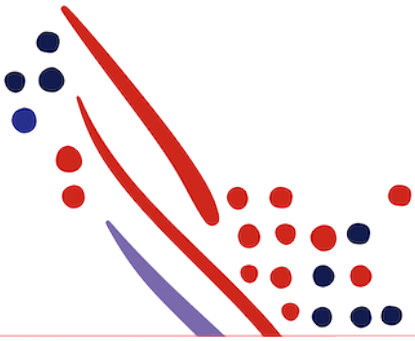
Guide

Work Schedules API Guide for ADP iHCM

Published on
Jun 11, 2023 5:14AM

Last modified
Jun 29, 2023 6:33AM

Always Designing for People™



ADP Copyright Information

ADP, the ADP logo, and Always Designing for People are trademarks of ADP, Inc.

Windows is a registered trademark of the Microsoft Corporation.

All other trademarks are the property of their respective owners.

Copyright © 2023 ADP, Inc. ADP Proprietary and Confidential - All Rights Reserved. These materials may not be reproduced in any format without the express written permission of ADP, Inc.

These materials may not be reproduced in any format without the express written permission of ADP, Inc. ADP provides this publication "as is" without warranty of any kind, either expressed or implied, including, but not limited to, the implied warranties of merchantability or fitness for a particular purpose. ADP is not responsible for any technical inaccurancies or typographical errors which may be contained in this publication. Changes are periodically made to the information herein, and such changes will be incorporated in new editions of this publication. ADP may make improvements and/or changes in the product and/or the programes described in this publication.

Published on
Jun 11, 2023 5:14AM

Last modified
Jun 29, 2023 6:33AM

Table of Contents

Chapter 1

About this API

What's new in this Guide?

July 2023

Postman Collection

Summary Of API

Chapter 2

Use Case: The one when I want to COLLECT the work schedule (Work Pattern) for an employee from iHCM

Use Case

API Requirements:

API Usage

Mandatory OData Query

Application Scope

Sequence of Interactions

Data Dictionary

Responses

Limitations

Chapter 1

About this API

What's new in this Guide?

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

July 2023

- Initial creation of this document

Process Overview

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

	Actor	Task Description
1	Client Practitioner	Trigger the API-based data exchange between your application and ADP iHCM.
2	Your application	Retrieve worker information details based on your needs.

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. To download API collections for the Work Schedules API from the ADP GitHub library and import them to Postman, go to Work Schedules API Postman Collection.

Summary Of API

The Work Schedule API will allow you to collect the work schedule/work pattern allocated to the empoyee in iHCM for a selected period, It will be based on the Job the employee holds during the requested period. Should the employee have changed jobs during the requested period then both job's work patterns will be displayed and their respective schedules displayed in a seperate Object. i.e Request period 01/06/2023 to 30/06/2023 and the employee had a job change on the 19/06/2023 then you will see 01/06/2023 to 18/06/2023 and the work schedule/pattern for the old job and then 19/06/2023 to 30/06/23 and the work schedule/pattern for the new job

Chapter 2

Use Case: The one when I want to COLLECT the work schedule (Work Pattern) for an employee from iHCM

Use Case

The one where Doris is in her non iHCM application and wants to know which days her employee is scheduled to work based on their work pattern in iHCM

Action: Doris logs into her non iHCM system and views the calendar/schedule, this then requests the current work pattern for the selected date range for that employee via the ADP Marketplace API

API Requirements:

Authorised with the correct data entitlement

The employee AOID must be supplied

API Usage

Method	Uniform Resource Identifier (URI)	Description	GitHub Sample Response Payload
GET	/time/v2/workers/{aoid}/work-schedules	Collect the Work Pattern allocated to an employee in iHCM	Work Schedule Payload Example

Mandatory OData Query

The **$filter** is mandatory and should contain a schedulePeriod of maximum one year.

For example:

Example 1: ?startDate=2023-06-01&endDate=2023-06-30?startDate=2023-06-12&endDate=2023-06-18

Example 2: ?$filter=/workSchedules/schedulePeriod/startDate EQ 2023-01-01AND/workSchedules/schedulePeriod/endDate EQ 2023-01-04

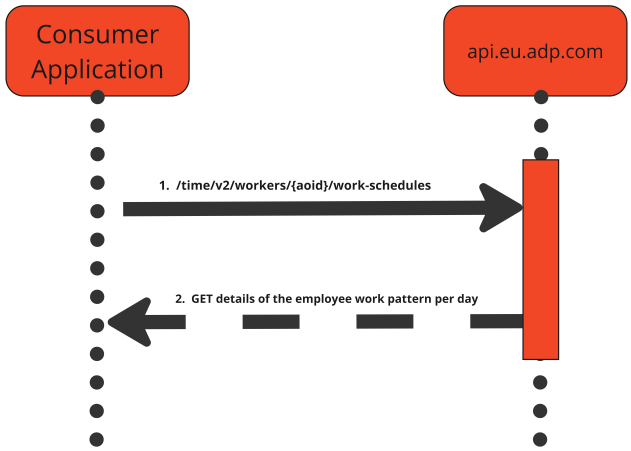
Application Scope

The canonical URI corresponding to the Work Schedules 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

Sequence of Interactions



The following are the steps shown in the previous diagram:

1. The consumer application makes a request to the ADP API endpoint for the Work Schedules API.
2. The ADP API endpoint responds to the consumer application with the processing result.

Data Dictionary

The Work Schedules API exposes the GET Method. The following is the schema of the response payload.

Canonical Field	Description	iHCM Field	Notes
workSchedules/.scheduleID	A unique identification of the schedule		
workSchedules/.scheduleName	A descriptive name of the schedule	Job Work Pattern Name	
workSchedules/.associateOID	A unique identifier of a worker the schedule is related to	Not visiable in UI	
workSchedules/.workerName.givenName	The first / given name of the person	First Name	

workSchedules/.workerName.middleName	Person's middle name or initial	Middle Names	
workSchedules/.workerName.familyName	Person's family / last name (surname). If there are 2 familiy names, this elelment represents the 1st one	Last Name	
workSchedules/.workerName.familyName2	Person's second family name, when multiple names are used		NL Only
workSchedules/.workerName.formattedName	A formatted version of the person name	Full Name	
workSchedules/.workAssignmentID	A unique identification of the worker work assignment	Job ID (Not visiable in UI)	
workSchedules/.schedulePeriod.startDate	The string representation of the date value using the ISO-8601:2000 format. Supports complete date YYYY-MM-DD or partial, e.g. YYYY or MM-DD	Job Start date if inbetween the selected period else it will be start date of the period	
workSchedules/.schedulePeriod.endDate	The string representation of the date value using the ISO-8601:2000 format. Supports complete date YYYY-MM-DD or partial, e.g.	Job End Date	

	YYYY or MM-DD		
workSchedules/.scheduleDays/.dayOfWeekCode.code	The code for the related entity	Day of the Week (Mon/Tue etc.)	
workSchedules/.scheduleDays/.scheduleDayDate	A date identifying the schedule day		
workSchedules/.scheduleDays/.workShifts/.workShiftID	The unique identifier for a Work Shift		
workSchedules/.scheduleDays/.workShifts/.shiftDescription	The description of the Work Shift		
workSchedules/.scheduleDays/.workShifts/.shiftDateTimePeriod.startDateTime	The string representation of the date-time value using the ISO-8601:2000 format	Date of Shift	
workSchedules/.scheduleDays/.workShifts/.shiftDateTimePeriod.endDateTime	The string representation of the date-time value using the ISO-8601:2000 format	Date of Shift	
workSchedules/.scheduleDays/.workShifts/.totalTime.timeValue	String representation of the time, usually expressed as hh:mm. However, the format may vary based on the related time management system settings.	Hours for the day	
workSchedules/.scheduleDays/.workShifts/.dayPeriodCode.code	The code for the related entity	Day	

workSchedules/.scheduleDays/.workShifts/.shiftSegments/.segmentSequenceNumber	A number used to define the order in which a shift segment occurs during a given work shift, typically in order of shift segment start date/time		Each section of the shift will be displayed, If the employee has a break then pre break will be segment 1, the break will be 2 and the final shift segment will be 3
workSchedules/.scheduleDays/.workShifts/.shiftSegments/.segmentTypeCode	The type of shift segment (e.g. work, break, etc.)		Identifyes if the segament is a shift(Work) or a break
workSchedules/.scheduleDays/.workShifts/.shiftSegments/.segmentDateTimePeriod.startDateTime	The string representation of the date-time value using the ISO-8601:2000 format		Start time of the Shift segment
workSchedules/.scheduleDays/.workShifts/.shiftSegments/.segmentDateTimePeriod.endDateTime	The string representation of the date-time value using the ISO-8601:2000 format		End Time of the Shift segment
workSchedules/.scheduleDays/.scheduledHours.hoursQuantity	The number of hours		Total Shift hours
workSchedules/.scheduleDays/.scheduledHours.unitCode.code	The code for the related entity		
workSchedules/.scheduleDays/.dayStatusCode.code	The code for the related entity		
workSchedules/.scheduledHours.hoursQuantity	The number of hours		
workSchedules/.scheduledHours.unitCode.code	The code for the related entity		

Responses

You may encounter exceptions outside your common success scenarios. You must account for these exceptions during your initial development. For more information, see API Common Exceptions and Tips for Handling.

Response Code	Response Condition	GitHub Sample Response Payload
200 OK	Returns the work schedule for the associate.	Work-Schedule-200 OK Response
204 No Content	• Returns an empty list of work schedules for the associate if No Schedule is available for the requested period • If the end date is before the start date	201 - No Content - Blank Response
400 Bad Request	Incorrect AOID Supplied	Work-Schedule-404 Not Found Response

Limitations

- Max One year should be request else there will be a performance impact