

# **PAYROLL INTEGRATION**

APIS FOR INTEGRATION WITH THIRD PARTY PAYROLL SYSTEMS

**HUMAN CAPITAL MANAGEMENT**

**IFS CLOUD – 21R1**

# AGENDA

**1**

IMPACTED  
BUSINESS  
PROCESSES

**2**

BACKGROUND

**3**

CONCEPT

**4**

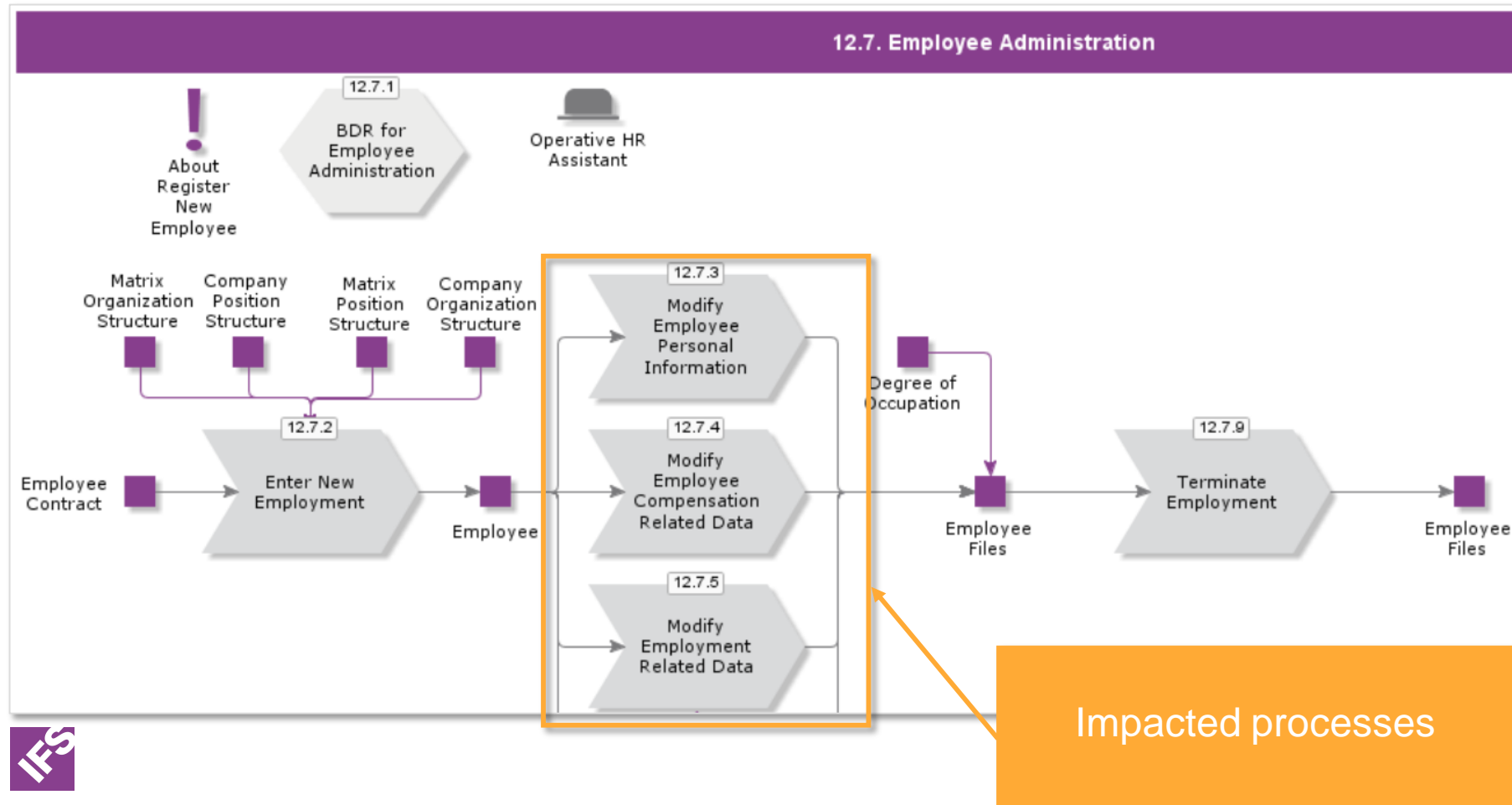
BUSINESS  
VALUE

**5**

SOLUTION

# PAYROLL INTEGRATION

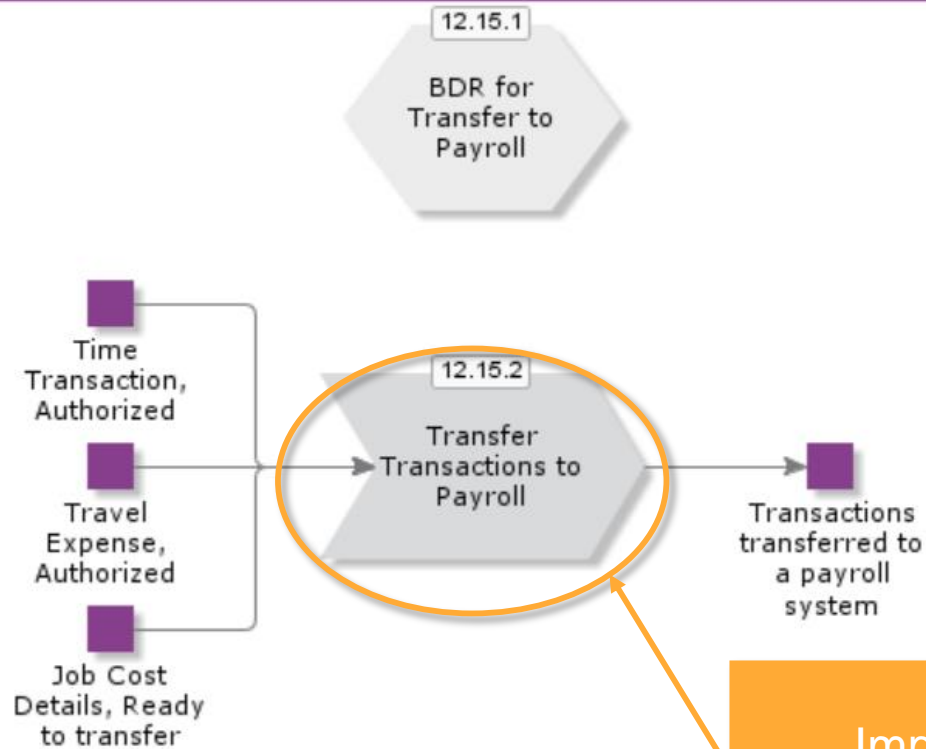
## BUSINESS PROCESS



# PAYROLL INTEGRATION

## BUSINESS PROCESS

### 12.15. Transfer to Payroll



Impacted  
processes

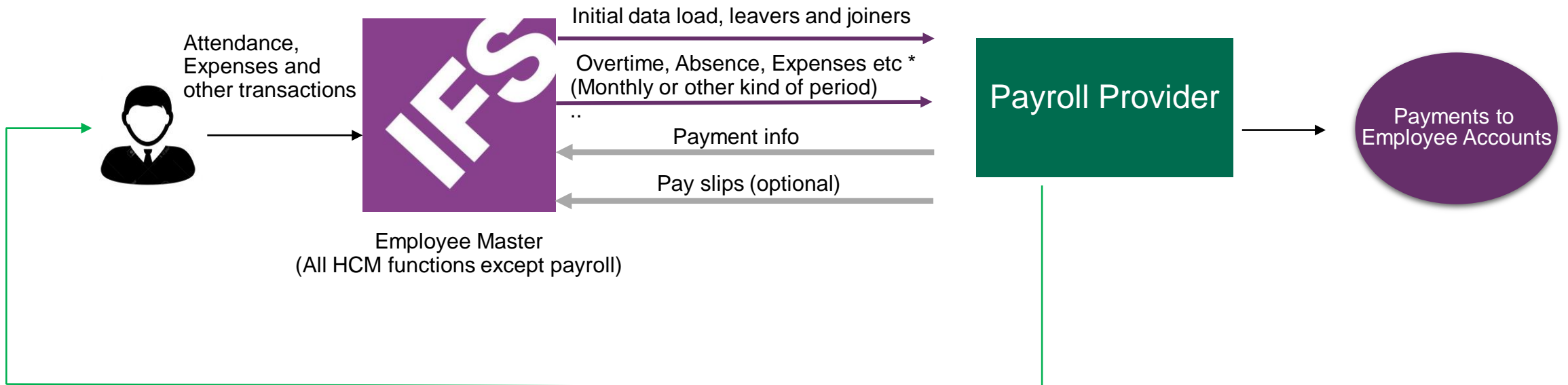
# PAYROLL INTEGRATION

## **BACKGROUND**

To enable our customers to integrate our HCM solution with their chosen payroll system with minimum complexity, we offer new API Integrations. Standard integrations will also be provided for our selected payroll partners.

# PAYROLL INTEGRATION

## CONCEPT



# PAYROLL INTEGRATION

## **BENEFITS/BUSINESS VALUE**

- An enhanced integration methodology, with a set of standard interfaces and APIs
- Make it easier to integrate with third-party payroll providers.
- Allows IFS customers to manage their payroll data on a global basis that best meets their organization-wide operational needs using following two alternatives. (Local and regional 3rd party payroll solutions, from their preferred vendor Or IFS selected global 3rd party payroll partners)

# PAYROLL INTEGRATION

## SOLUTION – CONFIGURATION

Home

<

>

Refresh

Notifications

Chat

Alain Prost

IFS

Solution Manager > Security > Identity and Access Manager > IAM Client Administration - Details

Refresh

IAM Client - Details

IFS\_criterion\_poc

>>

🔍

✎

📌

Client Details Group

Client Id	Enabled	Name	Description	
IFS_criterion_poc	Yes			
Type	Consent Required	Public Client	Service Accounts	Direct Access Grants
Custom Client	No	No	Yes	No

Urls

Web Origins

Redirect Uris

Scopes

Access

https://criterionpoc-rnd.ifsworld.com

https://criterionpoc-rnd.ifsworld.com/\*

web-origins,audience,profile,roles,microprofile-jwt,email



# PAYROLL INTEGRATION

## SOLUTION – CONFIGURATION

The screenshot shows the IFS Solution Manager interface. The top navigation bar includes a menu icon, home, app grid, back, forward, refresh, and search icons. On the right, there are notification, chat, and user profile icons for 'Alain Prost'. The breadcrumb trail is: > Solution Manager > Security > Permission Sets > Permission Set > Projections. The main title is 'Projections' with a dropdown for 'CRITERION\_USER' and '1 of 1'. Below the title is a toolbar with icons for add, edit, delete, copy, and a 'Manage by Navigator' button. The main content area displays a table for the 'CRITERION\_USER' projection. The table has columns: Permission Set, Type, Contains Legacy Grants, Limited Task User, and Additional Task User. The values are: CRITERION\_USER, End User Role, No, No, and No. Below this is a section for 'Granted Projections' with a toolbar for list, filter, and table views, and buttons for 'Add/Revoke', 'Change Access', and 'Manage by Page'. The table lists two granted projections: 'EmployeeMasterDataService' and 'PayrollTransactionService', both with 'No Pages' and 'Read Only' access. The bottom section is 'Available Pages' with a dropdown arrow.

Navigation: > Solution Manager > Security > Permission Sets > Permission Set > Projections

### Projections

CRITERION\_USER 1 of 1

Manage by Navigator

Permission Set	Type	Contains Legacy Grants	Limited Task User	Additional Task User
CRITERION_USER	End User Role	No	No	No

Description

#### Granted Projections

Add/Revoke Change Access Manage by Page

✓	:	Name	Description	No of Pages	Access Level	Category	Component
<input type="checkbox"/>	:	EmployeeMasterDataService	Integration API to retrieve Employee master data	No Pages	Read Only	Integration	PERSON
<input type="checkbox"/>	:	PayrollTransactionService	Integration API to retrieve authorized payroll trans.	No Pages	Read Only	Integration	PAYINT

Available Pages

# PAYROLL INTEGRATION

## SOLUTION – CONFIGURATION

The screenshot displays the 'User Details for CRITERION' page in the IFS Solution Manager. The breadcrumb trail is 'Solution Manager > Security > Users > User'. The page title is 'User Details for CRITERION' with a dropdown menu showing 'CRITERION' and '1 of 2'. Below the title are several action buttons: 'View User Sites', 'View User Companies', 'View User Creation Settings', 'Set Password', and 'Expire Password'. The main content area is divided into sections: 'Identity' and 'Activation'. The 'Identity' section contains fields for 'User Email' (CRITERION), 'Description' (Payroll Integration User), 'Directory Id' (CRITERIONPOC), and 'Preferred Language' (CRITERION). The 'Activation' section contains fields for 'Active' (Yes), 'Automatic Activation' (No), 'Valid From', and 'Valid To'. Below these sections are tabs for 'USER PERMISSIONS', 'GROUPS', and 'COMPANIES'. The 'USER PERMISSIONS' tab is selected, showing a table of 'All Granted Permission Sets'. The table has columns for 'Permission Set', 'Description', and 'Grant Type'. One permission set is listed: 'CRITERION\_USER' with a 'Direct' grant type. A purple arrow points from a box labeled 'Client ID' to the 'Directory Id' field, which contains the value 'CRITERIONPOC'.

Navigation: Solution Manager > Security > Users > User

### User Details for CRITERION

CRITERION 1 of 2

Buttons: View User Sites, View User Companies, View User Creation Settings, Set Password, Expire Password

Identity	User Email	Description	Directory Id
CRITERION	CRITERION	Payroll Integration User	CRITERIONPOC
Preferred Language	Person		

### Activation

Active	Automatic Activation	Valid From	Valid To
Yes	No		

Tabs: USER PERMISSIONS, GROUPS, COMPANIES

#### All Granted Permission Sets

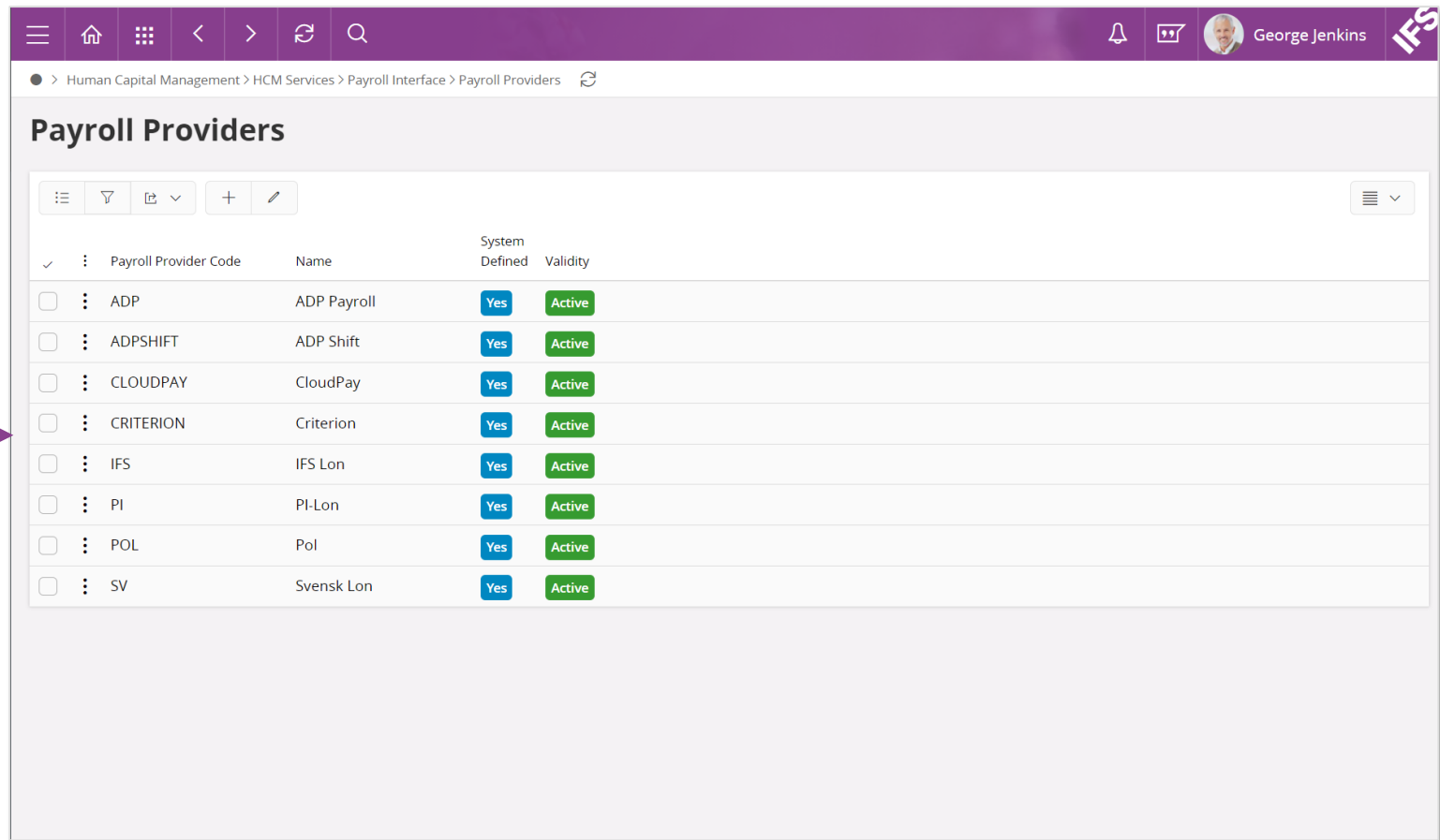
Permission Set	Description	Grant Type
CRITERION_USER		Direct

Client ID

# PAYROLL INTEGRATION

## SOLUTION – PAYROLL PROVIDER

Define Payroll  
Providers



The screenshot displays the 'Payroll Providers' configuration page in the IFS system. The page header includes navigation icons and the user's name, George Jenkins. The breadcrumb trail indicates the path: Human Capital Management > HCM Services > Payroll Interface > Payroll Providers. The main content area features a table of payroll providers, each with a checkbox for selection, a vertical ellipsis for actions, a provider code, a name, a 'System Defined' status, and a 'Validity' status. All providers listed are marked as 'Active'.

	Payroll Provider Code	Name	System Defined	Validity
<input type="checkbox"/>	ADP	ADP Payroll	Yes	Active
<input type="checkbox"/>	ADPSHIFT	ADP Shift	Yes	Active
<input type="checkbox"/>	CLOUDPAY	CloudPay	Yes	Active
<input type="checkbox"/>	CRITERION	Criterion	Yes	Active
<input type="checkbox"/>	IFS	IFS Lon	Yes	Active
<input type="checkbox"/>	PI	PI-Lon	Yes	Active
<input type="checkbox"/>	POL	Pol	Yes	Active
<input type="checkbox"/>	SV	Svensk Lon	Yes	Active

# PAYROLL INTEGRATION

## SOLUTION – PAYROLL PROVIDER

Payroll Provider in  
Employee File

The screenshot displays the IFS Payroll Provider interface for George Jenkins (HQ-050). The top navigation bar includes icons for home, list, back, forward, refresh, and search, along with a user profile for George Jenkins and the IFS logo. The breadcrumb trail shows the path: Human Capital Management > HCM Services > Employee Management > Employee File > Compensation > Payroll Provider. The company name, Minerals Exploration Company (US), is displayed in the top right corner.

The main section is titled "Payroll Provider" for George Jenkins (HQ-050). Below the title, there are icons for expand, edit, and delete. The "Summary" section contains the following information:

Name	Employee ID	Person ID	Employee Status	Valid Data Processing Pur...
George Jenkins	HQ-050	GEJEUS	Active	No

The "Payroll Provider" section shows a table with the following data:

(1)	Payroll Provider	Validity Period
<input checked="" type="checkbox"/>	CRITERION - Criterion	1/1/2020 - 12/31/2020

The "Attachments" section is currently empty.

# PAYROLL INTEGRATION

## SOLUTION – SALARY INFORMATION

Navigation: > Human Capital Management > HCM Services > Employee Management > Employee File > Compensation >

Company: Minerals Exploration Company (US)

### Compensation

George Jenkins (HQ-050)

Personal File | Employments | Documents | MISC

#### Summary

Name	Employee ID	Person ID	Employee Status	Valid Data Processing Pur...
George Jenkins	HQ-050	GEJEUS	Active	No

#### Employee Salary Information

	Basic Salary	Salary Period	Pay Frequency	Amount	Full Time Amount	Wage Code	Additional Pay Type	Pay Type Period	Transfer To Payroll	Valid From	Valid To
<input checked="" type="checkbox"/>	Yes	Annually	Monthly	10000.00	10000.00	100			No	9/25/2020	12/31/9999
<input type="checkbox"/>	No		Monthly	40.00	40.00		Car allowance - Allowance	Q1	Yes	9/25/2020	12/31/9999

#### Rates

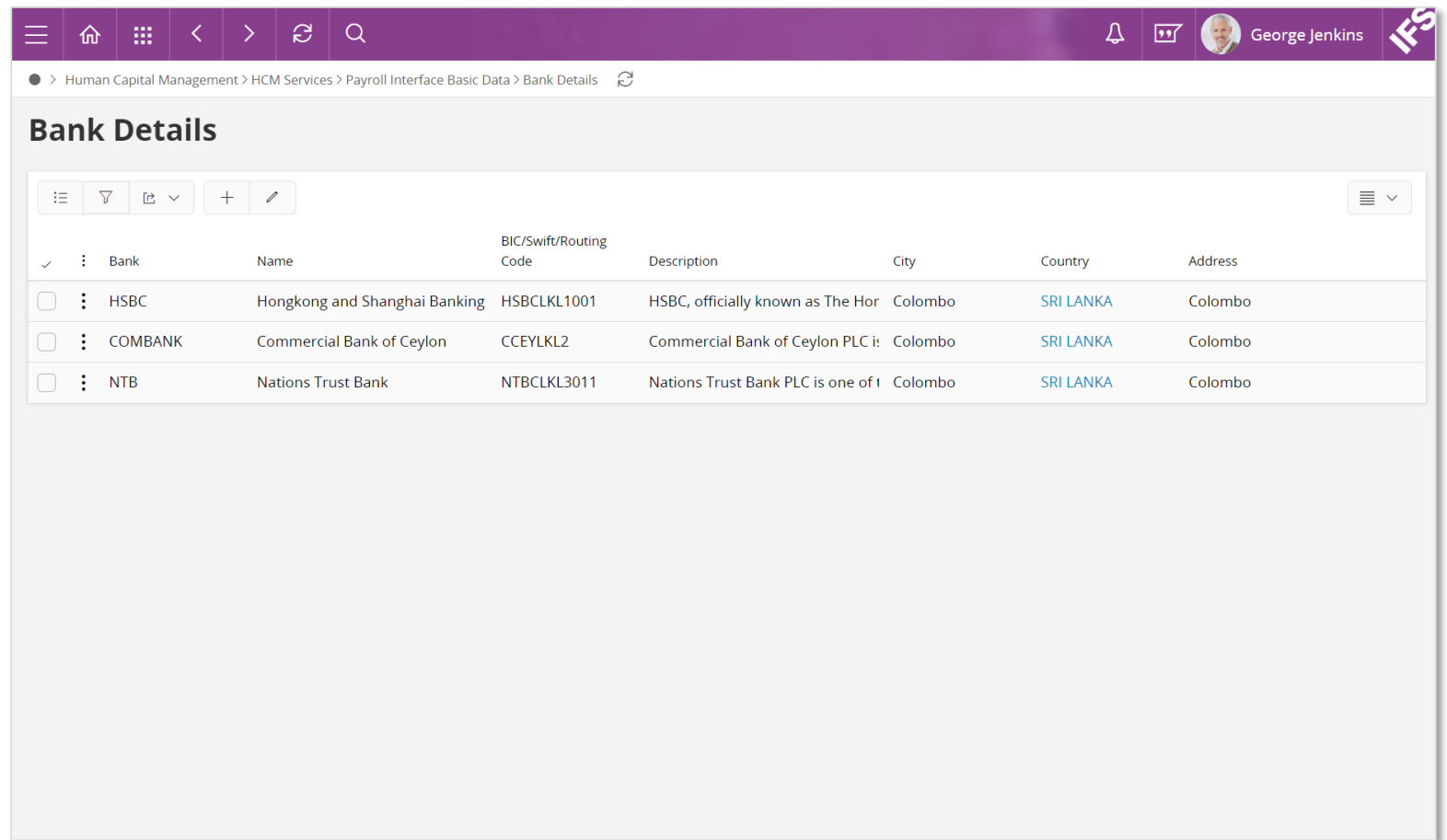
#### Attachments

Additional Payment and Salary Information

# PAYROLL INTEGRATION

## SOLUTION – BANK DETAILS

Define Bank Details



Human Capital Management > HCM Services > Payroll Interface Basic Data > Bank Details

### Bank Details

✓	:	Bank	Name	BIC/Swift/Routing Code	Description	City	Country	Address
<input type="checkbox"/>	:	HSBC	Hongkong and Shanghai Banking	HSBCKLKL1001	HSBC, officially known as The Hor	Colombo	<a href="#">SRI LANKA</a>	Colombo
<input type="checkbox"/>	:	COMBANK	Commercial Bank of Ceylon	CCEYLKL2	Commercial Bank of Ceylon PLC is	Colombo	<a href="#">SRI LANKA</a>	Colombo
<input type="checkbox"/>	:	NTB	Nations Trust Bank	NTBCKLKL3011	Nations Trust Bank PLC is one of 1	Colombo	<a href="#">SRI LANKA</a>	Colombo

# PAYROLL INTEGRATION

## SOLUTION – BANK DETAILS

Bank Details in  
Employee File

The screenshot displays the 'Bank Details' page for George Jenkins (HQ-050) within the IFS HR system. The page is part of the 'Human Capital Management > HCM Services > Employee Management > Employee File > Compensation > Bank Details' navigation path. The user 'George Jenkins' is logged in, and the company is 'Minerals Exploration Company (US)'.

**Bank Details** George Jenkins (HQ-050) ▾

Summary

Name	Employee ID	Person ID	Employee Status	Valid Data Processing Pur...
George Jenkins	HQ-050	GEJEUS	Active	No

Bank Details

✓	:	Bank	Branch	Account	I B A N	Amount	Percentage	Pay Method	Rank (Priority)	Currency	Country
<input type="checkbox"/>	:	HSBC - Hongkong ...	City	7923878789			100 %	Transfer	1		

Attachments ▾

# PAYROLL INTEGRATION

## SOLUTION - ENDPOINTS

The screenshot shows a REST client interface with a GET request to the endpoint: `https://criterionukdep-rnd.ifsworld.com/nt/ifsapplications/projection/v1/PayrollTransactionService.svc/GetPayrollTransactions(PayrollProviderId='CRITERION',ValidFrom=2020-09-01,ValidTo=2020-09-31)`. The request is configured with the following parameters:

- Authorization: OAuth 2.0
- Access Token URL: `https://criterionukdep-rnd.ifsworld.com/auth/realms/greenhousedep`
- Client ID: `IFS_criterion_poc`
- Client Secret: `yQ5CHF9Y2l`
- Scope: `openid`
- Client Authentication: `Send as Basic Auth header`

The dialog box is titled "GET NEW ACCESS TOKEN" and includes a "Request Token" button. The background shows the response body in JSON format, which is partially obscured by the dialog box.



# PAYROLL INTEGRATION

## SOLUTION - ENDPOINTS

GET

https://criterionukdep-rnd.ifsdevworld.com/int/ifsapplications/projection/v1/EmployeeMasterDataService.svc/GetEmployeeMasterData(PayrollProviderId='CRITERION')

Send

Save

Params

Authorization

Headers (9)

Body

Pre-request Script

Tests

Settings

OAuth 2.0

The authorization data will be automatically generated when you send the request. [Learn more about authorization](#)

Add authorization data to

Request Headers

Heads up! These parameters hold sensitive data. To keep this data secure while working in a collaborative environment, we recommend using variables. [Learn more about variables](#)

Access Token

eyJhbGciOiJSUzI1NiIsInR5cCI6IkpXZW50Iiwia2kiOiA6I3bXZzY3JNMDdpRDhpQ2VscmNwc3laYTBl

Available Tokens

Header Prefix

Bearer

Get New Access Token

Body

Cookies

Headers (18)

Test Results

Status: 200 OK

Time: 2.14 s

Size: 15.59 KB

Save Response

Pretty

Raw

Preview

Visualize

JSON

```
1 {
2   "@odata.context": "https://greenhousedep-lkp.rnd.ifsdevworld.com/int/ifsapplications/projection/v1/EmployeeMasterDataService.svc/$metadata#Collection(IfsApp.EmployeeMasterDataService.EmployeeStructure)",
3   "value": [
4     {
5       "CompanyId": "50",
6       "PersonId": "2001",
7       "EmployeeNumber": "2001",
8       "FirstName": "Andrew",
9       "MiddleName": "Weekly",
10      "Prefix": null,
11      "LastName": "Adams",
12      "BirthName": null,
13      "Alias": null,
14      "Initials": null,
15      "Title": "Mr",
16      "DefaultLanguage": null,
17      "DateOfBirth": "1966-06-05",
18      "PlaceOfBirth": "Liverpool",
19      "Gender": "Male",
20      "Country": null,
21      "BloodType": null,
22      "MaritalStatus": "Unmarried",
```

# PAYROLL INTEGRATION

## SOLUTION - ENDPOINTS

Selected Interface  
for the transfer

The screenshot shows the 'Transfer to Payroll' interface in the IFS system. The breadcrumb trail at the top reads: Human Capital Management > HCM Services > Payroll Interface > Transfer to Payroll. The user 'George Jenkins' is logged in. The interface features a progress bar with three steps: 'Transfer Source' (active), 'Transfer Details', and 'Transfer File'. Below this, the 'Interface Details' section contains a dropdown menu for 'Interface' with 'Criterion' selected. The 'Transfer From' section includes three toggle switches: 'Time and Attendance' (on), 'Travel Expense' (off), and 'Job Rate Management' (off). At the bottom, there are buttons for 'Previous', 'Next', 'Finish', and 'Cancel'.

# PAYROLL INTEGRATION

## SOLUTION - ENDPOINTS

The screenshot displays a REST client interface for a GET request to the endpoint: `https://criterionukdep-rnd.ifsdevworld.com/int/ifsapplications/projection/v1/PayrollTransactionService.svc/GetPayrollTransactions(PayrollProviderId='CRITERION',ValidFrom=2020-09-01,ValidTo=2020-09-31)`. The request is configured with OAuth 2.0 authorization, using an Access Token and a Bearer header prefix. A warning message states: "Heads up! These parameters hold sensitive data. To keep this data secure while working in a collaborative environment, we recommend using variables. [Learn more about variables](#)".

The response is a JSON object with the following structure:

```
1  {
2    "@odata.context": "https://greenhousedep-1kp.rnd.ifsdevworld.com/int/ifsapplications/projection/v1/PayrollTransactionService.svc/$metadata#Collection(IfsApp.PayrollTransactionService.PayrollStructure)",
3    "value": [
4      {
5        "ForeignTrnId": 200001,
6        "RowNumber": 7,
7        "CompanyId": "50",
8        "EmployeeNumber": "2001",
9        "TrnType": null,
10       "Hours": 8,
11       "Days": null,
12       "FromTime": "2020-09-07",
13       "ToTime": "2020-09-07",
14       "TrnOperator": null,
15       "CcNo": "401",
16       "TransCode": null,
17       "WorkSchedCode": null,
18       "WageClass": "B1",
19       "WageCode": "01",
20       "Quantity": null,
21       "TrnComment": null,
22       "Price": null,

```



**#forthechallengers**