
    that occurred"
  },
  "meta": {
    "type": "object",
    "description": "Additional
    metadata about the response"
  }
},
"additionalProperties": false
}

```

36. Get a master data table with its column definitions

API

GET /MasterData/ExternalGetTable/{tableId}

URL

`https://dataexport.optipeople.dk/api/MasterData/ExternalGetTable/{tableId}?access_code=<String>`

Parameters

- **[Required] tableId**: Unique identifier of the master data table to retrieve, e.g. c4e80c24-1fc1-47a4-4977-08d93ba4b9b0

Returns

Response schema

```

{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "type": "object",
  "required": ["data", "errors", "meta"],

  "properties": {
    "data": {
      "type": "object",
      "required": ["id", "name", "friendlyName", "description", "columns"],
      "properties": {
        "id": {
          "type": "string",
          "format": "uuid",
          "description": "Unique
          identifier for the master
          data table"
        },
        "name": {
          "type": "string",
          "description": "Internal name
          of the master data table"
        },
        "friendlyName": {
          "type": "string",
          "description": "Display name
          of the master data table"
        },
        "description": {
          "type": "string",
          "description": "Description of
          the master data table"
        },
        "columns": {
          "type": "array",
          "description": "Column
          definitions for the master
          data table, ordered by sort
          order",
          "items": {
            "type": "object",
            "required": [
              "name",
              "friendlyName",

```

```

    "dataType",
    "sortOrder",
    "isRequired",
    "isUnique",
    "isKey"
  ],
  "properties": {
    "name": {
      "type": "string",
      "description": "Internal
        name of the column"
    },
    "friendlyName": {
      "type": "string",
      "description": "Display
        name of the column"
    },
    "dataType": {
      "type": "string",
      "enum": ["String",
        "Decimal", "Int",
        "DateTime", "Bool",
        "Long", "Lookup"],
      "description": "Data
        type of the column"
    },
    "sortOrder": {
      "type": "integer",
      "description": "Order in
        which the column is
        displayed",
      "minimum": 0
    },
    "lookupTableId": {
      "type": ["string",
        "null"],
      "format": "uuid",
      "description":
        "Reference to the
        lookup table, if the
        column is of type
        Lookup"
    },
    "isRequired": {
      "type": "boolean",
      "description": "Flag
        indicating if the
        column value is
        required"
    },
    "isUnique": {
      "type": "boolean",
      "description": "Flag
        indicating if the
        column value must be
        unique within the
        table"
    },
    "isKey": {
      "type": "boolean",
      "description": "Flag
        indicating if the
        column is part of the
        table's key"
    },
    "sqlTableName": {
      "type": ["string",
        "null"],

```

```

        "description": "Name of
        the backing SQL table,
        if applicable"
      },
      "displayColumn": {
        "type": ["string",
        "null"],
        "description": "Name of
        the column used as the
        display value, if
        applicable"
      }
    },
    "additionalProperties":
      false
  }
},
"additionalProperties": false
},
"errors": {
  "type": "array",
  "description": "List of any errors
  that occurred"
},
"meta": {
  "type": "object",
  "description": "Additional
  metadata about the response"
}
},
"additionalProperties": false
}

```

37. List master data tables and their column definitions for the account

API

GET /MasterData/ExternalGetTables

URL

https://dataexport.optipeople.dk/api/MasterData/ExternalGetTables?access_code=<String>

Parameters

This endpoint takes no additional parameters. The account is resolved from the authenticated caller.

Returns

Response schema

```

{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "type": "object",
  "required": ["data", "errors", "meta"],

  "properties": {
    "data": {
      "type": "array",
      "description": "List of master
      data tables available for the
      account",
      "items": {
        "type": "object",
        "required": ["id", "name",
        "friendlyName", "description",
        "columns"],
        "properties": {
          "id": {
            "type": "string",
            "format": "uuid",
            "description": "Unique
            identifier for the table"
          },

```

```

"name": {
  "type": "string",
  "description": "System name
    of the table"
},
"friendlyName": {
  "type": "string",
  "description": "Human
    readable name of the
    table"
},
"description": {
  "type": "string",
  "description": "Description
    of the table"
},
"columns": {
  "type": "array",
  "description": "Column
    definitions for the table,
    ordered by sort order",
  "items": {
    "type": "object",
    "required": [
      "name",
      "friendlyName",
      "dataType",
      "sortOrder",
      "isRequired",
      "isUnique",
      "isKey",
      "sqlTableName",
      "displayColumn"
    ],
    "properties": {
      "name": {
        "type": "string",
        "description": "System
          name of the column"
      },
      "friendlyName": {
        "type": "string",
        "description": "Human
          readable name of the
          column"
      },
      "dataType": {
        "type": "string",
        "enum": ["String",
          "Decimal", "Int",
          "DateTime", "Bool",
          "Long", "Lookup"],
        "description": "Data
          type of the column"
      },
      "sortOrder": {
        "type": "integer",
        "minimum": 0,
        "description":
          "Display order of
            the column within
            the table"
      },
      "lookupTableId": {
        "type": ["string",
          "null"],
        "format": "uuid",
        "description":

```

```

        "Reference to the
        lookup table, if the
        column is a Lookup
        type"
    },
    "isRequired": {
        "type": "boolean",
        "description": "Flag
        indicating if a
        value is required
        for this column"
    },
    "isUnique": {
        "type": "boolean",
        "description": "Flag
        indicating if values
        in this column must
        be unique"
    },
    "isKey": {
        "type": "boolean",
        "description": "Flag
        indicating if the
        column is part of
        the table's key"
    },
    "sqlTableName": {
        "type": "string",
        "description": "Name
        of the backing SQL
        table for the
        column"
    },
    "displayColumn": {
        "type": "string",
        "description": "Column
        used as the display
        value when
        referenced from a
        lookup"
    }
},
"additionalProperties":
false
}
},
"additionalProperties": false
},
"errors": {
    "type": "array",
    "description": "List of any errors
    that occurred"
},
"meta": {
    "type": "object",
    "description": "Additional
    metadata about the response"
}
},
"additionalProperties": false
}

```

38. Search rows in a master data table by column values

API	Returns
POST /MasterData/ExternalSearchRows/{tableId} URL https://dataexport.optipeople.dk/api/MasterData/ExternalSearchRows/{tableId}?access_code=<String> Parameters • [Required] tableId: Unique identifier of the master data table to search, e.g. c4e80c24-1fc1-47a4-4977-08d93ba4b9b0 Request body <pre>{ "values": { "columnName1": "value1", "columnName2": "value2" } }</pre> The values object maps column names to the values to match. Multiple entries are combined with AND logic.	Response schema <pre>{ "\$schema": "http://json-schema.org/draft-07/schema#", "type": "object", "required": ["data", "errors", "meta"], "properties": { "data": { "type": "array", "description": "List of rows matching the supplied column values", "items": { "type": "object", "required": ["id", "tableId", "values"], "properties": { "id": { "type": "string", "format": "uuid", "description": "Unique identifier for the row" }, "tableId": { "type": "string", "format": "uuid", "description": "Reference to the master data table that owns the row" }, "values": { "type": "object", "description": "Column values for the row keyed by column name", "additionalProperties": true } }, "additionalProperties": false }, "additionalProperties": false }, "errors": { "type": "array", "description": "List of any errors that occurred" }, "meta": { "type": "object", "description": "Additional metadata about the response" } }, "additionalProperties": false }</pre>

39. Update an existing row in a master data table

API	Returns
-----	---------

PUT /MasterData/ExternalUpdateRow/{rowId}**URL**

https://dataexport.optipeople.dk/api/MasterData/ExternalUpdateRow/{rowId}?access_code=<String>

Parameters

- **[Required] rowId**: Unique identifier of the master data row to update, e.g. c4e80c24-1fc1-47a4-4977-08d93ba4b9b0

Request body

```
{
  "values": {
    "columnName": "value"
  }
}
```

The values object is a map keyed by master data column name. Each value must match the column's declared type (string, integer, decimal, date-time, boolean, or a lookup row id as a GUID string). Only the columns supplied are updated; omitted columns are left unchanged.

Response schema

```
{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "type": "object",
  "required": ["data", "errors", "meta"],

  "properties": {
    "data": {
      "type": "object",
      "description": "Empty object on success",
      "additionalProperties": false
    },
    "errors": {
      "type": "array",
      "description": "List of any errors that occurred"
    },
    "meta": {
      "type": "object",
      "description": "Additional metadata about the response"
    }
  },
  "additionalProperties": false
}
```

Task Configuration

40. Get a task configuration by id

API**GET** /TaskConfiguration/GetTaskConfiguration**URL**

https://dataexport.optipeople.dk/api/TaskConfiguration/GetTaskConfiguration?access_code=<String>&id=<Guid>

Parameters

- **[Required] id**: Unique identifier of the task configuration to retrieve, e.g. c4e80c24-1fc1-47a4-4977-08d93ba4b9b0

Returns**Response schema**

```
{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "type": "object",
  "required": ["data", "errors", "meta"],

  "properties": {
    "data": {
      "type": "object",
      "description": "Full task configuration including triggers, targets, receivers, sub-tasks, attachments, tags and automation rules",
      "required": [
        "id",
        "accountId",
        "name",
        "description",
        "priorityId",
        "startDate",
        "condition",
        "isDeleted",
        "taskConfigurationAttachments",
        "taskConfigurationReceivers",

```

```

"taskConfigurationSubTasks",
"taskConfigurationTags",
"taskConfigurationTriggers",
"taskConfigurationTargets",
"automationRules"
],
"properties": {
  "id": {
    "type": "string",
    "format": "uuid",
    "description": "Unique
      identifier for the task
      configuration"
  },
  "accountId": {
    "type": "string",
    "format": "uuid",
    "description": "Reference to
      associated account"
  },
  "name": {
    "type": ["string", "null"],
    "description": "Name of the
      task configuration"
  },
  "description": {
    "type": ["string", "null"],
    "description": "Description of
      the task configuration"
  },
  "createdById": {
    "type": ["string", "null"],
    "format": "uuid",
    "description": "Reference to
      the user who created the
      task configuration, if
      applicable"
  },
  "priorityId": {
    "type": "string",
    "format": "uuid",
    "description": "Reference to
      associated task priority"
  },
  "assignedToId": {
    "type": ["string", "null"],
    "format": "uuid",
    "description": "Reference to
      the user the task is
      assigned to, if applicable"
  },
  "assignedToName": {
    "type": ["string", "null"],
    "description": "Name of the
      user the task is assigned to,
      if applicable"
  },
  "smsText": {
    "type": ["string", "null"],
    "description": "SMS message
      body sent when the task is
      triggered, if applicable"
  },
  "emailSubject": {
    "type": ["string", "null"],
    "description": "Email subject
      used when the task is
      triggered, if applicable"
  }
}

```

```

    },
    "emailBody": {
      "type": ["string", "null"],
      "description": "Email body
        used when the task is
        triggered, if applicable"
    },
    "startDate": {
      "type": "string",
      "format": "date-time",
      "description": "Start time of
        the task configuration
        schedule"
    },
    "deadline": {
      "type": ["string", "null"],
      "format": "date-time",
      "description": "Deadline for
        completing the task, if
        applicable"
    },
    "condition": {
      "type": ["string", "null"],
      "description": "Condition
        expression evaluated to
        determine if the task should
        trigger"
    },
    "priority": {
      "type": ["object", "null"],
      "description": "Task priority
        assigned to the task
        configuration",
      "required": ["id", "accountId",
        "name", "className",
        "sortOrder"],
      "properties": {
        "id": {
          "type": "string",
          "format": "uuid",
          "description": "Unique
            identifier for the
            priority"
        },
        "accountId": {
          "type": "string",
          "format": "uuid",
          "description": "Reference
            to associated account"
        },
        "name": {
          "type": ["string", "null"],

          "description": "Name of
            the priority"
        },
        "className": {
          "type": ["string", "null"],

          "description": "CSS class
            name used to style the
            priority"
        },
        "sortOrder": {
          "type": "integer",
          "description": "Sort order
            of the priority",

```

```

        "minimum": 0
      }
    },
    "additionalProperties": false
  },
  "isDeleted": {
    "type": "boolean",
    "description": "Flag
      indicating if the task
      configuration is deleted"
  },
  "taskConfigurationAttachments": {
    "type": "array",
    "description": "Files attached
      to the task configuration",
    "items": {
      "type": "object",
      "required": [
        "taskConfigurationId",
        "blobReferenceId"
      ],
      "properties": {
        "id": {
          "type": [
            "string",
            "null"
          ],
          "format": "uuid",
          "description": "Unique
            identifier for the
            attachment, if
            applicable"
        },
        "taskConfigurationId": {
          "type": "string",
          "format": "uuid",
          "description": "Reference to
            associated task
            configuration"
        },
        "fileName": {
          "type": [
            "string",
            "null"
          ],
          "description": "Original
            file name of the
            attachment"
        },
        "blobReferenceId": {
          "type": "string",
          "format": "uuid",
          "description": "Reference to the blob
            storage entry holding
            the file"
        }
      }
    },
    "additionalProperties": false
  }
},
"taskConfigurationReceivers": {
  "type": "array",
  "description": "Recipients
    notified when the task is
    triggered",
  "items": {
    "type": "object",
    "required": [
      "id",
      "taskConfigurationId"
    ],

```

```

    "properties": {
      "id": {
        "type": "string",
        "format": "uuid",
        "description": "Unique
          identifier for the
          receiver"
      },
      "taskConfigurationId": {
        "type": "string",
        "format": "uuid",
        "description": "Reference to
          associated task
          configuration"
      },
      "phoneNumber": {
        "type": ["string",
          "null"],
        "description": "Phone
          number used for SMS
          notifications"
      },
      "email": {
        "type": ["string",
          "null"],
        "description": "Email
          address used for email
          notifications"
      }
    },
    "additionalProperties":
      false
  },
  "taskConfigurationSubTasks": {
    "type": "array",
    "description": "Sub-tasks
      belonging to the task
      configuration",
    "items": {
      "type": "object",
      "required": ["id",
        "taskConfigurationId"],
      "properties": {
        "id": {
          "type": "string",
          "format": "uuid",
          "description": "Unique
            identifier for the
            sub-task"
        },
        "taskConfigurationId": {
          "type": "string",
          "format": "uuid",
          "description": "Reference to
            associated task
            configuration"
        },
        "name": {
          "type": ["string",
            "null"],
          "description": "Name of
            the sub-task"
        }
      }
    },
    "additionalProperties":

```

```

        false
    },
    "taskConfigurationTags": {
        "type": "array",
        "description": "Tags assigned to the task configuration",
        "items": {
            "type": "object",
            "required": ["id", "accountId", "sortOrder"],
            "properties": {
                "id": {
                    "type": "string",
                    "format": "uuid",
                    "description": "Unique identifier for the tag"
                },
                "accountId": {
                    "type": "string",
                    "format": "uuid",
                    "description": "Reference to associated account"
                },
                "name": {
                    "type": ["string", "null"],
                    "description": "Name of the tag"
                },
                "className": {
                    "type": ["string", "null"],
                    "description": "CSS class name used to style the tag"
                },
                "sortOrder": {
                    "type": "integer",
                    "description": "Sort order of the tag",
                    "minimum": 0
                }
            }
        },
        "additionalProperties": false
    },
    "taskConfigurationTriggers": {
        "type": "array",
        "description": "Triggers that determine when the task configuration fires",
        "items": {
            "type": "object",
            "required": ["id", "taskConfigurationId", "triggerType"],
            "properties": {
                "id": {
                    "type": "string",
                    "format": "uuid",
                    "description": "Unique identifier for the trigger"
                },
            }
        }
    },

```

```

"taskConfigurationId": {
  "type": "string",
  "format": "uuid",
  "description":
    "Reference to
    associated task
    configuration"
},
"triggerType": {
  "type": "integer",
  "description": "Type of
  trigger.
  1=FACTORY_SCHEDULED_DA
  ILY,
  2=FACTORY_SCHEDULED_WE
  EKLY,
  3=FACTORY_SCHEDULED_MO
  NTHLY,
  4=FACTORY_SCHEDULED_ON
  ETIME,
  5=FACTORY_UNTRIGGERED,
  6=MACHINE_SCHEDULED_DA
  ILY,
  7=MACHINE_SCHEDULED_WE
  EKLY,
  8=MACHINE_SCHEDULED_MO
  NTHLY,
  9=MACHINE_SCHEDULED_ON
  ETIME,
  10=MACHINE_PRODUCTION_
  HOUR_EVENT,
  11=MACHINE_UNIT_COUNT_E
  R_EVENT,
  12=MACHINE_TELEMETRY_T
  HRESHOLD_EVENT,
  13=MACHINE_EXCEEDS_STO
  P_TIME_EVENT,
  14=MACHINE_UNIT_PRODUC
  ED_REACHED_EVENT,
  15=MACHINE_UNTRIGGERED,
  16=USER_SCHEDULED_DAIL
  Y, 17=USER_SCHEDULED_W
  EEKLY,
  18=USER_SCHEDULED_MONT
  HLY,
  19=USER_SCHEDULED_ONET
  IME,
  20=USER_UNTRIGGERED,
  21=FACTORY_SCHEDULED_H
  OURLY,
  22=MACHINE_SCHEDULED_H
  OURLY,
  23=USER_SCHEDULED_HOUR
  LY,
  24=FACTORY_PLACEHOLDER,
  25=MACHINE_PLACEHOLDER,
  26=USER_PLACEHOLDER,
  27=MACHINE_QC_SCHEDULE
  D_HOURLY,
  28=MACHINE_QC_SCHEDULE
  D_DAILY,
  29=MACHINE_QC_SCHEDULE
  D_WEEKLY,
  30=MACHINE_QC_SCHEDULE
  D_MONTHLY,
  31=MACHINE_QC_SCHEDULE
  D_ONETIME,
  32=MACHINE_QC_PRODUCTI

```

```

        ON_HOUR_EVENT,
        33=MACHINE_QC_UNTRIGGE
        RED",
        "minimum": 1
    },
    "days": {
        "type": ["string",
            "null"],
        "description":
            "Comma-separated list
            of days of the month
            the trigger fires on,
            if applicable"
    },
    "weeks": {
        "type": ["integer",
            "null"],
        "description": "Number
            of weeks between
            recurrences, if
            applicable"
    },
    "daysOfWeek": {
        "type": ["integer",
            "null"],
        "description": "Day of
            week the trigger fires
            on, if applicable.
            0=Sunday, 1=Monday,
            2=Tuesday, 3=Wednesday,
            4=Thursday, 5=Friday,
            6=Saturday"
    },
    "weekOfMonth": {
        "type": ["integer",
            "null"],
        "description": "Week of
            the month the trigger
            fires on, if
            applicable. 1=First,
            2=Second, 3=Third,
            4=Fourth, 5=Last"
    },
    "months": {
        "type": ["string",
            "null"],
        "description":
            "Comma-separated list
            of months the trigger
            fires in, if
            applicable"
    },
    "friendlyName": {
        "type": ["string",
            "null"],
        "description":
            "Human-readable
            summary of when the
            trigger fires"
    },
    "unitsToProduce": {
        "type": ["number",
            "null"],
        "description": "Number
            of units that must be
            produced before the
            trigger fires, if
            applicable"
    }

```

```

    },
    "hoursToProduce": {
      "type": ["integer",
        "null"],
      "description": "Number
        of production hours
        before the trigger
        fires, if applicable"
    },
    "idleMinutes": {
      "type": ["integer",
        "null"],
      "description": "Number
        of idle minutes before
        the trigger fires, if
        applicable"
    },
    "telemetryThresholdCondi-
    onType": {
      "type": ["integer",
        "null"],
      "description":
        "Condition applied to
        the telemetry
        threshold value, if
        applicable. 0=MoreThan,
        1=LessThan"
    },
    "telemetryThresholdLimitVa-
    lue": {
      "type": ["number",
        "null"],
      "description":
        "Telemetry threshold
        value compared against
        the measured value, if
        applicable"
    },
    "telemetryTriggerAfterSeco-
    nds": {
      "type": ["integer",
        "null"],
      "description": "Number
        of seconds the
        threshold must be
        exceeded before the
        trigger fires, if
        applicable"
    },
    "executeOnce": {
      "type": ["boolean",
        "null"],
      "description": "Flag
        indicating if the
        trigger should fire
        only once, if
        applicable"
    },
    "startOn": {
      "type": ["integer",
        "null"],
      "description": "When the
        trigger schedule
        starts, if applicable.
        0=Default,
        1=TriggerOnAutomation"
    }
  }
},

```

```

    "additionalProperties":
      false
  },
  "taskConfigurationTargets": {
    "type": "array",
    "description": "Machines or
      factories the task
      configuration targets",
    "items": {
      "type": "object",
      "required": ["id",
        "taskConfigurationId"],
      "properties": {
        "id": {
          "type": "string",
          "format": "uuid",
          "description": "Unique
            identifier for the
            target"
        },
        "taskConfigurationId": {
          "type": "string",
          "format": "uuid",
          "description":
            "Reference to
            associated task
            configuration"
        },
        "machineId": {
          "type": ["string",
            "null"],
          "format": "uuid",
          "description":
            "Reference to
            associated machine, if
            the target is a
            machine"
        },
        "machineName": {
          "type": ["string",
            "null"],
          "description": "Name of
            the target machine, if
            the target is a
            machine"
        },
        "factoryId": {
          "type": ["string",
            "null"],
          "format": "uuid",
          "description":
            "Reference to
            associated factory, if
            the target is a
            factory"
        },
        "factoryName": {
          "type": ["string",
            "null"],
          "description": "Name of
            the target factory, if
            the target is a
            factory"
        },
        "targetTitle": {
          "type": ["string",
            "null"],

```

```

        "description": "Display
        title for the target"
    },
    },
    "additionalProperties":
    false
}
},
"automationRules": {
    "type": "array",
    "description": "Automation
    rules that chain this task
    configuration to other tasks
    based on status changes",
    "items": {
        "type": "object",
        "required": ["when",
        "action", "order"],
        "properties": {
            "id": {
                "type": ["string",
                "null"],
                "format": "uuid",
                "description": "Unique
                identifier for the
                automation rule, if
                applicable"
            },
            "when": {
                "type": "integer",
                "description": "Event
                that triggers the
                automation rule.
                1=TaskInstanceStatusCh
                ange"
            },
            "taskStatusId": {
                "type": ["string",
                "null"],
                "format": "uuid",
                "description":
                "Reference to the task
                status that triggers
                the rule, if
                applicable"
            },
            "taskStatusName": {
                "type": ["string",
                "null"],
                "description": "Name of
                the task status that
                triggers the rule, if
                applicable"
            },
            "action": {
                "type": "integer",
                "description": "Action
                performed when the
                rule triggers.
                1=TriggerTask"
            },
        },
        "targetTaskConfigurationId
        ": {
            "type": ["string",
            "null"],
            "format": "uuid",
            "description":
            "Reference to the task

```

	<pre> configuration triggered by the rule, if applicable" }, "targetTaskConfigurationName": { "type": ["string", "null"], "description": "Name of the task configuration triggered by the rule, if applicable" }, "order": { "type": "integer", "description": "Sort order of the rule within the task configuration", "minimum": 0 } }, "additionalProperties": false } }, "qualityControlTypeId": { "type": ["string", "null"], "format": "uuid", "description": "Reference to associated quality control type, if applicable" }, "qualityControlTypeName": { "type": ["string", "null"], "description": "Name of the associated quality control type, if applicable" } }, "additionalProperties": false }, "errors": { "type": "array", "description": "List of any errors that occurred" }, "meta": { "type": "object", "description": "Additional metadata about the response" } }, "additionalProperties": false }</pre>
--	---

41. List task configurations for the account	
API	Returns
GET /TaskConfiguration/GetTaskConfigurations URL https://dataexport.optipeople.dk/api/Tas	Response schema { "\$schema": "http://json-schema.org/draft-07/schema#",

```
kConfiguration/GetTaskConfigurations?access_code=<String>
```

Parameters

This endpoint takes no additional parameters beyond `access_code`. The account context is resolved from the authenticated external application.

```
"type": "object",
"required": ["data", "errors", "meta"],

"properties": {
  "data": {
    "type": "array",
    "description": "List of task
      configurations for the account",
    "items": {
      "type": "object",
      "required": [
        "id",
        "name",
        "description",
        "typeInfo",
        "targetInfo",
        "when",
        "isRecurrent",
        "tags",
        "createdBy",
        "isActive",
        "isDeleted",
        "createdDate",
        "updatedDate"
      ],
      "properties": {
        "id": {
          "type": "string",
          "format": "uuid",
          "description": "Unique
            identifier for the task
            configuration"
        },
        "name": {
          "type": "string",
          "description": "Name of the
            task configuration"
        },
        "description": {
          "type": "string",
          "description": "Description
            of the task configuration"
        },
        "typeInfo": {
          "type": "string",
          "description": "Human-readable summary of
            the task trigger type"
        },
        "targetInfo": {
          "type": "string",
          "description": "Human-readable summary of
            the task targets (machines
            or factories)"
        },
        "when": {
          "type": "string",
          "description": "Human-readable summary of
            when the task is scheduled
            to run"
        },
        "isRecurrent": {
          "type": "boolean",
          "description": "Flag
            indicating if the task
```

```

        configuration recurs"
    },
    "tags": {
        "type": "array",
        "description": "Tags
assigned to the task
configuration",
        "items": {
            "type": "object",
            "required": ["id",
                "accountId", "name",
                "className",
                "sortOrder"],
            "properties": {
                "id": {
                    "type": "string",
                    "format": "uuid",
                    "description": "Unique
identifier for the
tag"
                },
                "accountId": {
                    "type": "string",
                    "format": "uuid",
                    "description":
                        "Reference to
associated account"
                },
                "name": {
                    "type": "string",
                    "description": "Name
of the tag"
                },
                "className": {
                    "type": "string",
                    "description": "CSS
class name used to
style the tag"
                },
                "sortOrder": {
                    "type": "integer",
                    "description": "Sort
order of the tag",
                    "minimum": 0
                }
            }
        },
        "additionalProperties":
            false
    }
},
"createdBy": {
    "type": "string",
    "description": "Name of the
user who created the task
configuration"
},
"isActive": {
    "type": "boolean",
    "description": "Flag
indicating if the task
configuration is active"
},
"isDeleted": {
    "type": "boolean",
    "description": "Flag
indicating if the task
configuration is deleted"
},

```

```

      "createdDate": {
        "type": "string",
        "format": "date-time",
        "description": "Date and
          time when the task
            configuration was created"
      },
      "updatedAt": {
        "type": "string",
        "format": "date-time",
        "description": "Date and
          time when the task
            configuration was last
              updated"
      }
    },
    "additionalProperties": false
  },
  "errors": {
    "type": "array",
    "description": "List of any errors
      that occurred"
  },
  "meta": {
    "type": "object",
    "description": "Additional
      metadata about the response"
  }
},
"additionalProperties": false
}

```

Task Instance

42. Get all active task instances for the account

API

GET /TaskInstance/GetActiveTaskInstances

URL

https://dataexport.optipeople.dk/api/TaskInstance/GetActiveTaskInstances?access_code=<String>

Parameters

This endpoint takes no parameters beyond access_code.

Returns

Response schema

```

{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "type": "object",
  "required": ["data", "errors", "meta"],

  "properties": {
    "data": {
      "type": "array",
      "description": "Active task
        instances belonging to the
          authenticated account, ordered
            by creation date",
      "items": {
        "type": "object",
        "required": [
          "taskInstanceId",
          "taskInstanceVersionId",
          "taskId",
          "createdDate",
          "taskConfigurationId",
          "taskTriggerType",

```

```

    "tags",
    "subtaskItems",
    "customFields",
    "taskConfigurationAttachments",

    "taskType",
    "automationRules"
  ],
  "properties": {
    "taskInstanceId": {
      "type": "string",
      "format": "uuid",
      "description": "Unique
        identifier for the task
        instance"
    },
    "taskInstanceVersionId": {
      "type": "string",
      "format": "uuid",
      "description": "Unique
        identifier for the current
        version of the task
        instance"
    },
    "name": {
      "type": ["string", "null"],
      "description": "Name of the
        task"
    },
    "description": {
      "type": ["string", "null"],
      "description": "Description
        of the task"
    },
    "taskId": {
      "type": "string",
      "format": "uuid",
      "description": "Reference to
        the parent task"
    },
    "accountId": {
      "type": ["string", "null"],
      "format": "uuid",
      "description": "Reference to
        the account that owns the
        task instance"
    },
    "assignedTo": {
      "type": ["string", "null"],
      "format": "uuid",
      "description": "Reference to
        the entity the task is
        assigned to, if
        applicable"
    },
    "machineId": {
      "type": ["string", "null"],
      "format": "uuid",
      "description": "Reference to
        the associated machine, if
        applicable"
    },
    "triggerDate": {
      "type": ["string", "null"],
      "format": "date-time",
      "description": "Time when
        the task was triggered, if

```

```

    applicable"
  },
  "completedDate": {
    "type": ["string", "null"],
    "format": "date-time",
    "description": "Time when
      the task was completed, if
      applicable"
  },
  "createdDate": {
    "type": "string",
    "format": "date-time",
    "description": "Date and
      time when the task
      instance was created"
  },
  "updatedAt": {
    "type": ["string", "null"],
    "format": "date-time",
    "description": "Date and
      time when the task
      instance was last updated,
      if applicable"
  },
  "latestVersionUpdate": {
    "type": ["string", "null"],
    "format": "date-time",
    "description": "Time of the
      latest version update on
      the task instance, if
      applicable"
  },
  "assignedToId": {
    "type": ["string", "null"],
    "format": "uuid",
    "description": "Reference to
      the user the task is
      assigned to, if
      applicable"
  },
  "assignedToName": {
    "type": ["string", "null"],
    "description": "Name of the
      user the task is assigned
      to"
  },
  "condition": {
    "type": ["string", "null"],
    "description": "Trigger
      condition expression for
      the task"
  },
  "target": {
    "type": ["string", "null"],
    "description": "Name of the
      target the task applies
      to"
  },
  "scheduledDueDate": {
    "type": ["string", "null"],
    "format": "date-time",
    "description": "Scheduled
      due date for the task, if
      applicable"
  },
  "taskConfigurationId": {
    "type": "string",
    "format": "uuid",

```

```

    "description": "Reference to
    the task configuration the
    instance was created from"
  },
  "taskTriggerType": {
    "type": "integer",
    "description": "Type of
    trigger that created the
    task instance.
    1=FACTORY_SCHEDULED_DAILY,
    2=FACTORY_SCHEDULED_WEEKLY,
    3=FACTORY_SCHEDULED_MONTHL
    Y, 4=FACTORY_SCHEDULED_ONE
    TIME, 5=FACTORY_UNTRIGGERE
    D, 6=MACHINE_SCHEDULED_DAI
    LY, 7=MACHINE_SCHEDULED_WE
    EKLY, 8=MACHINE_SCHEDULED_
    MONTHLY,
    9=MACHINE_SCHEDULED_ONETIM
    E, 10=MACHINE_PRODUCTION_H
    OUR_EVENT,
    11=MACHINE_UNIT_COUNTER_EV
    ENT, 12=MACHINE_TELEMETRY_
    THRESHOLD_EVENT,
    13=MACHINE_EXCEEDS_STOP_TI
    ME_EVENT,
    14=MACHINE_UNIT_PRODUCED_R
    EACHED_EVENT"
  },
  "friendlyName": {
    "type": ["string", "null"],
    "description": "Friendly
    display name for the task"
  },
  "tags": {
    "type": "array",
    "description": "Tags
    associated with the task",
    "items": {
      "type": "object",
      "required": ["id",
        "accountId",
        "sortOrder"],
      "properties": {
        "id": {
          "type": "string",
          "format": "uuid",
          "description": "Unique
          identifier for the
          tag"
        },
        "accountId": {
          "type": "string",
          "format": "uuid",
          "description":
            "Reference to the
            account that owns
            the tag"
        },
        "name": {
          "type": ["string",
            "null"],
          "description": "Name
          of the tag"
        },
        "className": {
          "type": ["string",
            "null"],

```

```

        "description": "CSS
        class name used to
        style the tag"
    },
    "sortOrder": {
        "type": "integer",
        "description": "Sort
        order of the tag"
    }
},
"additionalProperties":
    false
}
},
"subtaskItems": {
    "type": "array",
    "description": "Subtask
    items belonging to the
    task instance",
    "items": {
        "type": "object",
        "required": ["id",
        "taskConfigurationSubTas
        kId", "isCompleted"],
        "properties": {
            "id": {
                "type": "string",
                "format": "uuid",
                "description": "Unique
                identifier for the
                subtask item"
            },
            "taskConfigurationSubTas
            kId": {
                "type": "string",
                "format": "uuid",
                "description":
                "Reference to the
                task configuration
                subtask"
            },
            "name": {
                "type": ["string",
                "null"],
                "description": "Name
                of the subtask"
            },
            "isCompleted": {
                "type": "boolean",
                "description": "Flag
                indicating if the
                subtask is
                completed"
            }
        }
    },
    "additionalProperties":
        false
}
},
"customFields": {
    "type": "array",
    "description": "Custom field
    values captured for the
    task instance",
    "items": {
        "type": "object",
        "required": ["id",
        "taskConfigurationCustom

```

```

      FieldId", "type"],
    "properties": {
      "id": {
        "type": "string",
        "format": "uuid",
        "description": "Unique
          identifier for the
          custom field value"
      },
      "taskConfigurationCustom
        FieldId": {
        "type": "string",
        "format": "uuid",
        "description":
          "Reference to the
          task configuration
          custom field"
      },
      "label": {
        "type": ["string",
          "null"],
        "description": "Label
          displayed for the
          custom field"
      },
      "type": {
        "type": "integer",
        "description": "Type
          of the custom field.
          0=Text, 1=TextArea,
          2=Number,
          3=ActivationTime,
          4=DateTimePicker,
          5=Checkbox, 6=Link,
          7=Switch,
          8=UnitInformation"
      },
      "typeSettings": {
        "type": ["string",
          "null"],
        "description":
          "Type-specific
          settings serialized
          as a string"
      },
      "value": {
        "type": ["string",
          "null"],
        "description":
          "Captured value for
          the custom field"
      }
    },
    "additionalProperties":
      false
  },
  "taskConfigurationAttachments":
  {
    "type": "array",
    "description": "Attachments
      configured for the task",
    "items": {
      "type": "object",
      "required":
        ["taskConfigurationId",
          "blobReferenceId"],
      "properties": {

```

```

      "id": {
        "type": ["string",
          "null"],
        "format": "uuid",
        "description": "Unique
          identifier for the
          attachment"
      },
      "taskConfigurationId": {
        "type": "string",
        "format": "uuid",
        "description":
          "Reference to the
          task configuration
          the attachment
          belongs to"
      },
      "fileName": {
        "type": ["string",
          "null"],
        "description": "Name
          of the attached
          file"
      },
      "blobReferenceId": {
        "type": "string",
        "format": "uuid",
        "description":
          "Reference to the
          blob resource
          holding the file"
      }
    },
    "additionalProperties":
      false
  }
},
"taskStatus": {
  "type": ["object", "null"],
  "description": "Current
    status of the task
    instance",
  "required": ["id",
    "accountId", "sortOrder",
    "isStartOfFlow",
    "isEndOfFlow"],
  "properties": {
    "id": {
      "type": "string",
      "format": "uuid",
      "description": "Unique
        identifier for the
        status"
    },
    "accountId": {
      "type": "string",
      "format": "uuid",
      "description":
        "Reference to the
        account that owns the
        status"
    },
    "name": {
      "type": ["string",
        "null"],
      "description": "Name of
        the status"
    }
  }
},

```

```

"className": {
  "type": ["string",
    "null"],
  "description": "CSS
    class name used to
    style the status"
},
"sortOrder": {
  "type": "integer",
  "description": "Sort
    order of the status"
},
"isStartOfFlow": {
  "type": "boolean",
  "description": "Flag
    indicating if the
    status is the start of
    the task flow"
},
"isEndOfFlow": {
  "type": "boolean",
  "description": "Flag
    indicating if the
    status is the end of
    the task flow"
}
},
"additionalProperties":
  false
},
"taskPriority": {
  "type": ["object", "null"],
  "description": "Priority of
    the task instance",
  "required": ["id",
    "accountId", "sortOrder"],
  "properties": {
    "id": {
      "type": "string",
      "format": "uuid",
      "description": "Unique
        identifier for the
        priority"
    },
    "accountId": {
      "type": "string",
      "format": "uuid",
      "description":
        "Reference to the
        account that owns the
        priority"
    },
    "name": {
      "type": ["string",
        "null"],
      "description": "Name of
        the priority"
    },
    "className": {
      "type": ["string",
        "null"],
      "description": "CSS
        class name used to
        style the priority"
    },
    "sortOrder": {
      "type": "integer",
      "description": "Sort

```

```

        order of the priority"
    }
  },
  "additionalProperties":
    false
},
"taskType": {
  "type": "integer",
  "description": "Type of the
task. 0=OnSchedule,
1=MachineEvents,
2=Untriggered,
3=Placeholder,
4=QualityControl"
},
"deadline": {
  "type": ["string", "null"],
  "format": "date-time",
  "description": "Deadline for
completing the task, if
applicable"
},
"automationRules": {
  "type": "array",
  "description": "Automation
rules configured for the
task",
  "items": {
    "type": "object",
    "required": ["when",
"action", "order"],
    "properties": {
      "id": {
        "type": ["string",
"null"],
        "format": "uuid",
        "description": "Unique
identifier for the
automation rule"
      },
      "when": {
        "type": "integer",
        "description":
          "Trigger condition
          for the automation
          rule.
          1=TaskInstanceStatus
          Change"
      },
      "taskStatusId": {
        "type": ["string",
"null"],
        "format": "uuid",
        "description":
          "Reference to the
          task status that
          activates the rule,
          if applicable"
      },
      "taskStatusName": {
        "type": ["string",
"null"],
        "description": "Name
of the task status
that activates the
rule"
      }
    }
  },
  "action": {

```

```

        "type": "integer",
        "description": "Action
        performed when the
        rule fires.
        1=TriggerTask"
    },
    "targetTaskConfiguration
    Id": {
        "type": ["string",
        "null"],
        "format": "uuid",
        "description":
        "Reference to the
        target task
        configuration acted
        upon by the rule, if
        applicable"
    },
    "targetTaskConfiguration
    Name": {
        "type": ["string",
        "null"],
        "description": "Name
        of the target task
        configuration"
    },
    "order": {
        "type": "integer",
        "description":
        "Execution order of
        the rule relative to
        other rules"
    }
    },
    "additionalProperties":
    false
    }
    },
    "additionalProperties": false
    }
    },
    "errors": {
        "type": "array",
        "description": "List of any errors
        that occurred"
    },
    "meta": {
        "type": "object",
        "description": "Additional
        metadata about the response"
    }
    },
    "additionalProperties": false
    }

```

43. Get all completed task instances in a time range

API

GET /TaskInstance/GetCompletedTaskInstances

URL

<https://dataexport.optipeople.dk/api/Tas>

Returns

Response schema

```

{
  "$schema": "http://json-schema.org/draft-07/schema#",

```

```
kInstance/GetCompletedTaskInstances?access_code=<String>&from=<DateTime>[&to=<DateTime>]
```

Parameters

- **[Required] from:** Start of the completion window (ISO 8601 date-time, e.g. 2025-01-01T00:00:00)
- **[Optional] to:** End of the completion window (ISO 8601 date-time). Defaults to the server's current time when omitted

```
"type": "object",
"required": ["data", "errors", "meta"],

"properties": {
  "data": {
    "type": "array",
    "description": "Task instances
    completed within the requested
    time range for the authenticated
    account",
    "items": {
      "type": "object",
      "required": [
        "taskId",
        "createdDate",
        "taskConfigurationId",
        "taskTriggerType",
        "tags",
        "subtaskItems",
        "customFields",
        "taskConfigurationAttachments",

        "taskType",
        "automationRules"
      ],
      "properties": {
        "taskId": {
          "type": "string",
          "format": "uuid",
          "description": "Unique
            identifier for the task
            instance"
        },
        "taskConfigurationId": {
          "type": "string",
          "format": "uuid",
          "description": "Unique
            identifier for the current
            version of the task
            instance"
        },
        "name": {
          "type": ["string", "null"],
          "description": "Name of the
            task instance"
        },
        "description": {
          "type": ["string", "null"],
          "description": "Description
            of the task instance"
        },
        "taskId": {
          "type": "string",
          "format": "uuid",
          "description": "Reference to
            the underlying task"
        },
        "accountId": {
          "type": ["string", "null"],
          "format": "uuid",
          "description": "Reference to
            the owning account"
        },
        "assignedTo": {
          "type": ["string", "null"],
```

```

    "format": "uuid",
    "description": "Reference to
    the user the task is
    assigned to"
  },
  "machineId": {
    "type": ["string", "null"],
    "format": "uuid",
    "description": "Reference to
    the machine the task is
    associated with, if
    applicable"
  },
  "triggerDate": {
    "type": ["string", "null"],
    "format": "date-time",
    "description": "Time when
    the task instance was
    triggered, if applicable"
  },
  "completedDate": {
    "type": ["string", "null"],
    "format": "date-time",
    "description": "Time when
    the task instance was
    completed, if applicable"
  },
  "createdDate": {
    "type": "string",
    "format": "date-time",
    "description": "Date and
    time when the task
    instance was created"
  },
  "updatedAt": {
    "type": ["string", "null"],
    "format": "date-time",
    "description": "Date and
    time when the task
    instance was last updated,
    if applicable"
  },
  "latestVersionUpdate": {
    "type": ["string", "null"],
    "format": "date-time",
    "description": "Date and
    time of the latest version
    update, if applicable"
  },
  "assignedToId": {
    "type": ["string", "null"],
    "format": "uuid",
    "description": "Reference to
    the user currently
    assigned to the task"
  },
  "assignedToName": {
    "type": ["string", "null"],
    "description": "Display name
    of the user currently
    assigned to the task"
  },
  "condition": {
    "type": ["string", "null"],
    "description": "Trigger
    condition for the task
    instance"
  },
},

```

```

"target": {
  "type": ["string", "null"],
  "description": "Target the
    task instance applies to"
},
"scheduledDueDate": {
  "type": ["string", "null"],
  "format": "date-time",
  "description": "Scheduled
    due date for the task
    instance, if applicable"
},
"taskConfigurationId": {
  "type": "string",
  "format": "uuid",
  "description": "Reference to
    the task configuration the
    instance was created from"
},
"taskTriggerType": {
  "type": "integer",
  "description": "Trigger type
    for the task instance.
    1=FACTORY_SCHEDULED_DAILY,
    2=FACTORY_SCHEDULED_WEEKLY,
    3=FACTORY_SCHEDULED_MONTHLY,
    4=FACTORY_SCHEDULED_ONETIME,
    5=FACTORY_UNTRIGGERED,
    6=MACHINE_SCHEDULED_DAILY,
    7=MACHINE_SCHEDULED_WEEKLY,
    8=MACHINE_SCHEDULED_MONTHLY,
    9=MACHINE_SCHEDULED_ONETIME,
    10=MACHINE_PRODUCTION_HOUR_EVENT,
    11=MACHINE_UNIT_COUNTER_EVENT,
    12=MACHINE_TELEMETRY_THRESHOLD_EVENT,
    13=MACHINE_EXCEEDS_STOP_TIME_EVENT,
    14=MACHINE_UNIT_PRODUCED_REACHED_EVENT,
    15=MACHINE_UNTRIGGERED,
    16=USER_SCHEDULED_DAILY,
    17=USER_SCHEDULED_WEEKLY,
    18=USER_SCHEDULED_MONTHLY,
    19=USER_SCHEDULED_ONETIME,
    20=USER_UNTRIGGERED,
    21=FACTORY_SCHEDULED_HOURLY,
    22=MACHINE_SCHEDULED_HOURLY,
    23=USER_SCHEDULED_HOURLY,
    24=FACTORY_PLACEHOLDER,
    25=MACHINE_PLACEHOLDER,
    26=USER_PLACEHOLDER,
    27=MACHINE_QC_SCHEDULED_HOURLY,
    28=MACHINE_QC_SCHEDULED_DAILY,
    29=MACHINE_QC_SCHEDULED_WEEKLY,
    30=MACHINE_QC_SCHEDULED_MONTHLY,
    31=MACHINE_QC_SCHEDULED_ONETIME,
    32=MACHINE_QC_PRODUCTION_HOUR_EVENT,
    33=MACHINE_QC_UNTRIGGERED"
},
"friendlyName": {
  "type": ["string", "null"],
  "description": "Friendly

```

```

        name for the trigger
        source, if applicable"
    },
    "tags": {
      "type": "array",
      "description": "Tags applied
        to the task instance",
      "items": {
        "type": "object",
        "required": ["id",
          "accountId",
          "sortOrder"],
        "properties": {
          "id": {
            "type": "string",
            "format": "uuid",
            "description": "Unique
              identifier for the
              tag"
          },
          "accountId": {
            "type": "string",
            "format": "uuid",
            "description":
              "Reference to the
              owning account"
          },
          "name": {
            "type": ["string",
              "null"],
            "description": "Name
              of the tag"
          },
          "className": {
            "type": ["string",
              "null"],
            "description": "CSS
              class name used to
              style the tag"
          },
          "sortOrder": {
            "type": "integer",
            "description":
              "Display sort order
              for the tag"
          }
        }
      },
      "additionalProperties":
        false
    }
  },
  "subtaskItems": {
    "type": "array",
    "description": "Subtasks
      belonging to the task
      instance",
    "items": {
      "type": "object",
      "required": ["id",
        "taskConfigurationSubTas
        kId", "isCompleted"],
      "properties": {
        "id": {
          "type": "string",
          "format": "uuid",
          "description": "Unique
            identifier for the
            subtask"
        }
      }
    }
  }
}

```

```

    },
    "taskConfigurationSubTaskId": {
      "type": "string",
      "format": "uuid",
      "description": "Reference to the subtask configuration"
    },
    "name": {
      "type": ["string", "null"],
      "description": "Name of the subtask"
    },
    "isCompleted": {
      "type": "boolean",
      "description": "Flag indicating if the subtask has been completed"
    }
  },
  "additionalProperties": false
},
"customFields": {
  "type": "array",
  "description": "Custom field values captured on the task instance",
  "items": {
    "type": "object",
    "required": ["id", "taskConfigurationCustomFieldId", "type"],
    "properties": {
      "id": {
        "type": "string",
        "format": "uuid",
        "description": "Unique identifier for the custom field value"
      },
      "taskConfigurationCustomFieldId": {
        "type": "string",
        "format": "uuid",
        "description": "Reference to the custom field configuration"
      },
      "label": {
        "type": ["string", "null"],
        "description": "Display label for the custom field"
      },
      "type": {
        "type": "integer",
        "description": "Type of the custom field. 0=Text, 1=TextArea, 2=Number,

```

```

        3=ActivationTime,
        4=DateTimePicker,
        5=Checkbox, 6=Link,
        7=Switch,
        8=UnitInformation"
    },
    "typeSettings": {
        "type": ["string",
            "null"],
        "description":
            "Serialized
            type-specific
            settings for the
            custom field"
    },
    "value": {
        "type": ["string",
            "null"],
        "description":
            "Captured value for
            the custom field"
    }
    },
    "additionalProperties":
        false
    }
},
"taskConfigurationAttachments":
{
    "type": "array",
    "description": "Attachments
        inherited from the task
        configuration",
    "items": {
        "type": "object",
        "required":
            ["taskConfigurationId",
                "blobReferenceId"],
        "properties": {
            "id": {
                "type": ["string",
                    "null"],
                "format": "uuid",
                "description": "Unique
                    identifier for the
                    attachment"
            },
            "taskConfigurationId": {
                "type": "string",
                "format": "uuid",
                "description":
                    "Reference to the
                    task configuration
                    that owns the
                    attachment"
            },
            "fileName": {
                "type": ["string",
                    "null"],
                "description":
                    "Original file name
                    of the attachment"
            },
            "blobReferenceId": {
                "type": "string",
                "format": "uuid",
                "description":
                    "Reference to the

```

```

        underlying blob
        resource"
    }
  },
  "additionalProperties":
    false
}
},
"taskStatus": {
  "type": ["object", "null"],
  "description": "Current
    status of the task
    instance",
  "required": ["id",
    "accountId", "sortOrder",
    "isStartOfFlow",
    "isEndOfFlow"],
  "properties": {
    "id": {
      "type": "string",
      "format": "uuid",
      "description": "Unique
        identifier for the
        status"
    },
    "accountId": {
      "type": "string",
      "format": "uuid",
      "description":
        "Reference to the
        owning account"
    },
    "name": {
      "type": ["string",
        "null"],
      "description": "Name of
        the status"
    },
    "className": {
      "type": ["string",
        "null"],
      "description": "CSS
        class name used to
        style the status"
    },
    "sortOrder": {
      "type": "integer",
      "description": "Display
        sort order for the
        status"
    },
    "isStartOfFlow": {
      "type": "boolean",
      "description": "Flag
        indicating if the
        status is the starting
        state of the workflow"
    },
    "isEndOfFlow": {
      "type": "boolean",
      "description": "Flag
        indicating if the
        status is the terminal
        state of the workflow"
    }
  }
},
"additionalProperties":
  false

```

```

    },
    "taskPriority": {
      "type": ["object", "null"],
      "description": "Priority of
        the task instance",
      "required": ["id",
        "accountId", "sortOrder"],
      "properties": {
        "id": {
          "type": "string",
          "format": "uuid",
          "description": "Unique
            identifier for the
            priority"
        },
        "accountId": {
          "type": "string",
          "format": "uuid",
          "description": "Reference to the
            owning account"
        },
        "name": {
          "type": ["string",
            "null"],
          "description": "Name of
            the priority"
        },
        "className": {
          "type": ["string",
            "null"],
          "description": "CSS
            class name used to
            style the priority"
        },
        "sortOrder": {
          "type": "integer",
          "description": "Display
            sort order for the
            priority"
        }
      }
    },
    "additionalProperties":
      false
  },
  "taskType": {
    "type": "integer",
    "description": "Category of
      the task. 0=OnSchedule,
      1=MachineEvents,
      2=Untriggered,
      3=Placeholder,
      4=QualityControl"
  },
  "deadline": {
    "type": ["string", "null"],
    "format": "date-time",
    "description": "Deadline for
      completing the task
      instance, if applicable"
  },
  "automationRules": {
    "type": "array",
    "description": "Automation
      rules inherited from the
      task configuration",
    "items": {
      "type": "object",

```

```

"required": ["when",
"action", "order"],
"properties": {
  "id": {
    "type": ["string",
    "null"],
    "format": "uuid",
    "description": "Unique
    identifier for the
    automation rule"
  },
  "when": {
    "type": "integer",
    "description":
    "Trigger event for
    the rule.
    1=TaskInstanceStatus
    Change"
  },
  "taskStatusId": {
    "type": ["string",
    "null"],
    "format": "uuid",
    "description":
    "Reference to the
    status that
    activates the rule,
    if applicable"
  },
  "taskStatusName": {
    "type": ["string",
    "null"],
    "description": "Name
    of the status that
    activates the rule"
  },
  "action": {
    "type": "integer",
    "description": "Action
    performed by the
    rule. 1=TriggerTask"
  },
  "targetTaskConfiguration
  Id": {
    "type": ["string",
    "null"],
    "format": "uuid",
    "description":
    "Reference to the
    task configuration
    targeted by the rule,
    if applicable"
  },
  "targetTaskConfiguration
  Name": {
    "type": ["string",
    "null"],
    "description": "Name
    of the task
    configuration
    targeted by the
    rule"
  },
  "order": {
    "type": "integer",
    "description":
    "Evaluation order of
    the rule"
  }
}

```

```

    }
  },
  "additionalProperties": false
}
},
"additionalProperties": false
}
},
"errors": {
  "type": "array",
  "description": "List of any errors
that occurred"
},
"meta": {
  "type": "object",
  "description": "Additional
metadata about the response"
}
},
"additionalProperties": false
}

```

44. Get a task instance with its version history

API	Returns
GET /TaskInstance/GetTaskInstanceWithVersions URL <a href="https://dataexport.optipeople.dk/api/TaskInstance/GetTaskInstanceWithVersions?access_code=<String>&id=<Guid>">https://dataexport.optipeople.dk/api/TaskInstance/GetTaskInstanceWithVersions?access_code=<String>&id=<Guid> Parameters • [Required] id: Unique identifier of the task instance to retrieve, e.g. c4e80c24-1fc1-47a4-4977-08d93ba4b9b0	Response schema <pre> { "\$schema": "http://json-schema.org/draft-07/schema#", "type": "object", "required": ["data", "errors", "meta"], "properties": { "data": { "type": "object", "description": "Task instance with its full version history", "required": ["taskInstanceId", "taskInstanceVersionId", "taskId", "createdDate", "taskConfigurationId", "taskTriggerType", "tags", "subtaskItems", "customFields", "taskConfigurationAttachments", "taskType", "automationRules", "versions"], }, "properties": { "taskInstanceId": { "type": "string", "format": "uuid", "description": "Unique identifier for the task instance" }, }, }, </pre>

```

"taskInstanceVersionId": {
  "type": "string",
  "format": "uuid",
  "description": "Unique
    identifier for the current
    task instance version"
},
"name": {
  "type": ["string", "null"],
  "description": "Name of the
    task"
},
"description": {
  "type": ["string", "null"],
  "description": "Description of
    the task"
},
"taskId": {
  "type": "string",
  "format": "uuid",
  "description": "Reference to
    the task definition"
},
"accountId": {
  "type": ["string", "null"],
  "format": "uuid",
  "description": "Reference to
    the owning account"
},
"assignedTo": {
  "type": ["string", "null"],
  "format": "uuid",
  "description": "Reference to
    the user the task is
    assigned to"
},
"machineId": {
  "type": ["string", "null"],
  "format": "uuid",
  "description": "Reference to
    the machine the task targets,
    if applicable"
},
"triggerDate": {
  "type": ["string", "null"],
  "format": "date-time",
  "description": "Time when the
    task instance was triggered,
    if applicable"
},
"completedDate": {
  "type": ["string", "null"],
  "format": "date-time",
  "description": "Time when the
    task instance was completed,
    if applicable"
},
"createdDate": {
  "type": "string",
  "format": "date-time",
  "description": "Date and time
    when the task instance was
    created"
},
"updatedAt": {
  "type": ["string", "null"],
  "format": "date-time",
  "description": "Date and time

```

```

        when the task instance was
        last updated, if applicable"
    },
    "latestVersionUpdate": {
      "type": ["string", "null"],
      "format": "date-time",
      "description": "Date and time
        of the latest version update,
        if applicable"
    },
    "assignedToId": {
      "type": ["string", "null"],
      "format": "uuid",
      "description": "Reference to
        the user the task is
        assigned to"
    },
    "assignedToName": {
      "type": ["string", "null"],
      "description": "Name of the
        user the task is assigned
        to"
    },
    "condition": {
      "type": ["string", "null"],
      "description": "Human-readable
        summary of the trigger
        condition"
    },
    "target": {
      "type": ["string", "null"],
      "description": "Human-readable
        summary of the task target"
    },
    "scheduledDueDate": {
      "type": ["string", "null"],
      "format": "date-time",
      "description": "Scheduled due
        date for the task instance,
        if applicable"
    },
    "taskConfigurationId": {
      "type": "string",
      "format": "uuid",
      "description": "Reference to
        the originating task
        configuration"
    },
    "taskTriggerType": {
      "type": "integer",
      "description": "Trigger type
        for the task. Values:
        1=FACTORY_SCHEDULED_DAILY,
        2=FACTORY_SCHEDULED_WEEKLY,
        3=FACTORY_SCHEDULED_MONTHLY,
        4=FACTORY_SCHEDULED_ONETIME,
        5=FACTORY_UNTRIGGERED,
        6=MACHINE_SCHEDULED_DAILY,
        7=MACHINE_SCHEDULED_WEEKLY,
        8=MACHINE_SCHEDULED_MONTHLY,
        9=MACHINE_SCHEDULED_ONETIME,
        10=MACHINE_PRODUCTION_HOUR_E
        VENT, 11=MACHINE_UNIT_COUNTE
        R_EVENT, 12=MACHINE_TELEMETR
        Y_THRESHOLD_EVENT,
        13=MACHINE_EXCEEDS_STOP_TIME
        _EVENT, 14=MACHINE_UNIT_PROD
        UCED_REACHED_EVENT"
    }
  }

```

```

    },
    "friendlyName": {
      "type": ["string", "null"],
      "description": "Human-readable
        display name for the task
        instance"
    },
    "tags": {
      "type": "array",
      "description": "Tags assigned
        to the task instance",
      "items": {
        "type": "object",
        "required": ["id",
          "accountId", "name",
          "className", "sortOrder"],
        "properties": {
          "id": {
            "type": "string",
            "format": "uuid",
            "description": "Unique
              identifier for the
              tag"
          },
          "accountId": {
            "type": "string",
            "format": "uuid",
            "description":
              "Reference to
              associated account"
          },
          "name": {
            "type": "string",
            "description": "Name of
              the tag"
          },
          "className": {
            "type": "string",
            "description": "CSS
              class name used to
              style the tag"
          },
          "sortOrder": {
            "type": "integer",
            "description": "Sort
              order of the tag",
            "minimum": 0
          }
        }
      },
      "additionalProperties":
        false
    }
  },
  "subtaskItems": {
    "type": "array",
    "description": "Subtask items
      on the current task instance
      version",
    "items": {
      "type": "object",
      "required": ["id",
        "taskConfigurationSubTaskI
        d", "isCompleted"],
      "properties": {
        "id": {
          "type": "string",
          "format": "uuid",
          "description": "Unique

```

```

        identifier for the
        subtask item"
    },
    "taskConfigurationSubTaskId": {
        "type": "string",
        "format": "uuid",
        "description":
            "Reference to the
            originating task
            configuration subtask"
    },
    "name": {
        "type": ["string",
            "null"],
        "description": "Name of
            the subtask"
    },
    "isCompleted": {
        "type": "boolean",
        "description": "Flag
            indicating if the
            subtask is completed"
    }
},
"additionalProperties":
    false
}
},
"customFields": {
    "type": "array",
    "description": "Custom field
        values on the current task
        instance version",
    "items": {
        "type": "object",
        "required": ["id",
            "taskConfigurationCustomFieldId", "type"],
        "properties": {
            "id": {
                "type": "string",
                "format": "uuid",
                "description": "Unique
                    identifier for the
                    custom field value"
            },
            "taskConfigurationCustomFieldId": {
                "type": "string",
                "format": "uuid",
                "description":
                    "Reference to the
                    originating task
                    configuration custom
                    field"
            },
            "label": {
                "type": ["string",
                    "null"],
                "description": "Label
                    shown for the custom
                    field"
            },
            "type": {
                "type": "integer",
                "description": "Custom
                    field type. Values:

```

```

        0=Text, 1=TextArea,
        2=Number,
        3=ActivationTime,
        4=DateTimePicker,
        5=Checkbox, 6=Link,
        7=Switch,
        8=UnitInformation,
        9=CustomDropdown,
        10=UserSelector,
        11=TelemetryValue,
        12=TelemetryValueCheck
    },
    "typeSettings": {
        "type": ["string",
        "null"],
        "description":
        "Serialized
        configuration for the
        field type"
    },
    "value": {
        "type": ["string",
        "null"],
        "description": "Stored
        value for the custom
        field"
    }
},
"additionalProperties":
false
},
"taskConfigurationAttachments":
{
    "type": "array",
    "description": "Attachments
    inherited from the task
    configuration",
    "items": {
        "type": "object",
        "required":
        ["taskConfigurationId",
        "blobReferenceId"],
        "properties": {
            "id": {
                "type": ["string",
                "null"],
                "format": "uuid",
                "description": "Unique
                identifier for the
                attachment"
            },
            "taskConfigurationId": {
                "type": "string",
                "format": "uuid",
                "description":
                "Reference to the
                originating task
                configuration"
            },
            "fileName": {
                "type": ["string",
                "null"],
                "description": "Original
                file name of the
                attachment"
            }
        }
    }
},

```

```

        "blobReferenceId": {
          "type": "string",
          "format": "uuid",
          "description":
            "Reference to the
            stored blob resource"
        }
      },
      "additionalProperties":
        false
    }
  },
  "taskStatus": {
    "type": ["object", "null"],
    "description": "Current task
      status for the task
      instance",
    "required": ["id", "accountId",
      "sortOrder", "isStartOfFlow",
      "isEndOfFlow"],
    "properties": {
      "id": {
        "type": "string",
        "format": "uuid",
        "description": "Unique
          identifier for the task
          status"
      },
      "accountId": {
        "type": "string",
        "format": "uuid",
        "description": "Reference
          to associated account"
      },
      "name": {
        "type": ["string", "null"],

        "description": "Name of
          the task status"
      },
      "className": {
        "type": ["string", "null"],

        "description": "CSS class
          name used to style the
          task status"
      },
      "sortOrder": {
        "type": "integer",
        "description": "Sort order
          of the task status",
        "minimum": 0
      },
      "isStartOfFlow": {
        "type": "boolean",
        "description": "Flag
          indicating if this
          status starts the task
          flow"
      },
      "isEndOfFlow": {
        "type": "boolean",
        "description": "Flag
          indicating if this
          status ends the task
          flow"
      }
    }
  }
}

```

```

    },
    "additionalProperties": false
  },
  "taskPriority": {
    "type": ["object", "null"],
    "description": "Priority
      assigned to the task
      instance",
    "required": ["id", "accountId",
      "sortOrder"],
    "properties": {
      "id": {
        "type": "string",
        "format": "uuid",
        "description": "Unique
          identifier for the task
          priority"
      },
      "accountId": {
        "type": "string",
        "format": "uuid",
        "description": "Reference
          to associated account"
      },
      "name": {
        "type": ["string", "null"],

        "description": "Name of
          the task priority"
      },
      "className": {
        "type": ["string", "null"],

        "description": "CSS class
          name used to style the
          task priority"
      },
      "sortOrder": {
        "type": "integer",
        "description": "Sort order
          of the task priority",
        "minimum": 0
      }
    },
    "additionalProperties": false
  },
  "taskType": {
    "type": "string",
    "enum": ["OnSchedule",
      "MachineEvents",
      "Untriggered", "Placeholder",
      "QualityControl"],
    "description": "Category of
      the task"
  },
  "deadline": {
    "type": ["string", "null"],
    "format": "date-time",
    "description": "Deadline for
      the task instance, if
      applicable"
  },
  "automationRules": {
    "type": "array",
    "description": "Automation
      rules attached to the task
      configuration",

```

```

"items": {
  "type": "object",
  "required": ["when",
    "action", "order"],
  "properties": {
    "id": {
      "type": ["string",
        "null"],
      "format": "uuid",
      "description": "Unique
        identifier for the
        automation rule"
    },
    "when": {
      "type": "integer",
      "description": "Event
        that triggers the
        automation rule.
        Values:
        1=TaskInstanceStatusCh
        ange"
    },
    "taskStatusId": {
      "type": ["string",
        "null"],
      "format": "uuid",
      "description":
        "Reference to the task
        status that triggers
        the rule, if
        applicable"
    },
    "taskStatusName": {
      "type": ["string",
        "null"],
      "description": "Name of
        the task status that
        triggers the rule"
    },
    "action": {
      "type": "integer",
      "description": "Action
        performed by the
        automation rule.
        Values: 1=TriggerTask"
    },
    "targetTaskConfigurationId": {
      "type": ["string",
        "null"],
      "format": "uuid",
      "description":
        "Reference to the task
        configuration targeted
        by the action, if
        applicable"
    },
    "targetTaskConfigurationName": {
      "type": ["string",
        "null"],
      "description": "Name of
        the targeted task
        configuration"
    },
    "order": {
      "type": "integer",
      "description":

```

```

        "Execution order of
        the automation rule",
        "minimum": 0
    }
},
"additionalProperties":
    false
}
},
"versions": {
    "type": "array",
    "description": "Full version
    history for the task
    instance, ordered by
    version",
    "items": {
        "type": "object",
        "required":
            [
                "taskId",
                "version", "createdDate",
                "subTasks"
            ],
        "properties": {
            "taskId": {
                "type": "string",
                "format": "uuid",
                "description":
                    "Reference to the
                    parent task instance"
            },
            "assignedToId": {
                "type": [
                    "string",
                    "null"
                ],
                "format": "uuid",
                "description":
                    "Reference to the user
                    assigned at this
                    version, if
                    applicable"
            },
            "taskId": {
                "type": [
                    "string",
                    "null"
                ],
                "format": "uuid",
                "description":
                    "Reference to the task
                    status at this version,
                    if applicable"
            },
            "taskStatus": {
                "type": [
                    "object",
                    "null"
                ],
                "description": "Task
                status snapshot at
                this version",
                "required": [
                    "id",
                    "accountId",
                    "sortOrder",
                    "isStartOfFlow",
                    "isEndOfFlow"
                ],
                "properties": {
                    "id": {
                        "type": "string",
                        "format": "uuid",
                        "description":
                            "Unique identifier
                            for the task
                            status"
                    },

```

```

    "accountId": {
      "type": "string",
      "format": "uuid",
      "description":
        "Reference to
        associated
        account"
    },
    "name": {
      "type": ["string",
        "null"],
      "description": "Name
        of the task
        status"
    },
    "className": {
      "type": ["string",
        "null"],
      "description": "CSS
        class name used to
        style the task
        status"
    },
    "sortOrder": {
      "type": "integer",
      "description": "Sort
        order of the task
        status",
      "minimum": 0
    },
    "isStartOfFlow": {
      "type": "boolean",
      "description": "Flag
        indicating if this
        status starts the
        task flow"
    },
    "isEndOfFlow": {
      "type": "boolean",
      "description": "Flag
        indicating if this
        status ends the
        task flow"
    }
  },
  "additionalProperties":
    false
},
"version": {
  "type": "integer",
  "description":
    "Sequential version
    number for the task
    instance",
  "minimum": 1
},
"updatedById": {
  "type": ["string",
    "null"],
  "format": "uuid",
  "description":
    "Reference to the user
    who created this
    version, if
    applicable"
},
"createdDate": {
  "type": "string",

```

```

    "format": "date-time",
    "description": "Date and
    time when this version
    was created"
  },
  "deadline": {
    "type": ["string",
    "null"],
    "format": "date-time",
    "description": "Deadline
    recorded at this
    version, if
    applicable"
  },
  "subTasks": {
    "type": "array",
    "description": "Subtask
    items captured at this
    version",
    "items": {
      "type": "object",
      "required": ["id",
      "taskConfigurationSu
      bTaskId",
      "isCompleted"],
      "properties": {
        "id": {
          "type": "string",
          "format": "uuid",
          "description":
            "Unique
            identifier for
            the subtask
            item"
        },
        "taskConfigurationSu
        bTaskId": {
          "type": "string",
          "format": "uuid",
          "description":
            "Reference to
            the originating
            task
            configuration
            subtask"
        }
      },
      "name": {
        "type": ["string",
        "null"],
        "description":
          "Name of the
          subtask"
      },
      "isCompleted": {
        "type": "boolean",
        "description":
          "Flag indicating
          if the subtask
          is completed"
      }
    }
  },
  "additionalProperties":
    false
}
},
"additionalProperties":
  false

```

```

    }
  },
  "additionalProperties": false
},
"errors": {
  "type": "array",
  "description": "List of any errors
    that occurred"
},
"meta": {
  "type": "object",
  "description": "Additional
    metadata about the response"
}
},
"additionalProperties": false
}

```

User

45. Create one or more operators for an account

API

POST /User/CreateOperators

URL

https://dataexport.optipeople.dk/api/User/CreateOperators?access_code=<String>

Request body

An array of operator objects to create.

```

[
  {
    "name": "string",
    "email": "string",
    "phoneNumber": "string",
    "password": "string",
    "workerId": "string",
    "cardId": "string",
    "sendCredentialsEmail": false,
    "machineIds": ["00000000-0000-0000-0000-000000000000"]
  }
]

```

- **name:** Name of the operator to create
- **email:** Email address for the operator, auto-generated if not provided. Cannot be updated after creation
- **phoneNumber:** Phone number for the operator, must start with +
- **password:** Password for the operator, auto-generated if not provided
- **workerId:** Worker identifier for the operator, recommended for later updates
- **cardId:** Card identifier for the operator, recommended for later updates

Returns

Response schema

```

{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "type": "object",
  "required": ["data", "errors", "meta"],

  "properties": {
    "data": {
      "type": "array",
      "description": "List of unique
        identifiers for the operators
        that were created",
      "items": {
        "type": "string",
        "format": "uuid",
        "description": "Unique
          identifier for a created
          operator"
      }
    },
    "errors": {
      "type": "array",
      "description": "List of any errors
        that occurred",
      "items": {
        "type": "object",
        "required": ["title", "message"],

        "properties": {
          "title": {
            "type": "string",
            "description": "Short error
              identifier"
          },
          "message": {

```

- **sendCredentialsEmail**: Flag indicating if a credentials email should be sent to the operator. Only sent when an explicit email was supplied and the address is not on the optipeople.dk domain
- **machineIds**: List of machine identifiers the operator should be assigned to

```

      "type": "string",
      "description": "Human
        readable error message"
    },
    },
    "additionalProperties": false
  },
  "meta": {
    "type": "object",
    "description": "Additional
      metadata about the response"
  }
},
"additionalProperties": false
}

```

46. Create or update operators by worker id

API

POST /User/CreateOrUpdateOperators

URL

https://dataexport.optipeople.dk/api/User/CreateOrUpdateOperators?access_code=<String>

Request body

```

[
  {
    "name": "string",
    "email": "string",
    "phoneNumber": "+4512345678",
    "password": "string",
    "workerId": "string",
    "cardId": "string",
    "sendCredentialsEmail": false,
    "machineIds": ["00000000-0000-0000-0000-000000000000"]
  }
]

```

The request body is an array of operator objects. For each item, workerId is used as the identifier: if an operator with the given workerId already exists in the account it is updated, otherwise a new operator is created.

- **[Required] name**: Name of the operator
- **[Required] workerId**: Worker identifier used to look up existing operators
- **[Optional] email**: Email address of the operator. Only used when creating a new operator
- **[Optional] phoneNumber**: Phone number in international format starting with +
- **[Optional] password**: Password for the operator. Only used when creating a new operator
- **[Optional] cardId**: Card identifier associated with the operator

Returns

Response schema

```

{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "type": "object",
  "required": ["data", "errors", "meta"],

  "properties": {
    "data": {
      "type": "array",
      "description": "List of user ids
        that were created. Updated
        operators are not included in
        this list",
      "items": {
        "type": "string",
        "format": "uuid",
        "description": "Unique
          identifier for the created
          operator"
      }
    },
    "errors": {
      "type": "array",
      "description": "List of any errors
        that occurred"
    },
    "meta": {
      "type": "object",
      "description": "Additional
        metadata about the response"
    }
  },
  "additionalProperties": false
}

```

- **[Optional] sendCredentialsEmail:** Flag indicating if credentials should be emailed after creation. Defaults to false
- **[Optional] machinelds:** List of machine ids the operator is assigned to. When provided on update, the existing machine assignments are replaced

47. Soft delete an operator

API	Returns
DELETE /User/DeleteOperator URL <code>https://dataexport.optipeople.dk/api/User/DeleteOperator?access_code=<String></code> Request body <pre>{ "operatorId": "00000000-0000-0000-0000-000000000000", "workerId": "string" }</pre> Parameters • [Optional] operatorId: Unique identifier for the operator to delete, e.g. c4e80c24-1fc1-47a4-4977-08d93ba4b9b0. Either operatorId or workerId must be supplied. • [Optional] workerId: Worker identifier of the operator to delete. Either operatorId or workerId must be supplied. Only users with the Operator role can be deleted through this endpoint.	Response schema <pre>{ "\$schema": "http://json-schema.org/draft-07/schema#", "type": "object", "required": ["data", "errors", "meta"], "properties": { "data": { "type": "object", "description": "Empty object on success", "additionalProperties": false }, "errors": { "type": "array", "description": "List of any errors that occurred" }, "meta": { "type": "object", "description": "Additional metadata about the response" } }, "additionalProperties": false }</pre>

48. Get all operators for an account with their associated machines

API	Returns
GET /User/GetOperators URL <code>https://dataexport.optipeople.dk/api/User/GetOperators?access_code=<String></code> Parameters This endpoint takes no parameters beyond access_code.	Response schema <pre>{ "\$schema": "http://json-schema.org/draft-07/schema#", "type": "object", "required": ["data", "errors", "meta"], "properties": { "data": { "type": "array", "description": "List of operator users for the account", "items": { "type": "object", "required": ["id", "name",</pre>

```

    "email", "machineIds"],
    "properties": {
      "id": {
        "type": "string",
        "format": "uuid",
        "description": "Unique
          identifier for the
          operator"
      },
      "name": {
        "type": "string",
        "description": "Name of the
          operator"
      },
      "email": {
        "type": "string",
        "format": "email",
        "description": "Email
          address of the operator"
      },
      "workerId": {
        "type": ["string", "null"],
        "description": "Worker id of
          the operator, if
          applicable"
      },
      "phoneNumber": {
        "type": ["string", "null"],
        "description": "Phone number
          of the operator, if
          applicable"
      },
      "cardId": {
        "type": ["string", "null"],
        "description": "Card id used
          by the operator to scan in,
          if applicable"
      },
      "machineIds": {
        "type": "array",
        "description": "References
          to machines the operator
          is assigned to",
        "items": {
          "type": "string",
          "format": "uuid"
        }
      }
    },
    "additionalProperties": false
  },
  "errors": {
    "type": "array",
    "description": "List of any errors
      that occurred"
  },
  "meta": {
    "type": "object",
    "description": "Additional
      metadata about the response"
  }
},
"additionalProperties": false
}

```

49. Update one or more operators

API	Returns
PUT /User/UpdateOperators URL <pre>https://dataexport.optipeople.dk/api/User/UpdateOperators?access_code=<String></pre> Request body An array of operator update objects. Operators are identified by id when supplied, otherwise by workerId. Email cannot be updated through this endpoint. Password updates are not supported; use the password reset flow instead. <pre>[{ "id": "00000000-0000-0000-0000-00000000", "name": "string", "workerId": "string", "cardId": "string", "phoneNumber": "string", "machineIds": ["00000000-0000-0000-0000-000000000000"] }]</pre> • id: Unique identifier of the operator to update. When supplied, used to locate the operator • name: Name of the operator • workerId: Worker identifier of the operator. Used to locate the operator when id is not supplied • cardId: Card identifier of the operator, if applicable • phoneNumber: Phone number of the operator in international format, starting with + • machineIds: List of machine identifiers the operator should be assigned to. The existing assignment list is replaced with this set	Response schema <pre>{ "\$schema": "http://json-schema.org/draft-07/schema#", "type": "object", "required": ["data", "errors", "meta"], "properties": { "data": { "type": "object", "description": "Empty object returned on success", "additionalProperties": false }, "errors": { "type": "array", "description": "List of any errors that occurred", "items": { "type": "object", "required": ["title", "message"], "properties": { "title": { "type": "string", "description": "Short error identifier" }, "message": { "type": "string", "description": "Human readable error message" } }, "additionalProperties": false } }, "meta": { "type": "object", "description": "Additional metadata about the response" } }, "additionalProperties": false }</pre>

Waste

50. Register all pending waste for a machine

API	Returns
POST /Waste/RegisterAllPendingWaste URL <pre>https://dataexport.optipeople.dk/api/Waste/RegisterAllPendingWaste?access_code</pre>	On success the endpoint responds with HTTP 200 and an empty body. On failure it responds with HTTP 500 and an error message string in the body.

```
=<String>&machineId=<Guid>&wasteConfigurationId=<Guid>
```

Parameters

- **[Required] machineId**: Unique identifier for the machine whose pending waste should be registered, e.g. c4e80c24-1fc1-47a4-4977-08d93ba4b9b0
- **[Required] wasteConfigurationId**: Unique identifier for the waste configuration to apply when registering the pending waste, e.g. 7b929d55-4c59-66a4-5b88-08d93ba4b9b0

Response schema

```
{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "description": "Empty response body returned on success",
  "type": "null"
}
```

Incomac App

51. Get energy optimization configuration for a device

API

GET

/IncomacApp/EnergyOptimization/GetDeviceConfiguration

URL

```
https://dataexport.optipeople.dk/incomacapp/api/EnergyOptimization/device/{deviceIoTHubId}/configuration?access_code=<String>
```

Parameters

- **[Required] deviceIoTHubId**: IoT Hub identifier of the device whose energy optimization configuration should be returned (route segment)

Returns

Response schema

```
{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "type": "object",
  "required": ["data", "errors", "meta"],

  "properties": {
    "data": {
      "type": "object",
      "required": ["globalSettings", "machineSettings"],
      "properties": {
        "globalSettings": {
          "type": "object",
          "description": "Global thresholds used to classify spot prices as cheap, neutral or expensive",
          "required": [
            "cheapLessThanPercent",
            "expensiveMoreThanPercent",
            "totalHours"
          ],
          "properties": {
            "cheapLessThanPercent": {
              "type": "number",
              "description": "Upper bound, as a percentage of the average spot price, below which a price is classified as cheap"
            },
            "expensiveMoreThanPercent": {
              "type": "number",
              "description": "Lower bound, as a percentage of the average spot price, above which a price is classified as"
            }
          }
        }
      }
    }
  }
}
```

```

        expensive"
      },
      "totalHours": {
        "type": "integer",
        "description": "Number of
        hours used to compute
        the rolling average spot
        price",
        "minimum": 0
      }
    },
    "additionalProperties": false
  },
  "machineSettings": {
    "type": "object",
    "description": "Per-machine
    energy optimization settings
    for the device",
    "required": [
      "isEnabledFanSpeed",
      "isSimulationMode",
      "country",
      "postCode",
      "currency",
      "cheapFanSpeed",
      "neutralFanSpeed",
      "expensiveFanSpeed",
      "nominalFanPowerKw",
      "pricingMode"
    ],
    "properties": {
      "isEnabledFanSpeed": {
        "type": "boolean",
        "description": "Flag
        indicating if fan speed
        energy optimization is
        enabled for the machine"
      },
      "isSimulationMode": {
        "type": "boolean",
        "description": "Flag
        indicating if the
        optimization runs in
        simulation mode without
        affecting the machine"
      },
      "country": {
        "type": ["string", "null"],

        "description": "ISO
        country code used to
        look up spot prices for
        the machine"
      },
      "postCode": {
        "type": ["string", "null"],

        "description": "Postal
        code used to look up
        spot prices for the
        machine"
      },
      "currency": {
        "type": ["string", "null"],

        "description": "Currency

```

```

        code used for spot
        prices"
    },
    "cheapFanSpeed": {
        "type": "integer",
        "description": "Fan speed
        percentage used when the
        spot price is classified
        as cheap",
        "minimum": 0,
        "maximum": 100
    },
    "neutralFanSpeed": {
        "type": "integer",
        "description": "Fan speed
        percentage used when the
        spot price is classified
        as neutral",
        "minimum": 0,
        "maximum": 100
    },
    "expensiveFanSpeed": {
        "type": "integer",
        "description": "Fan speed
        percentage used when the
        spot price is classified
        as expensive",
        "minimum": 0,
        "maximum": 100
    },
    "nominalFanPowerKw": {
        "type": "number",
        "description": "Nominal
        fan power in kilowatts"
    },
    "pricingMode": {
        "type": "string",
        "description": "Pricing
        mode used by the
        optimization",
        "enum": ["Market",
        "Fixed"]
    },
    "staticMaxFanSpeed": {
        "type": ["integer",
        "null"],
        "description": "Maximum
        fan speed percentage
        used when pricing mode
        is Fixed, if applicable",

        "minimum": 0,
        "maximum": 100
    },
    "staticElectricityRate": {
        "type": ["number", "null"],

        "description": "Fixed
        electricity rate used
        when pricing mode is
        Fixed, if applicable"
    }
},
"additionalProperties": false
}
},
"additionalProperties": false

```

```

    },
    "errors": {
      "type": "array",
      "description": "List of any errors that occurred",
      "items": {
        "type": "object",
        "required": ["title", "message"],

        "properties": {
          "title": {
            "type": "string",
            "description": "Short title of the error"
          },
          "message": {
            "type": "string",
            "description": "Human-readable error message"
          }
        }
      },
      "additionalProperties": false
    }
  },
  "meta": {
    "type": "object",
    "description": "Additional metadata about the response"
  }
},
"additionalProperties": false
}

```

52. Get current spot prices for energy optimization

API	Returns
GET /IncomacApp/EnergyOptimization/GetSpotPrices URL https://dataexport.optipeople.dk/api/IncomacApp/EnergyOptimization/GetSpotPrices?access_code=<String>[&country=<String>[&postCode=<String>[&currency=<String>]]] Parameters • [Optional] country: ISO country code for the location whose spot prices are requested. Defaults to DK • [Optional] postCode: Postal code within the country, used to resolve the local price area. Defaults to 1000 • [Optional] currency: Currency the prices should be returned in. Defaults to DKK	Response schema <pre> { "\$schema": "http://json-schema.org/draft-07/schema#", "type": "object", "required": ["data", "errors", "meta"], "properties": { "data": { "type": "object", "description": "Spot price series for the resolved price area", "required": ["area", "currency", "records"], "properties": { "area": { "type": ["string", "null"], "description": "Price area resolved from country and postal code" }, "currency": { "type": ["string", "null"], "description": "Currency the prices are expressed in" } } } } } </pre>

```

    },
    "records": {
      "type": "array",
      "description": "Hourly spot price records for the requested period",
      "items": {
        "type": "object",
        "required": ["timeUtc", "price"],
        "properties": {
          "timeUtc": {
            "type": "string",
            "format": "date-time",
            "description": "Start time of the price hour in UTC"
          },
          "price": {
            "type": "number",
            "description": "Spot price for the hour in the returned currency"
          }
        }
      },
      "additionalProperties": false
    },
    "additionalProperties": false
  },
  "errors": {
    "type": "array",
    "description": "List of any errors that occurred"
  },
  "meta": {
    "type": "object",
    "description": "Additional metadata about the response"
  },
  "additionalProperties": false
}

```

53. Create a machine notification by device IoT Hub ID

API

POST

/IncomacApp/MachineNotification/CreateByDeviceIoTHubId

URL

https://dataexport.optipeople.dk/incomacapp/api/MachineNotification/CreateByDeviceIoTHubId?access_code=<String>

Request body

```

{
  "deviceIoTHubId": "string",
  "topic": "string",
  "title": "string",

```

Returns

Response schema

```

{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "type": "object",
  "required": ["data", "errors", "meta"],

  "properties": {
    "data": {
      "type": "string",
      "format": "uuid",
      "description": "Unique identifier for the created machine"
    },

```

```
"body": "string",
"severity": 0
}
```

Body fields

- **[Required] deviceId:** IoT Hub identifier of the device that the notification is associated with
- **[Required] topic:** Topic grouping for the notification, used to correlate and dismiss related notifications
- **[Required] title:** Title shown in the push notification
- **[Required] body:** Body text shown in the push notification
- **[Required] severity:** Severity level of the notification (0 = Info, 1 = Warning, 2 = Error)

After the notification is created, a push notification is dispatched to all IncotechApp devices registered under the same account as the resolved machine.

```
notification"
},
"errors": {
  "type": "array",
  "description": "List of any errors
that occurred"
},
"meta": {
  "type": "object",
  "description": "Additional
metadata about the response"
}
},
"additionalProperties": false
}
```

54. Dismiss machine notifications for a device by topic

API

POST

/IncomacApp/MachineNotification/DismissTopicByDeviceIoTHubId

URL

https://dataexport.optipeople.dk/incomacapp/api/MachineNotification/DismissTopicByDeviceIoTHubId?access_code=<String>

Request body

```
{
  "deviceId": "string",
  "topic": "string"
}
```

Body fields

- **[Required] deviceId:** IoT Hub identifier of the device whose notifications should be dismissed
- **[Required] topic:** Topic of the notifications to dismiss for the device

Returns

Response schema

```
{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "type": "object",
  "required": ["data", "errors", "meta"],

  "properties": {
    "data": {
      "type": "object",
      "description": "Empty object on success",
      "additionalProperties": false
    },
    "errors": {
      "type": "array",
      "description": "List of any errors that occurred",
      "items": {
        "type": "object",
        "required": ["title", "message"],

        "properties": {
          "title": {
            "type": "string",
            "description": "Short title of the error"
          },
          "message": {
            "type": "string",
            "description": "Human-readable error message"
          }
        }
      }
    },
    "meta": {
      "type": "object",
      "description": "Additional metadata about the response"
    }
  }
}
```

```
    }  
  },  
  "additionalProperties": false  
}  
},  
"meta": {  
  "type": "object",  
  "description": "Additional  
  metadata about the response"  
}  
},  
"additionalProperties": false  
}
```