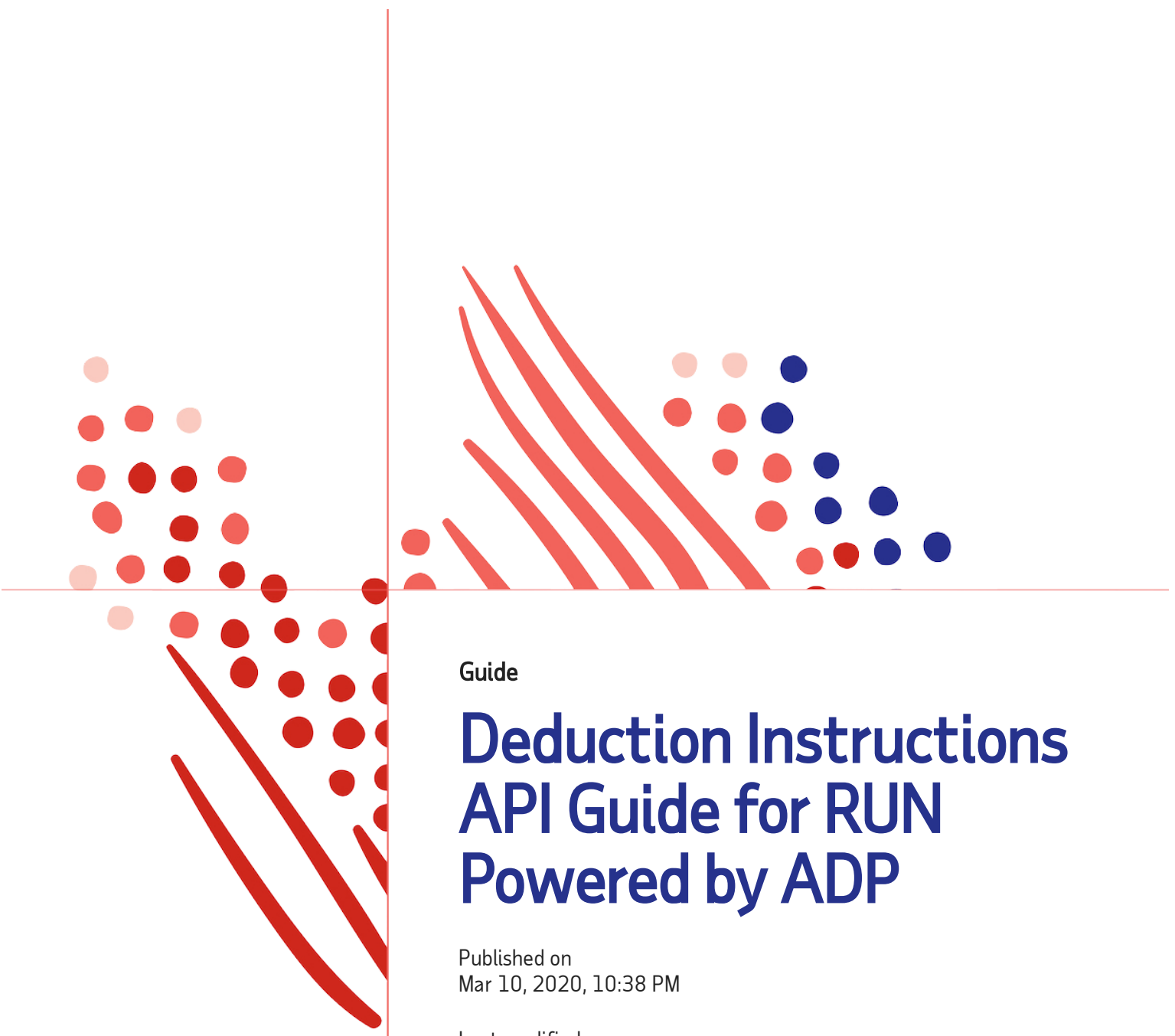




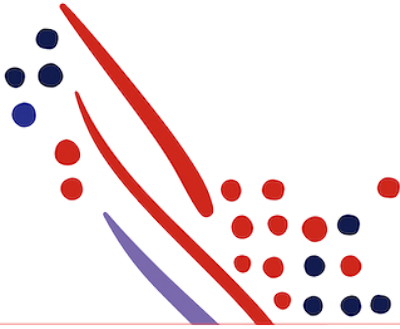
Guide

Deduction Instructions API Guide for RUN Powered by ADP

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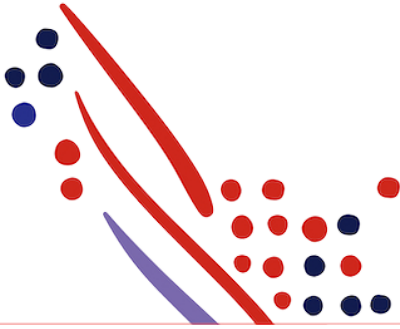


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About this API

Summary

The Deduction Instructions Application Programming Interface (API) allows applications to retrieve, start, change, and stop deductions for an employee or contractor.

In RUN Powered by ADP, a deduction is a voluntary amount or percentage, other than taxes, subtracted from an employee's or contractor's pay. The amount can be the result of the following:

- Tax calculation
- Voluntary deduction
- Bank deposit
- Lien
- Benefit plan

Company deductions are taken after taxes and garnishments are calculated. They are usually associated with a benefit or service provided by the employer.

Note

Deductions having a statutory limit, such as a 401(k) and Social Security, stop automatically after the limit is reached.

Important

Deductions of Garnishments category currently not supported using the Payroll Instructions/Deductions API.

What's New in this Guide?

In this section, revisions to the Deduction Instruction APIs and this guide will be announced.

August 2022

- Updated API endpoints and samples to link to API explorer

February 2021

- Added Event Notification support under Chapter 6.

Dec 2020

- Added a data dictionary table for garnishments under Data Dictionary section in this chapter.
- Added a note under Data Dictionary section in this chapter regarding garnishment instruction.
- Changed canonical uri under Application Scope in Chapter 2.
- Added responses for deductions, garnishments and meta in the Responses table in Chapter 2.
- Added an issue for meta retrieval and the suggested workaround in Chapter 6 under Known issues and limitations.

August 2020

- Added a note under the Summary section in this chapter.
- Removed garnishment deductions list from the **Required Setup Steps** section in this chapter.

- Updated the **Sequence of Interaction** sections in chapters [2 - Use Case: Retrieving Deductions for a Worker](#), [3 - Use Case: Starting a Deduction for a Worker](#), and [4 - Use Case: Changing a General Deduction Instruction for a Worker](#).
- Added the following limitations in [Chapter 6 - Known Issues and Limitations](#):
 - Event notification not supported
 - META APIs are not returning deduction codes set up at the client level.

Supported Product Version and Customer Base

The Deduction Instructions API is available for RUN Powered by ADP U.S. clients having the Payroll features.

Process Overview

	Actor	Task Description
1	Payroll Practitioner	Add deductions at the company level.
2	Your system	1. Use the Worker Management API to synchronize employee data between RUN Powered by ADP and your data connector application. 2. Use the Deduction Instructions API to start, change, and stop deductions.

Required Setup Steps

To start a deduction for a worker, the deduction must be configured at the company level for the client. RUN Powered by ADP supports deductions in the categories listed in the following sections.

Garnishment

Garnishment includes the following:

- Bankruptcy
- Child support 1
- Child support 2
- Child support 3
- Child support 4
- Child support 5
- Child support 6
- Child support 7
- Child support 8
- Child support 9
- Child support 10
- Creditor 1
- Creditor 2
- Federal agency 1
- Federal agency 2
- Federal student loan 1
- Federal student loan 2
- Federal tax levy 1
- Federal tax levy 2
- Federal tax levy 3
- Medical support 1
- Medical support 2
- Private support
- State student Loan 1
- State student Loan 2

- State tax levy 1
- State tax levy 2
- State tax levy 3
- Wage assignment 1
- Wage assignment 2
- Wage assignment 3
- Employer processing fee

Miscellaneous Deductions

Miscellaneous Deductions includes the following:

- Advance
- Draw post tax
- Loan
- 401(k) loan
- 401(k) loan 2
- 401(k) loan 3
- 401(k) loan 4
- 401(k) loan 5
- Miscellaneous
- Miscellaneous 2
- Miscellaneous 3
- Miscellaneous 4
- Miscellaneous %
- Miscellaneous % 2
- Miscellaneous % 3
- Miscellaneous % 4
- Credit union
- Transit and parking pass
- Charity
- United way
- Uniform
- Credit union
- Initiation
- Christmas club
- Vacation club
- 529 savings plan
- Meals
- Parking pass pre-tax
- Transit pass pre-tax
- Auto Insurance
- Home Insurance
- PALST
- Cents per hour
- Cents per hour 2
- Cents per hour 3
- Paid family leave employee
- Paid family leave ER
- Paid medical leave employee
- Paid medical leave ER

Post-Tax Insurances

Post-Tax Insurances includes the following:

- Medical 1
- Medical 2
- Dental
- Life insurance
- Long-term disability
- Chiropractic
- EE-Medical Savings Account \$
- EE-Medical Savings Account %
- AFLAC post-tax
- FSA post-tax \$
- Vision

- Dependent care
- Accidental death & dismemberment
- Short-term disability \$
- Short-term disability %
- HSA post-tax \$
- HSA post-tax %
- HSA post-tax catch-up \$
- HSA post-tax catch-up %
- DP CAF 125

Pre-Tax Insurances

Pre-Tax Insurances includes the following:

- Dental pre-tax
- Blue Cross (pre-tax) \$
- Blue Cross (pre-tax) %
- Chiropractic pre-tax
- Hospital (pre-tax) \$
- Hospital (pre-tax) %
- Medical pre-tax 1
- Short-term disability (pre-tax) \$
- Short-term disability (pre-tax) %
- AFLAC pre-tax
- FSA pre-tax \$
- Medical pre-tax 2
- Medical pre-tax 3
- Life insurance pre-tax
- Vision pre-tax
- Long-term disability pre-tax
- Dependent care pre-tax
- Accidental death & dismemberment pre-tax
- HSA CAF125 pre-tax \$
- HSA CAF125 pre-tax %
- HSA Self Only CAF125 Pre Tax \$
- HSA Self Only CAF125 Pre Tax %
- HSA CAF125 pre-tax catch-up \$
- HSA CAF125 pre-tax catch-up %

Retirement

Retirement includes the following:

- 401(k) plan \$
- 401(k) plan 2 \$
- 401(k) plan %
- 401(k) plan 2 %
- 401(k) catch-up \$
- 401(k) catch-up %
- 401(k) catch-up 2 \$
- 401(k) catch-up 2 %
- SIMPLE 401(k) \$
- SIMPLE 401(k) %
- SIMPLE 401(k) catch-up
- SIMPLE 401(k) catch-up \$
- SIMPLE 401(k) non-elective contribution
- SIMPLE IRA non-elective contribution
- SIMPLE IRA \$
- SIMPLE IRA %
- SIMPLE IRA catch-up \$
- SIMPLE IRA catch-up %
- 403(b) plan \$
- 403(b) plan %
- 403(b) 15yr plan \$
- 403(b) 15yr plan %
- 403(b) catch-up \$
- 403(b) catch-up %

- 408(k) SAR SEP
- 408(k) SAR SEP \$
- 408(k) SAR SEP catch-up
- 408(k) SAR SEP catch-up \$
- IRA post-tax
- Employer Contribution to 401(k) \$
- Employer Contribution to 401(k) %
- 501(c) plan \$
- 501(c) plan %
- SEP IRA \$ (Employer Paid)
- SEP IRA % (Employer Paid)
- Roth 401(k) plan \$
- Roth 401(k) plan %
- Roth 457(b) plan \$
- Roth 457(b) plan %
- Roth 401(k) plan catch-up \$
- Roth 401(k) plan catch-up %
- Roth 457(b) catch-up \$
- Roth 457(b) catch-up %
- Roth 457(b) double limit catch-up \$
- Roth 457(b) double limit catch-up %
- Roth SIMPLE 401(k) \$
- Roth SIMPLE 401(k) %
- Roth SIMPLE 401(k) catch-up \$
- Roth SIMPLE 401(k) catch-up %
- CalSavers Roth Ret %
- Roth IRA \$
- Roth IRA %
- CalSavers Roth Ret Catchup %
- Roth IRA catch-up \$
- Roth IRA catch-up %
- Roth 403(b) \$
- Roth 403(b) %
- Roth 403(b) plan 15yr catch-up \$
- Roth 403(b) plan 15yr catch-up %
- Roth 403(b) plan catch-up \$
- Roth 403(b) plan catch-up %
- 414(h) plan \$
- 414(h) plan %
- 457(b) plan \$
- 457(b) plan %
- 457(b) catch-up \$
- 457(b) catch-up %
- 457(b) double limit catch-up \$
- 457(b) double limit catch-up %
- Employer Profit Sharing Contrib \$
- Employer Profit Sharing Contrib %

Voluntary Disability Insurance

Voluntary Disability Insurance includes State voluntary disability plans.

COVID EE SS TAX Repayment

COVID EE SS TAX Repayment include the following:

- Q3 EE SS Tax Deferral Repayment
- Q4 EE SS Tax Deferral Repayment

Unions

Unions include the following:

- Union
- Union 2

- Union 3
- Union cents per hour
- Union cents per hour 2
- Union cents per hour 3
- Union percentage of gross
- Union percentage of gross 2
- Union percentage of gross 3
- Assessment flat dollar
- Assessment cents per hours
- Assessment percentage of gross

Additional Notes about Deduction Categories

- Deduction Categories and deductions are set-up at the company level and are applicable to all workers within the company.
- Newly scheduled deductions are in effect for the next payroll cycle.
- Deductions can be a flat dollar amount or a percentage of the worker's pay. Deductions which only support the U.S. Dollar (USD) will be named with the \$ symbol. Deductions which only support percentage will be named with the % symbol. For more information, see [Chapter 3 - Use Case: Starting a Deduction for a Worker](#).

In addition, clients need to make sure that Pay Type, Pay Rate, and Pay Frequency setup is done for the employee in RUN Powered by ADP. This is completed in the RUN Powered by ADP user interface (UI) by selecting **Employees > Directory > Payroll info**.

Data Dictionary

The Deduction Instructions API exposes the Deductions setup for a worker. To view the data in RUN Powered by ADP, login as a practitioner and select **Employee > Earnings Deductions**.

RUN Powered by ADP Field Name	Deductions API Response Location	Required Field for New Deduction (Y/N)?
Deduction	/payrollInstructions/generalDeductionInstructions/deductionCode/codeValue	Y
Type - Dollar	/payrollInstructions/generalDeductionInstructions/deductionRate/currencyCode	N
Type - Percentage	/payrollInstructions/generalDeductionInstructions/deductionRate/unitCode/codeValue	Y
Amount	/payrollInstructions/generalDeductionInstructions/deductionRate/rateValue	Y
Goal amount	/payrollInstructions/generalDeductionInstructions/deductionGoal/goalLimitAmount/amountValue	N

The Deduction Instructions API also returns the Garnishments for a worker. To view the data in RUN Powered by ADP, login as a practitioner and select **Employee > Garnishments**.

RUN Powered by ADP Field Name	Deductions API Response Location	Required Field for New Deduction (Y/N)?
Deduction	/payrollInstructions/garnishmentInstructions/deductionCode/codeValue	Y

RUN Powered by ADP Field Name	Deductions API Response Location	Required Field for New Deduction (Y/N)?
Type - Dollar	/payrollInstructions/garnishmentInstructions/garnishmentAmount/amountValue	Y (N, if percentage is populated)
Type - Percentage	/payrollInstructions/garnishmentInstructions/garnishmentPercentage/percentageValue	Y (N, if amount is populated)
Goal amount	/payrollInstructions/garnishmentInstructions/garnishmentGoal/goalLimitAmount/amountValue	N

Note

Garnishment Instructions can be retrieved using this API but cannot be updated

Chapter 2

Use Case: Retrieving Deductions for a Worker

Use Case Description

This use case returns the list of all payroll instruction deductions the requester is authorized to view for a given worker.

API Usage

For API related information please refer [Worker Payroll Instructions](#) under API Explorer.

Method	Uniform Resource Identifier (URI)	Description
GET	/payroll/v1/workers/{aoid}/payroll-instructions/general-deduction	Requests the list of all available company level deductions and garnishments for the worker.

Tip:

- To retrieve the ADP worker's unique Associate Object Identifier (AOID), your application can retrieve all workers using **GET /hr/v2/workers** and create the mapping between the two systems.
- Deductions with the amount of 0 are not yet scheduled.

Application Scope

The canonical URI corresponding to the Deduction Instructions 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:

- `/payroll/payrollManagement/payrollInstructionManagement/workerGeneralDeductionInstructionManagement/workerGeneralDeductionInstruction.read`

Supported Actors

Request Parameter roleCode Value	Usage
Practitioner	Retrieve payroll instructions.

Sequence of Interactions

1. Your consumer application makes a request to the ADP API endpoint to GET **payroll-instructions** for a worker.
2. The ADP API endpoint responds to your consumer application with single worker payroll information.

Responses

For API related information please refer [Worker Payroll Instructions](#) under API Explorer.

Response Code	Response Condition
200 OK	Only Deductions are configured
	When Garnishments are configured and started
	When Garnishment details are not started
	Requesting meta

Chapter 3

Use Case: Starting a Deduction for a Worker

API Usage

For API related information please refer [Worker Payroll Instructions](#) under API Explorer.

Method	URI	Description
GET	/events/payroll/v2/worker-general-deduction-instruction.start/meta	Returns event metadata to build the payload for the POST method.
POST	/events/payroll/v2/worker-general-deduction-instruction.start	Starts worker general deduction instruction information.

Scenarios to Start a New Deduction

For API related information please refer [Worker Payroll Instructions](#) under API Explorer.

	Scenario Description	Tips to Handle
1	Start a deduction with a specific dollar amount with a goal limit for each payroll.	Use value United States Dollar (USD) for recourse /payrollInstructions/generalDeductionInstructions/deductionRate/currencyCode in the request payload.
2	Start a deduction with a specific percentage of earnings and goal limits for each payroll.	Use value of Percent for resource /payrollInstructions/generalDeductionInstructions/deductionRate/unitCode/codeValue in the request payload.

In the given payload ([deductions.start-dollar-amt-http-200-request.json](#), [deductions.start-percent-amt-http-200-request.json](#)), the following is the purpose of the **eventContext** and **transform** sections:

- **eventContext**: A set of keys, identifying the subject. In the payload, the **associateID** field is present under **eventContext**. The **associateID** identifies the subject.
- **transform**: Provides the values added or changed with respect to the subject keys defined in the **eventContext** section.

Application Scope

The following canonicals need to be added to your application scope to start a deduction for a worker:

- **/payroll/payrollManagement/payrollInstructionManagement/workerGeneralDeductionInstructionManagement/workerGeneralDeductionInstruction.start**

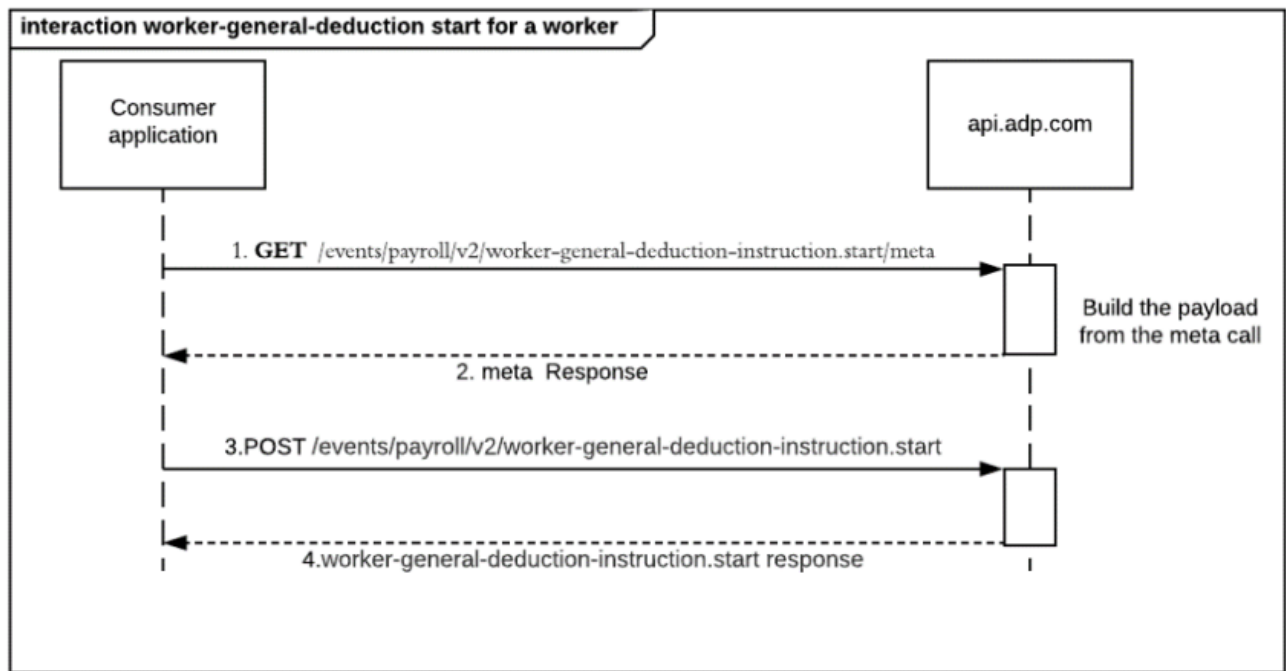
Supported Actors

Request Parameter roleCode Value	Usage
Practitioner	Can change deduction amounts or percentages for workers.

Note:

- When a Deduction is defined at the company level, it could be defined as Dollar Amount only, Percentage Amount only, or either value.
- DeductionCode/codeValue will be different for percentage and dollar amount. For example, Miscellaneous deduction code is 'MISC', where Miscellaneous % deduction code is 'MISCP'.

Sequence of Interactions



The following are the steps shown in the previous diagram:

1. Your consumer application makes a request to the ADP API endpoint for the **Worker-general-deduction-instruction start meta**.
2. Your consumer application makes a request to the ADP API endpoint for the **Worker-general-deduction-instruction start** API with the payload.
3. The ADP API endpoint responds to the consumer application about the details of the **Worker-general-deduction-instruction start**.

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](#).

For API related information please refer [Worker Payroll Instructions](#) under API Explorer.

ResponseCode	Response Condition	messageTxt	GitHub Sample Request Payload	Tips to Handle
200 OK	When a valid request is made with a specific dollar amount and goal limit for each payroll.	NA		Provide valid values for deduction code.
200 OK	When a valid request is made with a specific percentage of earning amount and goal limit for each payroll.	NA		Provide valid values for deduction code.
400 Bad Request	When the deduction code passed in the payload is not valid.		Events[0].Data.Transform.PayrollInstruction.GeneralDeductionInstruction.DeductionCode.CodeValue:The field CodeValue is invalid.	Ask your user to make sure that the deduction code is valid.

ResponseCode	Response Condition	messageText	GitHub Sample Request Payload	Tips to Handle
404 Not Found	When the deduction included in the request payload is not setup at the company level.	No Deduction code/type found matching the request.		Ask your user to make sure the deduction is set up at the company level in RUN Powered by ADP.
404 Not Found	When the worker AOID passed is not valid.	No worker found matching the request.		Ask your user to make sure the worker still exists and is active in RUN Powered by ADP.
400 Bad Request	When the deduction rate amount passed is not valid.		events[0].data.transform.payrollInstruction.generalDeductionInstruction.deductionRate.rateValue:Invalid Data	Ask your user to make sure the deduction rate amount passed is valid.
400 Bad Request	When the currency codevalue passed is not USD.		Events[0].Data.Transform.PayrollInstruction.GeneralDeductionInstruction.DeductionRate.CurrencyCode:The field CurrencyCode must match the regular expression 'USD'.	
400 Bad Request	When the UnitCode value passed is not Percent .		Events[0].Data.Transform.PayrollInstruction.GeneralDeductionInstruction.DeductionRate.UnitCode.CodeValue: The field CodeValue must match the regular expression 'Percent'	
400 Bad Request	When the request payload is empty.	Unsupported Layer Action	NA	Your application must provide a valid payload.
400 Bad Request	When the deduction code value is not provided.		Events[0].Data.Transform.PayrollInstruction.GeneralDeductionInstruction.DeductionCode.CodeValue: The CodeValue field is required.	
400 Bad Request	When the worker AOID is not provided.		Events[0].Data.EventContext.Worker.AssociateOID: The AssociateOID field is required.	

Chapter 4

Use Case: Changing a General Deduction Instruction for a Worker

Use Case Description

This use case is used to change the deduction amount or a percentage for a worker's existing deductions.

API Usage

For API related information please refer [Worker Payroll Instructions](#) under API Explorer.

Method	URI	Description
GET	/events/payroll/v2/worker-general-deduction-instruction.change/meta/	Returns an event metadata for your application to build the POST payload.
POST	/events/payroll/v2/worker-general-deduction-instruction.change	Change worker general deduction instruction information.

In the given payload ([deductions.change-dollar-amt-http-200-request.json](#)), the following is the purpose of the **eventContext** and **transform** sections:

- **eventContext**: A set of keys, identifying the subject. In the payload, the **associateID** field is present under **eventContext**. The **associateID** identifies the subject.
- **transform**: Provides the values added or changed with respect to the subject keys defined in the **eventContext** section.

Application Scope

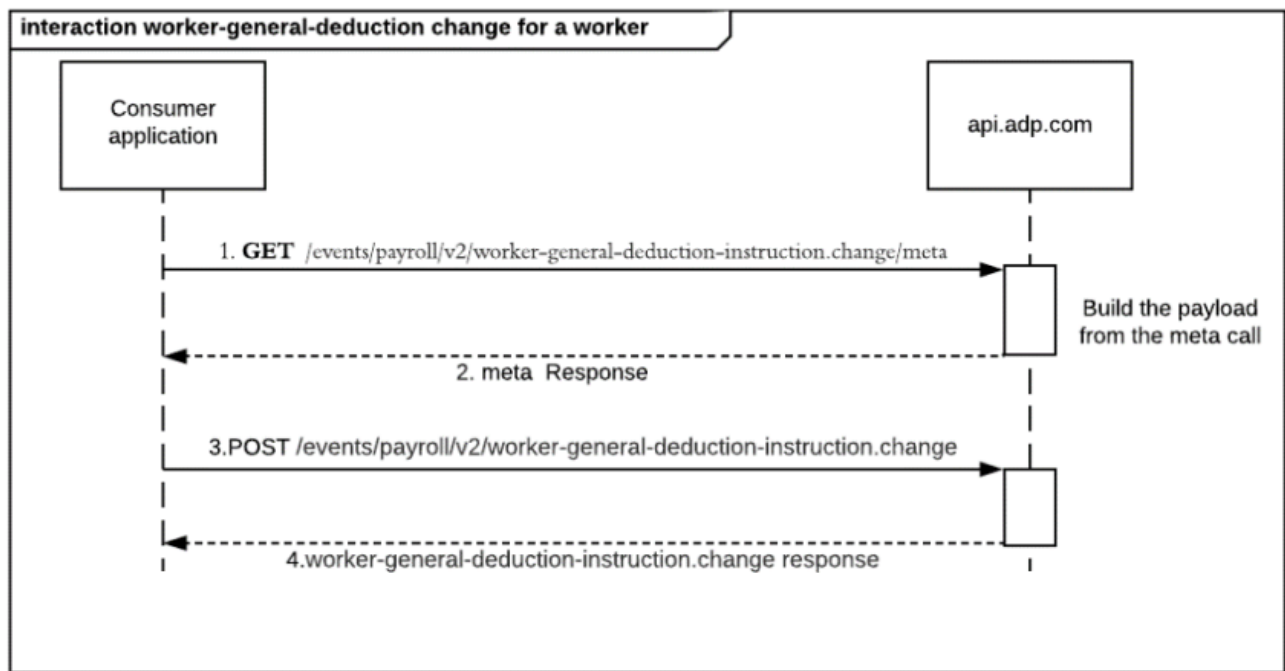
The following canonicals need to be added to your application scope to start a deduction for a worker:

- `/payroll/payrollManagement/payrollInstructionManagement/workerGeneralDeductionInstructionManagement/workerGeneralDeductionInstruction.change`

Supported Actors

Request Parameter roleCode Value	Usage
Practitioner	Can change deduction amounts or percentages for workers.

Sequence of Interactions



The following are the steps shown in the previous diagram:

1. Your consumer application makes a request to the ADP API endpoint for the **Worker-general-deduction-instruction change meta**.
2. Your consumer application makes a request to the ADP API endpoint for the **Worker-general-deduction-instruction change API** with the payload.
3. The ADP API endpoint responds to the consumer with the details of the **Worker-general-deduction-instruction change**.

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](#).

For API related information please refer [Worker Payroll Instructions](#) under API Explorer.

Response Code	Response Condition	messageTxt	GitHub Sample Request Payload	Tips to Handle
200 OK	When a valid request is made with a specific dollar amount and goal limit for each payroll.	NA		Provide valid values for deduction code.
200 OK	When a valid request is made with a specific percentage of earning amount and goal limit for each payroll.	NA		Provide valid values for deduction code.
400 Bad Request	When the deduction code passed in the payload is not valid.		Events[0].Data.Transform.Payroll Instruction. General Deduction Instruction.DeductionCode.CodeValue:The field CodeValue is invalid.	Ask your user to make sure that the deduction code is valid.

Response Code	Response Condition	messageTxt	GitHub Sample Request Payload	Tips to Handle
404 Not Found	When the deduction included in the request payload is not setup at the company level.	No Deduction code/type found matching the request.		Ask your user to make sure the deduction is set up at the company level in RUN Powered by ADP.
404 Not Found	When the worker AOID passed is not valid.	No worker found matching the request.		Ask your user to make sure that the worker still exists and active in RUN Powered by ADP.
400 Bad Request	When the deduction rate amount passed is not valid.		events[0].data.transform.payrollInstruction.generalDeductionInstruction.deductionRate.rateValue: Invalid Data	
400 Bad Request	When the currency code value passed is not USD.		Events[0].Data.Transform.PayrollInstruction.GeneralDeductionInstruction.DeductionRate.CurrencyCode:The field CurrencyCode must match the regular expression 'USD'.	
400 Bad Request	When the UnitCode value passed is not Percent .		Events[0].Data.Transform.PayrollInstruction.GeneralDeductionInstruction.DeductionRate.UnitCode.CodeValue:The field CodeValue must match the regular expression 'Percent'.	
400 Bad Request	When the request payload is empty or the deduction code, rate details are not provided.	No/Invalid General Deduction information is provided.	NA	Your application must pass the valid payload.
400 Bad Request	When the deduction code value is not provided.		Events[0].Data.Transform.PayrollInstruction.GeneralDeductionInstruction.DeductionCode.CodeValue:The CodeValue field is required.	
400 Bad Request	When the worker AOID is not provided.		Events[0].Data.EventContext.Worker.AssociateOID:the AssociateOID field is required.	

Chapter 5

Use Case: Stopping a General Deduction Instruction for a Worker

API Usage

For API related information please refer [Worker Payroll Instructions](#) under API Explorer.

Method	URI	Description
GET	/events/payroll/v2/worker-general-deduction-instruction.stop/meta	Returns an event metadata for your application to build the payload.
POST	/events/payroll/v2/worker-general-deduction-instruction.stop	Stop worker general deduction instruction information.

In the given payload([deductions.stop-dollar-amt-http-200-request.json](#)), the following is the purpose of the eventContext and transform sections:

- **eventContext:** A set of keys, identifying the subject. In the payload, the **associateID** field is present under **eventContext**. The **associateID** identifies the subject.
- **transform:** Provides the values added or changed with respect to the subject keys defined in the **eventContext** section.

Application Scope

The following canonicals need to be added to your application scope to start a deduction for a worker:

- [/payroll/payrollManagement/payrollInstructionManagement/workerGeneralDeductionInstructionManagement/workerGeneralDeductionInstruction.stop](#)

Supported Actors

Request Parameter roleCode Value	Usage
practitioner	Can stop the deduction for workers.

Sequence of Interactions



The following are the steps shown in the previous diagram:

1. Your consumer application makes a request to the ADP API endpoint for a **Worker-general-deduction-instruction Stop meta**.
2. Your consumer application makes a request to the ADP API endpoint for the **Worker-general-deduction-instruction Stop API** with the payload.
3. The ADP API endpoint responds to the consumer application about the details of the **Worker-general-deduction-instruction Stop**.

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](#).

For API related information please refer [Worker Payroll Instructions](#) under API Explorer.

ResponseCode	Response Condition	messageTxt	GitHub Sample Request Payload	Tips to Handle
ResponseCode	Response Condition	messageTxt	GitHub Sample Request Payload	Tips to Handle

ResponseCode	Response Condition	messageTxt	GitHub Sample Request Payload	Tips to Handle
200 OK	When a valid request is made with a specific dollar amount for each payroll.	NA		Provide valid values for deduction code.
200 OK	When a valid request is made with a specific percentage of earning amount for each payroll.	NA		Provide valid values for deduction code.
200 OK	When a duplicate STOP deduction is passed for already stopped deduction	The Requested Deduction is already stopped for this Employee		Provide valid STOP deduction for an employee
400 Bad Request	When the deduction code passed in the payload is not valid.		Events[0].Data.Transform. Payroll Instruction. General Deduction Instruction. Deduction Code.Code Value: The field CodeValue is invalid	Ask your user to make sure that the deduction code is valid.
404 Not Found	When the deduction included in the request payload is not set up at the company level.	No Deduction code/type found matching the request.		Ask your user to make sure the deduction is set up at the company level in RUN Powered by ADP.
404 Not Found	When the worker AOID passed is not valid.	No worker found matching the request.		Ask your user to make sure that the worker still exists and active in RUN Powered by ADP.
400 Bad Request	When the request payload is empty, or the deduction code and rate details are not provided.	No/Invalid General Deduction information is provided.	NA	Your application must provide the valid payload.
400 Bad Request		When the deduction code value is not provided.	Events[0].Data.Transform.Payroll Instruction.GeneralDeductionInstruction.DeductionCode.CodeValue: The CodeValue field is required.	

ResponseCode	Response Condition	messageTxt	GitHub Sample Request Payload	Tips to Handle
		When the worker AOID is not provided.	Events[0].Data.EventContext.Worker.AssociateOID:The AssociateOID field is required.	

Chapter 6

Use Case: Synchronizing Deduction Data Using Notifications

Description

ADP applications trigger notifications when data is updated, and your application could subscribe interested notifications to sync up data. For more information about ADP event notifications, see [Event and Event Notification Guide](#). You should also refer to [All You Need to Know About Processing Notification Messages for RUN Powered by ADP](#) to understand the common resources provided.

Supported Notifications

The tables in the following sections list all supported notifications. The following describes how the tables are set-up:

- Table titles list the navigation path within RUN Powered by ADP.
- **Field Name** – Lists the field where you can use the API to perform an insert, update, and/or delete operation using the POST method.
- **Application Scope** – Lists the canonical ID.
- **GITHUB Sample Payloads** – Provides the location where the sample request and response payloads are posted

For API related information please refer [Worker Payroll Instructions](#) under API Explorer.

Field Name	Description	Application Scope
• T y p e • A m o u n t • G o a l A m o u n t	Notification is triggered when the mentioned fields are changed	/payroll/payrollManagement/payrollInstructionManagement/workerGeneralDeductionInstructionManagement/workerGeneralDeductionInstruction.change.eventNotify.subscribe

Known Issues and Limitations

Issue: Event notification not supported

Impacted APIs

Method	URI	roleCode Value
POST	/events/payroll/v2/worker-general-deduction-instruction.start	Practitioner
POST	/events/payroll/v2/worker-general-deduction-instruction.change	Practitioner
POST	/events/payroll/v2/worker-general-deduction-instruction.stop	practitioner

Issue Description

Currently, deduction start and the change and stop APIs don't support event notification.

Suggested Workaround

There are no workarounds available.

US1210765: Missing data validation and limited error handling

Impacted APIs

Method	URI	roleCode Value
GET	/events/payroll/v2/worker-general-deduction-instruction.start/meta	Practitioner
POST	/events/payroll/v2/worker-general-deduction-instruction.start	Practitioner
GET	/events/payroll/v2/worker-general-deduction-instruction.stop/meta	Practitioner
POST	/events/payroll/v2/worker-general-deduction-instruction.change	Practitioner
GET	/events/payroll/v2/worker-general-deduction-instruction.stop/meta	Practitioner
POST	/events/payroll/v2/worker-general-deduction-instruction.stop	Practitioner

Issue Description

Currently, start and change APIs are accepting negative values for the **rateValue** field in the request payload.

1. For the Start API, if a Deduction is scheduled for an employee and the practitioner tries to apply the same deduction with a different **rateValue**, it is allowed by the API.
2. For the Start and Change API, when the **rateValue** is passed as the following values: (NULL, '0') with value type as (\$ or % amount), the API stops the deduction.
3. For the Stop API, if we try to stop the deduction which is not scheduled for an employee, the API doesn't throw any error.
4. Currently, the Start API is not responding to any Bad Request when the request payload has the **rateValue** field (which accepts dollar amount) is passed for the percentage deduction. Similarly, when, in the request payload percent is passed for the deduction in the **unitCode** field (which is dollar amount deduction).

Suggested Workaround

Build validation logic in your application prior to sending data to RUN

US1210765: Passing Partial Amount through API is Not Supported

Issue Description

Currently there is no resource supported to pass partial rateValue through the API.

Impacted APIs

Method	URI	roleCode Value
GET	/events/payroll/v2/worker-general-deduction-instruction.start/meta	Practitioner
POST	/events/payroll/v2/worker-general-deduction-instruction.start	Practitioner
GET	/events/payroll/v2/worker-general-deduction-instruction.change/meta	Practitioner
POST	/events/payroll/v2/worker-general-deduction-instruction.change	Practitioner
GET	/events/payroll/v2/worker-general-deduction-instruction.stop/meta	Practitioner
POST	/events/payroll/v2/worker-general-deduction-instruction.stop	Practitioner

Suggested Workaround

There are no workarounds available.

Issue: META APIs are not returning deduction codes set up at the client level

Issue Description

Deduction start, change, and stop meta response should return deduction codes which are set up at the client level.

Impacted APIs

Method	URI	roleCode Value
GET	/events/payroll/v2/worker-general-deduction-instruction.start/meta	Practitioner
GET	/events/payroll/v2/worker-general-deduction-instruction.change/meta	Practitioner
GET	/events/payroll/v2/worker-general-deduction-instruction.stop/meta	Practitioner

Suggested Workaround

Currently, the consumer can refer to the Payroll Instruction GET API, which also returns deduction lists eligible for the client. The GET API, `/payroll/v1/workers/G3V1NEC2XSVMQDB6/payroll-instructions/general-deduction`, not only returns the activated deductions for the employee AOID pass the request end point, it also returns other deductions with the amount of 0. These deductions are set up at client level and automatically reflected for all the employees, but not active. Now if you want to activate them, you will need to use **deduction.start**.

US1210765: Deduction API can't set the pay period

Issue Description

Currently, a practitioner can start, change, and stop the deduction, but it cannot set the pay period (from which the deduction should be scheduled). It can be done from the RUN Powered by ADP UI for now.

Impacted APIs

Method	URI	roleCode Value
GET	/events/payroll/v2/worker-general-deduction-instruction.start/meta	Practitioner
POST	/events/payroll/v2/worker-general-deduction-instruction.start	Practitioner
GET	/events/payroll/v2/worker-general-deduction-instruction.change/meta	Practitioner
POST	/events/payroll/v2/worker-general-deduction-instruction.change	Practitioner
GET	/events/payroll/v2/worker-general-deduction-instruction.stop/meta	Practitioner
POST	/events/payroll/v2/worker-general-deduction-instruction.stop	Practitioner

Suggested Workaround

There are no workarounds available.

Issue: Unable to fetch meta

Description

Facing 404 error on requesting meta with the url- /payroll/v1/workers/{aoid}/payroll-instructions/general-deduction/meta

Suggested Workaround

Ensure the following scope is added:

```
/payroll/payrollManagement/payrollInstructionManagement/workerPayrollInstructionManagement/workerPayrollInstructions.read
```

Request meta using the following url:

```
/payroll/v1/workers/{aoid}/payroll-instructions/meta
```

Issue: Observing significant delay in API response by applying the changes to the deduction instruction change API.

Description

We were running tests in the ADP Run sandbox environment that were provided for the worker deduction instruction change API and noticed peculiar behavior.

We made a POST request to <https://api.adp.com/events/payroll/v2/worker-general-deduction-instruction.change>, changing the targeted employee's "EECONT1EEA" deduction to 0 (previously it was 31) and we got a 200 response back. The adp-correlationid was "ef9b9f53-8ccd-4ad1-8ca2-813d8776f10f".

A few minutes later, we connected again and listed the employees deductions through the endpoint: <https://api.adp.com/payroll/v1/workers/G3W4XQVC567XRVWG/payroll-instructions/general-deduction>. We got a 200 response, but the response body to the GET call specifies that the employee's "EECONT1EEA" deduction is still configured as 31, and not 0 as we successfully applied earlier. The adp-correlationid was "3f5e8bb8-82ae-4d2a-b8f4-ed9a3e8645a3" for this request.

From what we can tell, the update does apply, but there is a significant delay between applying the change and it being reflected in the API responses. We haven't confirmed exactly how long this delay is, but it is at least longer than 4 minutes and we suspect may even be longer than 15 minutes.

Is there a reason for this delay? This delay can potentially cause issues in our processing under certain conditions.

Payload Used:

```
{
  "events": {
    "eventID": "b105b7d0-10ab-4641-9f7b-8c48d160cc31",
    "serviceCategoryCode": {
      "codeValue": "payroll"
    },
    "eventNameCode": {
      "codeValue": "payroll-instruction-general-deductions.change"
    },
    "eventStatusCode": {
      "codeValue": "Complete"
    },
    "originator": {
      "associateOID": ""
    },
    "actor": {
      "associateOID": ""
    },
    "creationDateTime": "2023-01-31T21:36:51.5499938Z",
    "recordDateTime": "2023-01-31T21:36:51.5499938Z",
    "effectiveDateTime": "2023-01-31T21:36:51.5499938Z",
    "eventTitle": "Input Worker General Deductions Instructions",
    "eventSubTitle": "Picked up in the next payroll",
    "data": {
      "eventContext": {
        "worker": {
          "associateOID": "G3W4XQVC567XRVWG",
          "payrollInstruction": {
            "generalDeductionInstruction": {
              "deductionCode": {
                "codeValue": "EECONT1EEA"
              }
            }
          },
          "output": {
            "payrollInstruction": {
              "generalDeductionInstruction": {
                "deductionCode": {
                  "codeValue": "EECONT1EEA"
                },
                "deductionRate": {
                  "rateValue": 0,
                  "currencyCode": "USD"
                }
              }
            }
          }
        }
      }
    }
  }
}
```

Suggested Workaround

Please pass preventCache parameter with unique value while pulling the data. This should return latest data.

For ex:

```
curl --location --request GET 'http://api.adp.com/payroll/v1/workers/G3XP80PS6G7YHJ7M/payroll-instructions/general-deduction?preventCache=1354'\
--header 'Content-Type: application/json'\
--header 'Authorization: Bearer e8fb2ceb-71b8-46b2-a74b-cde5d37a9a20'
```