

## Chapter 2

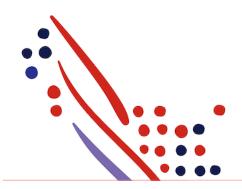
# Use Case: Adding Entries in a Pay Data Batch

from Payroll Data Input API Guide for ADP Workforce Now Guide

Published on May 11, 2020 4:54PM

Last modified Sep 22, 2022 8:52AM





# **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.

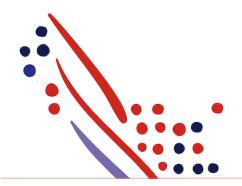
All other trademarks are the property of their respective owners.

Copyright © 2022 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 May 11, 2020 4:54PM

Last modified Sep 22, 2022 8:52AM



# **Chapter Contents**

#### Chapter 2

#### Use Case: Adding Entries in a Pay Data Batch

Use Case Description

API Usage

Application Scope

Supported Actors

Sequence of Interactions

Responses

Other Scenarios

#### Chapter 2

# Use Case: Adding Entries in a Pay Data Batch

#### **Use Case Description**

This use case sends entries to a Pay Data batch. It is commonly used to send the following data from a different system or application to the ADP Workforce Now **Paydata** page:

- Earnings
- Deductions
- Reimbursement
- Reportable Earnings and Benefits
- Temporary Cost Number
- Temporary Department Number
- Allocations

#### **API Usage**

For API related information please refer Pay Data Input under API Explorer.

Method	Uniform Resource Identifier (URI)	Description
GET	/events/payroll/v1/pay-data-input.modify/meta	Returns an event metadata.  Note: Sample payload can be built from the meta call.
GET	/events/payroll/v1/pay-data-input.modify/meta? companyCode=94N&fileNumber=078765	Returns a response based on the applied filter Filter The following filter can be used for meta API call to retrieve the codes like deductions, earnings etc based on company code
POST	/events/payroll/v1/pay-data-input.modify	Adds a new pay data batch.

In the given payload (Single Associate Request, Multiple Associate Request), 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 canonical URI corresponding to the Payroll Data Input 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/payroll Management/payroll Processing/pay DataInput Management/pay-data-input.modify the payroll payroll Management for the payroll payroll

#### Supported Actors

Request Parameter roleCode Value	Usage
practitioner	System user that sends pay data for a pay data batch.

#### Sequence of Interactions

- 1. Your consumer application makes a request for /events/payroll/v1/pay-data-input.modify/meta to the ADP API endpoint.
- 2. The ADP API endpoint responds to your consumer application with the meta payload. See the table in the following section.
- 3. Your consumer application processes the meta payload to validate data included in the payload in step 4 and prompts the user to fix any validation issues. Otherwise, compose the payload for the /events/payroll/v1/pay-data-input.modify request.
- 4. Your consumer application makes a /events/payroll/v1/pay-data-input.modify request to the ADP API endpoint.
- 5. The ADP API endpoint responds to the consumer application concerning the details of /events/payroll/v1/pay-data-input.modify.

#### 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 Pay Data Input under API Explorer.

Response Code	Condition	messageText	Tips to Handle
200 OK	Request processes successfully.		
400 Bad Request	If the payroll cycle status is not one of the following:  • Entering Payroll Information • Correcting Input	"messageText": "eventContext/ payrollGroupCode is invalid. eventContext/ payrollGroupCode	Check the <b>Payroll Cycle</b> value for the company code, which is currently used in the request.
400 Bad Request	An invalid company code is passed in the request.	"messageText":  "eventContext/payrollGroupCode is invalid. eventContext/ payrollGroupCode"	Check if the input data is the value.
400 Bad Request	An invalid Associate Organization ID (AOID) exists. This is the AOID associated with the file number passed in the request.	"messageText": "Label not found, missing following key: access.invalid associateOid: G3E82PE9GT1Q8VENN"	Check if the employee is still active and eligible for payroll processing.
400 Bad Request	An Invalid <b>payrollFileNumber</b> is passed in the request.	"messageText": "payrollFileNumber:8118799 is invalid. payrollFileNumber:8118799"	Check if the employee is still active and eligible for payroll processing.
400 Bad Request	When an invalid <b>payNumber</b> is passed in the request.	"messageText": "payNumber:100 is invalid. payNumber:100"	Check and correct pay number value.

400 Bad Request	The <b>hoursEarningCode</b> is not present in the Validation table.	" <b>messageText"</b> : "codedHoursEarning: VV is invalid. codedHoursEarning: VV"	Your data connector application should validate that the hoursEarningCode is set up for the Codedhours in the Validation table.
400 Bad Request	The deduction code is not present in the Validation table.	"messageText": "payrollProfilePay Inputs/paylnputs /deductionInputs /deductionInputs /deductionCode /codeValue is invalid. PayrollProfilePay Inputs/payInputs /deductionInputs /deductionCode /codeValue DD"	Your data connector application should validate that the deduction code is set up for the specific deduction in the Validation table.
400 Bad Request	Request for single <b>Associate</b> with <b>Amount</b> and <b>Inact ive Memo</b> code value.	"messageText": "Label not found, missing following key: Memo codeValue does not exist in Validation Table, or MemoCode is not an active memo code in the Company G"	
400 Bad Request	Request for single <b>Associate</b> with <b>Amount</b> and <b>Mem</b> o code value as empty.	"messageText": "Label not found, missing following key: Memo codeValue does not exist in Validation Table, or MemoCode is not an active memo code in the Company "	
400 Bad Request	Request for single <b>Associate</b> with <b>Amount</b> and <b>Inval</b> id <b>Memo</b> code value.	"messageText": "Label not found, missing following key: Memo codeValue does not exist in Validation Table, or MemoCode is not an active memo code in the Company aaa"	
400 Bad Request	Request for single <b>Associate</b> <b>Memo</b> code and invalid amount.	"messageText": "Label not found, missing following key: Memo amountValue - The value must be between -99,999,999.99 and 99,999,999.99. 6000000000000"	
400 Bad Request	Request for a <b>Single</b> Associate with <b>Single Pay</b> Number and <b>Temporary Cost</b> Number when costNumber is not present in the Validation table.		Your data connector application should validate that the <b>Cost Number</b> is set up for the specific <b>Cost Number</b> in the Validation table.
400 Bad Request	Request for a <b>Single Associate</b> with <b>costNumber</b> when the <b>Company</b> set up options includes a department number.	"messageText": "Provide correct message for the key - Error creating paydataGrid column Temporary Cost Number"	Your data connector application should validate that the Cost Number is set up for both Labor Distribution and Allocations in ADP Workforce Now by selecting Setup > Payroll > Company Options.
400 Bad Request	Request for a <b>Single</b> Associate with Temporary Cost  Number and codeValue="".	"messageText": "Label not found, missing following key: payAllocation/allocationTypeCode/code Value cannot be empty or null"	Check and pass the valid <b>Value</b> for <b>Temporary Cost Number</b> .
400 Bad Request	Request for a Single  Associate with Temporary Cost  Number when codeValue for costNumb  er is more than 50.	"messageText": "Label not found, missing following key: cost number cannot be more than 50 "	<b>Temporary Cost Number</b> must be 50 characters.
400 Bad Request	Request for a <b>Single</b> Associate with Temporary  Department and codeValue="".	"messageText": "Label not found, missing following key: payAllocation/allocationTypeCode/code Value cannot be empty or null "	Check and pass the valid value.
400 Bad Request	Request for a <b>Single</b> Associate with Temporary Department	"messageText": "Label not found, missing following key: Allocation code is	Check and pass the valid value for <b>Temporary Department Number</b> .

	<b>Number</b> when <b>Department Number</b> is not present in the Validation table.	invalid "	
400 Bad Request	Request for a <b>Single Associate</b> with <b>Department Number</b> when <b>Company</b> set up options includes a <b>Cost Number</b> .	"messageText": "Label not found, missing following key: Error creating paydataGrid column Temporary Department 3"	Your data connector application should validate that <b>Department Number</b> is set up for both <b>Labor Distribution</b> and <b>Allocations</b> in ADP  Workforce Now by selecting <b>Setup &gt; Payroll &gt; Company Options</b> .
400 Bad Request	Request for a Single  Associate and Single Pay Number with Allocation Number when Company set up options are set to enable[Automatic and Manual] for costNumber, and:  • Allocations are in employment profile > allocations • codeValue="""	"messageText": "Label not found, missing following key: payAllocation/allocationTypeCode/code Value cannot be empty or null "	
400 Bad Request	Request for a Single  Associate and Single Pay Number with Allocation Number when Company set up options are set to enable[Manual] for costNumber, and:  • Allocations are in employment profile > allocations • codeValue=1	"messageText": "Label not found, missing following key: Allocation code is cannot be 1 if Automatic Allocation by Percentage not checked code: 1"	
400 Bad Request	Request for a Single  Associate and Single Pay Number with Allocation Number when Company set up options are set to enable[Manual] for costNumber, and: ]]>   • Allocations are in employment profile > allocations • codeValue="""	"messageText": "Label not found, missing following key: payAllocation/allocationTypeCode/code Value cannot be empty or null"	
400 Bad Request	Request for a Single  Associate and Multiple Pay  Number with Allocation  Number when Company set up options are set  to enable[Manual] for costNumber, and:  • Allocations are  in employment profile > allocations-add > allocation position  • codeValue=1 and 1	"messageText": "Label not found, missing following key: Allocation code is cannot be 1 if Automatic Allocation by Percentage not checked code: 1"	

400 Bad Request	Request for a Single  Associate and Multiple Pay Number with Allocation Number when Company set up options are set up to enable[Automatic] for costNumber, and:  • Allocations are in employment profile > allocations-add > allocation position • code Value="" and ""	"messageText": "Label not found, missing following key: payAllocation/allocationTypeCode/code Value cannot be empty or null"	
400 Bad Request	Request for a <b>Single Associate</b> and <b>Multiple Pay Number</b> with <b>Allocation Number</b> when <b>Company</b> set up options are set.	"messageText": "Label not found, missing following key: payAllocation/ allocationType Code/codeValue cannot be empty or null"	
400 Bad Request	Request for a Single Associate and Single Pay Number with Allocation Number When: Company set up options are set to enable[Automatic] for costNumber, and:  • Allocations are in employment profile > allocations-add > allocation position • codeValue="""	"messageText": "Label not found, missing following key: payAllocation /allocationType Code/codeValue cannot be empty or null"	
400 Bad Request	Request for a Single  Associate and Multiple Pay  Number with Allocation  Number when Company set up options are set to enable[Automatic] for Department  Number.  Allocations are in employment profile > allocations- add > allocation position is 3 and 10[allocation position not there in employment profile].	"messageText": "Label not found, missing following key: Allocation code is cannot be 2-99 if Manual Posting of Allocation in Paydata not checked code: 10"	
400 Bad Request	Request for a Single  Associate and Multiple Pay Number with Allocation Number when Company set up options are set to enable[Automatic] for Department Number, and:  • Allocations in employment profile > allocations-add > allocation position • codeValue="" and ""	"messageText": "Label not found, missing following key: payAllocation/allocationTypeCode/code Value cannot be empty or null"	
400 Bad Request	Request for a <b>Single</b> Associate and Multiple Pay	"messageText": "Label not found, missing following key: payAllocation/	

	Number with Allocation Number when Company set up options are set to enable[Automatic] for Department Number, and codeValue="" and "1".	allocationType Code/codeValue cannot be empty or null"	
400 Bad Request	Request for a Single  Associate and Multiple Pay Number with Allocation Number when Company set up options are set to enable[Automatic] for Department Number, and:  • Allocations are in employment profile > allocations-add > allocation position • code Value="4" and "3"	"messageText": "Label not found, missing following key: Allocation code is cannot be 2-99 if Manual Posting of Allocation in Paydata not checked code: 4"	
400 Bad Request	Request for a Single  Associate with Allocation  Number when Company set up options are set to enable[Automatic and  Manual] for DepartmentNumber, and: ]]>   • Allocations are set to employment profile > allocations • codeValue="""	" <b>messageText"</b> : "Label not found, missing following key: payAllocation/allocationTypeCode/code Value cannot be empty or null"	
400 Bad Request	Request for a Single Associate with Allocation Number when Company set up options are set to enable[Manual] for DepartmentNu mber, and:  • Allocations are in employment profile > allocations-add > allocation position • codeValue=1	"messageText": "Label not found, missing following key: Allocation code is cannot be 1 if Automatic Allocation by Percentage not checked code: 1"	
400 Bad Request	Request for a Single  Associate with Allocation  Number when Company set up options are set to enable[  Manual] for DepartmentNumber, and:  • Allocations are in employment profile > allocations-add > allocation position • codeValue=""	"messageText": "Label not found, missing following key: payAllocation/ allocationType Code/codeValue cannot be empty or null"	
400 Bad Request	Request for a Single  Associate with Allocation  Number when Company set up options are set to enable[  Manual] for DepartmentNumber.  Allocations are in employment profile >	"messageText": "Label not found, missing following key: Allocation code is invalid code: 5"	

	allocations- add > allocation position is "5"[which is not there in allocation]		
400 Bad Request	Request for a Single Position-Multiple PayNumber with Allocation Number when Company set up options has enable[ Manual] for DepartmentNumber, and: ]]>   • Allocations are in employment profile-> allocations • codeValue="1" and 1	"messageText": "Label not found, missing following key: Allocation code is cannot be 1 if Automatic Allocation by Percentage not checked code: 1"	
400 Bad Request	When adding a batch with multiple employees and if any error exists in the payload	"resourceMessageInfoList": [ {     "resourceMessageID": null,     "processMessageID": null,     "messageTypeCode": "error",     "messageText":     "payrollFileNumber:81187 is invalid.     payrollFileNumber:81187" } ] }, {     "resourceMessageID": null,     "processMessageID": null,     "processMessageID": null,     "messageTypeCode": "error",     "	In this case, if there are any errors in the payload, the API fails and batch will not create.
400 Bad Request	Add a pay data with incorrect Rate code	"messageText": "earningInputs/rateCode/codeValue is invalid. earningInputs/rateCode/codeValue"	
400 Bad Request	Add a pay data with both rate code and rate value	"messageText": "Label not found, missing following key: A paydata transaction may contain either temporary rate or temporary rate code. "	

## Other Scenarios

The following is a list of common scenarios that you may want to consider for your application.

 $\textbf{Note:} \ The \ sample \ responses \ listed \ all \ have \ the \ response \ code \ of \ 200.$ 

For API related information please refer Pay Data Input under API Explorer.

Scenario Description	Notes
Scenario Description	Notes
A batch already exists.	When a batch with the same Batch ID is requested, a new batch will be created with a system generated Batch ID (characters append to the same Batch ID).

Send in Hours for client configured Hours and Earnings Earning Code Type: Other Hours	
Send in Hours, Rate, and Amount for client configured Hours and Earnings Earning Code Type: Hours/Earnings Field Value: 3	
Send in Hours, Rate, and Amount for client configured Hours and Earnings Earning Code Type: Hours/Earnings Field Value: 4	
Send in <b>Hours</b> for <b>Regular</b> <b>Earning</b>	
Send in <b>Hours</b> for <b>Overtime</b> <b>Earning</b>	
Send in Temp Rate and Hours for Re gular Earning	
Send in Temp Rate and Hours for Ov ertime Earning	
Send in Amount for Regula r Earning	
Send in Amount for Overti me Earning	
Send in both Hours and Amou nts for Regular Earning	
Send in both Hours and Amou nts for Overtime Earning.	
Request with the same code for multiple associates for codedhoursEarnings Inputs.  Note: DT is an Hours/Earnings type.	
Request with different codes for	

multiple associates for codedhoursEarningsIn puts.	
Request with multiple associates with different earning code, deduction, and codedhoursEarnings.	
Request with multiple associates with the same deduction codes, earning code, and different codedhoursEarnings.	
Request for multiple associates with different deduction codes, earning code, and different codedhoursEarnings.	
Request for a single associate with earning code, deduction, and codedhoursEarnings.	
Request for a single associate with hours for client configured Hours and Earnings Earning Code Type/Field type: <b>OH</b> is an Hours type	
Request for a single associate with Amount for client configured Hours and Earnings Earning Code Type/Field Type: Other Earnings (N is an Other Earnings type)	
Request for a single associate with hours for client configured Hours and Earning Earning Code Type/Field Type: <b>Hours/Earnings</b>	
Request for a single associate with Amount for client configured Hours and Earnings Earning Code Type/Field Type: Hours/Earnings	
Request with the same code for multiple	

associates for codedHoursEarningInp uts for the Hours/Earnings type with the same deduction codes.  Note: DT is an Hours/Earnings type.	
Request with the same code for multiple associates for codedHoursEarningInp uts for the Other Earnings type with the same deduction codes.  Note: N is an Earnings type.	
Request with the same code for multiple associates for codedHoursEarningInp uts for the Other Hours type with the same deduction codes.  Note: OH is an Other Hours type.	
Request with the same code for multiple associates for codedHoursEarningInp uts for the Hours/Earnings type with different deduction codes.  Note: DT is an Hours/Earnings type.	
Request with the same code for multiple associates for codedHoursEarningInp uts for the Other Earnings type with different deduction codes.  Note: N is an Earnings type.	
Request with the same code for multiple associates for codedHoursEarningInp uts for the Other Hours type with different deduction codes.  Note: OH is an Other Hours type.	
Request with different codes for multiple associates for codedHoursEarningInp uts.	

<ul> <li>DT – Hours /Earnings type</li> <li>OH – Other Hours type</li> <li>N – Earnings type</li> </ul>	
Request for a single associate with same Amount and different Memo code value.	
Request for a single Associate with different Amount and same Memo code value.	
Request for a single associate with Temporary Cost Number and code value.	
Request for a single associate with Temporary Cost Number and code value, which is in the <b>Inactive</b> status.	
Request for a single associate with the following:  Multiple Pay Number Temporary Cost Number codeValue is 001000 Allocatio nID:2	
Request for multiple associates with the following:  Multiple Pay Number Temporary Cost Number codeValue allocationI D	

	I.	
Request for single associate with the following:  Temporary Departmen t codeValue		
Request for a single associate with the following:  Temporary Departmen t Number codeValue, which is in the Inacti ve status		
Request for a single associate with the following:  Multiple Pay Number  Departmen t Number  codeValue is 001000  allocation ID:3		
Request for multiple associates with the following:  Multiple Pay Number Temporary Departmen t Number codeValue allocationl D is 3		
Request for a single associate and Multiple Pay Number with Allocati on Number when Compa ny set up options are set to enable[Automatic and Manual] for costNum ber, and:  • Allocation s are		

in employ ment profile > allocation s with departmen t and percentage • codeValu	
e=3 and 4  Request for a single associate with Single Pay	
Number and Allocation  Number when Compa  ny set up options  are enable[Automatic  and  Manual] for costNum  ber, and:	
<ul> <li>Allocation         s are         in employ         ment         profile-&gt;         allocation         s         codeValu</li> </ul>	
e=3	
Request for a single associate and Single Pay Number with Allocati on Number when Compa ny set up options are set to enable[Automatic and Manual] for costNum ber, and:	
<ul> <li>Allocation         s are         in employ         ment         profile &gt;         allocation         s         codeValu         e=1</li> </ul>	
Request for a Single Associate, Single Pay Number, and Allocation Number when Compa ny set up options are set	

to <b>enable[Manual]</b> fo r <b>costNumber</b> , and:	
<ul> <li>Allocation s are</li> </ul>	
in <b>employ</b>	
ment	
profile >	
allocation	
s • codeValu	
e=4	
Request for a <b>Single</b>	
Associate, Single Pay	
Number, and Allocation	
Number when Compa	
<b>ny</b> set up options are set	
to <b>enable[Manual]</b> fo	
r <b>costNumber</b> , and:	
<ul> <li>Allocation</li> </ul>	
s are	
in <b>employ</b> ment	
profile >	
allocation	
s	
• codeValu	
e=10	
Request for a <b>Single</b>	
Associate and Multipl	
e Pay Number with Allocati	
on	
Number when Compa ny set up options are	
set	
to enable[Manual] fo r costNumber, and:	
<ul> <li>Allocation s are</li> </ul>	
s are in <b>employ</b>	
ment	
profile >	
allocation	
<b>s</b> with departmen	
t and	
percentage	
• codeValu	
e=5 and 10	
10	
Request for a <b>Single</b>	
Request for a Single Associate and Multipl e Pay	

on Number when Compa ny set up options are	
set	
to enable[Automatic] for costNumber, and:	
Allocation	
s are	
in <b>employ</b>	
ment	
profile >	
allocation	
s • codeValu	
e=landl	
5	
Request for a <b>Single</b>	
Associate and Single	
Pay	
Number with Allocati on	
Number when Compa	
ny set up options are	
set to <b>enable[</b> Automatic] for	
costNumber	
and codeValue="1".	
Request for a single	
associate	
and Multiple Pay Number with Allocati	
on	
Number when Compa	
ny set up options are set	
to enable[Automatic	
and Manual] for costNum	
ber, and:	
<ul> <li>Allocation</li> </ul>	
s are	
in <b>employ</b>	
ment profile >	
profile > allocation	
s with	
departmen	
tand	
percentage	
<ul><li>codeValu</li></ul>	
e=3 and 4	
Request for a single	
associate with Single Pay	
Number and Allocatio	
n Number when Compa	
ny set up options	
are <b>enable[Automatic</b>	
and Manual] for costNum	
ber, and:	
	• The state of the

<ul> <li>Allocation s are in employ ment profile-&gt; allocation s</li> <li>codeValu e=3</li> </ul>	
Request for a Single Associate and Multipl e Pay Number with Allocati on Number when Compa ny set up options are set to enable[Automatic] for DepartmentNumb er and codeValue="1" and "1".	
Request for a Single Associate with Alloca tion Number when Company set up options are set to enable[Automatic and Manual] for Departm entNumber and codeV alue="1".	
Request for a Single Associate with Alloca tion Number when Compa ny set up options are set to enable[Manual] fo r DepartmentNumber, and:  • Allocation s are in employ ment profile > allocation s codeValu e="10"	
Request for a Single Associate with Alloca tion Number when Compa ny set up options are set up to enable[Automatic and Manual] for Departm entNumber, and:  • Allocation s are	

in employ ment profile > allocation s • codeValu e="3"
Add paydata with Rate code