

**SoftOne GO: API Endpoint**

# Schedule/LeaveRequests



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**SoftOne**

Business software with serious flex

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# 1. Schedule/LeaveRequests

Endpoint: **Schedule/LeaveRequests** | Fetch employee leave requests

## 1.1 Summary

The **LeaveRequests** endpoint returns leave request data within a specified date range, including status and lifecycle information. Optional parameters allow filtering and inclusion of affected shifts and periods.

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

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.

Datetime parameters may include a timezone offset. If included format according to ISO 8601, including timezone offset, e.g.

- UTC (zero offset) 2025-12-12T00:00:00Z
- With positive offset (ahead of UTC) 2025-12-12T00:00:00+01:00
- With negative offset (behind UTC) 2025-12-12T00:00:00-05:00

### 2.1 Overview

- Method: GET
- URL:

```
https://apiexternal.softone.se/Personell/Schedule/leaveRequests
?companyApiKey={companyApiKey}
&connectApiKey={connectApiKey}
&token={token}
&dateFrom={dateFrom}
&dateTo={dateTo}
&employeeNrsString={employeeNrsString}
&employeeRequestIds={employeeRequestIds}
&modifiedAfter={modifiedAfter}
&includeAffectedPeriods=true|false
&includeAffectedShifts=false|false
```

### 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
companyApiKey	string	Yes	Identifies the company whose data is being accessed
connectApiKey	string	Yes	Identifies the integration partner / connecting application
token	string	Yes	Access token used to authenticate the request
dateFrom	dateTime	Yes	Start of date interval (inclusive)
dateTo	dateTime	Yes	End of date interval (inclusive)
employeeNrsString	string	Yes	Employee filter. Can be left empty to fetch <b>all</b> leave requests.
employeeRequestIds	string / list*	No	Fetch only specific leave request(s) by ID(s).  * Use the format defined by your Swagger UI / implementation (e.g., comma-separated IDs)
modifiedAfter	dateTime	No	Return leave requests modified after this timestamp.
createdAfter	dateTime	No	Return leave requests created after this timestamp.
createdOrModifiedAfter	dateTime	No	Return leave requests created <b>or</b> modified after this timestamp (recommended for sync).
includeAffectedShifts	boolean	false	<p>If includeAffectedShifts=true, the response includes an <b>affectedShifts</b> array containing:</p> <ul style="list-style-type: none"> <li>• shift time boundaries (startTime, stopTime)</li> <li>• absence time boundaries (absenceStartTime, absenceStopTime)</li> </ul> <p>This enables retrieving the same information as in the UI:  <b>Staff</b> → <b>Planning</b> → <b>Approve leave</b> → <b>Selected leave</b> → <b>Load/Update affected shifts</b></p>
includeAffectedPeriods	boolean	false	<p>If includeAffectedPeriods=true, the response includes an affectedPeriods array.</p> <p>To connect periods to a specific leave request in downstream integrations, each period includes a <b>periodReferenceId</b> composed of:</p> <ul style="list-style-type: none"> <li>• LeaveRequestId + StartDate of the period (plus a sequence/type suffix)</li> </ul>

			Example format (from response): 19607-20251212-1-P
--	--	--	---

### 3. Response

Each object represents a single leave request for an employee, including its time range, status, audit information, and optional detailed impact data such as affected shifts, periods, and extended absence rules.

Datetime values are returned in the system's default time zone (CET, Central European Time). No timezone offset is included unless otherwise stated.

#### 3.1 Schema

Response schema in JSON format:

```
[
  {
    "employeeRequestId": 0,
    "employeeId": 0,
    "employeeName": "string",
    "employeeNumber": "string",
    "employeeExternalCode": "string",
    "timeDeviationCauseId": 0,
    "timeDeviationCauseName": "string",
    "timeDeviationCauseExternalCode": "string",
    "employeeChildName": "string",
    "start": "2026-01-22T17:20:06.098Z",
    "stop": "2026-01-22T17:20:06.098Z",
    "comment": "string",
    "created": "2026-01-22T17:20:06.098Z",
    "createdBy": "string",
    "modified": "2026-01-22T17:20:06.098Z",
    "modifiedBy": "string",
    "status": "None",
    "statusName": "string",
    "state": "Active",
    "stateName": "string",
    "resultStatus": "None",
    "resultStatusName": "string",
    "extendedAbsenceSettings": {
      "absenceFirstAndLastDay": true,
      "absenceWholeFirstDay": true,
      "absenceFirstDayStart": "string",
      "absenceWholeLastDay": true,
      "absenceLastDayStop": "string",
      "percentalAbsence": true,
      "percentalValue": 0,
      "percentalAbsenceOccursStartOfDay": true,
      "percentalAbsenceOccursEndOfDay": true,
      "adjustAbsencePerWeekDay": true,
      "adjustAbsenceAllDaysStart": "string",
      "adjustAbsenceAllDaysStop": "string",
      "adjustAbsenceMonStart": "string",
      "adjustAbsenceMonStop": "string",
      "adjustAbsenceTueStart": "string",
```

```

    "adjustAbsenceTueStop": "string",
    "adjustAbsenceWedStart": "string",
    "adjustAbsenceWedStop": "string",
    "adjustAbsenceThuStart": "string",
    "adjustAbsenceThuStop": "string",
    "adjustAbsenceFriStart": "string",
    "adjustAbsenceFriStop": "string",
    "adjustAbsenceSatStart": "string",
    "adjustAbsenceSatStop": "string",
    "adjustAbsenceSunStart": "string",
    "adjustAbsenceSunStop": "string"
  },
  "affectedShifts": [
    {
      "periodReferenceId": "string",
      "actualDate": "string",
      "startTime": "2026-01-22T17:20:06.098Z",
      "stopTime": "2026-01-22T17:20:06.098Z",
      "absenceStartTime": "2026-01-22T17:20:06.098Z",
      "absenceStopTime": "2026-01-22T17:20:06.098Z"
    }
  ],
  "affectedPeriods": [
    {
      "periodReferenceId": "string",
      "actualDate": "string",
      "startTime": "2026-01-22T17:20:06.098Z",
      "stopTime": "2026-01-22T17:20:06.098Z"
    }
  ]
}
]

```

### 3.2 Parameters

Field	Type	Description
employeeRequestId	integer	Unique identifier of the leave request
employeeId	integer	Internal employee ID
employeeName	string	Full name of the employee
employeeNumber	string	Employee number in SoftOne
employeeExternalCode	string	External employee reference
timeDeviationCauseId	integer	ID of the leave/absence type
timeDeviationCauseName	string	Name of the leave/absence type
timeDeviationCauseExternalCode	string	External reference for the absence type
employeeChildName	string	Name of child (if applicable)
start	dateTime	Start of the leave period
stop	dateTime	End of the leave period
comment	string	Comment entered on the leave request (2048 characters)

created	dateTime	When the leave request was created
createdBy	string	User who created the request
modified	dateTime	Last modification timestamp
modifiedBy	string	User who last modified the request
status	integer	Leave request status code
statusName	string	Human-readable status
state	integer	Lifecycle state
stateName	string	Human-readable state
resultStatus	integer	Result of the request
resultStatusName	string	Human-readable result

**Note:****timeDeviationCauseId/Name/ExternalCode**

the identifier of the leave reason as defined under Staff -> Settings -> Time -> Deviation Causes

**status / statusName**

- 0 None
- 1 RequestPending
- 2 Preliminary
- 3 Definite
- 4 PartlyDefinite
- 5 Restored

**resultStatus / resultStatusName**

- 0 None
- 1 PartlyGranted
- 2 FullyGranted
- 3 PartlyDenied
- 4 FullyDenied
- 5 PartlyGrantedPartlyDenied

**state / stateName**

- 0 Active
- 1 Inactive
- 2 Deleted
- 3 Temporary
- 4 Hidden

**ExtendedAbsenceSettings**

**When present**, this array describes detailed rules for partial or percentage-based absences, including how absence time is calculated per day or weekday.

Field	Type	Description
AbsenceFirstAndLastDay	boolean	Indicates special handling for first and last day
AbsenceWholeFirstDay	boolean	Indicates if first day is a full-day absence
AbsenceFirstDayStart	time	Start time for absence on first day
AbsenceWholeLastDay	boolean	Indicates if last day is a full-day absence
AbsenceLastDayStart	time	Start time for absence on last day
PercentalAbsence	boolean	Indicates percentage-based absence
PercentalValue	decimal	Absence percentage (e.g. 50.00)
PercentalAbsenceOccursStartOfDay	boolean	Percentage applies from start of day
PercentalAbsenceOccursEndOfDay	boolean	Percentage applies until end of day
AdjustAbsencePerWeekDay	boolean	Enables weekday-specific adjustments
AdjustAbsenceMonStart	time	Adjusted start time for Monday
AdjustAbsenceMonStop	time	Adjusted stop time for Monday
(Tue–Sun)	time	Same logic applies for remaining weekdays

#### affectedShifts

Returned only when includeAffectedShifts=true.

Each object represents a shift that is fully or partially affected by the leave.

Field	Type	Description
periodReferenceId	string	Unique reference linking shift to leave request
actualDate	date	Date of the affected shift
startTime	dateTime	Original shift start time
stopTime	dateTime	Original shift end time
absenceStartTime	dateTime	Start of absence within the shift
absenceStopTime	dateTime	End of absence within the shift

**affectedPeriods**

Returned only when includeAffectedPeriods=true.

Represents higher-level time periods affected by the leave (e.g. full days).

Field	Type	Description
periodReferenceId	string	Unique reference linking period to leave request
actualDate	date	Date of the affected period
startTime	dateTime	Period start
stopTime	dateTime	Period end

**Note:**

The length of the affected period for each day is 24 hours multiplied by the percentage. This setting determines how startTime and stopTime behave:

Percentage of absence

% Absence occurs in

The beginning of the day

The end of the day

When "The beginning of the day" is chosen, times are the following:

- 100 % => 00:00-23:59 (~24 h)
- 75 % => 00:00-18:00 (18 h)
- 50 % => 00:00-12:00 (12 h)
- 25 % => 00:00-06:00 (6 h)

## 4. Examples

### Fetch of all monthly leave requests skipping overhead data

#### GET

```
https://apiexternal.softone.se/Personell/Schedule/LeaveRequests?companyApiKey={companyApiKey}&connectApiKey={connectApiKey}&token={token}&dateFrom=2026-01-01&dateTo=2026-01-31&employeeNrsString=null&createdOrModifiedAfter=2026-01-05T16%3A00%2B01%3A00&includeAffectedShifts=false&includeAffectedPeriods=false
```

#### Response:

```
[
  {
    "employeeRequestId": 19607,
    "employeeId": 1222,
    "employeeName": "Martin Martinus",
    "employeeNumber": "101955",
    "employeeExternalCode": "EON003",
    "timeDeviationCauseId": 74,
    "timeDeviationCauseName": "05 Semester",
    "start": "2025-12-12T00:00:00",
    "stop": "2025-12-12T23:59:59",
    "comment": "Hunden fick opereras idag, skulle behöva vara hemma med henne imorgon. VIKTIGT!",
    "created": "2025-12-11T16:14:55.08",
    "createdBy": "101953",
    "modified": "2025-12-11T16:56:21.083",
    "modifiedBy": "100827",
    "status": 3,
    "statusName": "Definate",
    "state": 0,
    "stateName": "Active",
    "resultStatus": 2,
    "resultStatusName": "FullyGranted",
    "affectedShifts": [
      {
        "periodReferenceId": "19607-20251212-1-S",
        "actualDate": "2025-12-12",
        "startTime": "2025-12-12T14:45:00",
        "stopTime": "2025-12-12T19:00:00",
        "absenceStartTime": "2025-12-12T14:45:00",
        "absenceStopTime": "2025-12-12T19:00:00"
      },
      {
        "periodReferenceId": "19607-20251212-2-S",
        "actualDate": "2025-12-12",
        "startTime": "2025-12-12T19:00:00",
```

```
    "stopTime": "2025-12-12T20:00:00",
    "absenceStartTime": "2025-12-12T19:00:00",
    "absenceStopTime": "2025-12-12T20:00:00"
  },
  {
    "periodReferenceId": "19607-20251212-3-S",
    "actualDate": "2025-12-12",
    "startTime": "2025-12-12T20:00:00",
    "stopTime": "2025-12-12T23:30:00",
    "absenceStartTime": "2025-12-12T20:00:00",
    "absenceStopTime": "2025-12-12T23:30:00"
  }
],
"affectedPeriods": [
  {
    "periodReferenceId": "19607-20251212-1-P",
    "actualDate": "2025-12-12",
    "startTime": "2025-12-12T00:00:00",
    "stopTime": "2025-12-12T23:59:59"
  }
]
}
```

## 5. SoftOne GO UI Mapping

This section provides a high-level mapping between the SoftOne GO user interface and the data returned by this endpoint, explaining how the overall concepts and figures in the UI correspond to the API response.

### Web view

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

When:

- Part of days applies in the leave request (ExtendedAbsenceSettings exists on the leave request)

**Ledighetsansökan**

Anställd \* (100904) Jonathan Jesperberg  
 Fr.o.m. 2025-06-02  
 Orsak \* 09 Tjänstledighet  
 T.o.m. 2025-06-08  
 Hela dagar  Del av dag

**Notering**

**Semester**

Betalda dagar	30
Obetalda dagar	0
Förskott	0
Sparade år 1	0
Sparade år 2	4
Sparade år 3	2
Sparade år 4	1
Sparade år 5	10
Förfallna dagar	0
Preliminärt uttagna	0
Återstående	47

Frånvaro första och sista dagen  
 Procentuell frånvaro  
 50,00 % Frånvaro inträffar i  Början av dagen  Slutet av dagen  
 Justering per veckodag

När frånvaro inträffar i början av dagen dras den från schema in. När frånvaro inträffar i slutet av dagen dras den från schema ut.

**Berörda schemapass**

Dag	Datum	Start	Stopp	Frånvaro start	Frånvaro stop	Passtyp
Måndag	2025-06-02	08:00	17:00	08:00	12:00	/KST-8401 Ledning
Tisdag	2025-06-03	08:00	17:00	08:00	12:00	/KST-8401 Ledning
Onsdag	2025-06-04	08:00	17:00	08:00	12:00	/KST-8401 Ledning
Torsdag	2025-06-05	08:00	17:00	08:00	12:00	/KST-8401 Ledning
Freitag	2025-06-06	00:00	00:00	00:00	00:00	/KST-8401 Ledning
Lördag	2025-06-07	00:00	00:00	00:00	00:00	/KST-8401 Ledning
Söndag	2025-06-08	00:00	00:00	00:00	00:00	/KST-8401 Ledning

Godkänn alla Ersätt alla med  
 Ja

Godkänn Ersätt med  
 Ja Ingen ersättare  
 Ja Ingen ersättare  
 Ja Ingen ersättare  
 Ja Ingen ersättare  
 Ja Ingen ersättare  
 Ja Ingen ersättare  
 Ja Ingen ersättare

Använd spara knappen för att utföra planering av ansökan.

Same information can be retrieved through the integration as the one found in the UI In Staff -> Planning -> Approve leave -> Selected leave -> Load/Update affected shifts.

Applications Application Tjänstledig × + ×

Leave request

Employed \* (1012) Nicky Night Fulltime

From 5/21/25

Cause \* Tjänstledig

To 5/23/25

Note Absence 3 days

Full days  Part of the day

Holiday

Paid days	0
Unpaid days	0
Advance	0
Saved year 1	0
Saved year 2	0
Saved year 3	0
Saved year 4	0
Saved year 5	0
Overdue days	0
Preliminary used	0
Remaining	0

Load/update affected shifts

Scheduled shifts affected

Day	Date	Start	Stop	Absence start	Absence ends	Shift type
Wednesday	5/21/25	10:00 PM	7:00 AM	5/21/25 10:00 PM	5/22/25 7:00 AM	Avdelning 1
Thursday	5/22/25	10:00 PM	7:00 AM	5/22/25 10:00 PM	5/23/25 7:00 AM	Avdelning 1
Friday	5/23/25	10:00 PM	7:00 AM	5/23/25 10:00 PM	5/24/25 7:00 AM	Avdelning 1

Approve all Replace all with

Approve Replace with

Yes Yes Yes

Use the Save button to plan the application.

Mobile view

12:06

Frånvar oanmälan

Datum

Datum Onsdag 2025-11-26

Orsak

Orsak Sick leave

Spara

Orsak

Care of child (VAB)

Sick leave

## 6. Additional information

### 6.1 Best practices

Recommended guideline in usage of end point.

#### 1) Initialization (first full load)

Purpose: build the full dataset efficiently while controlling performance.

1. Call **/LeaveRequests** for a specific month
  - **without** affected shifts (includeAffectedShifts=false)
  - collect all employeeRequestId values
2. Split the IDs into batches (e.g., **10 IDs per batch**)
3. Call **/LeaveRequests** again using employeeRequestIds = batch
  - **with** affected shifts (includeAffectedShifts=true)
4. Repeat for all relevant months
5. Done, data is initialized.

#### 2) Synchronization (ongoing incremental updates)

Purpose: only retrieve changes since last successful sync.

1. Call **/LeaveRequests** with:
  - createdOrModifiedAfter = timestamp of last successful request
  - includeAffectedShifts=true (and includeAffectedPeriods if needed)
2. Repeat on an interval (e.g., **every hour**)
3. Done, data stays up to date

### 6.2 Q/A

#### Question:

If you reopen a partly approved/denied application, what will the status, result status and state be in the api-response?

#### Answer:

When a partly approved/denied application is reopened, the following happens:

1. Status will be changed from Definate (3) to:
  1. RequestPending (1) if the "Reset the application to the applicant"/"Återställ ansökan till ansökt" function is used
  2. Restored (5) if the "Reset time off"/"Återställ ledighet" function is used
2. ResultStatus is not changed and remains as it was (PartlyGranted (1), PartlyDenied (3), or PartlyGrantedPartlyDenied (5))
3. State remains Active (0)

#### Question:

If a person applies for vacation and have another kind of leave planned in the middle of the applied period, what will be the outcome for api-response?

**Answer:**

If a person applies for an absence and

1. he has an already approved absence that overlaps
  1. The already approved absence will be shown in affected shifts if we include already absence shifts
2. he has an request pending that overlaps
  1. The affected shifts will be shown in both requests