

Generate Load and Report Data Using Custom Payroll Flow Pattern  
By: Ashish Harbhajanka

### Introduction

Some of us might be aware of the various different ways to loading data into Oracle HCM Cloud which are:

- 1) HCM Data Loader
- 2) HCM Spreadsheet Data Loader
- 3) Via Web Service Call (Webservice / REST)
- 4) Data Entry from UI

And also “**Inbound Interface HCM Extract**”.

**Inbound Interface HCM Extract** which is also sometime referred as **Loopback Interface** is a process where Data is generated by “HCM Extracts” and after making some modification on the generated data (applying transformation / business logic on eText Template) is loaded back into the application (and all this with mere submission of the “HCM Extracts”).

So far so good but many a times one would like to have data generated via other data source (say BIP , OTBI etc) and still intend to load data into application back. For such scenarios we can use this method which I am going to refer from now on as “**Generate and Load Data**”.

“**Generate and Load Data**” sounds similar to “**Import and Load Data**” and yes it is a little bit and that is why I have try to give such a name, but before proceeding further I would explain what is meant by “**Generate and Load Data**”.

### Generate Load and Report Data

No, this is not a delivered task/flow in the Oracle HCM Cloud Application (at least not till Release 13 20B) but is being referred to a custom payroll flow pattern which will comprise of the following flow-tasks:

- 1) Generate Data
- 2) Generate HCM Data Loader File
- 3) Initiate HCM Data Loader
- 4) Trigger HDL Error Report

### Generate Data

Generate Data is a custom payroll task (after renaming “Run BI Publisher Report”). This particular task runs a BIP Report which generates a TXT file and loads the same into Web Center Content (UCM Server) by using Bursting Option.

### Generate HCM Data Loader File

This flow task is a sub-task of “Load Data From File” which takes Content ID (yes the file must be available in UCM) , Transformation Formula (Fast Formula of **HCM Data Loader** Type) and Process Configuration Group (required to submit any process flow) and generates a new File and places the same in the UCM Server

### Initiate Data Loader

This flow task is also a sub-task of “Load Data From File” which take the output generated by “Generate HCM Data Loader File” and then initiates the Data Loader process

### Trigger HDL Error Report

Generate Data is a custom payroll task (after renaming “Run BI Publisher Report”). This particular task runs a HDL Error Report (BIP Report which generates a XLSX file).

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So this is a brief description about the various tasks which would be used while creating the Custom Payroll Flow Task namely “Generate and Load Data”.

We would need to perform below steps prior to creating “Generate and Load Data”

- 1) Create BIP Report which will generate TXT File and place the same in UCM Server using BIP Bursting
- 2) Create a “HCM Data Loader” type Fast Formula.

So, without further ado let’s get started.

#### Creating BIP Report

For this example we will create a simple BIP report which will generate the data fields required for PersonAccrualDetail Business Object.

Details about the data fields is as below

| Attribute Name    | Attribute Value                                                                                                                        | Meaning                                                                |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| AccrualType       | ‘ADJOTH’                                                                                                                               | Choose any of the available Accrual Type                               |
| AdjustmentReason  | ‘SICK_ADJ’                                                                                                                             | Custom Lookup Code defined ANC_ABS_PLAN_OTHER_REASONS Lookup           |
| PersonNumber      | PER_ALL_PEOPLE_F.PERSON_NUMBER                                                                                                         | Person Number                                                          |
| PlanName          | ANC_ABSENCE_PLANS_F.TL.NAME                                                                                                            | Absence Plan Name on which adjustment entry will be added              |
| Value             | 5                                                                                                                                      | Value to be Adjusted (7 for this example)                              |
| WorkTermsNumber   | PER_ALL_ASSIGNMENTS_M.ASSIGNMENT_NUMBER                                                                                                | Assignment Number of the Employment Terms Record from Assignment Table |
| ProcdDate         | SYSDATE                                                                                                                                | Date on which adjustment is to be made. Sysdate for this example       |
| SourceSystemOwner | HRC_LEGACY                                                                                                                             | Custom Lookup Code defined in HRC_SOURCE_SYSTEM_OWNER Lookup           |
| SourceSystemId    | PER_ALL_PEOPLE_F.PERSON_NUMBER    '_'    upper(ANC_ABSENCE_PLANS_F.TL.NAME)    '_'    'SICK_ADJ'    '_'    TO_CHAR(SYSDATE,'YYYYMMDD') | Unique ID required for HDL Load                                        |

We would need to create a Data Model which will have 2 Data Sets and 1 Bursting Query

#### FlowTask\_ds

This is the master data set (primarily used to associate the BIP Report run with the Payroll Flow task we are going to generate in later part). This data set returns the PAY\_REQUEST CALL\_ID which is

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used to allow the BIP report to Burst to a single file. In addition, the CALL\_ID is used to uniquely identify the BIP report once it is uploaded to UCM.

**SQL for FlowTask\_ds**

```
select r.call_id
from pay_flow_task_instances fti,
pay_flow_tasks_vl ft
,pay_requests r
where ft.flow_task_name = 'Generate Data'
and ft.base_flow_task_id = fti.base_flow_task_id
and fti.flow_task_instance_id = r.flow_task_instance_id
and r.call_type= 'ESS'
and fti.flow_task_instance_id = :TASK_INSTANCE_ID
union
select 1234
from dual
where :TASK_INSTANCE_ID is null
```

[GenerateData\\_ds](#)

This is the data set which would generate the data which will be used for Data Load. For this example it would fetch the Adjustment Details which would be loaded to a specific plan

**SQL for Generate\_ds**

```
select 'ADJOTH' ACCRUALTYPE,
       'SICK_ADJ' ADJUSTMENTREASON,
       papf.person_number PERSONNUMBER,
       aapft.name PLANNAME,
       7 VALUE,
       (select distinct paam1.assignment_number
        from per_all_assignments_m paam1
        where paam1.assignment_type = 'ET'
        and paam1.primary_flag = 'N'
        and trunc(ppos.date_start) between paam1.effective_start_date and
paam1.effective_end_date
        and paam1.period_of_service_id = ppos.period_of_service_id
        and paam1.person_id = papf.person_id
        and rownum = 1
       ) WORKTERMSNUMBER,
       to_char(SYSDATE,'YYYY/MM/DD') PROCDDATE,
       'HRC_LEGACY' SOURCESYSTEMOWNER,
       papf.person_number || '_' || upper(aapft.name) || '_' || 'SICK_ADJ' || '_' ||
TO_CHAR(SYSDATE,'YYYYMMDD') SOURCESYSTEMID
from per_all_people_f papf,
per_periods_of_service ppos,
anc_absence_plans_f_tl aapft,
per_all_assignments_m paam,
anc_per_plan_enrollment appe
where papf.person_id = paam.person_id
and papf.person_id = ppos.person_id
and ppos.period_of_service_id = paam.period_of_service_id
and appe.prd_of_svc_id = paam.period_of_service_id
and papf.person_id = appe.person_id
AND appe.plan_id = aapft.absence_plan_id
```

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```
AND paam.primary_flag = 'Y'
AND paam.assignment_type IN ('E', 'C', 'N', 'P')
AND aapft.language = 'US'
and aapft.name = 'Sick'
and trunc(ppos.date_start) between papf.effective_start_date and papf.effective_end_date
and trunc(ppos.date_start) between paam.effective_start_date and paam.effective_end_date
and trunc(ppos.date_start) between aapft.effective_start_date and aapft.effective_end_date
and not exists
(
select 1
from   anc_per_acrl_entry_dtls apaed,
       anc_absence_plans_f_tl aapft
where  apaed.type = 'ADJOTH'
and    apaed.adjustment_reason = 'SICK_ADJ'
and    apaed.pl_id = aapft.absence_plan_id
and    aapft.language = 'US'
and    aapft.name = 'Sick'
and    apaed.person_id = papf.person_id
)
```

#### BurstToUCM

The bursting query will result in a file being sent to UCM. The CONTENT\_ID of the file will be of the form:

'PersonAccrualDetail'||to\_char(CALL\_ID) where CALL\_ID is unique to the specific instance of the process.

The Title of the file in UCM will be of the form: 'PersonAccrualDetail'||to\_char(CALL\_ID)

#### SQL Query for BurstToUCM

```
select to_char(call_id) as "KEY",
'PersonAccrualDetail' TEMPLATE,
'en-US' LOCALE,
'TEXT' OUTPUT_FORMAT,
'WCC' DEL_CHANNEL,
'FA_UCM_PROVISIONED' PARAMETER1,
/* Server Name */
'FAFusionImportExport' PARAMETER2,
/* Security Group */
:xdo_user_name PARAMETER3,
/* Author of the File */
'PersonAccrualDetail'||to_char(call_id) PARAMETER5,          /* Title */
'PersonAccrualDetail.dat' PARAMETER6,          /* Output File Name */
:TASK_INSTANCE_ID PARAMETER7,          /* Comments (Optional) */
'PersonAccrualDetail'||to_char(call_id) PARAMETER8,          /* Content ID
(Optional) If you specify the ID, it must be unique. If you don't specify the ID, the system generates
a unique one. */
'FALSE' PARAMETER9
/* Custom metadata (true/false). Specify 'false'. */

from
(
select r.call_id
from pay_flow_task_instances fti
```

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```
,pay_flow_tasks_vl ft
,pay_requests r
where ft.flow_task_name = 'Generate Data'
and ft.base_flow_task_id = fti.base_flow_task_id
and fti.flow_task_instance_id = r.flow_task_instance_id
and r.call_type= 'ESS'
and fti.flow_task_instance_id = :TASK_INSTANCE_ID
union
select 1234
from dual
where :TASK_INSTANCE_ID is null
)
```

### [BIP Report EText Template](#)

We would need to have a EText Template attached to the Report such that it gives data in pipe delimited way. The EText used in this example looks as below:

[Initial Adjustment Person Accrual Detail - Template

Format Setup:

|                        |                 |
|------------------------|-----------------|
| <TEMPLATE TYPE>        | DELIMITER BASED |
| <OUTPUT CHARACTER SET> | ASCII           |
| <NEW RECORD CHARACTER> | Carriage Return |

Format Data Records:

|         |     |
|---------|-----|
| <LEVEL> | G_2 |
|---------|-----|

|                     |                            |                   |       |                          |
|---------------------|----------------------------|-------------------|-------|--------------------------|
| <NEW RECORD>        | DISCRETIONARY DISBURSEMENT |                   |       |                          |
| <DISPLAY CONDITION> | 1=1                        |                   |       |                          |
| <MAXIMUM LENGTH>    | <FORMAT>                   | <DATA>            | <TAG> | <COMMENTS>               |
| 100                 | Alpha                      | ACCRUALTYPE       |       | <u>AccrualType</u>       |
| 1                   | Alpha                      | ' '               |       |                          |
| 100                 | Alpha                      | ADJUSTMENTREASON  |       | <u>AdjustmentReason</u>  |
| 1                   | Alpha                      | ' '               |       |                          |
| 100                 | Alpha                      | PERSONNUMBER      |       | <u>PersonNumber</u>      |
| 1                   | Alpha                      | ' '               |       |                          |
| 100                 | Alpha                      | PLANNAME          |       | <u>PlanName</u>          |
| 1                   | Alpha                      | ' '               |       |                          |
| 100                 | Alpha                      | VALUE             |       | <u>Value</u>             |
| 1                   | Alpha                      | ' '               |       |                          |
| 100                 | Alpha                      | WORKTERMSNUMBER   |       | <u>WorkTermsNumber</u>   |
| 1                   | Alpha                      | ' '               |       |                          |
| 100                 | Date, YYYY/MM/DD           | PROCDDATE         |       | <u>ProcddDate</u>        |
| 1                   | Alpha                      | ' '               |       |                          |
| 100                 | Alpha                      | SOURCESYSTEMOWNER |       | <u>SourceSystemOwner</u> |
| 1                   | Alpha                      | ' '               |       |                          |
| 100                 | Alpha                      | SOURCESYSTEMID    |       | <u>SourceSystemId</u>    |

|             |     |
|-------------|-----|
| <END LEVEL> | G_2 |
|-------------|-----|

And once we upload the template and try to run the report data should appear as below:

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### GenerateData

Task Instance Id

Apply

**PersonAccrualDetail**

|        |          |     |      |   |       |            |            |                            |
|--------|----------|-----|------|---|-------|------------|------------|----------------------------|
| ADJOTH | SICK_ADJ | 661 | Sick | 5 | ET661 | 2020/07/30 | HRC_LEGACY | 661_SICK_SICK_ADJ_20200730 |
| ADJOTH | SICK_ADJ | 305 | Sick | 5 | ET305 | 2020/07/30 | HRC_LEGACY | 305_SICK_SICK_ADJ_20200730 |
| ADJOTH | SICK_ADJ | 306 | Sick | 5 | ET306 | 2020/07/30 | HRC_LEGACY | 306_SICK_SICK_ADJ_20200730 |
| ADJOTH | SICK_ADJ | 307 | Sick | 5 | ET307 | 2020/07/30 | HRC_LEGACY | 307_SICK_SICK_ADJ_20200730 |
| ADJOTH | SICK_ADJ | 308 | Sick | 5 | ET308 | 2020/07/30 | HRC_LEGACY | 308_SICK_SICK_ADJ_20200730 |
| ADJOTH | SICK_ADJ | 309 | Sick | 5 | ET309 | 2020/07/30 | HRC_LEGACY | 309_SICK_SICK_ADJ_20200730 |
| ADJOTH | SICK_ADJ | 310 | Sick | 5 | ET310 | 2020/07/30 | HRC_LEGACY | 310_SICK_SICK_ADJ_20200730 |
| ADJOTH | SICK_ADJ | 311 | Sick | 5 | ET311 | 2020/07/30 | HRC_LEGACY | 311_SICK_SICK_ADJ_20200730 |
| ADJOTH | SICK_ADJ | 312 | Sick | 5 | ET312 | 2020/07/30 | HRC_LEGACY | 312_SICK_SICK_ADJ_20200730 |
| ADJOTH | SICK_ADJ | 538 | Sick | 5 | ET538 | 2020/07/30 | HRC_LEGACY | 538_SICK_SICK_ADJ_20200730 |
| ADJOTH | SICK_ADJ | 539 | Sick | 5 | ET539 | 2020/07/30 | HRC_LEGACY | 539_SICK_SICK_ADJ_20200730 |
| ADJOTH | SICK_ADJ | 540 | Sick | 5 | ET540 | 2020/07/30 | HRC_LEGACY | 540_SICK_SICK_ADJ_20200730 |
| ADJOTH | SICK_ADJ | 541 | Sick | 5 | ET541 | 2020/07/30 | HRC_LEGACY | 541_SICK_SICK_ADJ_20200730 |
| ADJOTH | SICK_ADJ | 542 | Sick | 5 | ET542 | 2020/07/30 | HRC_LEGACY | 542_SICK_SICK_ADJ_20200730 |
| ADJOTH | SICK_ADJ | 543 | Sick | 5 | ET543 | 2020/07/30 | HRC_LEGACY | 543_SICK_SICK_ADJ_20200730 |
| ADJOTH | SICK_ADJ | 573 | Sick | 5 | ET573 | 2020/07/30 | HRC_LEGACY | 573_SICK_SICK_ADJ_20200730 |
| ADJOTH | SICK_ADJ | 494 | Sick | 5 | ET494 | 2020/07/30 | HRC_LEGACY | 494_SICK_SICK_ADJ_20200730 |
| ADJOTH | SICK_ADJ | 576 | Sick | 5 | ET576 | 2020/07/30 | HRC_LEGACY | 576_SICK_SICK_ADJ_20200730 |
| ADJOTH | SICK_ADJ | 578 | Sick | 5 | ET578 | 2020/07/30 | HRC_LEGACY | 578_SICK_SICK_ADJ_20200730 |
| ADJOTH | SICK_ADJ | 618 | Sick | 5 | ET618 | 2020/07/30 | HRC_LEGACY | 618_SICK_SICK_ADJ_20200730 |
| ADJOTH | SICK_ADJ | 647 | Sick | 5 | ET647 | 2020/07/30 | HRC_LEGACY | 647_SICK_SICK_ADJ_20200730 |
| ADJOTH | SICK_ADJ | 648 | Sick | 5 | ET648 | 2020/07/30 | HRC_LEGACY | 648_SICK_SICK_ADJ_20200730 |
| ADJOTH | SICK_ADJ | 649 | Sick | 5 | ET649 | 2020/07/30 | HRC_LEGACY | 649_SICK_SICK_ADJ_20200730 |
| ADJOTH | SICK_ADJ | 650 | Sick | 5 | ET650 | 2020/07/30 | HRC_LEGACY | 650_SICK_SICK_ADJ_20200730 |
| ADJOTH | SICK_ADJ | 652 | Sick | 5 | ET652 | 2020/07/30 | HRC_LEGACY | 652_SICK_SICK_ADJ_20200730 |
| ADJOTH | SICK_ADJ | 653 | Sick | 5 | ET653 | 2020/07/30 | HRC_LEGACY | 653_SICK_SICK_ADJ_20200730 |
| ADJOTH | SICK_ADJ | 654 | Sick | 5 | ET654 | 2020/07/30 | HRC_LEGACY | 654_SICK_SICK_ADJ_20200730 |
| ADJOTH | SICK_ADJ | 655 | Sick | 5 | ET655 | 2020/07/30 | HRC_LEGACY | 655_SICK_SICK_ADJ_20200730 |
| ADJOTH | SICK_ADJ | 656 | Sick | 5 | ET656 | 2020/07/30 | HRC_LEGACY | 656_SICK_SICK_ADJ_20200730 |
| ADJOTH | SICK_ADJ | 657 | Sick | 5 | ET657 | 2020/07/30 | HRC_LEGACY | 657_SICK_SICK_ADJ_20200730 |

Next, we will need to create a Fast Formula of “HCM Data Loader” Type.

#### Create Transformation Formula of HCM Data Loader Type

As a next step we would need to create a Fast Formula which will take the above file and convert it in into corresponding HDL File. (GENERATE\_PERSONACCRUALENTY\_HDL\_FROM\_TXT)

| Fast Formula (GENERATE_PERSONACCRUALENTY_HDL_FROM_TXT ) Text                                                                                                                                                                                                          |      |            |          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------|----------|
| <pre> /***** * * FORMULA NAME: GENERATE_PERSONACCRUALENTY_HDL_FROM_TXT * FORMULA TYPE: HCM Data Loader * DESCRIPTION: This formula will create PersonAccrualDetail HDL File from TXT File * CHANGE HISTORY: *****/ </pre>                                             |      |            |          |
| Version                                                                                                                                                                                                                                                               | Date | Created By | Comments |
| <div style="display: flex; justify-content: space-between;"> <span>1.0</span> <span>14-Jul-2020</span> <span>Ashish Harbhajanka</span> <span>Initial Version</span> </div>                                                                                            |      |            |          |
| <pre> *****/ /* Inputs */ INPUTS ARE OPERATION (text), LINENO (number), LINEREPEATNO (number),POSITION1 (text), POSITION2 (text), POSITION3 (text), POSITION4 (text), POSITION5 (text), POSITION6 (text), POSITION7 (text), POSITION8 (text), POSITION9 (text) </pre> |      |            |          |



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```
DEFAULT FOR POSITION1 IS 'NO DATA'
DEFAULT FOR POSITION2 IS 'NO DATA'
DEFAULT FOR POSITION3 IS 'NO DATA'
DEFAULT FOR POSITION4 IS 'NO DATA'
DEFAULT FOR POSITION5 IS 'NO DATA'
DEFAULT FOR POSITION6 IS 'NO DATA'
DEFAULT FOR POSITION7 IS 'NO DATA'
DEFAULT FOR POSITION8 IS 'NO DATA'
DEFAULT FOR POSITION9 IS 'NO DATA'
DEFAULT FOR LINEREPEATNO IS 1

IF OPERATION='FILETYPE' THEN
  OUTPUTVALUE='DELIMITED'
ELSE IF OPERATION='DELIMITER' THEN
  OUTPUTVALUE='|'
ELSE IF OPERATION='READ' THEN
  OUTPUTVALUE='NONE'
ELSE IF OPERATION = 'NUMBEROFBUSINESSOBJECTS' THEN
  (
    OUTPUTVALUE = '1'
    RETURN OUTPUTVALUE
  )
ELSE IF OPERATION = 'METADATALINEINFORMATION' THEN
  (
    METADATA1[1] = 'PersonAccrualDetail' /*FileName*/ /*Reserved*/
    METADATA1[2] = 'PersonAccrualDetail' /*FileDiscriminator*/ /*Reserved*/
    METADATA1[3] = 'AccrualType'
    METADATA1[4] = 'AdjustmentReason'
    METADATA1[5] = 'PersonNumber'
    METADATA1[6] = 'PlanName'
    METADATA1[7] = 'Value'
    METADATA1[8] = 'WorkTermsNumber'
    METADATA1[9] = 'ProcdDate'
    METADATA1[10] = 'SourceSystemOwner'
    METADATA1[11] = 'SourceSystemId'

    RETURN METADATA1
  )
ELSE IF OPERATION='MAP' THEN
  /*HDL Related Outputs*/
  (
    IF LINEREPEATNO = 1 THEN
      (
        LINEREPEAT = 'Y'
        FileName = 'PersonAccrualDetail'
        BusinessOperation = 'MERGE'
        FileDiscriminator = 'PersonAccrualDetail'
        AccrualType = trim(POSITION1)
        AdjustmentReason = trim(POSITION2)
        PersonNumber = trim(POSITION3)
        PlanName = trim(POSITION4)
        Value = trim(POSITION5)
```

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```
WorkTermsNumber = trim(POSITION6)
ProcdDate = trim(POSITION7)
SourceSystemOwner = trim(POSITION8)
SourceSystemId = trim(POSITION9)

RETURN

BusinessOperation,FileName,FileDiscriminator,AccrualType,AdjustmentReason,PersonNumber,PlanName,Value,WorkTermsNumber,ProcdDate,SourceSystemOwner,SourceSystemId,LINEREPEAT,LINEREPEATNO
)
)
)

ELSE
  OUTPUTVALUE='NONE'
RETURN OUTPUTVALUE
/* End Formula Text */
```

Create Fast Formula: GENERATE\_PERSONACCRUALENTY\_HDL\_FROM\_TXT

Compile Refresh Done

Formula Name: GENERATE\_PERSONACCRUALENTY\_HDL\_FROM\_TXT  
Type: HCM Data Loader  
Effective As-of Date: 1/1/51

Formula Overview  
Formula Details

Formula Name  
Effective Start Date: 1/1/51  
Effective End Date

Description: This formula will create PersonAccrualDetail HDL File from TXT File  
Compile Status:

Formula Details

Formula Text

```
1 /******
2 * FORMULA NAME: GENERATE_PERSONACCRUALENTY_HDL_FROM_TXT
3 * FORMULA TYPE: HCM Data Loader
4 * DESCRIPTION: This formula will create PersonAccrualDetail HDL File from TXT File
5 * CHANGE HISTORY:
6 *****
7 Version      Date      Created By      Comments
8 -----
9 1.0          14-Jul-2020 Ashish Harbhajanka Initial Version
10 *****
11 /* Inputs */
12 INPUTS ARE OPERATION (text), LINENO (number), LINEREPEATNO (number), POSITION1 (text), POSITION2 (text), POSITION3 (text),
13 POSITION5 (text), POSITION6 (text), POSITION7 (text), POSITION8 (text), POSITION9 (text)
14
15 DEFAULT FOR POSITION1 IS 'NO DATA'
16 DEFAULT FOR POSITION2 IS 'NO DATA'
17 DEFAULT FOR POSITION3 IS 'NO DATA'
18 DEFAULT FOR POSITION4 IS 'NO DATA'
19 DEFAULT FOR POSITION5 IS 'NO DATA'
20 DEFAULT FOR POSITION6 IS 'NO DATA'
21 DEFAULT FOR POSITION7 IS 'NO DATA'
22 DEFAULT FOR POSITION8 IS 'NO DATA'
23 DEFAULT FOR POSITION9 IS 'NO DATA'
```

Database Items

Database Items

Search Database Item Name

Database Items

View Add to Formula Detach

| Database Item Name  | Data Type | Description |
|---------------------|-----------|-------------|
| No data to display. |           |             |

Now we will start configuring the Custom Payroll Flow Pattern named “Generate and Load Data”

[Creating Custom Payroll Flow Pattern “Generate Load and Report Data”](#)

Navigation -> **My Client Groups -> Payroll ->(Administration) Payroll Flow Patterns -> Copy (Load Data from File)**

Once we copy the flow from “Load Data From File” we should give a new name to the custom flow (“Generate Load and Report Data”) and once done we should add a new task name “Run BI Publisher Report” and rename to “Generate Data” as shown



## Generate Load and Report Data Using Custom Payroll Flow Pattern

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Payroll Flow Patterns
Edit

**Flow Pattern** Generate, Load and Report Data

**Description** Custom Payroll Flow Pattern to Generate, Load and Report on HDL Errors

**LDG Required** Optional

**Flow Status** Active

**Connector Status** Task Flow

**Connector Name** Generate, Load and Report Data | GENERATE, LOAD AND REPORT DATA

Tasks Task Sequence Parameters Connected Flows Review

Actions View » »

| Flow Task                 | Activity     | Task Group | Task                    | Secure Process or Report | Process After Error                 | Go to Task         |
|---------------------------|--------------|------------|-------------------------|--------------------------|-------------------------------------|--------------------|
| Generate Data             | Statutory    | Reporting  | Run BI Publisher Report | <input type="checkbox"/> | <input type="checkbox"/>            | <a href="#">Go</a> |
| Generate Data Loader File | Preparations | Batch Load | Load Batch from File    | <input type="checkbox"/> | <input type="checkbox"/>            | <a href="#">Go</a> |
| Initiate Data Loader      | Preparations | Batch Load | Initiate Data Loader    | <input type="checkbox"/> | <input type="checkbox"/>            | <a href="#">Go</a> |
| Trigger HDL Error Report  | Statutory    | Reporting  | Run BI Publisher Report | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <a href="#">Go</a> |

We will now need to set/edit the properties of “Generate Data” Task (once you click on the “Go To Task” you would be taken to the parameters page. The details of the parameters are mentioned below

| Name                   | Parameter Basis | Basis Value                               |
|------------------------|-----------------|-------------------------------------------|
| First Argument         | Context Binding | Payroll Task                              |
| Legislative Data Group | Context Binding | Legislative data group                    |
| Report Name            | Constant Bind   | PersonAccrualDetail                       |
| Report Path            | Constant Bind   | /Custom/Practice Samples/GenerateData.xdo |

\*Note: Report Name is the name of the Template used in Report

Generate Data Task Details: Basic Information

Back Next Submit Cancel

Basic Information

Actions View » » »

| Name                   | Execution Mode | Data Type | Parameter Basis | Basis Value                  | Usage           |
|------------------------|----------------|-----------|-----------------|------------------------------|-----------------|
| Eighth Argument        | Submit         | Text      |                 |                              | Input parameter |
| Fifth Argument         | Submit         | Text      |                 |                              | Input parameter |
| First Argument         | Submit         | Text      | Context Binding | Payroll task                 | Input parameter |
| Fourth Argument        | Submit         | Text      |                 |                              | Input parameter |
| Legislative Data Group | Submit         | Text      | Context Binding | Legislative data group       | Input parameter |
| Nineth Argument        | Submit         | Text      |                 |                              | Input parameter |
| Report Name            | Submit         | Text      | Constant Bind   | PersonAccrualDetail          | Input parameter |
| Report Path            | Submit         | Text      | Constant Bind   | /Custom/Practice Samples/Gen | Input parameter |
| Second Argument        | Submit         | Text      |                 |                              | Input parameter |
| Seventh Argument       | Submit         | Text      |                 |                              | Input parameter |

Nest we would be required to change the Parameter properties of “Content ID” parameter of “Generate Data Loader File” Task

| Old Value  |                 |                                                                                                                                                                                                                                                                            |
|------------|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name       | Parameter Basis | Value                                                                                                                                                                                                                                                                      |
| Content Id | Bind To Flow    | Content Id                                                                                                                                                                                                                                                                 |
| New Value  |                 |                                                                                                                                                                                                                                                                            |
| Name       | Parameter Basis | Value                                                                                                                                                                                                                                                                      |
| Content Id | Post SQL Bind   | select 'PersonAccrualDetail'  to_char(CALL_ID) from pay_flow_task_instances fti,pay_flow_tasks_vl ft,pay_requests r where ft.flow_task_name = 'Generate Data' and ft.base_flow_task_id = fti.base_flow_task_id and fti.flow_task_instance_id = r.flow_task_instance_id and |

## Generate Load and Report Data Using Custom Payroll Flow Pattern

By: Ashish Harbhajanka

|  |  |                                                                |
|--|--|----------------------------------------------------------------|
|  |  | r.call_type= 'ESS' and fti.flow_instance_id = :pFlowInstanceId |
|--|--|----------------------------------------------------------------|

| Generate Data Loader File Task Details: Basic Information |                |           |                   |                                   |                  |
|-----------------------------------------------------------|----------------|-----------|-------------------|-----------------------------------|------------------|
| Basic Information                                         |                |           |                   |                                   |                  |
| Actions View Detach                                       |                |           |                   |                                   |                  |
| Name                                                      | Execution Mode | Data Type | Parameter Basis   | Basis Value                       | Usage            |
| Batch                                                     | Submit         | Long      | Bind To Flow      |                                   | Input parameter  |
| Batch Name                                                | Submit         | Text      | Bind To Flow      |                                   | Input parameter  |
| Content Id                                                | Submit         | Text      | Post SQL Bind     | select 'PersonAccrualDetail'   to | Input parameter  |
| Formula Type                                              | Submit         | Text      | Bind To Flow      | Formula Type                      | Input parameter  |
| HDL Content Id                                            | Submit         | Text      | Bind To Flow Task |                                   | Output parameter |
| Legislative Data Group                                    | Submit         | Long      | Context Binding   | Legislative data group            | Input parameter  |
| Loader Mode                                               | Submit         | Text      | Constant Bind     | ORA_HDL                           | Input parameter  |
| Process Configuration Group                               | Submit         | Text      | Bind To Flow      | Process Configuration Group       | Input parameter  |
| Transformation Formula                                    | Submit         | Long      | Bind To Flow      | Transformation Formula            | Input parameter  |

Now, we should arrange the Task Sequence as show in below image:

| Payroll Flow Patterns                                 |                                                                        | Edit                                                                           |
|-------------------------------------------------------|------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| Flow Pattern                                          | Generate, Load and Report Data                                         | Flow Status Active                                                             |
| Description                                           | Custom Payroll Flow Pattern to Generate, Load and Report on HDL Errors | Connector Status Task Flow                                                     |
| LDG Required                                          | Optional                                                               | Connector Name Generate, Load and Report Data   GENERATE, LOAD AND REPORT DATA |
| Tasks Task Sequence Parameters Connected Flows Review |                                                                        |                                                                                |
| Actions View                                          |                                                                        |                                                                                |
| Task                                                  | Following Task                                                         |                                                                                |
| Start Task                                            | Generate Data                                                          |                                                                                |
| Generate Data                                         | Generate Data Loader File                                              |                                                                                |
| Generate Data Loader File                             | Initiate Data Loader                                                   |                                                                                |
| Initiate Data Loader                                  | Trigger HDL Error Report                                               |                                                                                |
| Trigger HDL Error Report                              | End Task                                                               |                                                                                |

We will also need to change the properties of “Content Id” parameter of payroll flow

| Old Value       |           |                 |                                                                                                                                                                                                                                        |
|-----------------|-----------|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| *Flow Parameter | Display   | Parameter Basis | Basis Value                                                                                                                                                                                                                            |
| Content Id      | Mandatory |                 |                                                                                                                                                                                                                                        |
| New Value       |           |                 |                                                                                                                                                                                                                                        |
| *Flow Parameter | Display   | Parameter Basis | Basis Value                                                                                                                                                                                                                            |
| Content Id      | No        | Post SQL Bind   | select 'PersonAccrualDetail'   to_char(r.call_id)<br>from pay_flow_task_instances fti,<br><br>pay_flow_tasks_vl ft,<br>pay_requests r<br>where ft.flow_task_name = 'Generate Data'<br>and ft.base_flow_task_id = fti.base_flow_task_id |

## Generate Load and Report Data Using Custom Payroll Flow Pattern

By: Ashish Harbhajanka

|  |  |  |                                                                                                                                        |
|--|--|--|----------------------------------------------------------------------------------------------------------------------------------------|
|  |  |  | and fti.flow_task_instance_id =<br>r.flow_task_instance_id<br>and r.call_type= 'ESS'<br>and fti.flow_instance_id =<br>:pFlowInstanceId |
|--|--|--|----------------------------------------------------------------------------------------------------------------------------------------|

← Payroll Flow Patterns

Flow Pattern: Generate, Load and Report Data

Description: Custom Payroll Flow Pattern to Generate, Load and Report Data

\*LDG Required: Optional

\*Flow Status: Active

\*Connector Status: Task Flow

Connector Name: Generate, Load and Report

Tasks Task Sequence **Parameters** Connected Flows Review

Actions View + - [Icons]

| *Flow Parameter             | BaseFlowParameterName       | *Display | *Display Format | Lookup                  | Sequence | Parameter Basis | Basis Value        | Key Parameter |
|-----------------------------|-----------------------------|----------|-----------------|-------------------------|----------|-----------------|--------------------|---------------|
| Transformation Formula      | FORMULA                     | Manda    | Smart LOV       | * Transforma            | 30       |                 |                    |               |
| Process Configuration Group | PROCESS_CONFIGURATION_GROUP | Yes      | Smart LOV       | * Process Configuration | 50       | Post SQL Bind   | select to cha...   |               |
| Content Id                  | CONTENT_ID                  | No       | Text            |                         | 20       | Post SQL B      | select 'PersonA... |               |
| Formula Type                | FORMULA_TYPE                | No       | Text            |                         | 40       | Constant Bind   | HCM Data Lo...     |               |

Columns Hidden: 3

We would also need to make sure that the “First Argument” parameter for “Trigger HDL Error Report” is set to “Generate Data Loader File, Submit, HDL Content ID”

← Trigger HDL Error Report Task Details: Basic Information

Basic Information

Actions View + - [Icons] Detach

Back Next Submit

| Name                   | Execution Mode | Data Type | Parameter Basis   | Basis Value                    | Usage           |
|------------------------|----------------|-----------|-------------------|--------------------------------|-----------------|
| Eighth Argument        | Submit         | Text      |                   |                                | Input parameter |
| Fifth Argument         | Submit         | Text      |                   |                                | Input parameter |
| First Argument         | Submit         | Text      | Bind To Flow Task | Generate Data Loader File      | Input parameter |
| Fourth Argument        | Submit         | Text      |                   |                                | Input parameter |
| Legislative Data Group | Submit         | Text      | Context Binding   | Legislative data group         | Input parameter |
| Ninth Argument         | Submit         | Text      |                   |                                | Input parameter |
| Report Name            | Submit         | Text      | Constant Bind     | HDL_ErrorReport                | Input parameter |
| Report Path            | Submit         | Text      | Constant Bind     | /Custom/Practice Samples/HD... | Input parameter |
| Second Argument        | Submit         | Text      |                   |                                | Input parameter |
| Seventh Argument       | Submit         | Text      |                   |                                | Input parameter |
| Sixth Argument         | Submit         | Text      |                   |                                | Input parameter |
| Third Argument         | Submit         | Text      |                   |                                | Input parameter |

Now as a last part of the setup we should check that the “Enable Bursting” Flag under **Report->Properties (of Generate Data Report)** is set

# Generate Load and Report Data Using Custom Payroll Flow Pattern

By: Ashish Harbhajanka

GenerateData Home Catalog Favor

Data Model GenerateData\_dm

PersonAccrualDetail  
Edit | Properties | Delete

### Report Properties

**General** Caching Formatting Font Mapping Currency Format

Description

☒ Run Report Online

☒ Show Controls

☒ Allow Sharing Report Links

☒ Open Links in New Window

☒ Auto Run

Advanced

Job Priority Normal

☒ Enable Bursting BurstToUCM

☐ Report is Controlled by External Application  
Users cannot run or schedule report from catalog, can view history

Enterprise Scheduler Job Package Name

Enterprise Scheduler Job Definition Name

We would also need to enable bursting for the HDL Error Report

## SQL used for HDLErrorReport

```
SELECT '001' report_key, fr.key_source_owner, fr.key_source_id, l.msg_text
, SUBSTR(fl.TEXT, INSTR(fl.TEXT, '|', 1, 2) + 1, INSTR(fl.TEXT, '|', 1, 3) - INSTR(fl.TEXT, '|', 1, 2) - 1)
"CONTEXT"
, fl.TEXT
FROM fusion.hrc_dl_message_lines l
, fusion.hrc_dl_data_set_bus_objs bo
, fusion.hrc_dl_data_sets ds
, fusion.hrc_dl_stg_physical_lines pl
, fusion.hrc_dl_stg_file_rows fr
, fusion.hrc_dl_file_lines fl
WHERE l.message_source_table_name = 'HRC_DL_PHYSICAL_LINES'
AND bo.data_set_bus_obj_id = l.data_set_bus_obj_id
AND ds.data_set_id = bo.data_set_id
AND pl.physical_line_id = l.message_source_line_id
AND fr.row_id = pl.row_id
AND fl.line_id = fr.line_id
AND (ds.ucm_content_id = :p_ucm_content_id
OR ds.data_set_name = :p_data_set_name)
--
UNION
--
SELECT '001' report_key, fr.key_source_owner, fr.key_source_id, l.msg_text
, SUBSTR(fl.TEXT, INSTR(fl.TEXT, '|', 1, 2) + 1, INSTR(fl.TEXT, '|', 1, 3) - INSTR(fl.TEXT, '|', 1, 2) - 1)
"CONTEXT"
, fl.TEXT
FROM fusion.hrc_dl_message_lines l
, fusion.hrc_dl_data_set_bus_objs bo
, fusion.hrc_dl_data_sets ds
, fusion.hrc_dl_stg_logical_lines ll
, fusion.hrc_dl_stg_file_rows fr
, fusion.hrc_dl_file_lines fl
```

Generate Load and Report Data Using Custom Payroll Flow Pattern  
By: Ashish Harbhajanka

```
WHERE l.message_source_table_name = 'HRC_DL_LOGICAL_LINES'
AND   bo.data_set_bus_obj_id   = l.data_set_bus_obj_id
AND   ds.data_set_id           = bo.data_set_id
AND   ll.logical_line_id       = l.message_source_line_id
AND   fr.logical_line_id       = ll.logical_line_id
AND   fl.line_id               = fr.line_id
AND   (ds.ucm_content_id = :p_ucm_content_id
      OR ds.data_set_name = :p_data_set_name)

--
UNION
--
SELECT '001' report_key, fr.key_source_owner, fr.key_source_id, l.msg_text
, SUBSTR(fl.TEXT, INSTR(fl.TEXT, '|', 1, 2) + 1, INSTR(fl.TEXT, '|', 1, 3) - INSTR(fl.TEXT, '|', 1, 2) - 1)
"CONTEXT"
, fl.TEXT
FROM fusion.hrc_dl_message_lines l
, fusion.hrc_dl_data_set_bus_objs bo
, fusion.hrc_dl_data_sets ds
, fusion.hrc_dl_stg_file_rows fr
, fusion.hrc_dl_file_lines fl
WHERE l.message_source_table_name = 'HRC_DL_FILE_ROWS'
AND   bo.data_set_bus_obj_id   = l.data_set_bus_obj_id
AND   ds.data_set_id           = bo.data_set_id
AND   fr.row_id                = l.message_source_line_id
AND   fl.line_id               = fr.line_id
AND   (ds.ucm_content_id = :p_ucm_content_id
      OR ds.data_set_name = :p_data_set_name)

--
UNION
--
SELECT '001' report_key, fr.key_source_owner, fr.key_source_id, l.msg_text
, SUBSTR(fl.TEXT, INSTR(fl.TEXT, '|', 1, 2) + 1, INSTR(fl.TEXT, '|', 1, 3) - INSTR(fl.TEXT, '|', 1, 2) - 1)
"CONTEXT"
, fl.TEXT
FROM fusion.hrc_dl_message_lines l
, fusion.hrc_dl_data_set_bus_objs bo
, fusion.hrc_dl_data_sets ds
, fusion.hrc_dl_physical_lines pl
, fusion.hrc_dl_file_rows fr
, fusion.hrc_dl_file_lines fl
WHERE l.message_source_table_name = 'HRC_DL_PHYSICAL_LINES'
AND   bo.data_set_bus_obj_id   = l.data_set_bus_obj_id
AND   ds.data_set_id           = bo.data_set_id
AND   pl.physical_line_id      = l.message_source_line_id
AND   fr.row_id               = pl.row_id
AND   fl.line_id              = fr.line_id
AND   (ds.ucm_content_id = :p_ucm_content_id
      OR ds.data_set_name = :p_data_set_name)

--
UNION
--
SELECT '001' report_key, fr.key_source_owner, fr.key_source_id, l.msg_text
, SUBSTR(fl.TEXT, INSTR(fl.TEXT, '|', 1, 2) + 1, INSTR(fl.TEXT, '|', 1, 3) - INSTR(fl.TEXT, '|', 1, 2) - 1)
"CONTEXT"
, fl.TEXT
```

Generate Load and Report Data Using Custom Payroll Flow Pattern  
By: Ashish Harbhajanka

```

FROM fusion.hrc_dl_message_lines l
, fusion.hrc_dl_data_set_bus_objs bo
, fusion.hrc_dl_data_sets ds
, fusion.hrc_dl_logical_lines ll
, fusion.hrc_dl_file_rows fr
, fusion.hrc_dl_file_lines fl
WHERE l.message_source_table_name = 'HRC_DL_LOGICAL_LINES'
AND bo.data_set_bus_obj_id = l.data_set_bus_obj_id
AND ds.data_set_id = bo.data_set_id
AND ll.logical_line_id = l.message_source_line_id
AND fr.logical_line_id = ll.logical_line_id
AND fl.line_id = fr.line_id
AND (ds.ucm_content_id = :p_ucm_content_id
OR ds.data_set_name = :p_data_set_name)
--
UNION
--
SELECT '001' report_key, fr.key_source_owner, fr.key_source_id, l.msg_text
, SUBSTR(fl.TEXT, INSTR(fl.TEXT, '|', 1, 2) + 1, INSTR(fl.TEXT, '|', 1, 3) - INSTR(fl.TEXT, '|', 1, 2) - 1)
"CONTEXT"
, fl.TEXT
FROM fusion.hrc_dl_message_lines l
, fusion.hrc_dl_data_set_bus_objs bo
, fusion.hrc_dl_data_sets ds
, fusion.hrc_dl_file_rows fr
, fusion.hrc_dl_file_lines fl
WHERE l.message_source_table_name = 'HRC_DL_FILE_ROWS'
AND bo.data_set_bus_obj_id = l.data_set_bus_obj_id
AND ds.data_set_id = bo.data_set_id
AND fr.row_id = l.message_source_line_id
AND fl.line_id = fr.line_id
AND (ds.ucm_content_id = :p_ucm_content_id
OR ds.data_set_name = :p_data_set_name)

```

Also the ErrorBursting SQL should be as below:

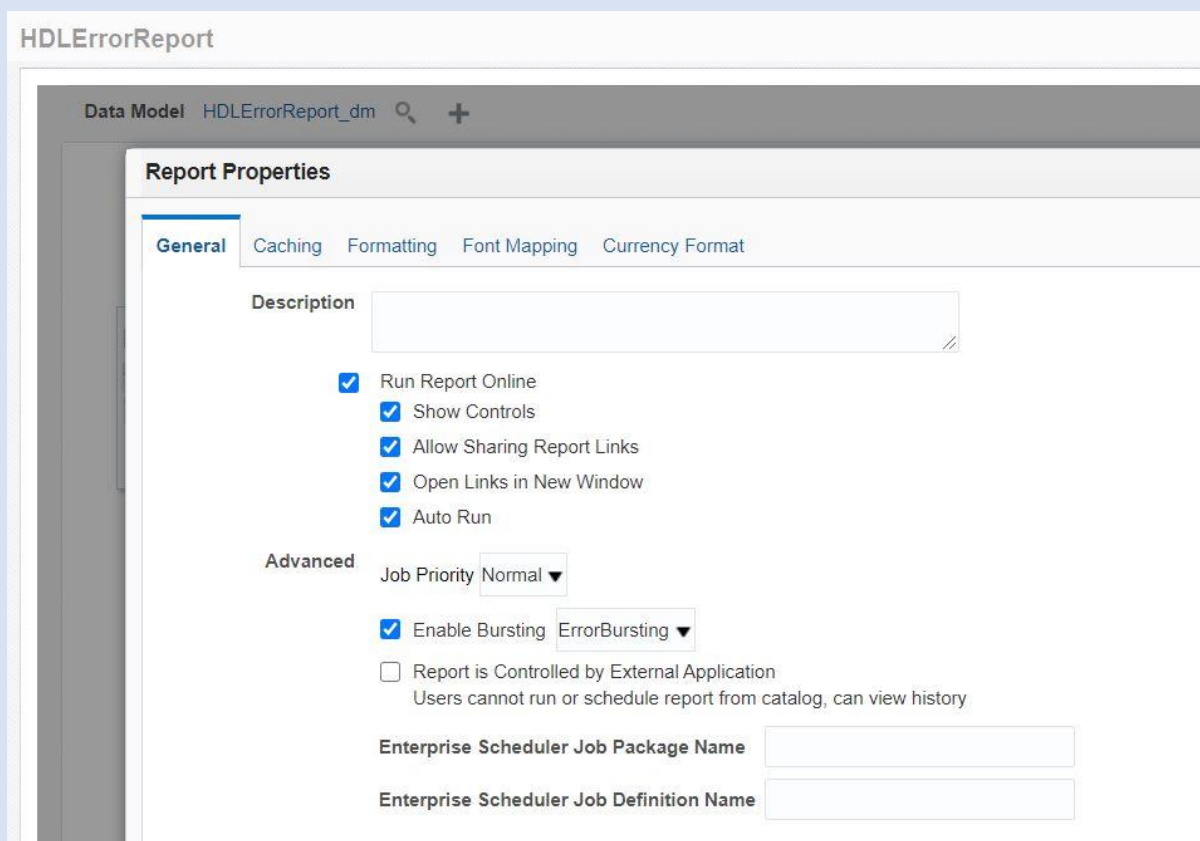
| Bursting SQL for HDLErrorReport                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <pre> SELECT '001' KEY, 'XLSX' OUTPUT_FORMAT, 'EMAIL' DEL_CHANNEL, 'HDLErrorReport' OUTPUT_NAME, 'ashish1234u@gmail.com' parameter1, 'ashish.h.oracle@gmail.com' parameter2, 'donotreply@oracledemos.com' parameter3, 'HDL Data Load Error Report' parameter4, 'HDL Data Load Error Report.   chr(10)   chr(10)   '*Note: This is a system generated mail. Please do not reply.' parameter5, 'true' parameter6, 'donotreply@oracledemos.com' parameter7 FROM dual </pre> |

Also, bursting should be enabled for HDLErrorReport



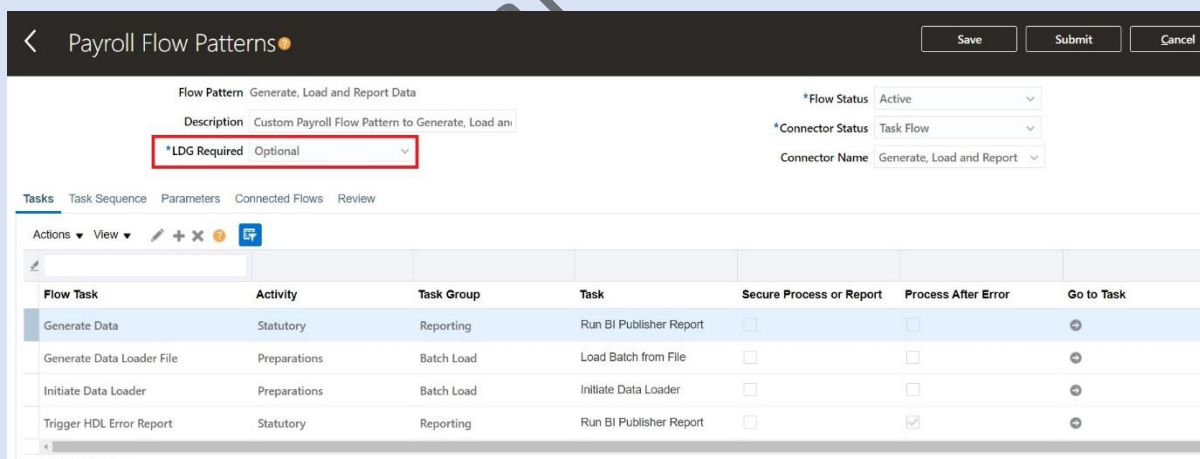
## Generate Load and Report Data Using Custom Payroll Flow Pattern

By: Ashish Harbhajanka



The screenshot shows the 'HDLErrorReport' configuration window. The 'Report Properties' tab is active, with the 'General' sub-tab selected. The 'Description' field is empty. Under the 'General' section, the following options are checked: 'Run Report Online', 'Show Controls', 'Allow Sharing Report Links', 'Open Links in New Window', and 'Auto Run'. Under the 'Advanced' section, 'Job Priority' is set to 'Normal', 'Enable Bursting' is checked with 'ErrorBursting' selected, and 'Report is Controlled by External Application' is unchecked. At the bottom, there are two empty text boxes for 'Enterprise Scheduler Job Package Name' and 'Enterprise Scheduler Job Definition Name'.

As a last step please ensure that the \*LDG Required Attribute is set to optional (By default it is set to "Yes". If it is so then the same should be changed as shown below:



The screenshot shows the 'Payroll Flow Patterns' configuration window. The 'Flow Pattern' is 'Generate, Load and Report Data'. The 'Description' is 'Custom Payroll Flow Pattern to Generate, Load and Report Data'. The '\*LDG Required' attribute is set to 'Optional' (highlighted with a red box). The '\*Flow Status' is 'Active', '\*Connector Status' is 'Task Flow', and 'Connector Name' is 'Generate, Load and Report'. Below this, there is a table with the following columns: 'Flow Task', 'Activity', 'Task Group', 'Task', 'Secure Process or Report', 'Process After Error', and 'Go to Task'.

| Flow Task                 | Activity     | Task Group | Task                    | Secure Process or Report | Process After Error                 | Go to Task                 |
|---------------------------|--------------|------------|-------------------------|--------------------------|-------------------------------------|----------------------------|
| Generate Data             | Statutory    | Reporting  | Run BI Publisher Report | <input type="checkbox"/> | <input type="checkbox"/>            | <a href="#">Go to Task</a> |
| Generate Data Loader File | Preparations | Batch Load | Load Batch from File    | <input type="checkbox"/> | <input type="checkbox"/>            | <a href="#">Go to Task</a> |
| Initiate Data Loader      | Preparations | Batch Load | Initiate Data Loader    | <input type="checkbox"/> | <input type="checkbox"/>            | <a href="#">Go to Task</a> |
| Trigger HDL Error Report  | Statutory    | Reporting  | Run BI Publisher Report | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <a href="#">Go to Task</a> |

Now, that all setups are done we should try running the payroll flow and verify results

### [Verification](#)

We will submit the newly created Custom Payroll Flow Pattern.

**Navigation: My Client Groups -> Payroll-> (Flow Submission and Results) Submit a Flow -> Generate and Load Data**

## Generate Load and Report Data Using Custom Payroll Flow Pattern

By: Ashish Harbhajanka

The screenshot shows the 'Payroll Checklist' interface. At the top, it says 'Generate, Load and Report Data : GLR01'. Below this, there are three summary cards: '2/4 Completed', '0 Completed with Alerts', and '0 Critical Alerts'. The main section is titled 'Tasks' and contains a table with four rows of tasks, all marked as 'Completed'.

| Status | Activity                  |
|--------|---------------------------|
| ✓      | Generate Data Loader File |
| ✓      | Initiate Data Loader      |
| ✓      | Trigger HDL Error Report  |
| ✓      | Generate Data             |

If we click on the “Generate Data” task we will find some details of the ESS process id associated with the task.

The screenshot shows the 'GLR01 Generate Data - Task Flow' interface. It has two summary cards: '0 Records' and '0 Errors and Warnings'. The main section is titled 'Person Process Results' and contains a search bar for 'Person Name' and a 'Show Filters' button. Below this, there is a message 'No data to display.' with a box icon. The bottom section is titled 'Output and Log Files' and contains a table with one row of output files.

| Outputs                         |
|---------------------------------|
| ESS_BI_190547_OP<br>1911911.txt |

We could clearly see that the process-id is 1911911.

We can search for this ESS request id from BI Report Job history with Job name as 1911911

## Generate Load and Report Data Using Custom Payroll Flow Pattern

By: Ashish Harbhajanka

### Report Job History

#### General Information

General Information

|                     |                           |
|---------------------|---------------------------|
| Report Job ID       | 190547                    |
| Report Job Name     | 1911911                   |
| Owner               | fusion_apps_hcm_ess_appid |
| Report Name         | GenerateData              |
| Report Scope        | Private                   |
| Report Job Schedule | 7/30/20 7:37:23 PM UTC    |
| Active Start Date   | 7/30/20 7:37:24 PM UTC    |
| Active End Date     | 7/30/20 7:37:30 PM UTC    |
| Trigger Data Model  |                           |
| Trigger Name        |                           |
| Trigger Retry Limit |                           |
| Trigger Pause Time  |                           |
| Trigger Parameters  |                           |

#### Report Job Execution Information

|                       |                        |
|-----------------------|------------------------|
| Report Job Status     | Success                |
| Start Processing Time | 7/30/20 7:37:24 PM UTC |
| End Processing Time   | 7/30/20 7:37:30 PM UTC |
| Time Elapsed          | 6.52 seconds           |

#### Report Parameters

|                       |                 |
|-----------------------|-----------------|
| Task Instance Id      | 300000201895074 |
| fusionapps_request_id | 1911911         |

#### Bursting Definitions

Split by /DATA\_DS/G\_1/CALL\_ID

#### Output & Delivery

XML Data Diagnostic Log Consolidated Output Republish

| Status      | All                 |        |                         |           |          |         |       |           |
|-------------|---------------------|--------|-------------------------|-----------|----------|---------|-------|-----------|
| Output Name | Template            | Format | Locale                  | Time Zone | Calen... | Status  | Se... | XML Data  |
| 1911911     | PersonAccrualDetail | TEXT   | English (United States) | UTC       |          | Success |       | Republish |

Split Key and Value: Split by Value 1911911

Delivery 1: Content Server

|                 |                            |
|-----------------|----------------------------|
| Server          | FA_UCM_PROVISIONED         |
| Security Group  | FAFusionImportExport       |
| Author          | fusion_apps_hcm_ess_appid  |
| Account         |                            |
| Title           | PersonAccrualDetail1911911 |
| File Name       | PersonAccrualDetail.dat    |
| Folder Path     |                            |
| Comments        | 300000201895074            |
| Custom Metadata | off                        |
| Content Id      | PersonAccrualDetail1911911 |
| Last Updated:   | 7/30/20 7:37:30 PM UTC     |
| Status          | Success                    |

From the above we can see that the Content ID is PersonAccrualDetail1911911

We will search for this content id in Content Server.

### Search Results

Number of items found: 1

| Select                   | ID                  | Title                      | Date    | Author                      | Actions |
|--------------------------|---------------------|----------------------------|---------|-----------------------------|---------|
| <input type="checkbox"/> | PERSONACCRUALDETAIL | PersonAccrualDetail1911911 | 7/30/20 | FUSION_APPS_OBIA_BREE_APPID |         |

And if we click on the file content detail we could see the content of data file

## Generate Load and Report Data Using Custom Payroll Flow Pattern

By: Ashish Harbhajanka

|                            |              |
|----------------------------|--------------|
| Search                     | New Check-In |
| My Content Server          |              |
| Browse Content             |              |
| Search                     |              |
| Criteria                   | Results      |
| Advanced...                |              |
| Number of items found: 1   |              |
| PersonAccrualDetail1911911 |              |

|        |          |     |      |   |       |            |            |                                |
|--------|----------|-----|------|---|-------|------------|------------|--------------------------------|
| ADJ0TH | SICK_ADJ | 661 | Sick | 5 | ET661 | 2020/07/30 | HRC_LEGACY | 661_SICK_VACATION_ADJ_20200730 |
| ADJ0TH | SICK_ADJ | 305 | Sick | 5 | ET305 | 2020/07/30 | HRC_LEGACY | 305_SICK_VACATION_ADJ_20200730 |
| ADJ0TH | SICK_ADJ | 306 | Sick | 5 | ET306 | 2020/07/30 | HRC_LEGACY | 306_SICK_VACATION_ADJ_20200730 |
| ADJ0TH | SICK_ADJ | 307 | Sick | 5 | ET307 | 2020/07/30 | HRC_LEGACY | 307_SICK_VACATION_ADJ_20200730 |
| ADJ0TH | SICK_ADJ | 308 | Sick | 5 | ET308 | 2020/07/30 | HRC_LEGACY | 308_SICK_VACATION_ADJ_20200730 |
| ADJ0TH | SICK_ADJ | 309 | Sick | 5 | ET309 | 2020/07/30 | HRC_LEGACY | 309_SICK_VACATION_ADJ_20200730 |
| ADJ0TH | SICK_ADJ | 310 | Sick | 5 | ET310 | 2020/07/30 | HRC_LEGACY | 310_SICK_VACATION_ADJ_20200730 |
| ADJ0TH | SICK_ADJ | 311 | Sick | 5 | ET311 | 2020/07/30 | HRC_LEGACY | 311_SICK_VACATION_ADJ_20200730 |
| ADJ0TH | SICK_ADJ | 312 | Sick | 5 | ET312 | 2020/07/30 | HRC_LEGACY | 312_SICK_VACATION_ADJ_20200730 |
| ADJ0TH | SICK_ADJ | 538 | Sick | 5 | ET538 | 2020/07/30 | HRC_LEGACY | 538_SICK_VACATION_ADJ_20200730 |
| ADJ0TH | SICK_ADJ | 539 | Sick | 5 | ET539 | 2020/07/30 | HRC_LEGACY | 539_SICK_VACATION_ADJ_20200730 |
| ADJ0TH | SICK_ADJ | 540 | Sick | 5 | ET540 | 2020/07/30 | HRC_LEGACY | 540_SICK_VACATION_ADJ_20200730 |
| ADJ0TH | SICK_ADJ | 541 | Sick | 5 | ET541 | 2020/07/30 | HRC_LEGACY | 541_SICK_VACATION_ADJ_20200730 |
| ADJ0TH | SICK_ADJ | 542 | Sick | 5 | ET542 | 2020/07/30 | HRC_LEGACY | 542_SICK_VACATION_ADJ_20200730 |
| ADJ0TH | SICK_ADJ | 543 | Sick | 5 | ET543 | 2020/07/30 | HRC_LEGACY | 543_SICK_VACATION_ADJ_20200730 |
| ADJ0TH | SICK_ADJ | 573 | Sick | 5 | ET573 | 2020/07/30 | HRC_LEGACY | 573_SICK_VACATION_ADJ_20200730 |
| ADJ0TH | SICK_ADJ | 494 | Sick | 5 | ET494 | 2020/07/30 | HRC_LEGACY | 494_SICK_VACATION_ADJ_20200730 |
| ADJ0TH | SICK_ADJ | 576 | Sick | 5 | ET576 | 2020/07/30 | HRC_LEGACY | 576_SICK_VACATION_ADJ_20200730 |
| ADJ0TH | SICK_ADJ | 578 | Sick | 5 | ET578 | 2020/07/30 | HRC_LEGACY | 578_SICK_VACATION_ADJ_20200730 |
| ADJ0TH | SICK_ADJ | 618 | Sick | 5 | ET618 | 2020/07/30 | HRC_LEGACY | 618_SICK_VACATION_ADJ_20200730 |
| ADJ0TH | SICK_ADJ | 647 | Sick | 5 | ET647 | 2020/07/30 | HRC_LEGACY | 647_SICK_VACATION_ADJ_20200730 |
| ADJ0TH | SICK_ADJ | 648 | Sick | 5 | ET648 | 2020/07/30 | HRC_LEGACY | 648_SICK_VACATION_ADJ_20200730 |
| ADJ0TH | SICK_ADJ | 649 | Sick | 5 | ET649 | 2020/07/30 | HRC_LEGACY | 649_SICK_VACATION_ADJ_20200730 |
| ADJ0TH | SICK_ADJ | 650 | Sick | 5 | ET650 | 2020/07/30 | HRC_LEGACY | 650_SICK_VACATION_ADJ_20200730 |
| ADJ0TH | SICK_ADJ | 652 | Sick | 5 | ET652 | 2020/07/30 | HRC_LEGACY | 652_SICK_VACATION_ADJ_20200730 |
| ADJ0TH | SICK_ADJ | 653 | Sick | 5 | ET653 | 2020/07/30 | HRC_LEGACY | 653_SICK_VACATION_ADJ_20200730 |
| ADJ0TH | SICK_ADJ | 654 | Sick | 5 | ET654 | 2020/07/30 | HRC_LEGACY | 654_SICK_VACATION_ADJ_20200730 |
| ADJ0TH | SICK_ADJ | 655 | Sick | 5 | ET655 | 2020/07/30 | HRC_LEGACY | 655_SICK_VACATION_ADJ_20200730 |
| ADJ0TH | SICK_ADJ | 656 | Sick | 5 | ET656 | 2020/07/30 | HRC_LEGACY | 656_SICK_VACATION_ADJ_20200730 |
| ADJ0TH | SICK_ADJ | 657 | Sick | 5 | ET657 | 2020/07/30 | HRC_LEGACY | 657_SICK_VACATION_ADJ_20200730 |
| ADJ0TH | SICK_ADJ | 658 | Sick | 5 | ET658 | 2020/07/30 | HRC_LEGACY | 658_SICK_VACATION_ADJ_20200730 |
| ADJ0TH | SICK_ADJ | 659 | Sick | 5 | ET659 | 2020/07/30 | HRC_LEGACY | 659_SICK_VACATION_ADJ_20200730 |
| ADJ0TH | SICK_ADJ | 660 | Sick | 5 | ET660 | 2020/07/30 | HRC_LEGACY | 660_SICK_VACATION_ADJ_20200730 |
| ADJ0TH | SICK_ADJ | 662 | Sick | 5 | ET662 | 2020/07/30 | HRC_LEGACY | 662_SICK_VACATION_ADJ_20200730 |
| ADJ0TH | SICK_ADJ | 665 | Sick | 5 | ET665 | 2020/07/30 | HRC_LEGACY | 665_SICK_VACATION_ADJ_20200730 |
| ADJ0TH | SICK_ADJ | 666 | Sick | 5 | ET666 | 2020/07/30 | HRC_LEGACY | 666_SICK_VACATION_ADJ_20200730 |
| ADJ0TH | SICK_ADJ | 667 | Sick | 5 | ET667 | 2020/07/30 | HRC_LEGACY | 667_SICK_VACATION_ADJ_20200730 |

Also we will check the “Import and Load Data” page and we will see that the Data Set name will be same as payroll flow instance name (GLR01 in this example)

Import and Load Data

Import File

GLR01

Hide Filters

Filters

Reset

Save

Saved Search

My Recent Data Sets

\*\* At least one is required

Match

All

Any

\*\* Data Set

Starts with

GLR01

\*\* Content ID

Starts with

\*\* Last Updated Date

After

7/23/20 12:00 AM

Created By

Data Sets

View

Format

Refresh

Stop

Delete

Review Progress

Review Processes

Extract Failed Lines

Freeze

Detach

Wrap

| Data Set             | Content ID    | Import Status | Load Status | Import Success(%) | Total Lines | Load Success(%) | Total Objects | Failed Objects |
|----------------------|---------------|---------------|-------------|-------------------|-------------|-----------------|---------------|----------------|
| <div>GLR01.zip</div> | UCMFA02565395 | <div></div>   | <div></div> | 100               | 722         | 95              | 715           | 31             |

Columns Hidden 17

Business Objects

View

Format

Refresh

Review Progress

Stop

Load

Extract Failed Lines

Freeze

Detach

Wrap

| Business Object                   | Load Order | Import Status | Load Status | Messages    | Import Success(%) | Total Lines | Failed Lines | Load Success(%) | Total Objects | Failed Objects | Last Updated Date | Failed Lines File |
|-----------------------------------|------------|---------------|-------------|-------------|-------------------|-------------|--------------|-----------------|---------------|----------------|-------------------|-------------------|
| Absence Accrual Balance Component | 1          | <div></div>   | <div></div> | <div></div> | 100               | 722         | 0            | 95              | 715           | 31             | 7/30/20           | <div></div>       |

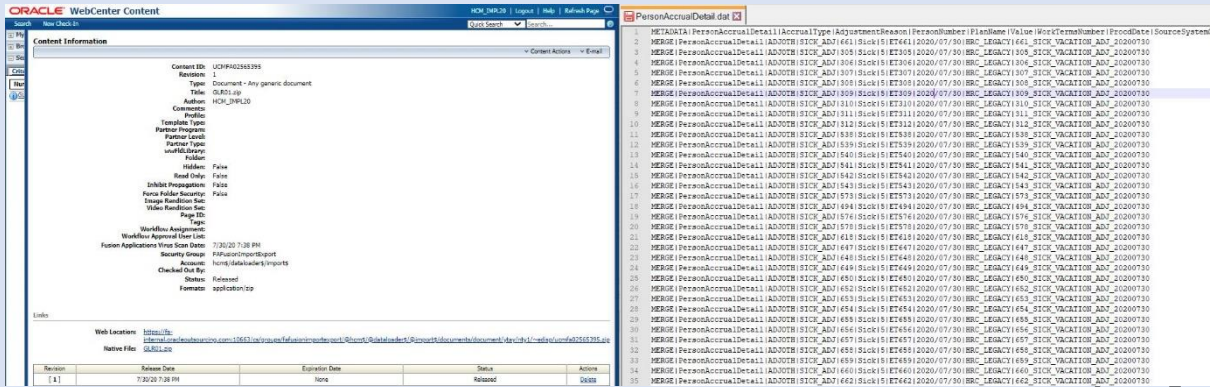
Columns Hidden 9

Also we can check the content of GLR01.zip from content server

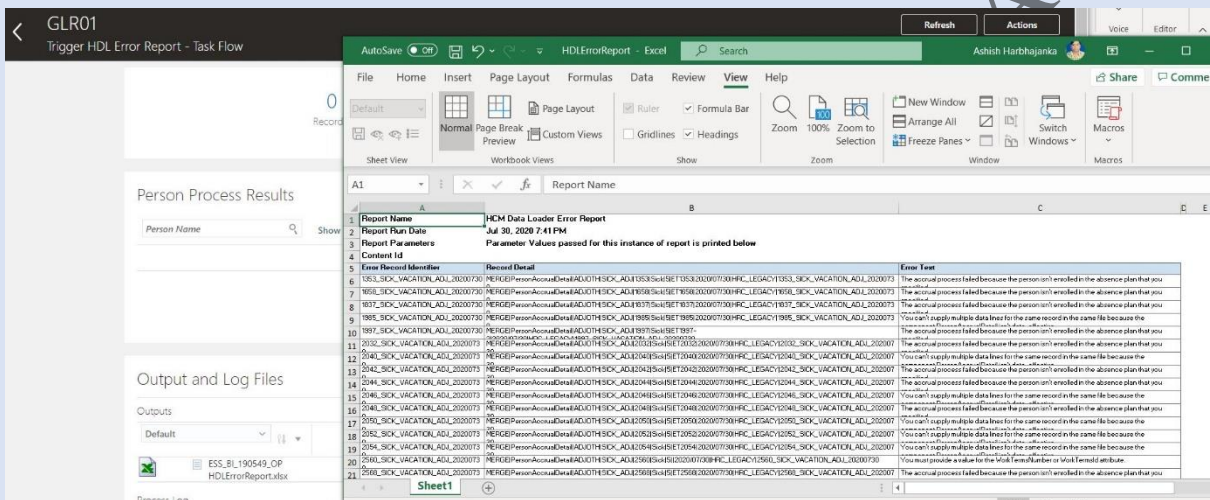


# Generate Load and Report Data Using Custom Payroll Flow Pattern

By: Ashish Harbhajanka



And also, we can quickly check output of “Trigger HDL Error Report” which is an **xlsx** file



As a last step we will navigate to **My Client Groups -> Person Management -> Search for a Person (310 for this example) -> Absence -> Manage Absence Records**

And Then check under vacation plan we will see that an adjustment entry with accrual value of 5 has been loaded with effective date as 30/07/2020

## Generate Load and Report Data Using Custom Payroll Flow Pattern

By: Ashish Harbhajanka

**Edward Mehl: Person Management**

Person Number: 310

**Accrual Plan Balance : Sick**

Balance Calculation Date: 7/31/20

Plan Period Start Date: 1/1/20

Balance: 85.000 Hours

Summary Details

| Date    | Type           | Additional Information  | Hours  | Status |
|---------|----------------|-------------------------|--------|--------|
| 7/30/20 | Adjustment     | Reason: Sick Adjustment | 5.000  |        |
| 1/1/20  | Annual accrual |                         | 40.000 |        |
| 1/1/20  | Carryover      |                         | 40.000 |        |

### Conclusion

So, this is how we can make use of BIP (Bursting Feature) to deliver data to UCM Server which can then be loaded into HCM Application by using of Generate Data Loader Task.

We can summarize the entire step in one image:

**Generate Data**

**LOAD DATA**

**Payroll Checklist**  
Generate, Load and Report Data - GLR01

2/4 Completed 0 Completed with Alerts

**GENERATE -> LOAD -> REPORT DATA**

**Tasks**

| Status    | Activity                  | Activity        |
|-----------|---------------------------|-----------------|
| Completed | Generate Data Loader File | Payroll Process |
| Completed | Initiate Data Loader      | Payroll Process |
| Completed | Trigger HDL Error Report  | Report          |
| Completed | Generate Data             | Report          |

**Generate Data -> Custom BIP Bursting Report**  
Generates Data and Loads Data File into UCM.

**Generate Data Loader File -> Generate Data Loader Task**  
The Generate Data Loader Task takes the UCM file generated by BIP Bursting Report applies transformation logic defined in Transformation Formula and generates HDL File.

**Initiate Data Loader File -> Takes the HDL File**  
generated by Generate Data Loader File and invokes HDL.

**Trigger HDL Error Report -> Takes the Content ID**  
generated by Generate Data Loader File Report and invokes Custom BIP Report (HDL Error Report) which can display data in XLSX, PDF as designed.

One can make the “Generate and Load Data” task more generic by adding two new flow parameters namely report name and report path and use same flow to load different types of data, and with that we have come to the end of this post.

Hope this was a good read.

Thanks for your time and have a nice day ahead.