

Before we start...



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Parameter power in Fusion Payroll - Leveraging parametrization for administration & troubleshooting

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Facilitator: **Floriana Popescu**- Principal Customer Success Manager

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Parameters - How and why use them in Fusion Payroll (and beyond)



Parametrization for payroll processing and extracts



Logging parameters for troubleshooting



Incident recording



Further resources



Q&A

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Q&A

Why do we utilize parameters?

- ❑ Add parameters to a process configuration group in order to optimize performance and troubleshoot your ESS processes
- ❑ To process large volumes of records, make use of the Threads and Chunk Size parameters
- ❑ To troubleshoot processes, add the Logging Category or Formula Execution Logging parameters to a configuration group and rerun the process using that configuration group. Using such parameters enables you to investigate formula code problems

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Q&A

Payroll processing parameters

- ❑ Are system-level parameters that control aspects of payroll-related processes, such as flows and reports
- ❑ You can select a process configuration group when you run a process, such as a new-hire flow or payroll calculation, or an extract process or report
- ❑ If you don't select a process configuration group, the application uses the parameters in the default group.

Payroll-specific parameters

Parameter name	Description	Comments
Maximum Errors Allowed	Number of times the same error encounter in a row will lead to ceasing processing	Minimum: 0 Default: CHUNK_SIZE or 20
Earliest Retroactive Processing Date	<p>Sets earliest date that retroactive processes are calculated. Updates made before this date aren't recalculated.</p> <p>Note: If you define a static retroactive start date and a rolling retroactive start date, the retro pay process uses the latest of the two dates. For example, if the static retroactive start date is 01-JAN-2021 and the rolling retroactive start date is 15-MAR-2020, the retro pay process uses a start date of 01-JAN-2021.</p>	Date value in YYYY/MM/DD format
Number of months in rolling period for retroactive changes	<p>Sets the number of months in the retroactive pay rolling period.</p> <p>If you don't want to limit the duration of the retroactive pay period, change the default of 12 month rolling period to 999 months.</p>	Default: 12

Payroll-specific parameters

Parameter name	Description	Comments
Accounting Date for Transfer to General Ledger	The date to transfer and post journal entries for costing results to Oracle Fusion General Ledger.	E = Date Earned P = Process Date DP = Date Paid from payroll time periods for calculate payroll and QuickPay only. EVE = For the Partial Period Accrual Reversal process, date earned is used. However, if the date earned isn't defined for the time periods on the Payroll Definition page, the payroll period end date is used. For the payroll run that includes the actual costs, the process date of the payroll run is used. Default: P
Payroll Payments to Inactive Bank Accounts	Removes the validation to look for active banks as of the process date in payments processes.	Default: No

Parameters for Extracts' processing

- ❑ Many delivered extracts, especially high-volume payroll extracts, include default, best-practice process configuration settings to optimize report performance
- ❑ Delivered extracts use these default settings only if you haven't used your own values for process configuration parameters, via a processing group
- ❑ For user-defined extracts, you can set your own default settings as hidden extract and flow parameters, just like the delivered extracts. Alternatively, you could add a process configuration group parameter on the report to allow a different setting on each report submission.

Parameters for Extracts' processing

Description	Parameter Name	Default Value	Extracts that utilize it
Skip BI server for online payslip	ORA_PAYSLIP_SKIP_BI_SERVER	Y	Payslip
Multithreaded XML Generation for Extracts	ORA_MULTITHREADED_XML	Y	<ul style="list-style-type: none"> •Payroll Activity Report for the Latest Process •Periodic Payroll Activity Report •Statutory Deduction Register •Statutory Deduction Register for the Latest Process •Periodic Statutory Deduction Register •Payroll Costing Results
XML_DATA_SOURCE	XML_DATA_SOURCE	Y	For document records delivery options performance purposes, determines if XML is derived from the database

Parameters for Extracts' processing

Description	Parameter Name	Default Value	Extracts that utilize it
Suppression of Null Values	WRITE_NULL_VALUES	N	<ul style="list-style-type: none">•Payroll Activity Report•Payroll Activity Report for the Latest Process•Periodic Payroll Activity Report•Statutory Deduction Register for the Latest Process•Periodic Statutory Deduction Register•Payroll Costing Results
XML Data Chunking- Large volumes of report output data are split into smaller, manageable chunks to enable parallel processing. These chunks are later merged into a single report output.	XML Data Chunking	N/a	<ul style="list-style-type: none">•Recommended to use only for report size > 1 GB•Payroll Activity Report for the Latest Process•Statutory Deduction Register for the Latest Process•Payroll Register Report for the Latest Process•Payroll Costing Results

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Q&A

Logging parameters

- Logging category
- Logging area
- Formula Execution Logging

Logging category

- ❑ defines the type of logging information that will be output in the log file
- ❑ you can set any number and combinations of categories by specifying multiple values to focus on specific areas, that might be causing a problem- e.g. F/GMF/GMFZT
- ❑ the application doesn't allow a blank value for the parameter
- ❑ you must delete the parameter row when logging isn't required; it should not be set and left in place on the Default group

Logging categories

Parameter value	Logging category	Description
G	General logging	Provides general information, rather than a specific information type. This parameter doesn't provide sorted output. In general, it's recommended that you choose parameters that provide specific types of information.
F	Formula information	Provides output information that shows details of formula execution, including formula contexts, inputs, and outputs.
T and Z	PL/SQL detail and PL/SQL output	<p>Provides detailed information about the PL/SQL calls made by the Payroll application, use the combination of the T parameter and the Z parameter. This combination is typically useful for obtaining information about payroll processes that use a large amount of PL/SQL code, such as Calculate prepayments and Archive periodic payroll results.</p> <p>Using this parameter, the process buffers output while it's running and places it the end of the log file after processing is complete. Each payroll process instance has its own log file, located under the log subdirectory for the particular process ID.</p>

Logging categories

Parameter value	Logging category	Description
M	Entry or exit routing information	<p>Provides output information to show when any function is entered and exited.</p> <p>This information is indented to show the call level, and can be used to trace the path taken through the code at the function call level. Often, this information is useful when attempting to track down a problem such as a core dump.</p>
V (for US Payroll only)	Vertex tax calculation information	<p>Provides output information that shows the values passed in and out of a third-party Vertex tax engine. This parameter also provides a separate file in the Out directory that shows the internal settings of the Vertex engine. This logging option is available to customers in the USA only.</p>
R	Run results information	<p>Provides output details of run results and run result values from the Run Results buffer or the Values buffer before writing them to the database. This enables verification that the buffer contents were correct.</p>

Logging categories

Parameter value	Logging category	Description
B	Balance Information	Provides output information that shows the creation and maintenance of balances used during payroll processing.
I	Balance output information	Provides output information that shows details of values written to the database from the balance buffers.
L	Balance fetching information	Provides output information that shows the balances retrieved from the database and whether or not the process will use those balances. (If balances such as Year To Date totals have expired because the year has changed, the process resets them and uses the new balance.)

Logging categories

Parameter value	Logging category	Description
C	C cache structures information	Provides output information that shows details of the payroll cache structures and changes to the entries within the structure. While working on a service request, Oracle may ask you to use this parameter to gather additional information.
E	Element entry information	Provides output information that shows the state of the element entries in the process memory after retrieving entries from the database. The information is provided whenever data for an entry is changed during processing.

Formula Execution Logging

- ❑ Refers the code area where logging is performed
- ❑ May help in understanding, for example, why specific database items(DBIa) aren't working. Are the bind values correct? Are they returning any rows?
- ❑ Processing parameter mechanism is only available for formula logging in the payroll run
- ❑ Default value is no logging
- ❑ Specify parameter values as a character or combination of characters to determine the area for logging.
E.g. the string - di - (the combination of d and i) corresponds to the logging of database item cache access and formula input and output values

Formula Execution Logging

Parameter value	Meaning
c	Change contexts
d	Database item cache access
D	Database item cache dump
f	Formula cache access
F	Formula cache dump
l	Formula input/output values
m	Miscellaneous
n	Nested calls

Formula Execution Logging

Parameter value	Meaning
s	SQL execution (database item and PL/SQL formula function calls)
T	Trace (very large level that provides the inputs and outputs of every call made when executing a formula) ! Use the dump logging options in rare and specific circumstances only. This trace option, which generates very large amounts of data, would significantly slow down processing.
w	Working storage area access
W	Working storage area dump

Formula Execution Logging

Parameter value	Meaning
1	Level 1 (combination of c, f, i, and m)
2	Level 2 (combination of 1, c, d, n, and w)
3	Level 3 (combination of 2, D, s, and W)
4	Level 4 (combination of 3 and F)
5	Level 5 (combination of 4 and T)

Demo – Setting up a processing group that includes Logging Category and Threads parameters

The screenshot shows the Oracle HCM Cloud user interface. At the top left is the Oracle logo. A search bar contains the text "Search for people and actions". On the top right, there are navigation icons for home, favorites, flags, notifications (with a red badge), and the user's initials "AM".

The main content area features a personalized greeting: "Good afternoon, Anca Maria Andronic!". Below this is a horizontal menu with tabs: "Me", "My Team", "My Client Groups" (which is selected), "Benefits Administration", "Workspace", "Partner Management", "Sales", and "Service".

The dashboard is divided into two main sections: "QUICK ACTIONS" on the left and "APPS" on the right. The "QUICK ACTIONS" section includes:

- HCM Experience Design Studio
- Hire an Employee
- Add a Contingent Worker
- Add a Pending Worker
- Add a Nonworker
- Pending Workers
- Document Delivery Preferences
- Mass Download of Document Records

The "APPS" section is a grid of 15 application tiles:

- Journeys
- New Person
- Person Management
- Person Spotlight
- Absences
- Goals
- Performance
- Profiles
- Career Development
- Talent Review
- Succession Plans
- Talent Pools
- Workforce Structures
- Mass Updates
- Payroll

On the far right edge of the dashboard, there is a vertical information icon (an 'i' in a circle) and a grid of dots below it.



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Record issues

Can be used for troubleshooting when:

- Error occurs on a **single** UI
- There is a performance issue in the UI
- A functionality does not work as expected and logging for a particular module needs to be enabled to provide more details
- Submitting an ESS scheduled job encounters an issue

It is **not used** for troubleshooting processes and processes' results.

Demo – Incident recording for troubleshooting

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Search for people and actions

Home Star Flag Notification 6 AM

Good afternoon, Anca Maria Andronic!

Me My Team My Client Groups Benefits Administration Workspace Partner Management Sales Service >

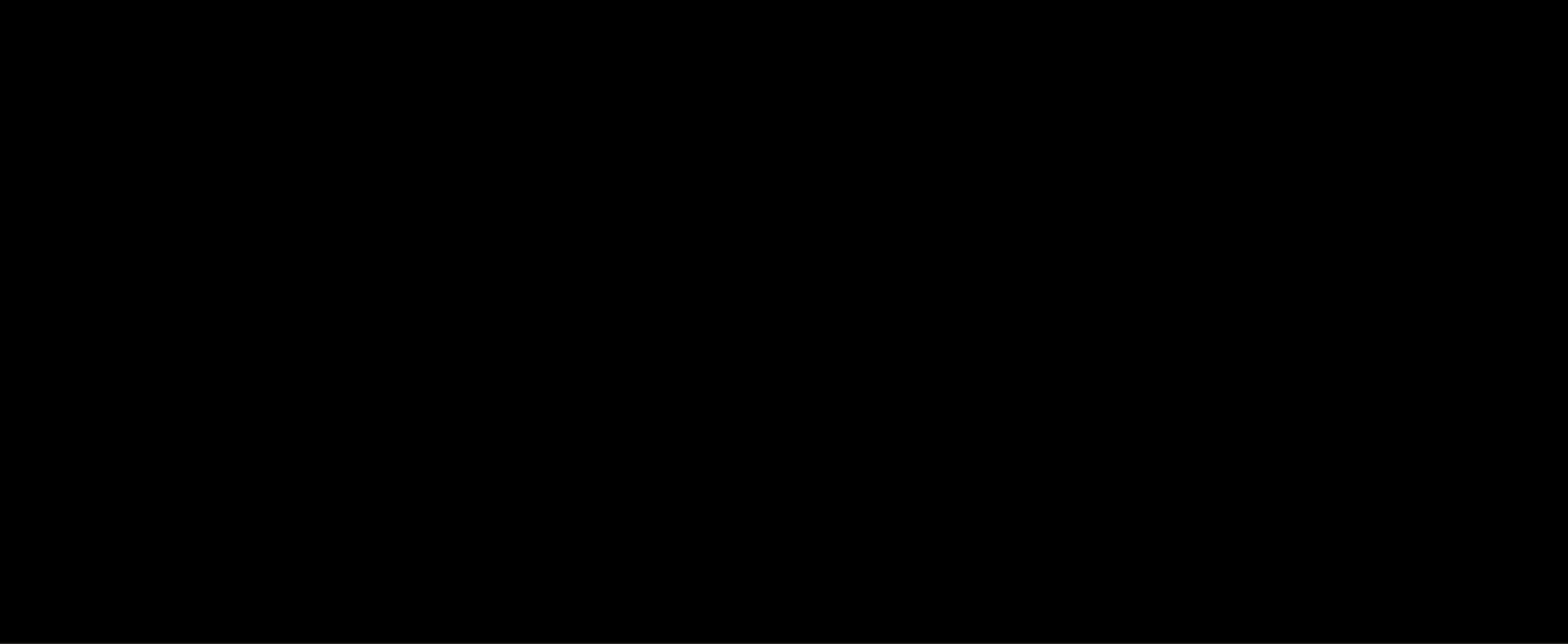
QUICK ACTIONS

- HCM Experience Design Studio
- Hire an Employee
- Add a Contingent Worker
- Add a Pending Worker
- Add a Nonworker
- Pending Workers
- Document Delivery Preferences
- Mass Download of Document Records

APPS

- Journeys
- New Person
- Person Management
- Person Spotlight
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- Performance
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Record issues (cont.)

- Currently cannot be used on Redwood Responsive UIs
- If you are encountering issues in generating or using the Recording functionality, please open a Service Request using
Component: Technology Management - System Administration
Subcomponent: Managing Middle Tier and Application

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Q&A

Further useful links

- Oracle Help Center

Logging for troubleshooting:

- [Fusion Global Payroll: How to Enable Logging for Oracle Fusion Global Payroll and QuickPay \(Doc ID 1536245.1\)](#)
- [Fusion Payroll: How to Get Vertex Log File when Performing Payroll Logging for Tax Calculation? \(Doc ID 2187321.1\)](#)

Incident Recordings:

- [Troubleshooting Using Record Issue \(Doc ID 2122074.1\)](#)
- Customer Connect Community/ IdeaLab

The site includes forums, Idea labs, events, and links to doc and readiness documentation

- <https://community.oracle.com/customerconnect/categories/hcm-payroll-and-global-payroll-interface>

Q&A

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