

Chapter 2

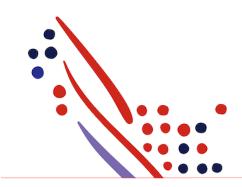
Use Case: Getting the Details of a Payroll

from Payroll Output API Guide (Turbo API) for Midsized to Enterprise Businesses

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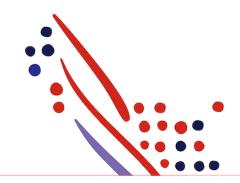
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Chapter 2

Use Case: Getting the Details of a Payroll

Use Case Description

 $The Turbo\ API\ provides\ information\ related\ to\ a\ client's\ payrolls.\ This\ use\ case\ gets\ the\ details\ of\ a\ payroll.$

API Usage

Method	Uniform Resource Identifier (URI)	Description	GitHub Sample Response Payload
GET	/payroll/v2/payroll-output		<u>payrollOutput-default-</u> 200.response.json
GET	/payroll/v2/employment-verification/payroll- output	This Uniform Resource Identifier (URI) is for an Equifax Canada client.	empVerification-default- 200.response.json
GET	/payroll/v2/payroll-output/{output-id}/associate- payment-summary/earnings		<u>payrollOutput-earnings-</u> 200.response.json
GET	/payroll/v2/payroll-output/{output-id}/associate- payment-summary/statutory-deductions		<u>payrollOutput-</u> <u>statutoryDeductions-</u> <u>200.response.json</u>
GET	/payroll/v2/payroll-output/{output-id}/associate- payment-summary/non-statutory-deductions		<u>payrollOutput-</u> <u>NonstatutoryDeductions-</u> <u>200.response,json</u>
GET	/payroll/v2/payroll-output/{output-id}/associate- payment-summary/reportable-earnings-and- benefits		<u>payrollOutput-</u> <u>reportableEarningsAndBenefits-</u> 200.response,json
GET	/payroll/v2/payroll-output/{output-id}/associate- payment-allocations/earnings		<u>payrollOutput-</u> <u>Allocationearnings-</u> <u>200.response,json</u>
GET	/payroll/v2/payroll-output/{output-id}/associate- payment-allocations/statutory-deductions		<u>payrollOutput-Allocation-</u> <u>statutoryDeductions-</u> <u>200.response,json</u>
GET	/payroll/v2/payroll-output/{output-id}/associate- payment-allocations/non-statutory-deductions		<u>payrollOutput-Allocation-</u> <u>NonStatutoryDeductions-</u> <u>200.response.json</u>

Method	Uniform Resource Identifier (URI)	Description	GitHub Sample Response Payload
GET	/payroll/v2/payroll-output/{output-id}/associate- payment-allocations/reportable-earnings-and- benefits		<u>payrollOutput-</u> <u>reportableEarningsANDbenefits-</u> <u>200.response.json</u>

Application Scope

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 canonicals need to be added to your application scope to enable this use case:

/payroll/payrollManagement/payrollProcessingResults/payrollOutputManagement/payrollOutputread

/payroll/payrollManagement/payrollProcessingResults/employmentVerificationManagement/payrollOutput.read

/payroll/payrollManagement/payrollProcessingResults/payrollOutputPaymentSummary/earningSummary.read

/payroll/payrollManagement/payrollProcessingResults/payrollOutputPaymentSummary/statutoryDeductionSummary.read

/payroll/payrollManagement/payrollProcessingResults/payrollOutputPaymentSummary/nonStatutoryDeductionSummary.read

/payroll/payrollManagement/payrollProcessingResults/payrollOutputPaymentSummary/reportableEarningBenefitSummary.read

/payroll/payrollManagement/payrollProcessingResults/payrollOutputPaymentAllocations/earningAllocations.read

/payroll/payrollManagement/payrollProcessingResults/payrollOutputPaymentAllocations/statutoryDeductionAllocations.read

/payroll/payrollManagement/payrollProcessingResults/payrollOutputPaymentAllocations/nonStatutoryDeductionAllocations.read

/payroll/payrollManagement/payrollProcessingResults/payrollOutputPaymentAllocations/reportableEarningBenefitAllocations.read

Supported Actors

Request Parameter roleCode Value	Usage
Practitioner	Practitioners can retrieve or make updates to a worker's payroll details.

Headers and Filters

Attribute	Parameter	Description				
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Attribute	Parameter	Description	
URL		"payrollOutputService/v2/payroll-output"	
Header Param	{Content- Type}	application/json (required)	
Header Param	{adp-userid}	{user id/email address}	
Header Param	{orgoid}	Organization OID (required)	
Header Param	{associateoi d}	Associate OID (required)	
Header Param	{sm_serverse ssionid}	Session ID (required)	
Header Param	{SOR}	AutoPay (required)	
Header Param	{SORContex t}	For checkmate format is {region}:{company}:{Chron NB}:{CUI Edit ID}:{RTP Job ID}:{CUI Jln Dt}, for all others {region}:{company}:{RTP Job ID}	
Header Param	{realm}	ISI (required)	
Header Param	roleCode (required)	The role the user is playing during the transaction. Possible values are as follows: • employee • manager • practitioner • administrator • supervisor When coming from Myself capabilities rolecode=employee the roleCode header will be passed in all calls. When coming from Team capabilities, the roleCode=manager. When coming from Practitioner capabilities, the roleCode=practitioner. The API will only accept the rolecode of practitioner or employee.	
Header Param	ConsumerAp pOID	Specifies the identifier for the service consumer application. Identifies if the API consumer is an external application or internal to ADP.	

Attribute	Parameter	Description	
Query Param	level	Specifies the payroll output level. Valid entries are as follows: • blank/default - List of basic information on matching payroll runs. • payroll - Payroll Summary totals for a specific payroll run. • pay - Payment Summary at the employee and associate level for a specific payroll run. • acc - Payment summary with accumulation totals at the associate and employee level. • acc-unpaid - Payment summary with accumulation totals at the associate and employee level for unpaid associates. • acc-all - Accumulation for all employees and associates even if they have no activity during this payroll run. • details - Associate Payment details for a specific payroll & Returns detail level information for CheckMate runs.	
Query Param	\$count	Include meta node with total record count? Valid entries are true or false.	
Query Param	\$skip	Number of records to be skipped when generating output. When the level is blank it indicates the number of payroll runs to skip, for all other levels indicates number of associates to be skipped.	
Query Param	\$top	Maximum number of records to be returned. When the level is blank it indicates the number of payroll runs to include. All other levels indicate the number of associates to be included.	
Query Param	\$select	List of payroll output sections to include in returned output. If \$select is not specified, all output sections relevant to the selected level will be returned. See the list in the following table for currently supported select fields.	
Query Param	\$filter	List of filter conditions to use when selecting payroll runs. See the list in the following table for currently supported filter fields.	

Supported Filter Fields

Field Name	Description	
payrollRegionCode/codeValue	Specifies the Payroll Region.	
payrollGroupCode/codeValue Specifies the company code or payroll group.		
itemID Specifies the payroll run item ID.		
payrollProcessingJoblD	Specifies the payroll run RTP Payroll ID.	
payrollScheduleReference/scheduleEntrylD	Specifies the Payroll Schedule Entry item ID.	
payrollScheduleReference/payrollScheduleID	Specifies the Payroll Schedule item ID.	

Field Name	Description
payrollScheduleReference/payrollYear	Specifies the Payroll Year (4 digits). Should be used with comparison Operators(eq, ne, ge, gt, le, and lt)
payrollScheduleReference/payrollWeekNumber	Specifies the Payroll Week Number (2 digits). Should be used with comparison Operators(eq, ne, ge, gt, le, and lt)
payrollScheduleReference/payrollRunNumber	Specifies the payroll run number.
associatePayments/associateOID	Specifies the associateOID (25 max).
level	Specifies the level of data (see Level Matrix).
payPeriodEndDate	Specifies the Payroll Period Ending Date (8 digits). Should be used with comparison Operators(eq, ne, ge, gt, le, and lt)
payrollStatus	Specifies the Payroll Status (3 Chars)

When filtering on associateOID (AOID), due to the 2000 character URL limitation, we recommend not exceeding 200 AOIDs per call.

There are several levels that can be requested, specified through the **level=parameter**, and explained in the following table. Parameters and filters can be specified within the request for any level and to provide information on a specific company, payroll, or associate.

Field Level	Uniform Resource Locator (URL)	GitHub Sample Response Payload
defa ult	/payroll/v2/payroll-output?level=default&\$filter=payrollGroupCode/codeValue eq DC5	filter-defaultLevel- payrollGroupCode-200- response.json
defa ult	/payroll/v2/payroll-output?level=default&\$filter=payrollRegionCode/codeValue eq RATE	filter-defaultLevel- payrollRegionCode-200- response.json
defa ult	/payroll/v2/payroll-output? level=default&\$filter=payrollScheduleReference/payrollWeekNumber eq 03	filter-defaultLevel- payrollWeekNumber-200- response.json
defaul t	/payroll/v2/payroll-output?\$filter=itemID eq 47yN- 7cwtRB6AsQDOHgAow==&level=default	<u>filter-defaultLevel-ItemID-200-</u> <u>response.json</u>
defaul t	/payroll/v2/payroll-output?level=default&\$filter=payrollProcessingJobID eqEFE2D448- 23F8-101B-8B39-FFD9C1E3C5FF	filter-defaultLevel- payrollProcessingJobID-200- response.json

Field Level	Uniform Resource Locator (URL)	GitHub Sample Response Payload
defaul t	/payroll/v2/payroll-output? level=default&\$filter=payrollScheduleReference/scheduleEntryID eq 20210115121728- lVr2lkGlh7PqURciiwjuBF9zvVjchg7l9tUeUSjiLCg=	filter-defaultLevel- ScheduleEntryID-200- response.json
defaul t	/payroll/v2/payroll-output?level=default&\$filter=payrollScheduleReference/payrollYear eq 2021	<u>filter-defaultLevel-payrollYear-</u> 200-response.json
defaul t	/payroll/v2/payroll-output? level=default&\$filter=payrollScheduleReference/payrollRunNumber eq 1	filter-defaultLevel- payrollRunNumber-200- response.json
defaul t	/payroll/v2/payroll-output?level=pay&\$filter=itemID eq 47yN-7cwtRB6AsQD0HgAow== and associatePayments/associateOID eq G304N3G1H9YE71W1	<u>filter-defaultLevel-associateID-</u> 200-response.json
payro ll	/payroll/v2/payroll-output?\$filter=itemID eq 47yN- 7cwtRB6AsQDOHgAow== &level=payroll	<u>filter-payrollLevel-200-</u> <u>response.json</u>
pay	/payroll/v2/payroll-output?\$filter=itemID eq 47yN-7cwtRB6AsQDOHgAow== &level=pay	<u>filter-payLevel-200-</u> <u>response.json</u>
detai ls	/payroll/v2/payroll-output?\$filter=itemID eq 47yN- 7cwtRB6AsQDOHgAow== &level=details	filter-detailsLevel-200- response.json
payD etail s	/payroll/v2/payroll-output?\$filter=itemID eq 47yN- 7cwtRB6AsQDOHgAow== &level=payDetails	filter-payDetailsLevel-200- response.json
acc	/payroll/v2/payroll-output?\$filter=itemID eq 47yN-7cwtRB6AsQDOHgAow== &level=acc	filter-acc-level-200- response.json
acc- all	/payroll/v2/payroll-output?\$filter=itemID eq 47yN-7cwtRB6AsQDOHgAow== &level=acc- all	filter-acc-all-level-200- Response.json

Understanding Level Filter

The Turbo API provides information related to a client's payrolls. There are several levels that can be requested, specified through **level=parameter**, and explained in the following table.

Parameters and filters can be specified within the request for any level, in order to provide information on a specific company, payroll, or associate.

Level Matrix

Level	Name	Quick Description	Long Description
Level	Name	Quick Description	Long Description
(defa ult, no level = para mete r speci fied)	Payroll Run List	List of payroll runs with default level information for the requested client.	The default level provides a list of payroll runs for the requested client. Each occurrence of a payroll within this list includes default level information, such as basic payroll run parameters, status, and schedule reference information. Default level data can be called either by Year or from a Beginning Date by using the payrollHistDate filter with the format YYYMMDD: /payroll/v2/payroll-output?\$filter=payrollGroupCode/codeValue eq RR1&payrollHistDate=20181228&level=default Default level data will not include any data elements occurring prior to region activation data of payroll output (typically 10/2017). Data returned includes the following Default Level Information for each payroll in the list: Processing Job ID AutoPay Region Code Group Code (AutoPay Company Code) Schedule Reference Information includes Schedule ID, Schedule Entry ID (prefaced by the run date/time), and the payroll's Year, Week, and Run Number.
payro ll	Payroll Summary	For the selected payroll, there is the following: Default level information Payroll summary totals	The payroll level provides the default level information for the selected payroll, followed by payroll summary totals across all associates in that payroll. Returned data includes the following Default Level Information for each payroll in the list: Default Level Information Earnings Summary Reportable Earnings and Benefits Summary Reimbursements Summary Statutory Deductions Summary Non-Statutory Deductions Summary Memos Summary Payments Distribution Summary Payroll Adjustments Third Party Payments Schema location: /payrollOutput/payrollSummary/

Level	Name	Quick Description	Long Description
pay	Associate Payment Summary	For the selected payroll default level information and payment information for each pay and each associate. This includes the following: • High level payment information • Payment summary • Payment distributions	The pay level provides the default level information for the selected payroll, followed by a summary of the associate payment information for the associates that had activity in the selected payroll. Returned data includes the following items for each associate: Default Level Information Associate's AOID (Associate Object Identifier) Payment Information (this is an array of pays for each AutoPay file number within the AOID) Pay Date, Period Start Date, Period End Date Payment Amount (also known as Take Home Pay) Payment Summary Earnings (array) Reportable Earnings and Benefits (array) Reimbursements (array) Statutory Deductions (array) Non-Statutory Deductions (array) Memos (array) Payment Distributions Payment Document ID (such as a voucher or check) Check Amount Direct Deposits (array)
detai ls	Associate Payment Detail	For the selected payroll, default level information and payment information for each pay and each associate. This includes the following: • High level payment information • Payment details	The details level provides the default level information for the selected payroll, followed by the details of the associate payment information for the associates that had activity in the selected payroll. Returned data includes the following items for each associate: Default Level Information Associate's AOID Payment Details (this is an array of pays for each AutoPay file number within the AOID) Pay Date, Period Start Date, Period End Date Payment Amount (also known as Take Home Pay) Payment Allocations Pay Allocation ID Earnings (array) Reportable Earnings and Benefits (array) Reimbursements (array) Statutory Deductions (array) Mon-Statutory Deductions (array) Memos (array)

Level	Name	Quick Description	Long Description	
payD etail s	Associate Payment Summary and Details	For the selected payroll, default level information and payment information for each pay and each associate. This includes the following: • High level payment information • Payment summary • Payment distributions • Payment details	The payDetails level provides the default level information for the selected payroll, followed by a summary of the associate payment information for the associates having activity in the selected payroll and details of the associate payment information. Returned data includes the following items for each associate: Default Level Information Associate's AOID Payment Information (this is an array of pays for each AutoPay file number within the AOID) Pay Date, Period Start Date, Period End Date Payment Amount (also known as Take Home Pay) Payment Summary Earnings (array) Reportable Earnings and Benefits (array) Reimbursements (array) Reimbursements (array) Non-Statutory Deductions (array) Memos (array) Payment Distributions Payment Distributions Payment Document ID (such as voucher or check) Check Amount Direct Deposits (array) Payment Details (this is an array of pays for each AutoPay file number within the AOID) Pay Date, Period Start Date, Period End Date Payment Amount (also known as Take Home Pay) Payment Allocations Pay Allocation ID Earnings (array) Reportable Earnings and Benefits (array) Reportable Earnings and Benefits (array) Reimbursements (array) Statutory Deductions (array) Non-Statutory Deductions (array)	
асс	Associate Payment Summary with YTD & Other Accumulation s	For the selected payroll Default level information and payment information for each pay and each associate. This includes the following: • High level payment information • Payment summary • Payment distributions • Payroll accumulations for associates who had activity	The acc level provides the same information as the pay level, with the addition of payroll accumulations information for the following: • Gross, Earnings • Reportable Earnings and Benefits Reimbursements • Statutory Deductions • Non-Statutory Deductions • Memos The accumulations information for each AutoPay file number will be included within the last pay number in which that accumulation was impacted. If a specific accumulation was not impacted during this payroll, it will be included within pay number 0 (zero). Note: Accumulations information will only be provided for associates who had activity in the selected payroll.	

Level	Name	Quick Description	Long Description	
acc- unpa id	Associate Payment Summary with YTD & Other Accumulation s(unpaid associates)	For the selected payroll Default level information and payment information for each pay and each associate. This includes the following: High level payment information Payroll accumulations for all associates in the company	The acc-unpaid level is the same as the acc level, except that only the unpaid/inactive employees are included in the response, with any untaken deduction amounts or benefit accrual amounts will be included for each employee will be added to the response. The payment date will be available for all employees.	
acc- all	Associate Payment Summary with YTD & Other Accumulation s(all associates)	For the selected payroll Default level information and payment information for each pay and each associate. This includes the following: • High level payment information • Payment summary • Payment distributions • Payroll accumulations for all associates in the company	The acc-all level is the same as the acc level, except that payroll accumulations information will be included for all associates in the company. For unpaid/inactive employees in the acc-all response, any untaken deduction amounts or benefit accrual amounts will be included for each employee will be added to the response. The payment date will be available for all employees. The payment start and end dates will be available only for employees who are paid in the payroll.	
error	Error Correction	For the selected payroll: corrected errors allowing activity to progress to preview complete crossfoot errors	For error level, all errors as would be listed on the error correction green screen which indicate errors corrected on input to allow the payroll activity to progress. Crossfoot errors (negative pay) are also included. Note: Counts of error messages are listed in the confirmMessage section on the payroll (payroll summary) level.	
droppe d pay	Dropped Pays	For the selected payroll: • listing of all dropped pay file numbers and associated messages	For dropped pay level, a simple list of selected payroll output runs retrieved from AutoPay history for dropped pays is provided. Default associate payments information and configuration tags details will be included	

Level	Name	Quick Description	Long Description
wage- garnis hemen ts	Wage Garnishments	For the selected payroll isting of all lien numbers and lien change codes.	A separate API call to fetch wage garnishments changes for all the associates is introduced for a payroll run. The response will contain a list of wage garnishments that include details like associate OID, file number, lien changes. The file number is populated as part of configuration tags in response. This API will populate the wage garnishments count as part of meta data. /payroll/v1/wage-garnishments
employ ment- verific ation	Employment Verification	For the selected payroll: • listing the details of employees who are opted for verification	A separate API call to fetch employee data who are opted for employment verification (which is verified with a WFN worker-api call). The response will contain the details of the employees according to the level in the parameters. The associate OIDs can be specified in the url. /payroll/v2/employment-verification

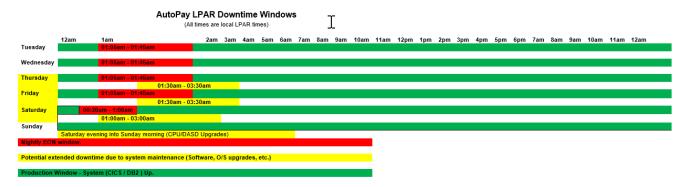
Calling Historical Data (Payroll Data older than 60 days)

Turbo can provide historical payroll data for payrolls run on and after 10/15/2017.

Calls for data older than 60 days negatively impacts production payroll processing and is therefore limited in time frame post normal payroll processing hours. These calls will be permitted from 6:00 pm local region time to 9:00 am local region time, Monday through Friday. Historical Data can be called during weekends without limitation. Please note, maintenance windows do apply (please see below).

Systems will be unavailable to serve historical data during the following times:

Every Saturday, 5:30 am EST - 6:30 am EST



Monthly IPL schedule by CPU (Saturday mornings between the hours of 1:15am and 1:30am).

CPU1 - BOST, CHAR, CLIF, LONG, LOS2 and NCN3

CPU2 - CHIC, DALL, MIAM, NCNP, PHIL and PHOE

CPU3 - ATLA, BALT, CLEV, CLI2, NCTS, SANF and SEAT

CPU5 - LOSA, NCN2, PITT and STLO

Historical Data Request Notifications:

If a request for data from an activity that was run more than 60 days beyond the request, the request will be held and submitted post 6pm local region time. Once the data is regenerated from the backend via Regenerate Scheduler, and is available a notification will be sent out.

Historical Data Request Example:

Historical Data Complete Event

Historical Data Error Event

At time of request, a 200 response will be sent with a 202 in the "confirm message" with the messageTxt of "INFO: All requests for payrolls greater than 60 days will be processed during non-business hours(i.e. after 6 p.m. local time)." in the userMessage node.

Historical Data Message Sample

Regenerate Scheduler is configured 3 standard time zones Eastern, Central, and Pacific time zones, that will pick and process the legacy requests in non-business hours.

During Business hours, requests for legacy payrolls that are not found in MongoDB and older than 2 months will be saved in the mongo collections (i.e. regeneratePayrollRequestsPST, regeneratePayrollRequestsEST, and regeneratePayrollRequestsCST). The specific time zone corresponding to payroll is identified by the input region in the request. The scheduler configuration and time zone – region mapping will be configured and managed from the config service.

Regenerate Scheduler

- Business Hours: 9.00 AM to 6.00 PM
- Non-Business Hours: 06:01 PM to 08:59 AM
- Run Frequency: Every 2 Hour during Non-Business hours, with 2 seconds generator gap ((3 Schedulers, 5 Replicasets, 1500 Requests (1000 from 2 timeZones and 500 other time zone; Total 1500 Requests), 8hours Non-Business hours
- Max Requests Processed: 20 Payroll requests will be sent in a single batch, total 5 batches * 20 = 100 Requests in 2 hours (Based on the load this can be varied)

United States Time Zone with UTC/GMT Offsets

ABBREVIATION	TIME ZONE NAME	UTC OFFSET
EST	EASTERN STANDARD TIME	UTC-5
EDT	EASTERN DAYLIGHT TIME	UTC - 4
CST	CENTRAL STANDARD TIME	UTC - 6
CDT	CENTRAL DAYLIGHT TIME	UTC-5
PST	PACIFIC STANDARD TIME	UTC - 8
PDT	PACIFIC DAYLIGHT TIME	UTC - 7