

SoftOne GO: API Endpoint

MatrixReport/Output



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1. MatrixReport/Output

API Endpoint: MatrixReport/Output | Retrieve Analyze Report Output Data

1.1 Summary

This **MatrixReport/Output** endpoint is used to programmatically retrieve output from Analyze Reports in the system by posting selection criteria.

This can be used e.g. to enable external systems to retrieve and synchronize data in a flexible and consistent way.

This document explains how to:

- Submit request data to fetch Analyze Report results via API
- Interpret the JSON-formatted response returned by the endpoint.

Note: This feature currently only supports Analyze Reports within the following GO modules:

- Time
- Schema
- Payroll

Reports from other modules (e.g., **Economy** or **Finance**) are **not supported** at this time.

For the latest technical reference and request/response schemas, please refer to the [Swagger documentation](#)

2. Request

This section outlines the structure, parameters, and required data used when making a request to this endpoint.

2.1 Overview

- Method: POST
- URL:

`https://apiexternal.softone.se/Personell/Report/MatrixReports/Output`

- Body: Yes

2.2 Authentication

This endpoint requires **token-based authentication** using a combination of API keys and an access token. where:

- API keys identify the company and integration
- A time-limited access token authorizes access to protected resources

All three parameters are required for successful authentication.

The access token is obtained by calling the **/Login/Token** endpoint and must be included in every authenticated request.

2.3 Parameters

Name	Type	Required	Description
apiMatrixDataSelection	array of objects	Yes	Contains all relevant selection parameters for retrieving the report.

apiMatrixDataSelection

Name	Data type	Mandatory	Description
reportId	int	Yes	
apiMatrixEmployeeSelections	array	*	See below.
apiMatrixDataSelectionDateRanges	array	*	See below.
apiMatrixDataSelectionDates	array	*	See below.
apiMatrixDataSelectionIdLists	array	*	See below.
apiMatrixDataSelectionIds	array	*	See below.
apiMatrixDataSelectionBools	array	*	See below.
apiMatrixPayrollProductRowSelections	array	*	See below.
apiMatrixDataSelectionTexts	array	*	See below.
apiMatrixColumnsSelection	array	Yes	See below.

Note: (*) Depending on matching ApiMatrixSelectionType retrieved via MatrixReport/Types the following corresponding selection criteria must be attached in the request body.

ApiMatrixSelectionType	Description	Example
0	Unknown	
1	Employee	<pre>"ApiMatrixEmployeeSelections": { "EmployeeIds": [], "IncludeEnded": "true", "IncludeHidden": "false", "IncludeVacant": "false" }]</pre>
2	DateRange	<pre>"ApiMatrixDataSelectionDateRanges": [{ "SelectFrom": "2025-05-01 00:00:00", "SelectTo": "2025-05-01 23:59:59" }]</pre>
3	Date	<pre>"ApiMatrixDataSelectionDates": [{ "TypeName": "string", "Key": "string",</pre>

		<pre>"Date": "2025-06-27T12:16:12.789Z" }]</pre>
4	IdList	<pre>"ApiMatrixDataSelectionIdLists": [{ "TypeName": "string", "Key": "string", "Ids": [0] }]]</pre>
5	Id	<pre>"ApiMatrixDataSelectionIds": [{ "TypeName": "string", "Key": "string", "Id": 0 }]]</pre>
6	Bool	<pre>"ApiMatrixDataSelectionBools": [{ "BooleanValue": true }]]</pre>
7	PayrollProduct	<pre>"ApiMatrixPayrollProductRowSelections": [{ "SysPayrollTypeLevel1": "None", "SysPayrollTypeLevel2": "None", "SysPayrollTypeLevel3": "None", "SysPayrollTypeLevel4": "None" }]]</pre>
8	Text	<pre>"ApiMatrixDataSelectionTexts": [{ "StringValue": "string" }]]</pre>

apiMatrixColumnSelections

Name	Data type	Mandatory	Description
Field	string	Yes	Name of column to be retrieved (check the personell-matrixreport-types endpoint for available names).

3. Response

The response contains the analyzed report converted from the Excel-based source into JSON. It includes an optional [ResultMessage](#), a list of [ApiMatrixDataRows](#) where each row holds a set of fields (cells), and a corresponding list of [ApiMatrixDataColumns](#) that defines the available columns. Each field in a row references its column using [ApiMatrixDataColumnKey](#), which matches the column [Key](#), making it possible to map cell values to the correct column name and title.

3.1 Schema

Reponse schema in JSON format:

```
{
  "$schema": "https://json-schema.org/draft/2020-12/schema",
  "$id": "https://example.com/schemas/analyze-report-response.json",
  "title": "Analyze Report Response",
  "type": "object",
  "additionalProperties": false,
  "required": ["ResultMessage", "ApiMatrixDataRows", "ApiMatrixDataColumns"],
  "properties": {
    "ResultMessage": {
      "type": ["string", "null"],
      "description": "Message related to the result/processing of the report."
    },
    "ApiMatrixDataRows": {
      "type": "array",
      "description": "Report output as rows.",
      "items": { "$ref": "#/$defs/ApiMatrixDataRow" }
    },
    "ApiMatrixDataColumns": {
      "type": "array",
      "description": "Report column definitions.",
      "items": { "$ref": "#/$defs/ApiMatrixDataColumn" }
    }
  },
  "$defs": {
    "ApiMatrixDataRow": {
      "type": "object",
      "additionalProperties": false,
      "required": ["RowKey", "ApiMatrixDataFields"],
      "properties": {
        "RowKey": {
          "type": ["string", "null"],
          "description": "Optional row identifier/key."
        },
        "ApiMatrixDataFields": {
          "type": "array",
          "description": "Fields (cells) for this row.",
          "items": { "$ref": "#/$defs/ApiMatrixDataField" }
        }
      }
    }
  }
}
```

```

},
"ApiMatrixDataField": {
  "type": "object",
  "additionalProperties": false,
  "required": ["ApiMatrixDataColumnKey", "Value", "Field"],
  "properties": {
    "ApiMatrixDataColumnKey": {
      "type": "string",
      "format": "uuid",
      "description": "References ApiMatrixDataColumns.Key."
    },
    "Value": {
      "description": "Cell value from the report.",
      "type": ["string", "number", "boolean", "null"],
      "examples": ["2376", "2026-02-28 00:00:00"]
    },
    "Field": {
      "type": "string",
      "description": "Column internal name."
    }
  }
},
"ApiMatrixDataColumn": {
  "type": "object",
  "additionalProperties": false,
  "required": ["Key", "Title", "Field"],
  "properties": {
    "Key": {
      "type": "string",
      "format": "uuid",
      "description": "Column identifier used by
ApiMatrixDataFields.ApiMatrixDataColumnKey."
    },
    "Title": {
      "type": "string",
      "description": "Language managed display title of the column."
    },
    "Field": {
      "type": "string",
      "description": "Column internal name."
    }
  }
}
}
}
}
}

```

3.2 Parameters

The following tables describe the structure of each response returned by the endpoint.

Name	Data type	Description
ResultMessage	String	Optional message
ApiMatrixDataRows	Array of objects	Contains report output in json format, see below for more info.
ApiMatrixDataColumns	Array of objects	Contains report column names, see below for more info.

ApiMatrixDataRows

Name	Data type	Description
RowKey	String	
ApiMatrixDataFields	Array of objects	Contains report in json format

ApiMatrixDataFields

Name	Data type	Description
ApiMatrixDataColumnKey	String	
Value	Guid	Value from report for the individual field.
Field	String	Field internal name.

ApiMatrixDataColumns

Name	Data type	Description
Key	String	
Value	Guid	Language managed name of title.
Field	String	Column internal name.

3.3 Examples

Get started

POST

<https://apiexternal.softone.se/Personell/Report/MatrixReports/Output?companyApiKey=param1&connectApiKey=param2&token=param3>

Body

```
{
  "ReportId": "203177",
```

```

"ApiMatrixDataSelectionDateRanges": [
  {
    "SelectFrom": "2025-05-01 00:00:00",
    "SelectTo": "2025-05-01 23:59:59"
  }
],
"ApiMatrixEmployeeSelections": {
  "EmployeeIds": [

  ],
  "IncludeEnded": "true",
  "IncludeHidden": "false",
  "IncludeVacant": "false"
},
"ApiMatrixColumnsSelection": {
  "ApiMatrixColumnSelections": [
    {
      "Field": "employeeNr"
    }
  ]
}
}

```

Response

```

[
  {
    "ResultMessage": null,
    "ApiMatrixDataRows": [
      {
        "RowKey": null,
        "ApiMatrixDataFields": [
          {
            "ApiMatrixDataColumnKey": "2f8a370d-91ed-47ee-a1a1-
2203eb40f470",
            "Value": "4612",
            "Field": "employeeNr"
          }
        ]
      },
      {
        "RowKey": null,
        "ApiMatrixDataFields": [
          {
            "ApiMatrixDataColumnKey": "2f8a370d-91ed-47ee-a1a1-
2203eb40f470",
            "Value": "5050",
            "Field": "employeeNr"
          }
        ]
      }
    ]
  }
],

```

```

    "ApiMatrixDataColumns": [
      {
        "Key": "2f8a370d-91ed-47ee-a1a1-2203eb40f470",
        "Title": "Anställningsnummer",
        "Field": "employeeNr"
      }
    ]
  }
]

```

Retrieve long term sick leave report

POST

[https://apiexternal.softone.se/Personell/Report/MatrixReports/Output?companyApiKey=param1&connectApiKey= param2&token=param3](https://apiexternal.softone.se/Personell/Report/MatrixReports/Output?companyApiKey=param1&connectApiKey=param2&token=param3)

Body

```

{
  "ReportId": "182576",
  "ApiMatrixDataSelectionDateRanges": [
    {
      "SelectFrom": "2025-11-27",
      "SelectTo": "2026-03-27"
    }
  ],
  "ApiMatrixEmployeeSelections": {
    "EmployeeIds": [],
    "IncludeEnded": "true",
    "IncludeHidden": "false",
    "IncludeVacant": "false"
  },
  "ApiMatrixDataSelectionTexts": [
    {
      "StringValue": "1",
      "Key": "numberOfDays",
      "TypeName": "string"
    }
  ],
  "ApiMatrixColumnsSelection": {
    "ApiMatrixColumnSelections": [
      {
        "Field": "employeeNr"
      },
      {
        "Field": "startDateInInterval"
      }
    ]
  }
}

```

```

    {
      "Field": "endDateInInterval"
    }
  ]
}
}

```

Response

```

{
  "ResultMessage": null,
  "ApiMatrixDataRows": [
    {
      "RowKey": null,
      "ApiMatrixDataFields": [
        {
          "ApiMatrixDataColumnKey": "5bb3353c-7ed3-4c51-9860-901dcbf81378",
          "Value": "2376",
          "Field": "employeeNr"
        },
        {
          "ApiMatrixDataColumnKey": "6d584b3f-8bec-41a4-acc1-a26bd3cfc075",
          "Value": "2026-02-28 00:00:00",
          "Field": "startDateInInterval"
        }
      ]
    },
    {
      "RowKey": null,
      "ApiMatrixDataFields": [
        {
          "ApiMatrixDataColumnKey": "5bb3353c-7ed3-4c51-9860-901dcbf81378",
          "Value": "2423",
          "Field": "employeeNr"
        },
        {
          "ApiMatrixDataColumnKey": "6d584b3f-8bec-41a4-acc1-a26bd3cfc075",
          "Value": "2026-02-28 00:00:00",
          "Field": "startDateInInterval"
        }
      ]
    },
    {
      "RowKey": null,
      "ApiMatrixDataFields": [
        {
          "ApiMatrixDataColumnKey": "5bb3353c-7ed3-4c51-9860-901dcbf81378",
          "Value": "2424",
          "Field": "employeeNr"
        },
        {
          "ApiMatrixDataColumnKey": "6d584b3f-8bec-41a4-acc1-a26bd3cfc075",

```

```
        "Value": "2025-12-16 00:00:00",
        "Field": "startDateInInterval"
    }
]
},
{
    "RowKey": null,
    "ApiMatrixDataFields": [
        {
            "ApiMatrixDataColumnKey": "5bb3353c-7ed3-4c51-9860-901dcbf81378",
            "Value": "2424",
            "Field": "employeeNr"
        },
        {
            "ApiMatrixDataColumnKey": "6d584b3f-8bec-41a4-acc1-a26bd3cfc075",
            "Value": "2026-02-05 00:00:00",
            "Field": "startDateInInterval"
        }
    ]
}
],
"ApiMatrixDataColumns": [
    {
        "Key": "5bb3353c-7ed3-4c51-9860-901dcbf81378",
        "Title": "Anställningsnummer",
        "Field": "employeeNr"
    },
    {
        "Key": "6d584b3f-8bec-41a4-acc1-a26bd3cfc075",
        "Title": "Startdatum i interval",
        "Field": "startDateInInterval"
    }
]
]
```

4. Additional information

This section contains additional information.

4.1 Best Practises

Unlike in SoftOne GO, where Analyze Reports can run **asynchronously**, API calls are subject to **timeout limits**.

Here's how to make sure your integration doesn't fail due to long-running report generation:

Timeout limit: 240 seconds

- If the report can't be generated within this time, the request will **time out** and you'll get an error.

Best practice to avoid timeouts:

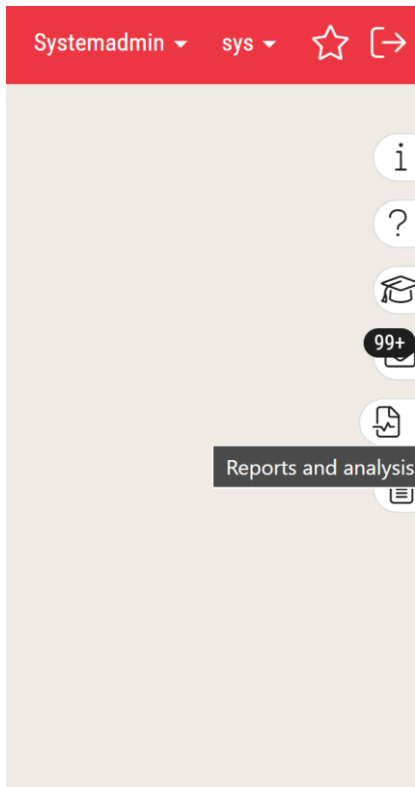
- **Reduce the size of the dataset:**
 - Fewer employees over a longer period
 - Or one day at a time for all employees
- **Split requests** into smaller chunks and combine them on your side (e.g. in Power BI)

This makes your integration more stable and responsive — especially when dealing with large reports.

4.2 SoftOne GO UI Mapping

This section explains how the API data relates to the UI/logic in SoftOne GO. It helps new integrators connect what they see in the system with what they get via the API.

Navigate to <https://go.softone.se>



Click on the **Report and analysis** icon on right side of the screen.

Reports and analysis

Favorites ☆ Reports Reports Analysis Analysis Printed (queue)

Also show not uploaded

Search

Staff

Employee

- ☆ Anställning Kontering 10241
- ☆ Anställningsuppgifter 123

Schedule

- ☆ Planerad tid 123456654

Time

- ☆ Attestunderlag 1024
- ☆ Bemanningstatistik 1018
- ☆ Kostnadsanalys 1022
- ☆ Långtidsfrånvaro 1037
- ☆ Närvarostämplingar 999

Salary

- ☆ 1035 1212
- ☆ Löneunderlag 1254

HR

- ☆ Användare 10071
- ☆ Förändringar Anställd externt system 50010
- ☆ Organisation 1013

No grouping

- ☆ Importerad frekvensinformation 2041
- ☆ Rapportstatistik 1025

From here you are able to view all analyze reports available. Click on one of the reports to open up next screen.

Start by applying all selection parameters in upper section of the report. Then proceed by adding fields for displaying from the available fields section.

Press the create table button to create the report.

Report	Ordered/Printed	Status
Bemanningstatistik	6/23/25 7:20 PM	Download Delete
Bemanningstatistik	6/23/25 5:34 PM	Download Delete
Bemanningstatistik	6/23/25 6:09 PM	Download Delete

The report is queued and once finished ready to be displayed.

Note: Once logged in, your account will have access to the system based on the permissions configured by your company administrator. If something doesn't work as expected, please contact the administrator for assistance.