SAP Business ByDesign Extension for Labor Dilution

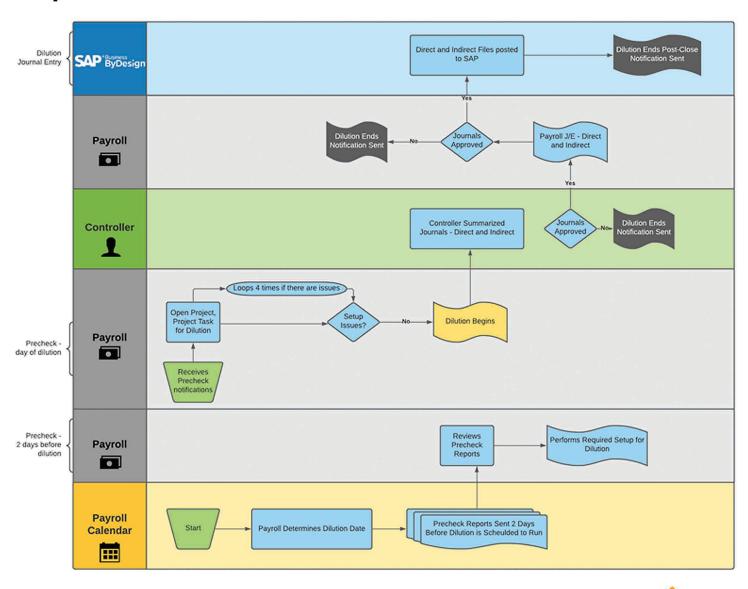


Accurately Calculate Labour Dilution

SAP Business ByDesign calculates labor dollars based on the employee's hourly rate, whether on salary or paid hourly. For exempt employees on salary who work more hours than a standard week, such as unpaid overtime, this tool calculates the diluted hourly rate for the week based on actual hours worked in accordance with cost accounting standards.

Labor dilution uses complex algorithms to post journal entries into the General Ledger for each pay period, to appropriately record labor dollars by project.

A Repeatable, Automated Workflow





Automated Data Consistency Checks for Accuracy

Payroll Calendar

The Payroll Calendar provides the exact Payroll Start and End dates, along with the Scheduled Dilution Dates for ease of visibility to upcoming critical dates. Dilution is commonly scheduled on a bi-weekly basis, but frequency can be adjusted based on the specific requirements controlled via SAP payroll calendar.

| Pay Period WeekA | Pay Period #A | Display Text | Pay Period Beginning | A | Pay Period Ending | Scheduled Dilution Date |
|------------------|---------------|-------------------------------------|-------------------------|---|-------------------|-------------------------|
| 1 | 1 | First Week of the Pay Period | 12/21/2020 | | 12/27/2020 | |
| 1 | 2 | Second Week of the Pay Period | 12/28/2020 | | 01/03/2021 | |
| 2 | 1 | First Week of the Pay Period | 01/04/2021 | | 01/10/2021 | 01/06/2021 |
| 2 | 2 | Second Week of the Pay Period | 01/11/2021 | | 01/17/2021 | an all a |
| 3 | 1 | Month End / First Week of the Pay P | 01/18/2021 | | 01/24/2021 | |
| 3 | 2 | Second Week of the Pay Period | 01/25/2021 | | 01/31/2021 | |
| 4 | 1 | First Week of the Pay Period | 02/01/2021 | | 02/07/2021 | 02/05/2021 |
| 4 | 2 | Second Week of the Pay Period | 02/08/2021 | | 02/14/2021 | |
| 5 | 1 | Month End / First Week of the Pay P | 02/15/2021 | | 02/21/2021 | 02/19/2021 |

Precheck Report

A Precheck Report is sent 2 days prior to the Scheduled Dilution date to allow Payroll Administrators to check the accuracy of all relevant data (including Projects, Project Tasks, Hours, etc.), update look-up tables, and any other appropriate setup needed prior to the labor being diluted.

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| | N employee | manager | School Sec. | 1/10/255 | 49/201 | 1 50 | 4 | 10 | 10 | 43 | 19 | - |
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| | 3 ampliques | manager | Scientists. | 5090969 | 65000 | 4 103 | 40 | - | 102 | .60 | 19 | |
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| | C employee | market | 30456 | 5/92/955 | 49003 | 1 100 | - 4 | 363 | 10 | 21.8 | 19 | |
| | I employee | manager | 30456 | MW2900 | 49303 | 11.40 | - 6 | 40.3 | 10 | 14 | 19 | |
| 100 | if employee | manager | 50x5x | 5/34/2006 | 44/363 | 6 105 | 46 | 36.7 | 10 | 16.8 | ra n | |
| 10 | (i employee) | menager | 50x50x | 509099 | 44000 | A 105 | 40 | 46.5 | 142 | 246 | FW: | |
| 100 | N employee | manager | 501.544 | Mindres. | 65000 | 3.50 | 40 | 36.5 | 160 | 46 | 79 | |
| 37 | 7 employee | menager | 304546 | 509090 | AWINE | 8,765 | AT. | ** | 100 | 46 | TV | |
| 38 | d employee | manager | 304546 | 5/92993 | 69/303 | 1.40 | 40 | 44.70 | 92 | 40.47 | TV. | |
| 19 | S employee | manager | SCH SK | 5/19/25/0 | 44/301 | 175 90 | 40 | 94.75 | 10 | 19 | 70 | , |
| | E employee | manager | 50+56. | 1/19/2009 | 44/303 | 4 NO | 46 | 38.3 | 10 | 29 | 12 | |
| .31 | il amplioyee | manager | SOH SIN. | 509269 | 44000 | 1 10 | | 100 | 10 | 85.3 | TQ. | |
| .83 | () employee | manager | SCHOOL ST | M04968 | 44000 | 63.90 | 40 | (m) | 162 | 64.6 | 19 | |
| 39 | () employee | manager | NOM SAL | 5014 950 | 44/303 | 4 100 | 40 | 544 | 667 | 49 | Pk. | |
| .34 | H AMPROVA | manager | 50456 | 5/4/905 | 44/303 | 4 705 | 40 | 46 | M | 40 | 195 | |
| .0 | D whylinyss | manager | 50456 | 5/9/200 | 49/303 | 24.90 | 40 | 413 | 100 | 10.0 | PE | |
| .39 | N engitiyee | manager | 30448 | 5/30/365 | 49/2013 | 1.90 | 40 | 40 | 50 | 46.3 | 15 | |

Day of Dilution

On the Scheduled Dilution date, a precheck notification is sent to the Payroll Administrator with any potential inconsistencies to investigate and resolve for the Dilution Run (see examples to the right).

This process can be set to run multiple times during the Scheduled Dilution Date to ensure any potential data inconsistencies can be resolved prior to the dilution run.

If all inconsistencies are resolved, Dilution will run at end of day. If issues persist, Dilution will run on the next scheduled run.

Sample Pre-check Notification

The completed required actions are listed below:

• If there are any projects listed, PMs will need to open these projects immediately for dilution purposes.

| Project ID | Project Name | Project Status | Project Manager | |
|------------|---------------|----------------|-----------------|--|
| PID1 | PID1 name | Completed | manager name | |
| PID2 | PID2 name | Stopped | manager name | |
| PID1-406 | PID1-406 name | Completed | manager name | |
| PID1-201 | PID1-201 name | Closed | manager name | |
| PID1-112 | PID1-112 name | Closed | manager name | |
| PID1-127 | PID1-127 Name | Closed | manager name | |

- If there are project types listed, please add them to the lookup table in SAP with the correct GL accounts for dilution.
- If employees are listed, please add them to the OT project table or change them for normal dilution.
- If projects are listed, then check the OT project flag as employees will require OT dilution.



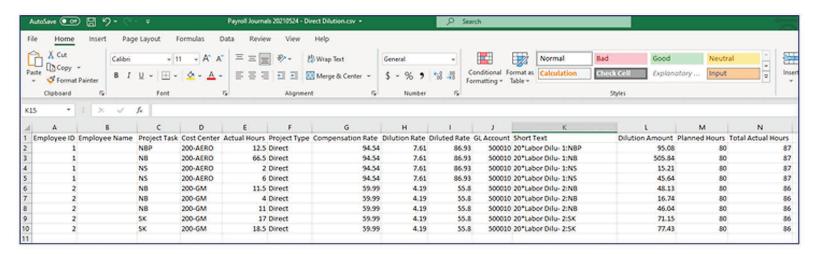
Simple Workflows Expedite Approvals and Dilution Process

Controller Workflow

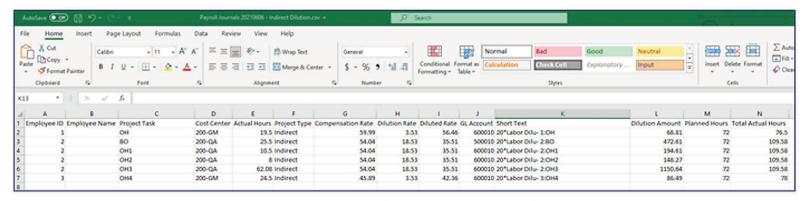
The Controller Workflow provides summarized payroll journals for both direct and indirect projects at the employee level to show actual hours per project task. This includes the compensation rate, dilution rate, GL account, dilution amount, etc.

Once the task is approved, the file automatically routes to payroll for processing.

If the file is rejected due to incorrect cost, incorrect GL account, or if the project is overdiluted, a notification is sent to the Controller and Payroll Administrator and the dilution automatically stops.



Summarized view of employees that require dilution for direct projects



Summarized view of employees that require dilution for indirect projects

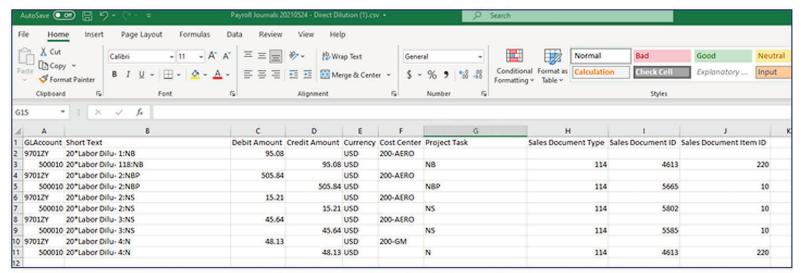


Payroll Workflow

The Payroll Workflow provides detailed payroll journals for both direct and indirect projects at the employee level to show debit and credit lines. This workflow includes the GL account, short text, debit amount, credit amount, cost center, project task, and indirect/direct projects -- such as the sales document type, sales document ID, and sales document item ID.

Once the task is approved, payroll posts the file and sends a post-close notification. The payroll journal is added as an attachment within SAP Business ByDesign, a post close notification is included with the SAP J/E number, and a message is automatically sent to the Payroll Administrator to close any project or project tasks that were open for dilution.

If this task is rejected due to incorrect cost, incorrect GL account, or if the project is overdiluted, a notification will be sent to the Payroll Administrator and dilution will stop. The Payroll Administrator can then update the Scheduled Dilution Date in the payroll calendar and the whole process will repeat itself.



Direct payroll journal provides a detailed view of each employee (Credit and debit lines, GL account name, cost center, project task, sales order information)

| 4 | A | В | C | D | E | F | G |
|----|-----------|----------------------|--------------|---------------|----------|-------------|--------------|
| 1 | GLAccount | Short Text | Debit Amount | Credit Amount | Currency | Cost Center | Project Task |
| 2 | 9704ZY | 20*Labor Dilu- 1:GA | 44.9 | | USD | 200-ERP | |
| 3 | 700010 | 20*Labor Dilu- 1:GA | | 44.9 | USD | | GA |
| 4 | 9701ZY | 20*Labor Dilu- 2:BO | 1220.24 | | USD | 200-AERO | |
| 5 | 500010 | 20*Labor Dilu- 2:BO | | 1220.24 | USD | | BO |
| 6 | 9702ZY | 20*Labor Dilu- 3:OH | 164.07 | | USD | 200-SCP | |
| 7 | 600010 | 20*Labor Dilu- 3:OH | | 164.07 | USD | | ОН |
| 8 | 9702ZY | 20*Labor Dilu- 4:OH1 | 627.59 | | USD | 200-FAC | |
| 9 | 600010 | 20*Labor Dilu- 4:OH1 | | 627.59 | USD | | OH1 |
| 10 | 9702ZY | 20*Labor Dilu- 5:OH2 | 100.45 | | USD | 200-GM | |
| 11 | 600010 | 20*Labor Dilu- 5:OH2 | | 100.45 | USD | | OH2 |
| 12 | 9702ZY | 20*Labor Dilu- 5:OH2 | 73.8 | | USD | 200-GM | |
| 13 | 600010 | 20*Labor Dilu- 5:OH2 | | 73.8 | USD | | OH2 |

Indirect payroll journal provides a detailed view of each employee (Credit and debit lines, GL account name, cost center, project task)



Post Close Notification

The post close notification provides an email that is automatically sent through the system to show that the posting to SAP was successful. Each posting includes an ID number (1xxx). It also reminds the user about any projects that are opened during the pre-check workflow, and flags those that would need to be closed again.

Normal Dilution - Process Complete From: 05/10/2021 To 05/23/2021 - Direct



Normal Labor dilution has completed. Please review the summary below.

The document number in SAP is 1xxx

Please close the projects listed below once OT dilution has completed.

| Project ID | Project Name | Project Status | Project Manager |
|------------|--------------|----------------|-----------------|
| BP | Pname | Released | ManagerName |

The following project tasks were closed after dilution:

Please close the project tasks listed below once OT dilution has completed:

The following dummy sales order were closed after dilution: Sales Order ID, Project ID (parent task)

| Sales Order ID | Project ID |
|----------------|------------|
| 1234 | PID23 |
| 1223 | PID25 |
| 1236 | PID26 |
| 1271 | PID30 |