Guide
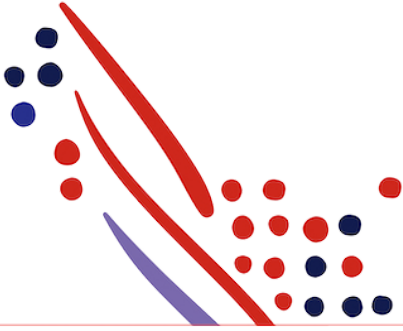
Work Schedules API Guide for ADP eXpert Brazil

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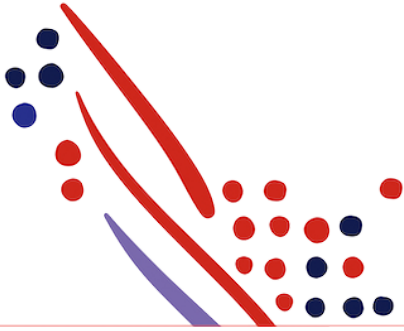
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Chapter 1
About this API

Summary

The Work Schedules API guides allows to request the Worker Work Schedule planned for the next days, concepts known as "Escala" and "Turma" in the eXpert Brazil SOR.

Also, to calculate the planned schedule for each day for the Worker, the following situations are going to be considered:

- Time Offs
- Leaves of Absence
- Planned day offs
- Work Schedule changes for specific days
- Holidays and holidays extensions
- Standard planned worker work schedule
- On notice periods

With these information, the system will then calculate if the day is a work day or day off, as well as the planned working hours (from 8:00 to 17:00 for example).

What´s new in this guide

In this section, we will announce any new revisions to the Work Schedules Application Programming Interface (API) and this guide.

March, 2023

- First revision of this document

Process Overview

The following table shows how your data connector application would be used by a client.

	Actor Task	Description
1	HR Practitioner	Trigger the API-based data exchange between your application and ADP eXpert
1	Your Application	Retrieve work schedules information details based on your needs

Required Setup Steps

There are no required setup steps.

Postman Collection

Postman allows you to import a collection of APIs, created by others, so you can try them out. For more information on Postman, see Making Your First API Call Using Postman.

Before You Begin

ADP provides a comprehensive set of pay statements APIs to stay in synch with an ADP application and do the following:

- Retrieve an employee work schedules for a period of days.
- Retrieve an employee work shift for a day.

The amount of data retrieved by your application may vary based on the target ADP system and the ADP system configurations.

Use Case: Retrieving Work Schedules Information

Before You Begin

This API contains the data of the work schedules registered in the eXpert system. In each call, you can ask for the work schedules of a employee.

API Usage

Method	URI	Description	GitHub Example
GET	/time/v2/workers/{aoid}/work-schedules	To retrieve the standard work schedule for an employee for a period of days.	Work Schedules Payload Example

Scope of Application

The canonical URI corresponding to the API needs to be added in the Consumer Application Registry (CAR) for the subscription following which a user can access this API and make successful API calls.

The following canonical needs to be added to your application scope to enable this use case:

/time/timeLaborManagement/scheduleManagement/workScheduleManagement/workSchedules.read

Supported OData Query Options

This use case supports Query String Options as defined by Open Data Protocol (OData).

Query String Option	Description	Example
Call by ID	Filter by the type of worker's work schedule	//time/v2/workers/{aoid}/work-schedules/{schedule-id}
$filter	Filter by period of days searched	$filter=/workSchedules/schedulePeriod/startDate EQ 2023-01-01 AND /workSchedules/schedulePeriod/endDate EQ 2023-01-04

> **🔔 Info**
>
> In this API, you only can access the work schedule for a limited period of days per call, so we advise that you use the filter command to inform the period of days requested. If not, the API will return the work schedule for the next 10 days.

Data Dictionary

See Appendix A: Data Dictionary on page for data retrieval.

> **ⓘ Note**
>
> All listed fields are supported for this use case.

Responses

You may encounter exceptions outside your common success scenarios. You must account for these exceptions during your initial development.

Chapter 3

Use Case: Retrieving Work Shifts Information

Before You Begin

This API contains the data of the work shifts registered in the eXpert system. In each call, you can ask for the work shift of a employee for a day.

API Usage

Method	URI	Description	GitHub Example
GET	/time/v2/workers/{aoid}/work-shifts	To retrieve the standard work shift for a worker given an specific day.	Work Shifts Payload Example

Scope of Application

The canonical URI corresponding to the API needs to be added in the Consumer Application Registry (CAR) for the subscription following which a user can access this API and make successful API calls.

The following canonical needs to be added to your application scope to enable this use case:

/time/timeLaborManagement/scheduleManagement/workScheduleManagement/workshift.read

This use case supports Query String Options as defined by Open Data Protocol (OData).

Query String Option	Description	Example
Call by ID	Filter by the type of worker's work shift	//time/v2/workers/{aoid}/work-shifts/{schedule-id}
$filter	Filter by period the day being searched.	$filter=startDate EQ 2023-03-02

🔔 Info

In this API, you only can access the work shift for a day per call, so we advise that you use the filter command to inform the day requested. If not, the API will return the work shift for the current day.

Data Dictionary

See Appendix A: Data Dictionary on page for data retrieval.

ⓘ Note

All listed fields are supported for this use case.

Responses

You may encounter exceptions outside your common success scenarios. You must account for these exceptions during your initial development.

Chapter 4

Appendixes

Appendix A: Data Dictionary

The data dictionary provides the schema resource to application user interface field mapping.

Work Schedules > itemID

Canonical Field	Label	SOR Rule	SOR Rule (in local language)
/workSchedules /workSchedules/itemID	The unique identifier of the related schedule within a collection	Work Schedule type code, according to the rule: "Standard" for time register "On notice" for over notice records	Código do tipo de Work Schedule, conforme regra abaixo: "Standard" para registros de horário "On notice" para registros de sobre aviso

Work Schedules > scheduleID

Canonical Field	Label	SOR Rule	SOR Rule (in local language)
/workSchedules/scheduleID	A unique identification of the schedule	For standard schedule: "Worker's work schedule code"_"workerID" Example: 1-1_001-1234 For notice periods: Abbreviation of the notice period_"workerID"	Para horário padrão: "Código da Escala atual do colaborador conforme histórico"-"Código da Turma atual do colaborador conforme histórico"_"workerID" Exemplo: 1-1_001-1234 Para horários de sobre aviso: Sigla do período de sobre aviso_"workerID"

Work Schedules > scheduleName

Canonical Field	Label	SOR Rule	SOR Rule (in local language)
/workSchedules/scheduleName	A descriptive name of the schedule	For standard schedule: Schedule name in the worker registry. For notice periods: Description of the notice period	Para horário padrão: Nome da turma do histórico Para horários de sobre aviso: Descrição do período de sobre aviso

Work Schedules > associateOID

Canonical Field	Label	SOR Rule	SOR Rule (in local language)
/workSchedules/associateOID	A unique identifier of a worker the schedule is related to	Worker's AOID.	AOID do colaborador.

Work Schedules > schedulePeriod

Canonical Field	Label	SOR Rule	SOR Rule (in local language)
/workSchedules/schedulePeriod /workSchedules/schedulePeriod/startDate	Work schedule period start date	Work schedule period start date	Data de início do período de Work Schedule

Canonical Field	Label	SOR Rule	SOR Rule (in local language)
/workSchedules/schedulePeriod/endDate	Work schedule period end date	Work schedule period end date	Data de fim do período de Work Schedule

Work Schedules > scheduleDays

Canonical Field	Label	SOR Rule	SOR Rule (in local language)
/workSchedules/scheduleDays	A collection of days within the schedule	Open a record in the array for each day of the period, from the start date to the end date	Será demonstrado um registro na lista para cada dia que compõe o período sendo demonstrado.
/workSchedules/scheduleDays/dayOfWeekCode /workSchedules/scheduleDays/dayOfWeekCode/name	A day of week	Day of the week	Nome do dia da semana
/workSchedules/scheduleDays/scheduleDayDate	A date identifying the schedule day	Date	Dia do registro

Work Schedules > workShifts

Canonical Field	Label	SOR Rule	SOR Rule (in local language)
/workSchedules/scheduleDays/workShifts	A collection of shifts	Worker's work shifts for the day.	Nesta lista serão demonstrados os turnos de trabalho do colaborador no dia.
/workSchedules/scheduleDays/workShifts/workShiftID	The unique identifier for a Work Shift	Shift code as registered in the eXpert	Código do horário conforme cadastrado no eXpert
/workSchedules/scheduleDays/workShifts/shiftDescription	The description of the Work Shift	Description of the work shift, if registered.	Descrição do horário, se cadastrada.
/workSchedules/scheduleDays/workShifts/shiftTypeCode /workSchedules/scheduleDays/workShifts/shiftTypeCode/name	The short description of the related code used as a coded name	Description of the shift type: For time 997: "Leave" For schedules 998 and 999: "Day off" For other schedules: "Work day"	Descrição do tipo de horário: Para horário 997: "Leave" Para horários 998 e 999: "Day off" Para demais horários: "Work day"
/workSchedules/scheduleDays/workShifts/shiftDateTimePeriod /workSchedules/scheduleDays/workShifts/shiftDateTimePeriod/startDateTime	Defines the startDatetime and endDateTime for the work shift.	Shift start date/time.	Data/hora de início do horário

Canonical Field	Label	SOR Rule	SOR Rule (in local language)
/workSchedules/scheduleDays/workShifts/shiftDateTimePeriod/endDateTime	Time end of date/time	Shift end date/time	Data/hora de fim do horário
/workSchedules/scheduleDays/workShifts/totalTime /workSchedules/scheduleDays/workShifts/totalTime/timeValue	The total amount of time from the start of a work shift to the end of the work shift expressed as hh:mm	Total hours of the schedule Empty for time off, DSR, leave	Total de Horas do horário Não demonstrar para horários de folga, DSR, afastamento
/workSchedules/scheduleDays/workShifts/shiftSegments	The collection of shift segments that occur in the work shift.	Open an object for every pair of clock entries. Example: 08:00 12:00 13:00 17:00 We would have: An object for 08:00 12:00 An object for 12:00 13:00 An object for 13:00 17:00	Abrir um objeto para cada par de batidas de ponto Exemplo: 08:00 12:00 13:00 17:00 Teríamos: Um objeto para 08:00 12:00 Um objeto para 12:00 13:00 Um objeto para 13:00 17:00
/workSchedules/scheduleDays/workShifts/shiftSegments/segmentTypeCode	The type of shift segment (e.g. work, break, etc.)	"Work" for periods of work "Break" for meal/break periods	"Work" para períodos de trabalho "Break" para períodos de refeição/pausa
/workSchedules/scheduleDays/workShifts/shiftSegments/segmentDateTimePeriod /workSchedules/scheduleDays/workShifts/shiftSegments/segmentDateTimePeriod/startDateTime	The string representation of the date-time value	Pair entry time Example: 08:00 12:00 13:00 17:00 We would have: 08:00 12:00 13:00 Do not demonstrate for time off, DSR, leave	Horário da entrada do par Exemplo: 08:00 12:00 13:00 17:00 Teríamos: 08:00 12:00 13:00 Não demonstrar para horários de folga, DSR, afastamento
/workSchedules/scheduleDays/workShifts/shiftSegments/segmentDateTimePeriod/endDateTime	The string representation of the date-time value	Pair end time Example: 08:00 12:00 13:00 17:00 We would have: 12:00 pm 13:00 17:00	Horário da saída do par Exemplo: 08:00 12:00 13:00 17:00 Teríamos: 12:00 13:00 17:00 Não demonstrar para horários de folga, DSR, afastamento

Canonical Field	Label	SOR Rule	SOR Rule (in local language)
		Do not demonstrate for time off, DSR, leave	

Work Shifts

Canonical Field	Label	SOR Rule	SOR Rule (in local language)
/workSchedules/scheduleDays/workShifts	A collection of shifts	Work shifts	Turnos de trabalho
/workSchedules/scheduleDays/workShifts/workShiftID	The unique identifier for a Work Shift	Time code as registered in the eXpert	Código do horário conforme cadastrado no eXpert
/workSchedules/scheduleDays/workShifts/shiftDescription	The description of the Work Shift	Work Shift type.	Tipo de horário
/workSchedules/scheduleDays/workShifts/shiftTypeCode /workSchedules/scheduleDays/workShifts/shiftTypeCode/name	The short description of the related code used as a coded name	Description of the time type: For time 997: "Leave" For schedules 998 and 999: "Day off" For other schedules: "Work day"	Demonstrar a descrição do tipo de horário: Para horário 997: "Leave" Para horários 998 e 999: "Day off" Para demais horários: "Work day"
/workSchedules/scheduleDays/workShifts/shiftDateTimePeriod /workSchedules/scheduleDays/workShifts/shiftDateTimePeriod/startDateTime	Defines the startDatetime and endDateTime for the work shift.	Time start of date/time	Data/hora de início do horário
/workSchedules/scheduleDays/workShifts/shiftDateTimePeriod/endDateTime	Time end of date/time	Time end of date/time	Data/hora de fim do horário
/workSchedules/scheduleDays/workShifts/totalTime /workSchedules/scheduleDays/workShifts/totalTime/timeValue	The total amount of time from the start of a work shift to the end of the work shift expressed as hh:mm	Total hours of the schedule Do not demonstrate for time off, DSR, leave	Total de Horas do horário Não demonstrar para horários de folga, DSR, afastamento
/workSchedules/scheduleDays/workShifts/shiftSegments	The collection of shift segments that occur in the work shift.	Open an object for every pair of clock entries Example: 08:00 12:00 13:00 17:00 We would have:	Abrir um objeto para cada par de batidas de ponto Exemplo: 08:00 12:00 13:00 17:00 Teríamos: Um objeto para 08:00 12:00 Um objeto para 12:00 13:00

Canonical Field	Label	SOR Rule	SOR Rule (in local language)
		An object for 08:00 12:00 An object for 12:00 13:00 An object for 13:00 17:00	Um objeto para 13:00 17:00
/workSchedules/scheduleDays/workShifts/shiftSegments/segmentTypeCode	The type of shift segment (e.g. work, break, etc.)	"Work" for periods of work "Break" for meal/break periods Example: 08:00 12:00 13:00 17:00 We would have: Work to 08:00 12:00 Break for 12:00 13:00 Work for 13:00 17:00	"Work" para períodos de trabalho "Break" para períodos de refeição/pausa Exemplo: 08:00 12:00 13:00 17:00 Teríamos: Work para 08:00 12:00 Break para 12:00 13:00 Work para 13:00 17:00
/workSchedules/scheduleDays/workShifts/shiftSegments/segmentDateTimePeriod /workSchedules/scheduleDays/workShifts/shiftSegments/segmentDateTimePeriod/startDateTime	The string representation of the date-time value	Pair entry time Example: 08:00 12:00 13:00 17:00 We would have: 8 o'clock 12:00 pm 13:00 Do not demonstrate for time off, DSR, leave	Horário da entrada do par Exemplo: 08:00 12:00 13:00 17:00 Teríamos: 08:00 12:00 13:00 Não demonstrar para horários de folga, DSR, afastamento
/workSchedules/scheduleDays/workShifts/shiftSegments/segmentDateTimePeriod/endDateTime	The string representation of the date-time value	Pair end time Example: 08:00 12:00 13:00 17:00 We would have: 12:00 pm 13:00 17:00	Horário da saída do par Exemplo: 08:00 12:00 13:00 17:00 Teríamos: 12:00 13:00 17:00