

SoftOne GO: Use case (API)

Fetching Analyze Report Data via API (for Power BI)



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1. Summary

1.1 Introduktion till att det aktiva schemat i SoftOne GO

You're used to running Analyze Reports manually in SoftOne GO, but now you're building a Power BI report and want to fetch the data programmatically instead of exporting it manually.

Good news: there's an API for that!

This use case shows how to use two endpoints together to get the data you need – directly from the system.

2. How it works (3-step process)

2.1 Step 1: Authenticate

Endpoint: GET /token/login

This gives you:

- A token used for authentication purposes.

You use this to retrieve the **token** in further requests.

For more information, read [Identification and Token Generation - POST login-token](#).

2.2 Step 2: Find your report and fields

Endpoint: GET /matrixreport/types

This gives you:

- A list of all available Analyze Reports in your customer instance
- Metadata about each report (fields/columns, filters, etc.)

You use this to find the **report ID**, and see what filters and columns are available.

For more information, read [Retrieve Analyze Reports Available Metadata - GET personell-report-matrixreports-types](#)

Request example:

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

Response example:

```
[
  {
    "GroupName": "Tid",
    "SysReportTemplateTypeId": 1001,
    "ReportNr": 1234,
    "Name": "Attestunderlag",
    "ReportId": 203177,
    "Description": null,
    "ApiMatrixReportSelectionInfos": [
      {
        "ApiMatrixSelectionType": 1,
        "Key": null,
        "Description": null
      },
      {
        "ApiMatrixSelectionType": 2,
        "Key": null,
        "Description": null
      }
    ],
    "ApiMatrixColumns": [
      {
        "Field": "employeeNr",
        "Title": "Anställningsnummer"
      },
      {
        "Field": "employeeName",
        "Title": "Namn"
      },
      {
        "Field": "employmentType",
        "Title": "Anställningsform"
      },
      {
        "Field": "employeeGroup",
        "Title": "Tidavtal"
      },
      ...
    ]
  }
]
```

2.3 Step 3: Get the actual report data

Endpoint: POST /matrixreport/output

Once you know the report ID and what data you're after, you call this endpoint with your selection criteria.

It returns the **report content as JSON** – perfect for Power BI or any system that can parse structured data.

For more information, read: **Retrieve Analyze Report Output Data - POST personell-report-matrixReports-output**

Request example:

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

```
{
  "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 example:

```
[
  {
    "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"
  }
]
}
]

```

3. Things to Know

- The API currently supports Analyze Reports from **Time**, **Schema**, and **Payroll** modules.
 - Reports from modules like *Economy* or *Finance* are not available yet.
- The result is **not** a PDF or Excel – it's **raw JSON**, which is easier to work with for automated analysis.
- What you see in the UI is (mostly) what you'll get via the API – same filters, same data structure.

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:

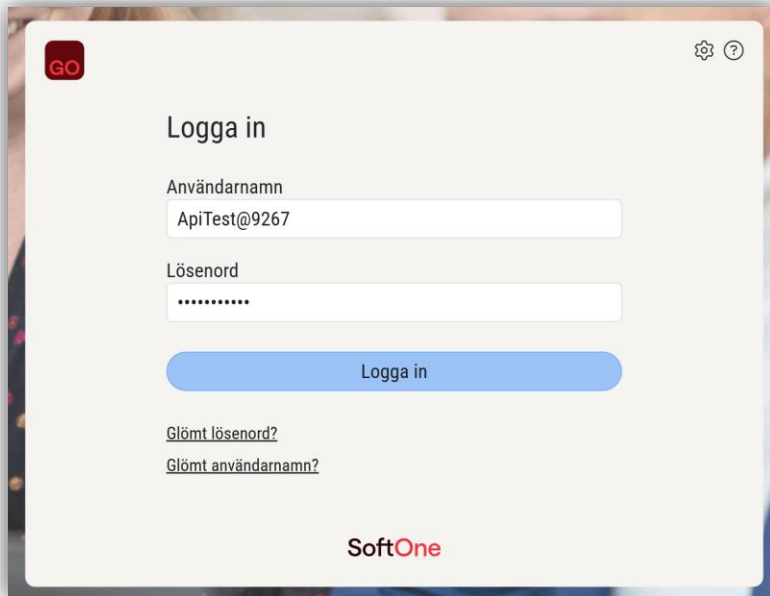
- **Reduce the size of the dataset:**
 - Fewer employees over a longer period
 - Or one day at a time for all employees
- **Split requests** into smaller chunks and combine them on your side (e.g. in Power BI)

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

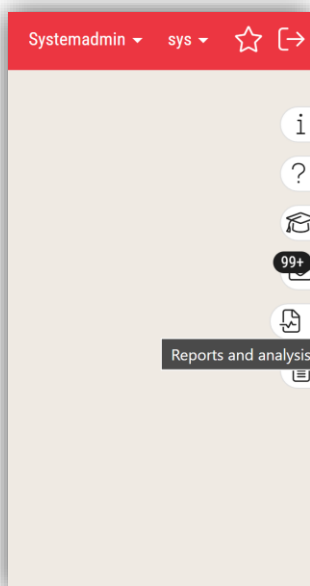
3.1 Application Reference – SoftOne GO

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>



Perform Login using api account credentials



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

Reports and analysis

Favorites ☆

Reports

Analysis

Printed (queue)

☐ Also show not uploaded

▼ 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

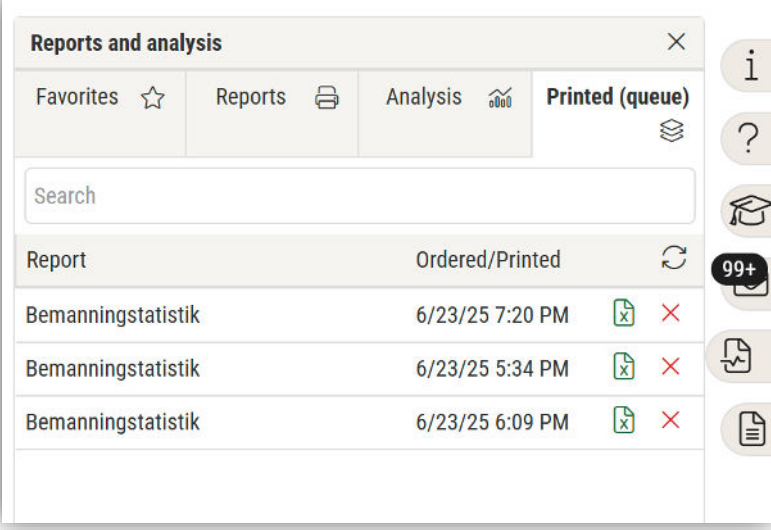
From here you are able to view all analyze reports available. Click on one of the reports to open up next screen.

The screenshot shows the 'Reports and analysis - Attestunderlag' window. The top bar has a 'New selection' dropdown, a save icon, a close icon, and a button labeled 'Analysis - Table'. Below this is the 'Selection' section with various filters. The 'Employees' section has checkboxes for 'Include inactive', 'Only show inactive', 'Show vacant', and 'Show free shift'. The 'Base on' section has a dropdown for 'The person's affiliation' and a button 'Include employees with affiliations according to selection'. The 'Region' section has a dropdown for 'Kostnadsställe', a dropdown for 'Ledning', and a dropdown for 'Passtyp'. The 'Time agreement', 'Holiday agreement', and 'Salary agreement' sections each have a dropdown. The 'Employees' section shows '0 of 2243 selected'. The bottom section has a 'New selection' dropdown, a 'Select all fields' button, and a 'Remove all fields' button. Below this are two lists: 'Available fields (click to select)' and 'Selected fields'. The 'Available fields' list includes 'Employee ID', 'Employment type', and 'Time agreement'. The 'Selected fields' list includes 'Name' and 'Working days'. The right sidebar has a 'Favorites' section with a search bar and a list of items: 'Staff', 'Employee', 'Schedule', 'Time', 'Salary', and 'HR'. Each item has a star icon and a number.

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

This screenshot shows the top part of the 'Reports and analysis - Attestunderlag' window. It includes the 'New selection' dropdown, the save icon, the close icon, and the 'Analysis - Table' button. A 'Create' button is visible in the bottom right corner of the window.

Press the create table button to create the report.



Reports and analysis			
Favorites ☆	Reports 🖨️	Analysis 📊	Printed (queue) 📄
Search			
Report	Ordered/Printed		
Bemannungstatistik	6/23/25 7:20 PM	📄	✖
Bemannungstatistik	6/23/25 5:34 PM	📄	✖
Bemannungstatistik	6/23/25 6:09 PM	📄	✖

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.