

Defaulting Flexfields in PURCHASE REQUISITIONS

Redwood and Classic pages. April 2025

Introduction/Goal

This demo is based on some questions-requirements seen in some Oracle forums.

DISCLAIMER: this demo is for investigation, use at your discretion, no guarantee provided.

The requirements could be as follows:

“We need to default different values in the descriptive flexfields (DFF) depending on the business unit assigned to the user”.

Entered By: SCM IMPL Business Unit: US1 Business Unit Creation Date: 4/8/25

Description	Request for Laptop	
Subtotal	Estimated Tax	Approval Amount
\$500.00	\$0.00	\$500.00
More information		
Requester	Deliver-to Location	Destination Type
SCM IMPL	Seattle	Expense
Charge To	101.10.50300.000.000.000	
Cost Center		
Lines		

With this in mind we will set a basic example and will tell how to build the solution.

Redwood developers offers defaulting on many pages, but not on all pages and not on all fields.

The Purchase Requisition redwood pages provide some defaulting for some fields, but we have not found how to default the descriptive flexfields.

In this exercise we are going to show how to default the descriptive flexfields in purchase requisition header.

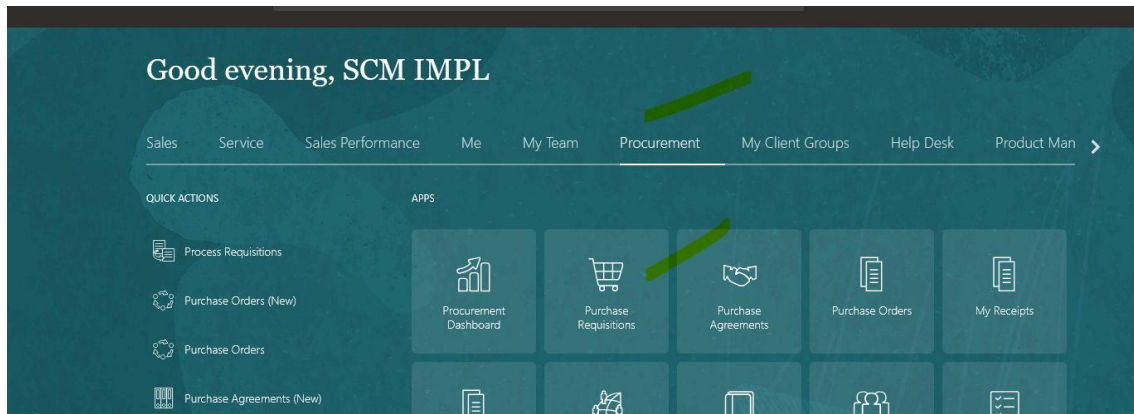
Sometimes there is not straightforward way, and this is the case.

We are going to use a trick to get the job done. Keep on reading.

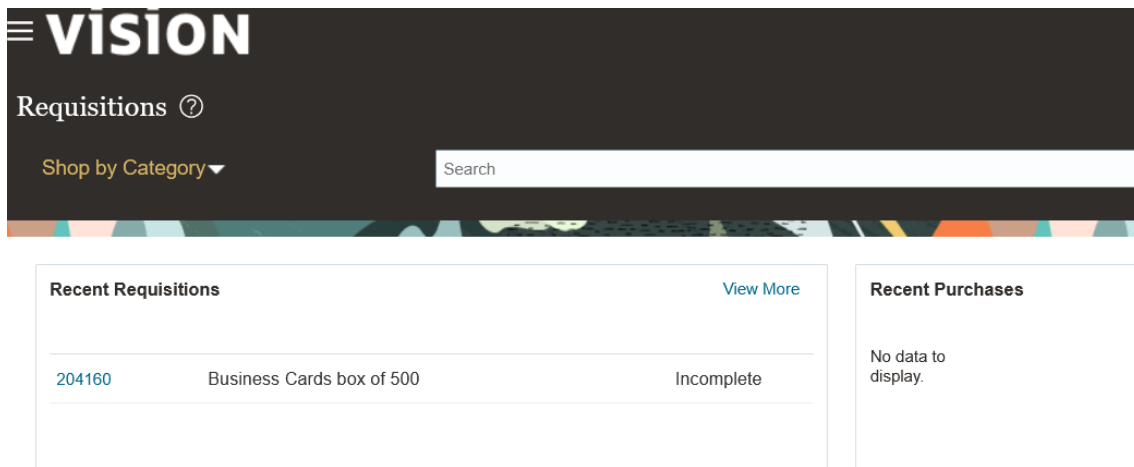
Preparatory steps

1. Set up new flexfield in Oracle ERP.

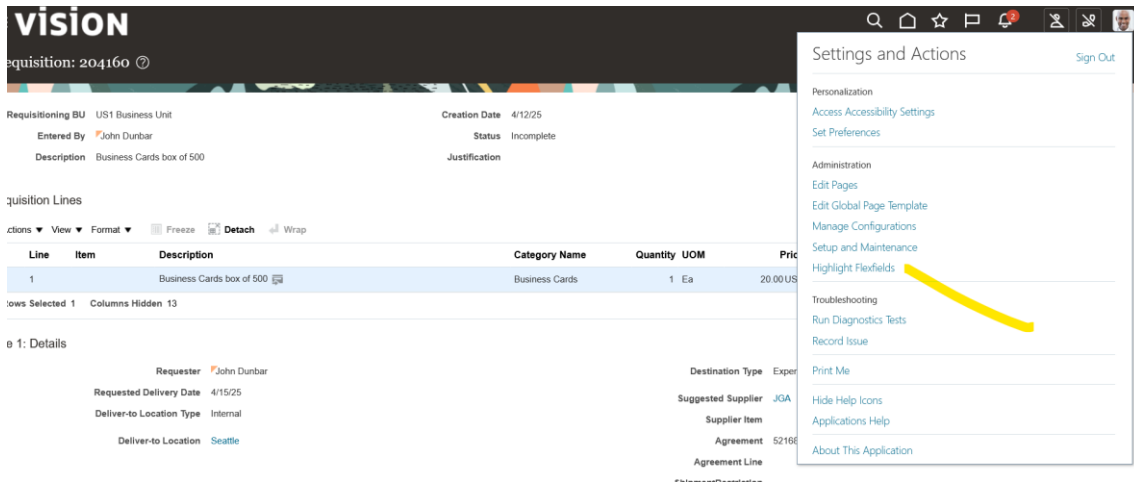
Access main menu, then click on Procurement-Purchase Requisitions (classic-ADF).



Access Requisition Headers page Classic-ADF.



Enable setup of flexfields using this link.



After showing a purchase requisition click on “Tools” icon as shown.

Requisition: 204160 [?](#)

View Life Cycle Actions Done

Requisitioning BU US1 Business Unit
Entered By John Dunbar
Description Business Cards box of 500

Creation Date 4/12/25
Status Incomplete
Justification

Requisition Amount 20.00 USD
Approval Amount 20.00 USD
Attachments None
Descriptive Flexfield [+](#)
Add global segment [+](#)

Requisition Lines

Actions View Format Freeze Detach Wrap

Line	Item	Description	Category Name	Quantity	UOM	Price	Amount (USD)	Status	Order	Line Life Cycle
1		Business Cards box of 500	Business Cards	1	Ea	20.00 USD	20.00	Incomplete		

Rows Selected 1 Columns Hidden 13

Line 1: Details

Requester John Dunbar
Destination Type Expense

Then, edit clicking “Pencil” icon as shown.

FlexModeSetup

Manage Flexfields

Manage Flexfields [?](#)

Search Results

Actions View Format Freeze Detach Wrap Deploy Flexfield

Name	Type	Module	Flexfield Code	Entity Usages	Description	Deployment Status	Deployment Error Message	Deployment Date
Requisition Headers	Descriptiv...	Self Service Procurement...	POR_REQUISITION_HE...		User-defined attributes to ...	✓		3/20/20 2:57 AM

Then create the new Flexfield.

In our case it will be CostCenter using ATTRIBUTE1.

FlexModeSetup

Manage Flexfields

Edit Descriptive Flexfield: Requisition Headers [?](#)

headers.

Global Segments

Actions View Format + - Freeze Detach Wrap

Create Edit Delete

Name	Table Column	Value Set

Context Segment

* Prompt Attribute Value

API Name

Value Set

Default Type

☐ Required

* Display Type Hidden

vision

Create Segment ?

Flexfield Name: Requisition Headers

* Name: CostCenter

* Code: CostCenter

* API Name: costcenter

Flexfield Code: POR_REQUISITION_HEADERS

Description:

☒ Enabled

Column Assignment

* Data Type: Character

* Table Column: ATTRIBUTE1

Validation

* Value Set: 150Char

Value Set Description: 150Char

Range Type:

☐ Required

Initial Default

Default Type:

Display Properties

* Prompt: CostCent

* Display Type: Text Box

Display Size: 30

Display Height:

Definition Help Text:

Instruction Help Text:

Save

View V

Press button “Save and close” x 2 and then Deploy new flexfield, as shown.

vision

Manage Requisition Descriptive Flexfields ?

Search Results

Actions View Format Freeze Detach Wrap Deploy Flexfield

Name	Type	Module	Flexfield Code	Entity Usages	Description	Deployment Status	Deployment Error Message	Deployment Date
Requisition Headers	Descriptive Flexfield	Self Service Procurement ...	POR_REQUISITION_HEADERS		User-defined attributes to ...			3/19/20 9:57 PM

POR_REQUISITION_HEADERS : Processing

Deployment in progress.

0% 100%

Flexfield Metadata Validation: 0 Errors, 0 Warnings

Flexfield Deployment Details

OK

How will we see the new flexfield setup in Redwood pages?

Self Service Procurement

US1 Business Unit | Seattle

Search for items or services



My recent requisitions

Approved Requisition 204169

Request for Laptop

1 Line

Buyer

Calvin Roth

< 204169 Approved

Requisition

Entered By SCM IMPL Business Unit US1 Business Unit Creation Date 4/8/25

Actions

Description
Request for Laptop

Justification
Request for Laptop

Subtotal
\$500.00

Estimated Tax
\$0.00

Approval Amount
\$500.00

More information

Requester
SCM IMPL

Deliver-to Location
Seattle

Destination Type
Expense

Requested Delivery Date
4/11/25

Charge To
101.10.50300.000.000.000

CostCenter

Lines

Navigation to "Edit".

< 204169 Withdrawn

Requisition

Entered By SCM IMPL Business Unit US1 Business Unit Creation Date 4/8/25

Actions

Edit

Description
Request for Laptop

Justification
Request for Laptop

Subtotal
\$500.00

Estimated Tax
\$0.00

Approval Amount
\$500.00

More information

Lines

Withdrawn

Request for Laptop
Dell Inc.

\$500.00

1 Ea

...

Then “Edit” again, as shown.

Cart
Requisition 204169

Request for Laptop
Sold By Dell Inc.

\$500.00 Ea

Quantity
1

Actions Submit

Requisition summary

Subtotal \$500.00
Estimated Tax \$0.00
Approval Amount \$500.00

Description
Request for Laptop
Justification
Request for Laptop
Requester
SCM IMPL
Deliver to Location
Seattle
Destination Type
Expense
Charge To
101.10.50300.000.000.000

Deliver to Location
Seattle

☐ Urgent

Project costing

Project Number

Charge account

Charge To
101.10.50300.000.000.000

Additional information

CostCenter
DEMO01

- Investigate how the REST API for purchase requisitions works. We have done this part for you.

GET operation to find using requisition number.

<https://fa.oraclepdemos.com//fscmRestApi/resources/11.13.18.05/purchaseRequisitions?onlyData=true&limit=5&q=Requisition='204170'&expand=all>

GET operation to find using requisition number showing Flexfield data.

<https://fa.oraclepdemos.com//fscmRestApi/resources/11.13.18.05/purchaseRequisitions?onlyData=true&limit=5&q=Requisition='204173'&expand=all>

```
},  
"DFF": {  
  "items": [  
    {  
      "RequisitionHeaderId": 300000300740022,
```

```

        "costcenter": "DEMO01",
        "__FLEX_Context": null,
        "__FLEX_Context_DisplayValue": null
    }
],

```

PATCH operation basic.

<https://fa.oraclepdemos.com/fscmRestApi/resources/11.13.18.05/purchaseRequisitions/300000301128944>

Payload.

```

{
  "Description": "Updating description of a requisition ",
  "Justification": "Need this for business purposes"
}

```

PATCH operation with Descriptive flexfield.

<https://fa.oraclepdemos.com/fscmRestApi/resources/11.13.18.05/purchaseRequisitions/300000301128944/child/DFP/300000301128944>

Payload.

```

{
  "costcenter": "DEMO01",
  "__FLEX_Context": null,
  "__FLEX_Context_DisplayValue": null
}

```

Solution introduction.

A little surprise!!

We will not solve the problem with Redwood customization, nor Visual Builder extension.

We will get the job done with Oracle Integration.

One size does not always fit all.

We will need one integration with 2 parts:

- 1) One to iterate the Purchase Requisitions created in the period desired for which we will use an integration just planned to get "between dates" in a controlled way.
- 2) One to default the data in the purchase requisition

Optional not done yet: ask in OIC code before if we have applied previously the default to no overwrite if the user have manually made changes. Feel free to complete the exercise with this improvement.

In our tests we will use 2 end users for testing as one defaults one business unit and the other, a different one.

Steps to build the solution.

- 1. OIC connection for Oracle ERP.

< XX_DEMO_ERP

Configured

Role
Trigger and invoke

Identifier
XX_DEMO_ERP

Updated on
Apr 12, 2025, 12:01:15 PM CEST

Used in
18 integrations

Properties

ERP Cloud Host
https://[redacted]-saasfademo1.ds-fa.oraclepdemos.com

Security

Security policy
Username Password Token

Username
[redacted]@DUNBAR

Password

The user for the OIC connection should have access to all business units that we want to implement.

For that, perhaps we have to play with Data Access setup screen and add roles and data access as needed.

Manage Data Access for Users

☐ Users without Data Access

☒ Users with Data Access

Security Context All

Search

** User Name

JOHN.DUNBAR

** Role

Search Results

Actions View + [icon] [icon] Detach

Authorize Additional Data Access Export All Data Access

User Name	Role	Security Context	Security Context Value
JOHN.DUNBAR	Incentive Compensation Plan Administrator	Business unit	US1 Business Unit
JOHN.DUNBAR	Enterprise Contract Administrator	Business unit	US1 Business Unit
JOHN.DUNBAR	Enterprise Contract Administrator	Business unit	Supremo US Business Unit
JOHN.DUNBAR	Subscription Specialist	Business unit	France Business Unit
JOHN.DUNBAR	Subscription Specialist	Business unit	US1 Business Unit

Base Selected 1 Column Hidden 2

Consider, not all users can see the Purchase requisitions using REST.

In our example we had to change initial testing user adding proper Data Accesses.

GET <https://saasfademo1.ds-fa.oraclepdemos.com:443/fscmRestApi/resources/11.13.18.05/purchaseRequisitions?onlyData=true>

Params • Authorization • Headers (13) Body • Scripts Tests Settings

Query Params

Key	Value	Description
onlyData	true	
Key	Value	Description

Body Cookies Headers (27) Test Results 200 OK • 1.04 s

{ } JSON Preview Visualize

```

1 {
2   "items": [
3     {
4       "RequisitionHeaderId": 300000048657163,
5       "Requisition": "203636",
6       "RequisitioningBUId": 300000046987012,
7       "RequisitioningBU": "US1 Business Unit",
8       "PreparerId": 300000047340498,
9       "Preparer": "Calvin Roth",
10      "PreparerEmail": "calvin.roth@demo.com",

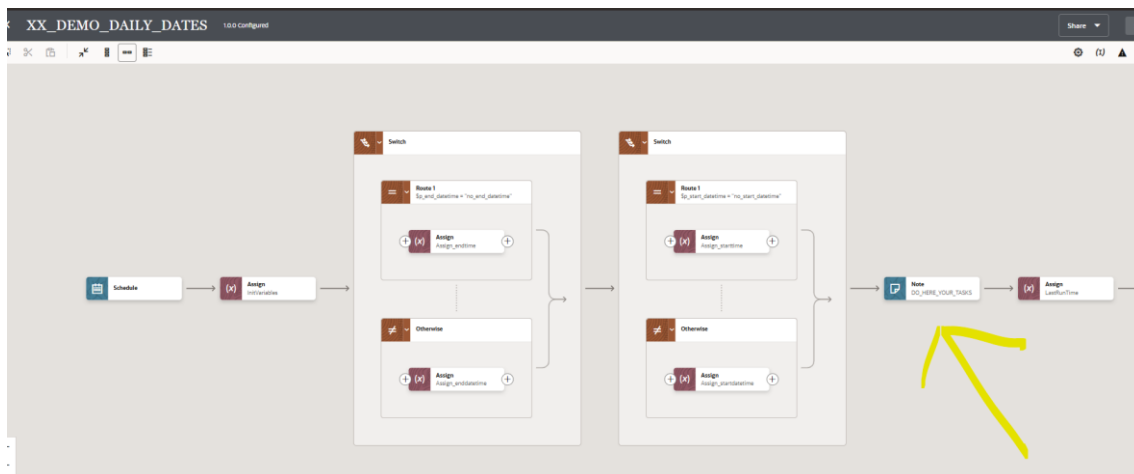
```

`https://saasfademo1.ds-fa.oraclepdemos.com:443/fscmRestApi/resources/11.13.18.05/purchaseRequisitions?onlyData=true&orderBy=CreationDate:desc&q=(CreationDate BETWEEN '2025-04-01T09:51:38' AND '2025-04-12T09:51:38')&fields=CreationDate,RequisitionHeaderId&limit=500`

`concat (" (CreationDate BETWEEN ", "'", $pFromTmp, "'", " AND ", "'", $pToTmp, "'", ") AND DocumentStatusCode=", "'", "INCOMPLETE", "')`

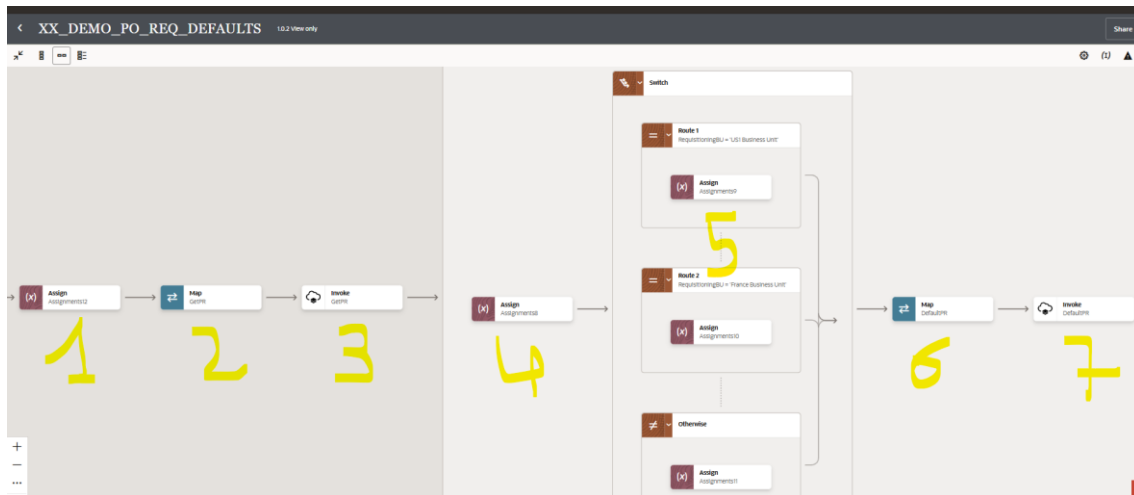
We will use a base integration to control the dates used to filter the purchase requisitions to process.

2. Base integration: XX_DEMO_DAILY_RATES.



In this base integration, we will add our specific code to fulfill the requirements.

3. General Overview for the part that updates the Descriptive flexfields.



1. Preparation of data with Assignment activity.

Configure assign

Assignments12

Specify as many variables for this assignment as you need, and configure their values.

pFromTmp	=	concat(substring(start_datetime, 1, 10), 'T', substring(start_datetime, 12, 8))	🗑️
pToTmp	=	concat(substring(end_datetime, 1, 10), 'T', substring(end_datetime, 12, 8))	🗑️
Variable pToTmp	=	Operation Assign	
(x) Value		concat(substring(end_datetime, 1, 10), 'T', substring(end_datetime, 12, 8))	🔗 🗑️

+

fn:concat(fn:substring(\$end_datetime, 1 , 10), 'T' , fn:substring(\$end_datetime, 12, 8))

2. Mapping.

ORACLE oic3-partners-bots4... (Prod) Validate

Map to GetPR XX_DEMO_PO_REQ_DEFAULTS (1.0.1) - Unsaved changes

Developer XSLT

Sources

- Schedule *
 - Start Time
 - (x) pFromTmp
 - (x) pToTmp
 - (x) end_datetime
 - (x) p_end_datetime
 - (x) p_start_datetime
- Integration Metadata

Mapping canvas

Only Data Expand Fields Limit Offset Query Total Results Order By

Expression for: query

```
concat ("CreationDate BETWEEN ", "", $pFromTmp, "", " AND ", "", $pToTmp, "" )
```

Components


- Functions
 - Advanced
 - Boolean
 - false
 - lang
 - true
 - Conversion
 - Date
 - Integration Cloud
 - Mathematical

```
concat (" ( CreationDate BETWEEN ", "'", $pFromTmp, "'", " AND ", "'", $pToTmp, "'", " )
AND DocumentStatusCode=", "'", "INCOMPLETE", "'")
```

Detailed mapping.

```
</nstrgmpr:REST-Framework-Version>
</nstrgmpr:CustomHTTPHeaders>
</nstrgmpr:HTTPHeaders>
<nstrgmpr:QueryParameters xml:id="id_25">
  <nstrgmpr:onlyData xml:id="id_114">
    <xsl:value-of xml:id="id_115" select="true ()"/>
  </nstrgmpr:onlyData>
  <nstrgmpr:expand xml:id="id_87"/>
  <nstrgmpr:fields xml:id="id_85">
    <xsl:value-of xml:id="id_86" select="'CreationDate,RequisitionHeaderId,RequisitioningBU'"/>
  </nstrgmpr:fields>
  <nstrgmpr:limit xml:id="id_83">
    <xsl:value-of xml:id="id_84" select="500"/>
  </nstrgmpr:limit>
  <nstrgmpr:query xml:id="id_38">
    <xsl:value-of xml:id="id_39" select="concat ('&quot; ( CreationDate BETWEEN &quot;; &quot;'&quot;; $pFromTmp, &qu
  </nstrgmpr:query>
  <nstrgmpr:orderBy xml:id="id_116">
    <xsl:value-of xml:id="id_117" select="'CreationDate:desc'"/>
  </nstrgmpr:orderBy>
</nstrgmpr:QueryParameters>
</nstrgmpr:getAll>
</xsl:template>
</xsl:stylesheet>
```

- Retrieve purchase requisitions created in last 10 minutes (depends on the schedule, planned every 10 minutes).


View Operations
 Oracle ERP Cloud invoke


Browse by
 Business (REST) Resources

Select a Service Application
 fscmRestApp

PurchaseRequisitions


Select the operation to perform on the selected resource
 getAll

4. Initialize variable.

Configure assign


Assignments8

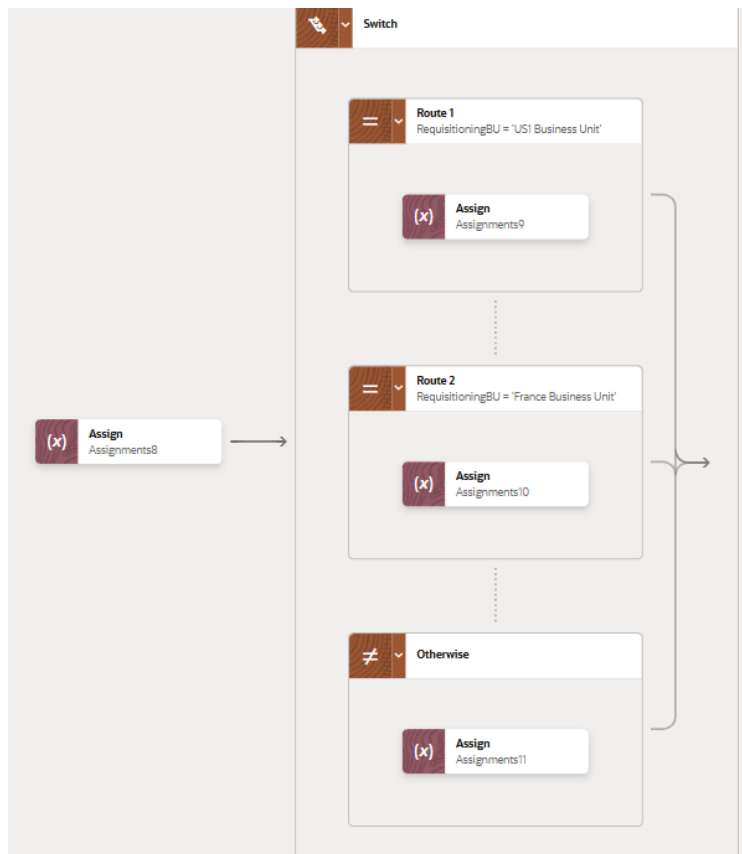
Specify as many variables for this assignment as you need, and configure their values.


 varCostCener = "

+

5. Algorithm.

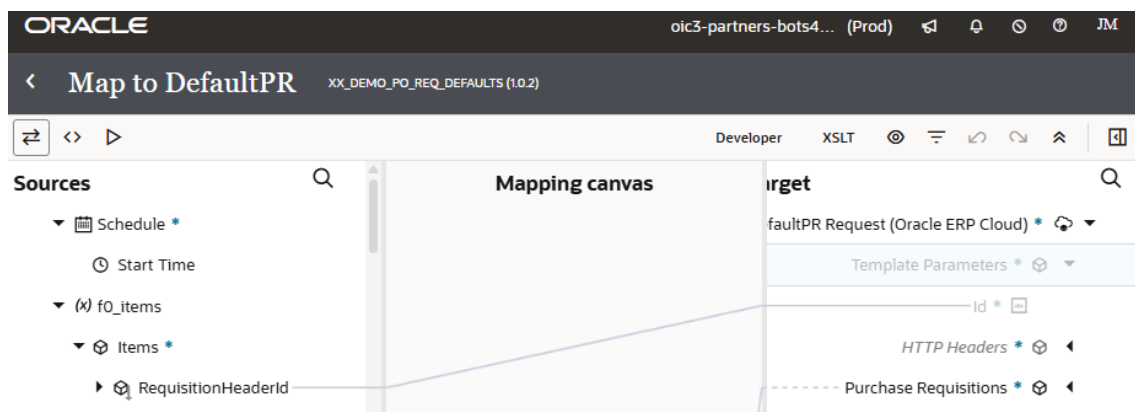
Our small algorithm to set up the cost center depending on the Business Unit.



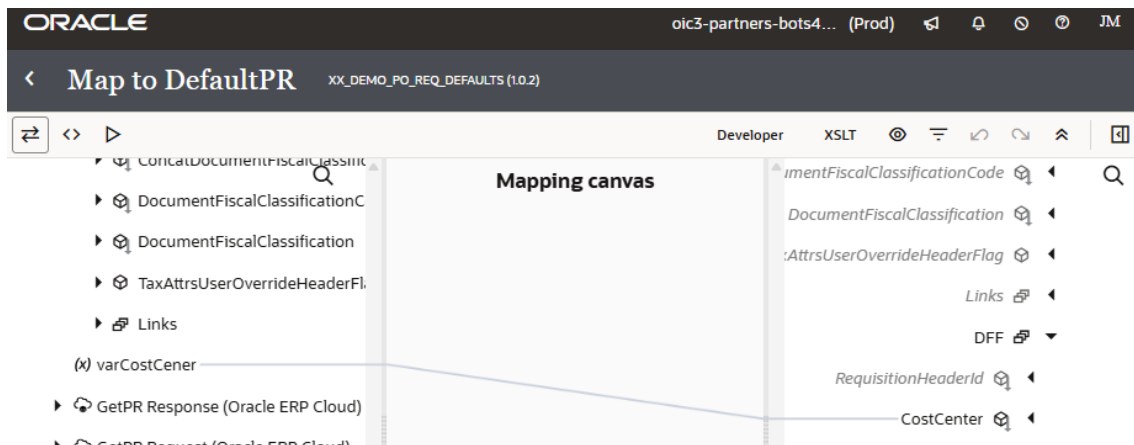
You could do this algorithm, as complex as needed.

6. Mapping for update.

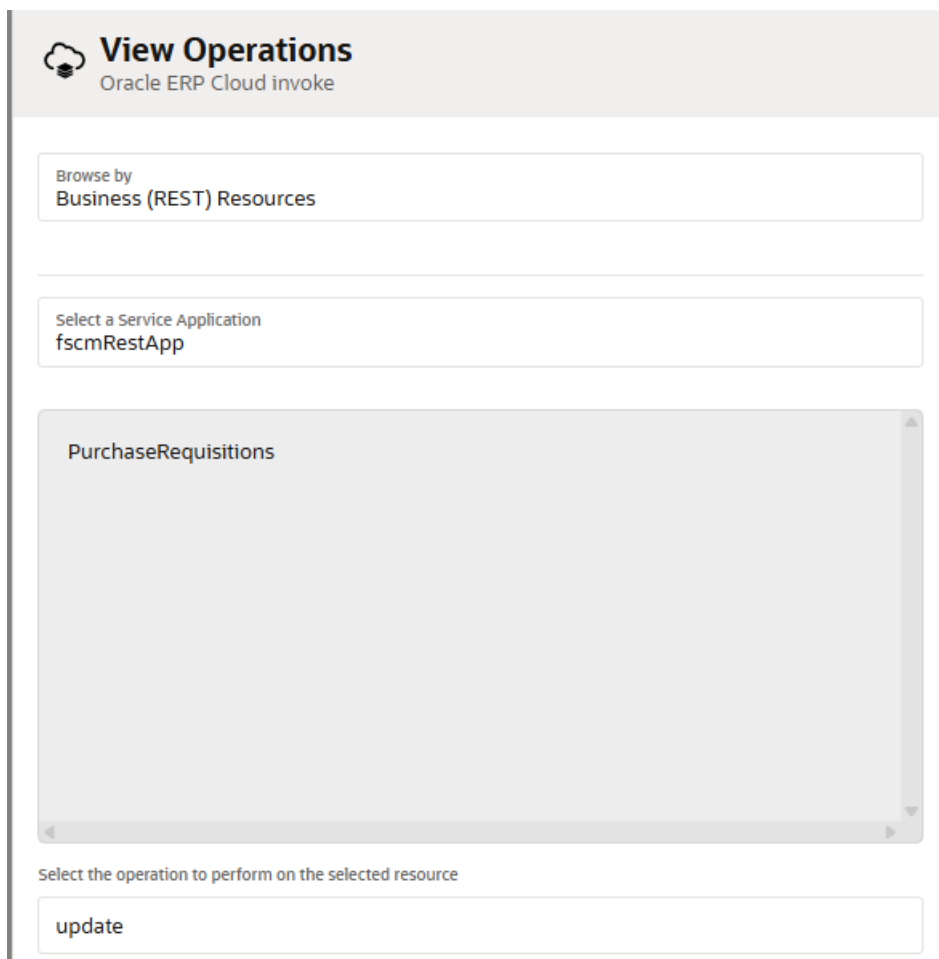
Map purchase requisition of current record read to id.



Map the calculated Cost Center above to descriptive flexfield.



7. Update-patch.



Important: add DFF to be able to update.

View Child Resources
Oracle ERP Cloud invoke

Select Child Resource(s)

- ApprovedByEmailPersonLovPVO
- attachments
- DocumentSubtypesPVO
- lines
- OverridingApproverNumberPersonL
- PreparerEmailPersonLovPVO
- ReqBUNameRequisitionBusinessUni
- specialHandlingDFF

Your Selected Child Resource(s)

DFF

NOTE:
It is highly recommended that you minimize the number of child resource selections. Do not select child resources that are not required for this integration to invoke the external API or for the response message received from the external API.

Testing.

For basic UNIT testing we will run manually.

< **XX_DEMO_PO_REQ_DEFAULTS (1.0.2)** Run

Configure and run
Configure request properties, then run the integration and verify the response. [Click here to read more.](#) Track instances

Run as

User
juanje

▲ Submit as user feature is supported only for admin users.

Request type

☒ Ad hoc request
Runs independent of scheduled runs.

☐ As part of schedule
Runs in sequence of scheduled runs and share parameters.

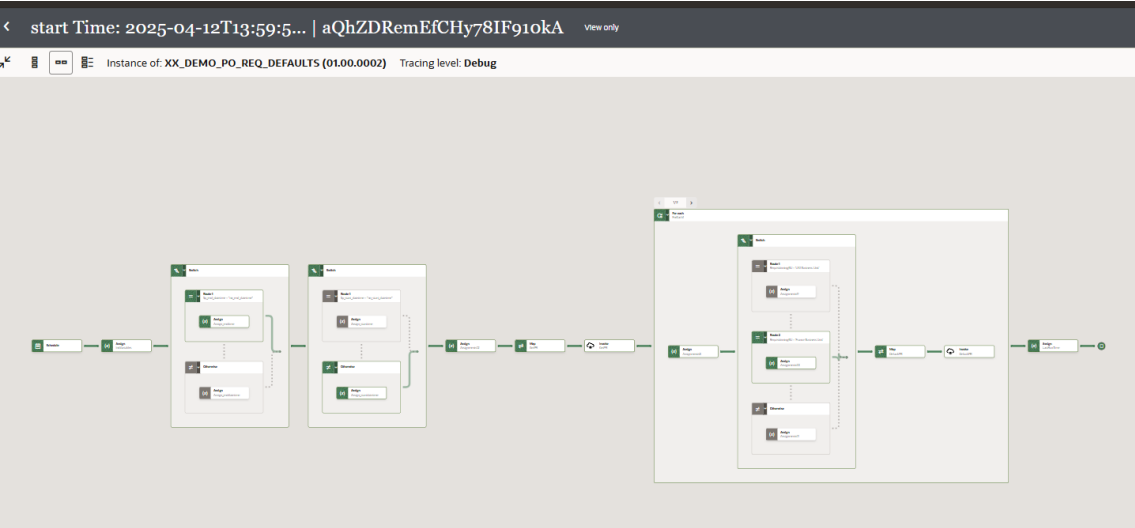
p_start_datetime
Description
Default value
no_start_datetime
Current value
2025-04-13 06:28:01.0

p_end_datetime
Description
Default value
no_end_datetime
Current value

For first run:

Start date time: date from that you want, make sure you have purchase requisitions created from this time, and also make sure the user set up in OIC connection is able to see these purchase requisitions.

End date time: current date-time.



Result of our testing.

01:05:35.345 PM
✓ For Each ForEach1
3 iterations

01:05:35.348 PM
✓ Message routed through Switch Route with condition RequisitioningBU = 'US1 Business Unit'

01:05:35.349 PM
✓ Message received by Assignment Assignments9

01:05:35.349 PM
✓ Variable 'varCostCener' was assigned with '001'

01:05:35.349 PM
✓ Message exited Switch

Review in classical-ADF page.

Requisition: 204160 ?

Requisitioning BU US1 Business Unit
Entered By John Dunbar
Description Business Cards box of 500

Creation Date 4/12/25
Status Incomplete
Justification

Requisition Amount 20.00 USD
Approval Amount 20.00 USD
Attachments None
CostCenter 001

Requisition Lines

Actions View Format Freeze Detach Wrap

Line	Item	Description	Category Name	Quantity	UOM	Price	Amount (USD)	Status
1		Business Cards box of 500	Business Cards	1	Ea	20.00 USD	20.00	Incomplete

Rows Selected 1 Columns Hidden 13

03:59:54.827 PM	Message routed through Switch Route with condition RequisitioningBU = 'France Business Unit'
03:59:54.828 PM	Message received by Assignment Assignments10
03:59:54.828 PM	Variable 'varCostCener' was assigned with '002'
03:59:54.828 PM	Message exited Switch
03:59:54.828 PM, 3ms	Message received by Data Manager

Review in classical-ADF page.

Requisition: 184274

View

Requisitioning BU

Entered By

Description

France Business Unit

Marc Grande

Imprimante Phaser3610

Creation Date

Status

Justification

12/04/25

Incomplete

Requisition Amount

Approval Amount

Attachments

CostCenter

699,00 EUR

699,00 EUR

None

002

Requisition Lines

ActionsViewFormatFreezeDetachWrap

Line	Item	Description	Category Name	Quantity	UOM	Price	Amount (EUR)	Status
1		Imprimante Phaser3610	Laser Printer	1	Ea	699,00 EUR	699,00	Incomplete

Rows Selected 1Columns Hidden 13

After testing manually, we could schedule and run every minute, so when the user enters a purchase requisition in the screen the process in background well update the flexfield data.

Schedule steps.

Schedule XX_DEMO_PO_REQ_DEFAULT_01_00_0002

Define recurrence

☒ Simple
☐ iCal

Frequency
Hours and minutes

Every
0
hour(s)
10
Minute(s)

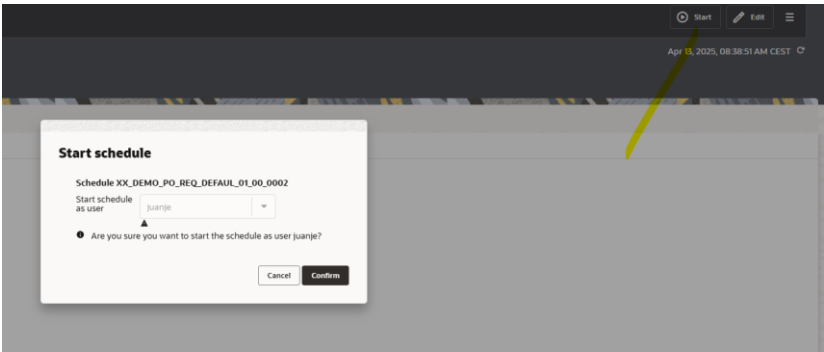
This schedule is effective:

From
When schedule starts

Until
Apr 13th, 2025 8:08 pm

Time zone
(UTC+01:00) Madrid - Central European 1

You must start up the schedule for these settings to take effect



current Value indicates the currently stored value.		
Default value	Current value	New value
no_end_datetime		<input type="text" value="Enter new value"/>
no_start_datetime	2025-04-13 06:16:29.0	<input type="text" value="2025-04-12 00:00:00.0"/>

2025-04-12 00:00:00.0

Schedule and future runs - XX_DEMO_PO_REQ_DEFAULTS (1.0.2)	
> Schedule XX_DEMO_PO_REQ_DEFAULT_01_00_0002 Running	
Time window Next 24 hours	
144 future instances	
Type	Scheduled time
Scheduled run	In 6 minutes
Scheduled run	In 16 minutes
Scheduled run	In 26 minutes
Scheduled run	In 36 minutes
Scheduled run	In an hour
Scheduled run	In an hour
Scheduled run	Today at 10:00 AM CEST
Scheduled run	Today at 10:10 AM CEST
Scheduled run	Today at 10:20 AM CEST
Scheduled run	Today at 10:30 AM CEST

After we enter one requisition with different users, we can see that they are updated by our integration as shown, after max. 10 minutes.

Instances

Q 🔍

Time window Last 1 hour Integration **XX_DEMO_PO_REQ_DEFAULTS (XX_DEMO_PO_REQ_DEFAULT | 0100.0002)** × Display instances >

Apr 13, 2025, 09:11:49 AM CEST 🌐

Activity stream

Instance ID: CAVa3Rg0EFC5OoX9hHCjVw 📄

Tracing level: **Debug**

- 09:00:52.222 AM Message exited Switch
- 09:00:52.222 AM Message entered Switch
- 09:00:52.222 AM Message routed through Switch Route with condition Otherwise
- 09:00:52.222 AM Message received by Assignment Assign_startdatetime
- 09:00:52.222 AM Message exited Switch
- 09:00:52.222 AM Message received by Assignment Assignmentst2
- 09:00:52.223 AM Message received by Data Mapper
- 09:00:52.226 AM Data Mapping completed with Message
- 09:00:52.227 AM Invoke GetPR
- 09:00:53.172 AM For Each ForEach1 2 iterations

Primary identifier	Instance ID	Status	Business Identifiers	Duration
p_start_datetime: 2025-04-13 07:00:52 XX_DEMO_PO_REQ_DEFAULT 10.2	CqBb...	Succeeded	p_end_..., no_end_datetime startTi..., 2025-04-13T07:10:53...	Received Succeeded Duration Just now Just now 992 milliseconds
Primary: undefined XX_DEMO_PO_REQ_DEFAULT 10.2	cFBZ...	Queued		Submitted Scheduled Duration Just now in 8 minutes
p_start_datetime: 2025-04-13 06:50:53 XX_DEMO_PO_REQ_DEFAULT 10.2	CAVa...	Succeeded	p_end_..., no_end_datetime startTi..., 2025-04-13T07:00:52...	Received Succeeded Duration 12 minutes ago 12 minutes ago 175 seconds
Primary: undefined XX_DEMO_PO_REQ_DEFAULT 10.2	po7K...	Aborted		Submitted Aborted Duration 22 minutes ago 20 minutes ago
start Time: 2025-04-13T06:50:53.115+0 XX_DEMO_PO_REQ_DEFAULT 10.2	Ph3S...	Succeeded	p_end_..., no_end_datetime	Received Succeeded Duration 22 minutes ago 22 minutes ago 3.46 seconds
start Time: 2025-04-13T06:33:56.431+0 XX_DEMO_PO_REQ_DEFAULT 10.2	Rm0...	Succeeded	p_end_..., no_end_datetime	Received Succeeded Duration 39 minutes ago 39 minutes ago 584 milliseconds
start Time: 2025-04-12T18:26:29.374+0 XX_DEMO_PO_REQ_DEFAULT 10.2	QM4...	Aborted	p_end_..., no_end_datetime	Received Aborted Duration Yesterday at 08:26 PM CE... 39 minutes ago 700 milliseconds

NOTE: if you would like to have the update every 5 minutes, an option could be clone the integration and schedule every 10 minutes, but starting 5 minutes after scheduling the first.

Again, see disclaimer above at the beginning of this writing.

Conclusion

We have provided a solution out of the box for a requirement that initially seems not to have an easy solution.

We can default data on Descriptive flexfield and other fields depending on the business unit or other data.

Provided code in:

https://github.com/juanjesusmontero/oracle_redwood_cookbook

https://github.com/juanjesusmontero/oic_for_erp_cookbook

Technical

Code example	Comments
XX_DEMO_DAILY_DATES	Base integration used to control dates from/to.
XX_DEMO_PO_REQ_DEFAULTS	Demo integration used in example