

**Oracle® Warehouse Workforce  
Management Cloud**

Getting Started Guide

Release 3.0

Part No. E89597-01

August 2017



# Copyright Notice

Oracle® Warehouse Workforce Management Cloud Getting Started Guide, Release 3.0

Part No. E89597-01

Copyright © 2016, 2017, Oracle and/or its affiliates. All rights reserved.

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish, or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

If this is software or related documentation that is delivered to the U.S. Government or anyone licensing it on behalf of the U.S. Government, then the following notice is applicable:

U.S. GOVERNMENT END USERS: Oracle programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, delivered to U.S. Government end users are "commercial computer software" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, use, duplication, disclosure, modification, and adaptation of the programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, shall be subject to license terms and license restrictions applicable to the programs. No other rights are granted to the U.S. Government.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate fail-safe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

Intel and Intel Xeon are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. AMD, Opteron, the AMD logo, and the AMD Opteron logo are trademarks or registered trademarks of Advanced Micro Devices. UNIX is a registered trademark of The Open Group.

This software or hardware and documentation may provide access to or information about content, products, and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services unless otherwise set forth in an applicable agreement between you and Oracle. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services, except as set forth in an applicable agreement between you and Oracle.

## Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc>.

## Access to Oracle Support

Oracle customers that have purchased support have access to electronic support through My Oracle Support. For information, visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info> or visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs> if you are hearing impaired.

# Contents

|  |             |
|--|-------------|
| <b>COPYRIGHT NOTICE</b> .....  | <b>III</b>  |
| <b>CONTENTS</b> .....  | <b>IV</b>   |
| <b>SEND US YOUR COMMENTS</b> .....   | <b>V</b>    |
| <b>PREFACE</b> .....   | <b>VI</b>   |
| <b>CHANGE HISTORY</b> .....  | <b>VI</b>   |
| <b>1. SYSTEM OVERVIEW</b> .....  | <b>1-1</b>  |
| <b>1.1 PARENT-CHILD COMPANY HIERARCHY</b> .....                              | <b>1-1</b>  |
| <b>1.2 USER MENU CONFIGURATION</b> .....                                     | <b>1-2</b>  |
| 1.2.1 USERS, GROUPS AND MENUS .....  | 1-2         |
| 1.2.2 WHAT IS A UI MENU? .....   | 1-2         |
| 1.2.3 WHAT IS AN RF MENU? .....  | 1-3         |
| 1.2.4 CREATING USERS .....   | 1-4         |
| 1.2.5 CONFIGURING MENUS FOR USERS .....                                      | 1-7         |
| <b>1.3 SYSTEM INTEGRATION FRAMEWORK</b> .....                                | <b>1-11</b> |
| 1.3.1 SUPPORTED FORMATS .....  | 1-12        |
| 1.3.2 INPUT INTERFACES .....   | 1-12        |
| 1.3.3 UPLOADING INTERFACE FILES WITH ORACLE WORKFORCE MANAGEMENT CLOUD ..... | 1-12        |
| <b>2. CLOCK IN/OUT</b> .....   | <b>2-1</b>  |
| <b>2.1 WHAT IS CLOCK IN/OUT?</b> .....                                       | <b>2-1</b>  |
| <b>2.2 UI CLOCK SCREEN</b> .....   | <b>2-1</b>  |
| <b>2.3 CLOCKING PROCESS FLOW</b> .....                                       | <b>2-1</b>  |
| <b>3. INTEGRATION OF WMS WITH WFM</b> .....                                  | <b>3-1</b>  |
| <b>3.1 WMS ACTIVITY</b> .....  | <b>3-1</b>  |
| <b>3.2 DATA FLOW FROM WMS TO WFM USING ETL</b> .....                         | <b>3-1</b>  |
| <b>4. WFM REPORTS</b> .....  | <b>4-1</b>  |
| <b>5. APPENDIX</b> .....   | <b>5-1</b>  |
| <b>4.1 ROLES AND PERMISSIONS</b> .....                                       | <b>5-1</b>  |
| <b>4.2 CLOCKING MODES</b> .....  | <b>5-2</b>  |

## Send Us Your Comments

Oracle® Warehouse Workforce Management Cloud Getting Started Guide, Release 3.0

Part No. E89597-01

Oracle welcomes your comments and suggestions on the quality and usefulness of this publication. Your input is an important part of the information used for revision.

- Did you find any errors?
- Is the information clearly presented?
- Do you need more information? If so, where?
- Are the examples correct? Do you need more examples?
- What features did you like most about this manual?

If you find any errors or have any other suggestions for improvement, please indicate the title and part number of the documentation and the chapter, section, and page number (if available). You can send comments to us in the following ways:

- Electronic mail: "Email Id"

If you would like a reply, please give your name, address, telephone number, and electronic mail address (optional).

If you have problems with the software, contact Support at <https://support.oracle.com> or find the Support phone number for your region at <http://www.oracle.com/support/contact.html>.

## Preface

This document provides you the basic instructions on basic user configuration for Oracle Workforce Management Cloud. Oracle Workforce Management Cloud was formerly known as LogFire Workforce Management.

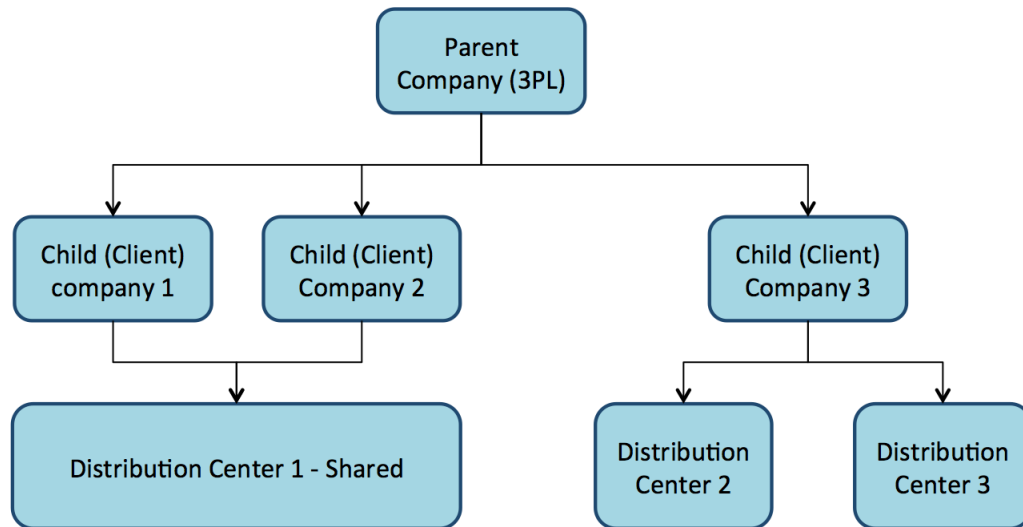
## Change History

| Date    | Document Revision | Summary of Changes   |
|---------|-------------------|----------------------|
| 08/2017 | 01                | Initial publication. |
|         |                   |                      |
|         |                   |                      |
|         |                   |                      |
|         |                   |                      |

# 1. System Overview

## 1.1 Parent-Child Company Hierarchy

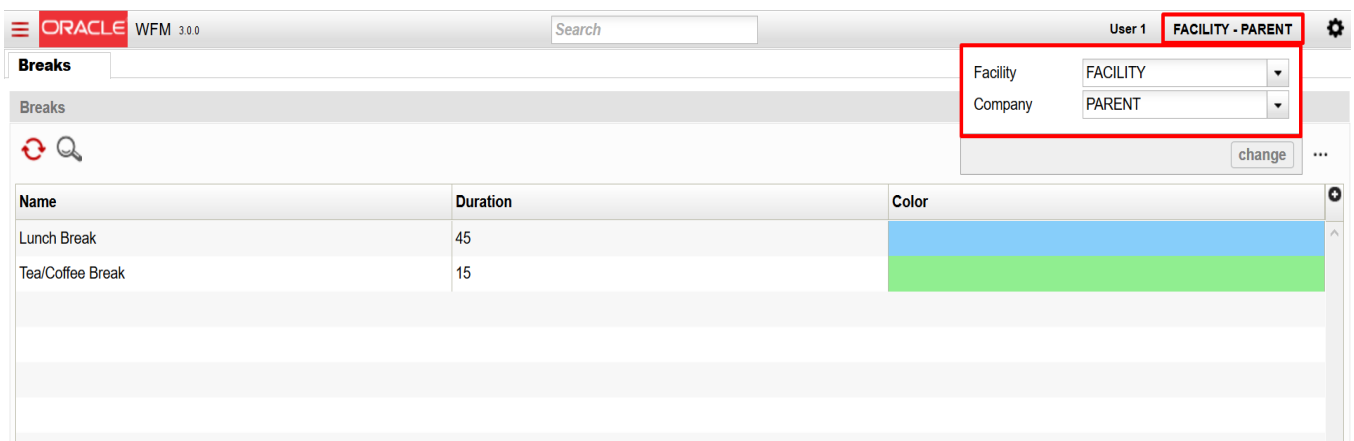
In Oracle Workforce Management Cloud, companies are divided into parent and child companies. This structure exists in order to help 3PLs view and manage their clients' workforce separately. Depending on how many clients and how many warehouses the 3PL has, views can be managed.



**Figure 1-1: Parent-Child Company Example Diagram**

To toggle a specific Distribution Center (DC) view for a company, select the choices from the two dropdown menus located at the top right of the UI screen.

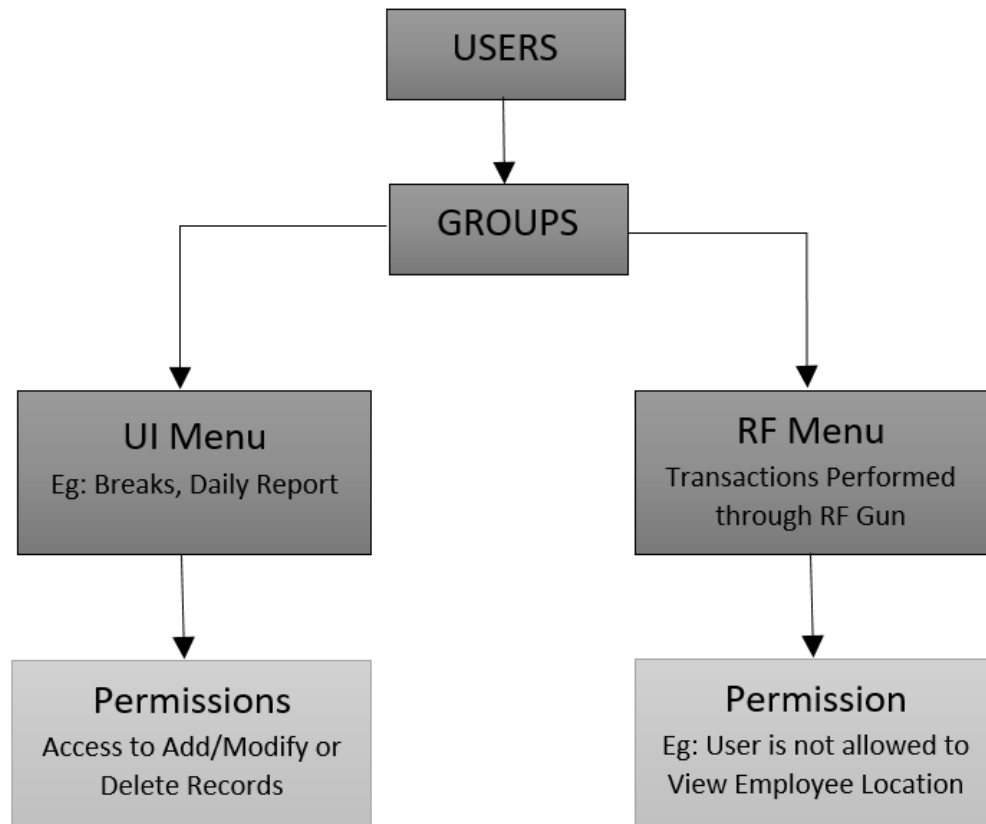
In Figure 1-2, the first dropdown denotes a facility (DC), while the second dropdown denotes the companies in the environment:



**Figure 1-2: Facility and Company Views from the UI**

## 1.2 User Menu Configuration

The Oracle Workforce Management Cloud organizes your structure in the following way:



**Figure 1-3: User, Group and Menu Organization**

### 1.2.1 Users, Groups and Menus

Users are separated into groups based on their operational purpose in the warehouse. Every user within a group shares the same user interface (UI) and radio frequency (RF) menus. Within each menu, you can configure your permissions and parameters for RF menus.

### 1.2.2 What is a UI menu?

The UI menu is a series of windows and dialog boxes that are accessible to you in the WFM via the browser. See Figure 1-4.



| User         | SKU Line Gr | WMS Transaction   | Date       | Nbr Units | Nbr LPNs | Nbr Pallets | Duration | Create Timestamp       |
|--------------|-------------|-------------------|------------|-----------|----------|-------------|----------|------------------------|
| lgf_ppranesh | LIGHT       | Receive Load      | 02/06/2017 | 2000      | 1        | 1           | 665      | 02/06/2017 7:40:14 ... |
| lgf_ppranesh | MEDIUM      | Receive Load      | 02/06/2017 | 1000      | 1        | 1           | 1        | 02/06/2017 7:40:14 ... |
| lgf_ppranesh | HEAVY       | Receive Load      | 02/06/2017 | 800       | 1        | 1           | 2        | 02/06/2017 7:40:13 ... |
| lgf_ppranesh | LIGHT       | Putaway to Active | 02/06/2017 | 2000      | 1        | 1           | 2886     | 02/06/2017 7:40:12 ... |

**Figure 1-4: Workforce Management System (WFM) User Interface (UI) Menu**

Note: When using the RF gun, you must ensure that the RF is in the correct facility. This can be seen at the top right of the RF menu management.

### 1.2.3 What is an RF menu?

The RF menu is the series of transactions that are made with the RF gun on the warehouse floor. These screens, or modules, are used to perform processes such as Clocking, Break, and Employee Inquiry.

LogFire FACILITY/PAR

- 1) Clock In/Out
  - 2) VAS
  - 3) Manual
  - 4) Start break
  - 5) End break
  - 6) Employee Inq
- Choice: \_\_

Env:

Ctrl-T: Switch work area  
 Ctrl-X: Exit App  
 Ctrl-W: Previous screen

**Figure 1-5: RF Menu**

```
LogFire  FACILITY PAR
Employee Inquiry

User: _____
```

```
Env:
Ctrl-X: Exit App
Ctrl-W: Previous screen
```

### Figure 1-6: Validating Your Current Facility in the RF

Note: To change facilities, press Ctrl-F and type in the Facility code.

## 1.2.4 Creating Users

New users can be created through user's screen where you can define the following:

- Username and password
- The facilities and companies you have access for
- Your role (Administrator, Management, Supervisor, etc.)
- Your default group (UI and RF Menus)
- Your language (English or Spanish)
- Your fixed equipment type


### Creating New Users

1. On the Users screen.
2. **Click the Create  button and populate the necessary fields:**

|                         |   |
|-------------------------|---|
| Active                  | <input checked="" type="checkbox"/>         |
| Login *                 | <input type="text" value="Username"/>       |
| First Name *            | <input type="text" value="Name"/>           |
| Last Name *             | <input type="text" value="Surname"/>        |
| Password                | <input type="text" value="password123"/>    |
| password_life_in_days * | <input type="text" value="0"/>              |
| RUT *                   | <input type="text" value="12345678"/>       |
| Type *                  | <input type="text" value="Internal"/>       |
| Hire Date *             | <input type="text" value="01/01/2015"/>     |
| Hourly Wage             | <input type="text"/>                        |
| E Hour Wage             | <input type="text"/>                        |
| Facility *              | <input type="text" value="(None)"/>         |
| Company *               | <input type="text" value="(None)"/>         |
| Shift *                 | <input type="text" value="DEFAULT"/>        |
| Role *                  | <input type="text" value="ADMINISTRATOR"/>  |
| Language *              | <input type="text" value="English"/>        |
| Default group           | <input type="text" value="LGF Super User"/> |
| Default label printer   | <input type="text"/>                        |

**Figure 1-7: Creating New Users**

#### Description of Fields for Users

- **RUT:** Unique identifier (alphanumeric). Must be same for both WMS and WFM Product.
  - **Type:** Field used to distinguish between internal and external users.
  - **Facility:** Defines the default Facility that you is displayed upon login.
  - **Company:** Defines the default company that you is displayed upon login.
  - **Shift:** Defines your shift, if applicable. Shifts are created in the Shifts screen, which defines the start and end time.
  - **Role:** Defines your role in the warehouse. Each role has a different set of permissions for viewing reports in Oracle Workforce Management Cloud (UI permissions only).
  - **Language:** Sets your language (English or Spanish).
  - **Default Group:** Defines the default group that you display upon login. Users can be assigned to multiple groups via the Groups button. If a user is assigned to multiple groups, you can switch Group views by clicking the  gear button on the top right and then clicking View, and finally selecting the desired Group.
3. **Click Save when done.**
  4. **To configure the Facilities and Companies that he user has access to, select user and click the Eligible Facilities & Eligible Companies buttons. This takes you to a new screen displaying all records you currently have access to view.**

ORACLE

WFM 3.0.0

Search

User 1

FACILITY - PARENT

Users

Users

Eligible Facilities

Eligible Companies

Work Areas

Groups

assign\_equipment\_type

| Active | Login        | First Name | Last Name | password_life | i_RUT     | Type     | Hire Date       | Hourly Wage | E Hour Wage | Groups        | Facility Code | Comp  |
|--------|--------------|------------|-----------|---------------|-----------|----------|-----------------|-------------|-------------|---------------|---------------|-------|
| Yes    | lgf_ppranesh | User       | 1         | 0             | 4444312   | Internal | 02/05/2017 1... | 0           | 0           | MASTER,Co...  | FACILITY      | PAREN |
| Yes    | lgfmgmt      | LogFire    | Support   | 3600          | 12346790  | External | 10/12/2014 1... | 0           | 0           | Configuracion | FACILITY      | PAREN |
| Yes    | lgf_lvenable | Luke       | Venable   | 365           | 2323      | External | 01/06/2017 1... | 0           | 0           |               | FACILITY      | PAREN |
| Yes    | lgf_kmoghe   | Kunal      | Moghe     | 0             | 123456789 | Internal | 02/05/2017 1... | 0           | 0           |               | FACILITY      | PAREN |
| Yes    | lgf_bperez   | Beatriz    | Perez     | 0             | 12345     | Internal | 02/05/2017 1... | 0           | 0           |               | FACILITY      | PAREN |

**Figure 1-8: Viewing Your Eligible Facilities/Companies**

- Click the **Create** button to add new Facilities or Companies.

| Users        |          |          |                        |
|--------------|----------|----------|------------------------|
| Users        |          |          |                        |
| User         | Facility | Name     | Create Timestamp       |
| lgf_ppranesh | FACILITY | FACILITY | 02/06/2017 12:40:07 AM |
| lgf_ppranesh | SL       | SL       | 02/06/2017 2:21:26 AM  |
| lgf_ppranesh | ATL8     | ATL8     | 02/06/2017 2:21:05 AM  |

**Figure 1-9: Updating Your Eligible Records**

- When finished, click Back to return to the main screen.
- To assign Equipment Types to a user:
  - Select user.
  - Click on Assign Equipment Type
  - Select an Equipment Type from the dropdown menu.
  - Click on submit.

| Users  |              |            |           |               |          |          |                 |             |             |               |               |      |
|--|--------------|------------|-----------|---------------|----------|----------|-----------------|-------------|-------------|---------------|---------------|------|
| Users  |              |            |           |               |          |          |                 |             |             |               |               |      |
| <div> <div>Eligible Facilities</div> <div>Eligible Companies</div> <div>Work Areas</div> <div>Groups</div> <div>assign_equipment_type</div> </div> |              |            |           |               |          |          |                 |             |             |               |               |      |
| Active   | Login        | First Name | Last Name | password_life | RUT      | Type     | Hire Date       | Hourly Wage | E Hour Wage | Groups        | Facility Code | Comp |
| Yes  | lgf_ppranesh | User       | 1         | 0             | 4444312  | Internal | 02/05/2017 1... | 0           | 0           | MASTER,Co...  | FACILITY      | PARE |
| Yes  | lgfmgmt      | LogFire    | Support   | 3600          | 12346790 | External | 10/12/2014 1... | 0           | 0           | Configuracion | FACILITY      | PARE |

assign\_equipment\_type

assign\_equipment\_type

submit

Cancel

**Figure 1-10: Assigning Users with Equipment Types**


Note: Equipment Types must first be defined in the Equipment Types screen before assigning them to users.

## 1.2.5 Configuring Menus for Users

There are five steps in adding Group menus.

- Adding Screens
- Adding Screens to different Menus
- Assigning Menus to Groups
- Assigning Groups to Users
- Creating and Assigning Facilities & Companies to Users

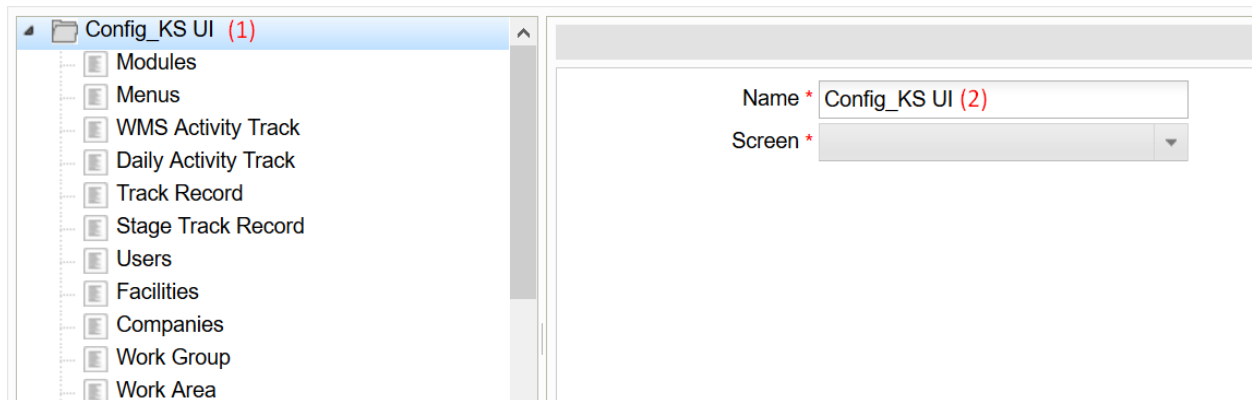
### Adding Screens

1. **On the Screens UI screen, click Generate Screens.**
2. Select all the necessary screens for the Group (eg. Productivity Report, Break Report etc.).
3. You add both UI and RF screens.
4. Note: For RF menus, extra configuration might be required (RF module parameters). To modify its parameters, select the RF screen and click the Details  button.
5. Click Save when done.

### Adding Screens to Different Menus

On the Menu screen, to create a new menu (one for the UI and the RF):

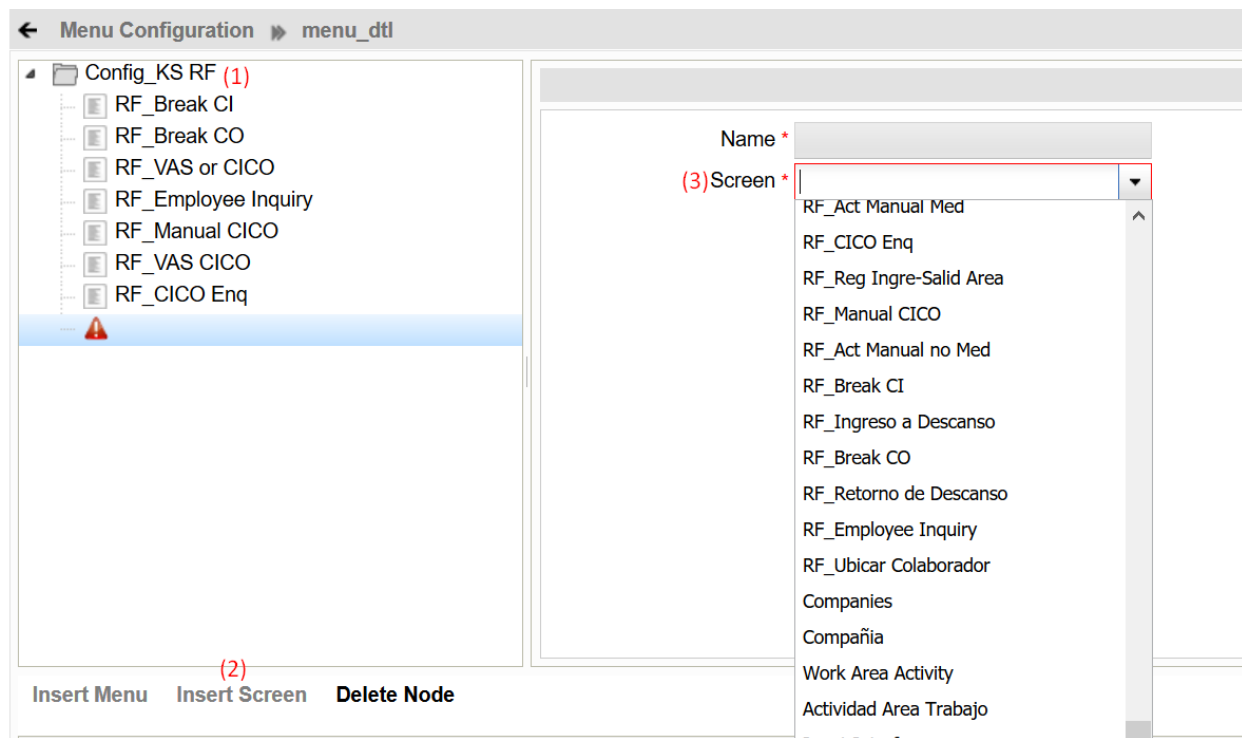
1. Select the menu and click on the Details  button. In the new dialog box, you are able to separate screens into different folders.



**Figure 1-11: Naming Folders**

To name a folder:

1. Select the folder (1)
2. Type in the name in the field to the right (2).




**Figure 1-12: Adding Screens to a Folder**

To add a screen within the folder:

1. Select the folder first (1).
2. **Click Insert Screen (2).**
3. Pick the screen to add from the dropdown menu (3).
4. Repeat steps until all the screens have been added.
5. **Click Save to complete.**

## Assigning Menus to Groups

Once the Menus have been set up, it is now time to add them to Groups. On the Groups screen:

1. **Click the Create  button to create a new group.**
2. Type in the group name.
3. Select the UI/RF menus from the dropdown menus.
4. **Click Save.**  
 Note: You can also assign specific permissions to a Group by clicking the Permissions button. This displays a list of additional permissions that the group can access. To provide access, check the activity.

| Group Configuration  |           |              |              |
|--|-----------|--------------|--------------|
| <div> <div>Permissions</div> <div>clear_view_preferences</div> </div> <div> </div> |           |              |              |
| Company  | Name      | UI Menu      | RF Menu      |
| PARENT   | Config_KS | Config_KS UI | Config_KS RF |
| PARENT   | LOG       | LOG          |              |

**Figure 1-13: Accessing a Group's Permissions**

Group Configuration
Permissions

☐ ait / Run Query
☐ lgfhelp / Edit Company help
☐ lgfhelp / Edit Logfire help
☐ menu / Add Menu
☐ menu / Change App
☐ menu / Change Menu
☐ menu / Delete Menu
☐ permission / Can Edit Track Record
☐ printer / Add Printer
☐ printer / Change Printer
☐ printer / Delete Printer
☐ reports / Can download reports
☐ shift / Can add shifts
☐ shift / Can change shifts
☐ shift / Can delete shifts
☐ view\_preferences / Can add/remove cols to views
☐ view\_preferences / Can modify menus
☐ view\_preferences / Can re-order cols in views
☐ view\_preferences / Can save company default menu

Save
Cancel

**Figure 1-14: List of Permission Activities**

## Assigning Groups to Users

Now that Groups have been created, you now adds users to each group. On the User screen:

1. Select a user to assign to a group.
2. **Click on Groups.**
3. Using the Create button, add the Group(s) to assign the user to the Group.  
Note: If the user is assigned to multiple groups, you can toggle between different groups by clicking the gear button at the top right, hovering the mouse over the View menu, and selecting the Group name.

## Creating and Assigning Facilities & Companies to Users

Once user and group setup is complete, you must create facilities and companies in Oracle Workforce Management Cloud.

To create companies, on the Companies screen:

1. **Click the Create button.**
2. Populate the company's information such as the Code, Name, and Address.

Note: The first company is the parent company in the environment by default. To verify this, observe the Parent Company column.




| Company Code | Company Name | Type    | Address 1       | Address 2 | address_3 | Locality | City        | State | ZIP   | Country | phone_nbr    | email |
|--------------|--------------|---------|-----------------|-----------|-----------|----------|-------------|-------|-------|---------|--------------|-------|
| PARENT       | Logfire      | Regular | 1125 Newton ... |           |           |          | Summerville | SC    | 29483 | US      | 843-708-5574 |       |

**Figure 1-15: Parent Company**


3. **Click Save when complete.**

Facilities are controlled at the company level. This means that every company has its own set of facilities. This link is defined in the Parent Company column in the Facilities screen. By default, all parent and child company facilities are displayed.


To Create Facilities, on the Facilities screen:

1. Click the Create  button.
2. Populate the facility's information such as the Code, Name, and Address.
3. Functional Field Descriptions for Facilities
  - **Parent Company:** Denotes the company that the facility belongs to.

Once the Companies and Facilities have been created, the next task is to assign them to users. This task defines the companies and facilities that you have access to. On your screen:

1. Select the user to modify.
2. **Click on Eligible Facilities button.**
3. Using the Create  button.
4. Add the Facilities that this user requires to access.

To add companies:

5. Select you to modify.
6. Click the Eligible Companies button
7. Using the Create  button.
8. **Add the Facilities that this user requires to access.**



| Users  |              |            |           |                 |         |          |                 |             |             |              |               |       |
|--------|--------------|------------|-----------|-----------------|---------|----------|-----------------|-------------|-------------|--------------|---------------|-------|
| Active | Login        | First Name | Last Name | password_life_i | RUT     | Type     | Hire Date       | Hourly Wage | E Hour Wage | Groups       | Facility Code | Comp  |
| Yes    | lgf_ppranesh | User       | 1         | 0               | 4444312 | Internal | 02/05/2017 1... | 0           | 0           | MASTER,Co... | FACILITY      | PAREN |

| Users » Eligible Facilities |          |          |                        |
|-----------------------------|----------|----------|------------------------|
| User                        | Facility | Name     | Create Timestamp       |
| lgf_ppranesh                | FACILITY | FACILITY | 02/06/2017 12:40:07 AM |
| lgf_ppranesh                | SL       | SL       | 02/06/2017 2:21:26 AM  |
| lgf_ppranesh                | ATL8     | ATL8     | 02/06/2017 2:21:05 AM  |
| lgf_ppranesh                | MKC4     | MKC4     | 02/06/2017 2:21:19 AM  |

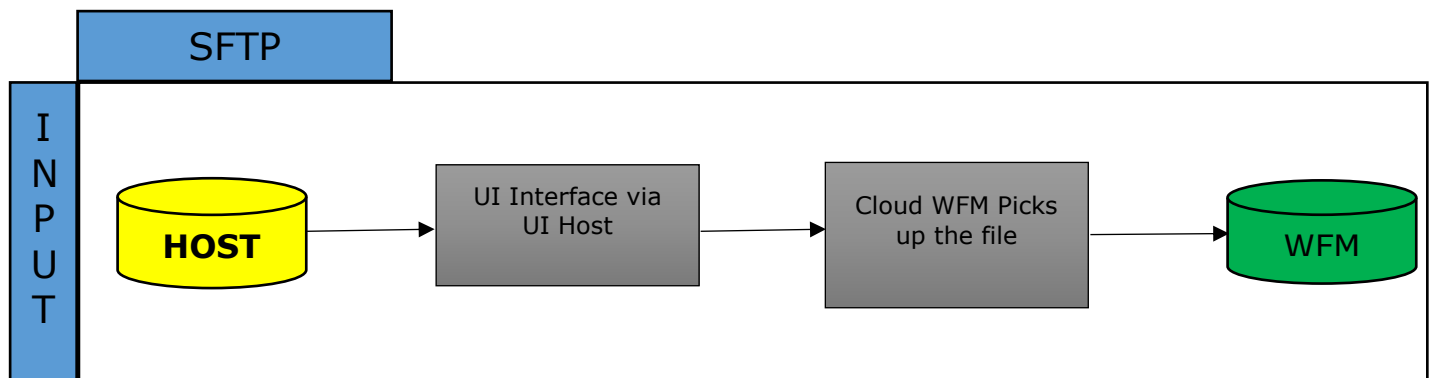
  

| Users » Eligible Companies |         |              |                        |
|----------------------------|---------|--------------|------------------------|
| User                       | Company | Company Name | Create Timestamp       |
| lgf_ppranesh               | PARENT  | Logfire      | 02/06/2017 12:40:07 AM |

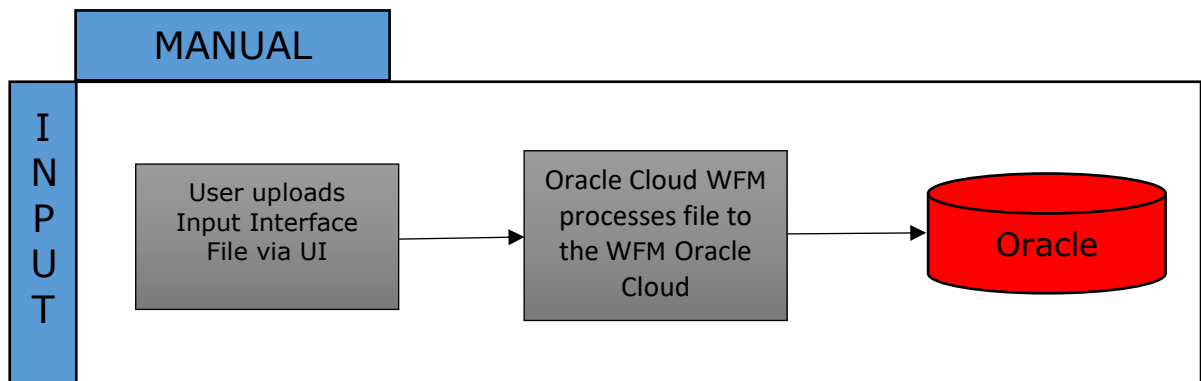
**Figure 1-16: Assigning Users to Facilities and Companies**

## 1.3 System Integration Framework

Oracle Workforce Management Cloud uses the following methods for processing interface files into Oracle Workforce Management Cloud:



**Figure 1-17: SFTP Method in Oracle Workforce Management Cloud**



**Figure 1-18: Interfacing Methods in Oracle Workforce Management Cloud**

### **1.3.1 Supported Formats**

Oracle Workforce Management Cloud supports the following formats with interfaces:

- Flat files
- XML files
- CSV files
- XLS files

### **1.3.2 Input Interfaces**

- User
- Sku Lines.
- Prod Goal Line
- Prod Goal VAS
- Clock

### **1.3.3 Uploading Interface Files with Oracle Workforce Management Cloud**

If you are manually preparing the input interface file via Excel, it is important to follow these best practices:

- The filename must start with the phrase as specified in the Input File Formats document (the filename must begin with USR for uploading User files).
- The columns specified as required in the interface specification document must be populated.
- You must populate the correct sequence in the seq\_nbr field (i.e. no duplicate values).

## 2. Clock In/Out

### 2.1 What is Clock In/Out?

Clocking is a process that is done in order to ensure the time stamps of every user entering and exiting the Warehouse.

Clocking is usually done by an external system in the warehouse, if there is no external time management system the user must ensure to clock into the respective work area. If the user is not clocked in then any activities performed by the user will be unaccounted in cloud WFM.

### 2.2 UI Clock Screen

The user can select an option in the [clocking mode](#) to clock in/out, and once all parameters have been selected using the drop downs, he can click clock in/out.

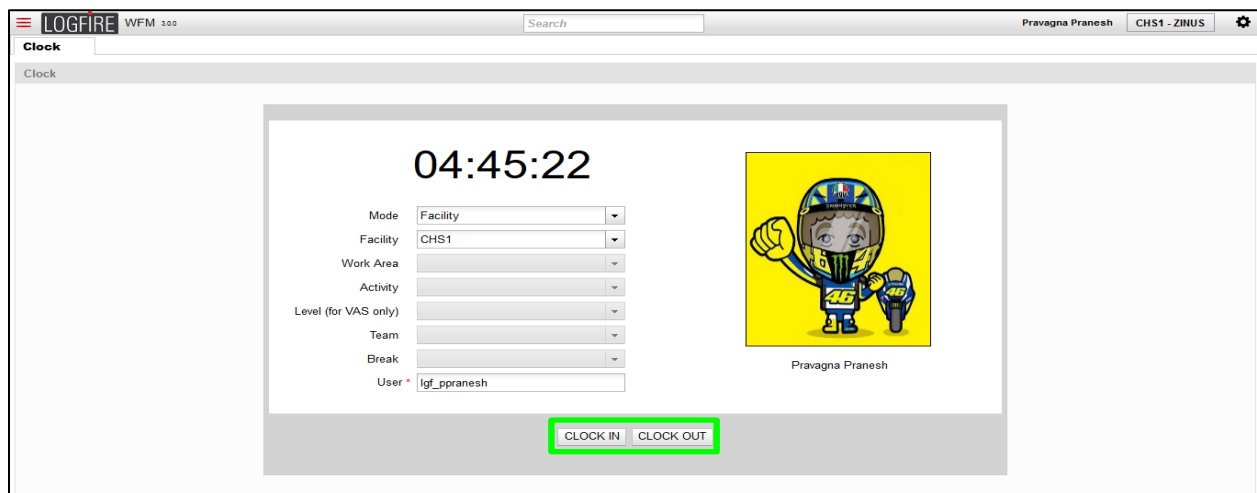


Figure 2-1: UI- Clock Screen

### 2.3 Clocking Process Flow

Users with the Employee Profile must follow the following flow while performing any transaction.

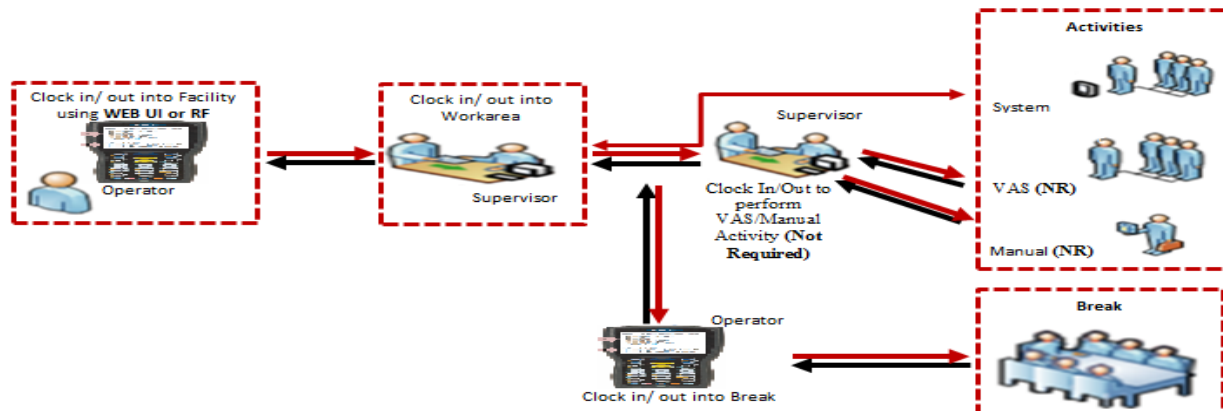


Figure 2-2: Clocking Process Flow

## 3. Integration of WMS with WFM

### 3.1 WMS Activity

For transactions to move from WMS to WFM, the Facility parameter "WRITE\_WMS\_ACTIVITY\_RECORD" in WMS must be set to "YES". This parameter will allow transaction details to be logged in the WMS\_ACTIVITY tables in WMS database. Transaction data will remain in these tables only for a brief period of time, since it must be purged from time to time so as not to impair the performance of the WMS.

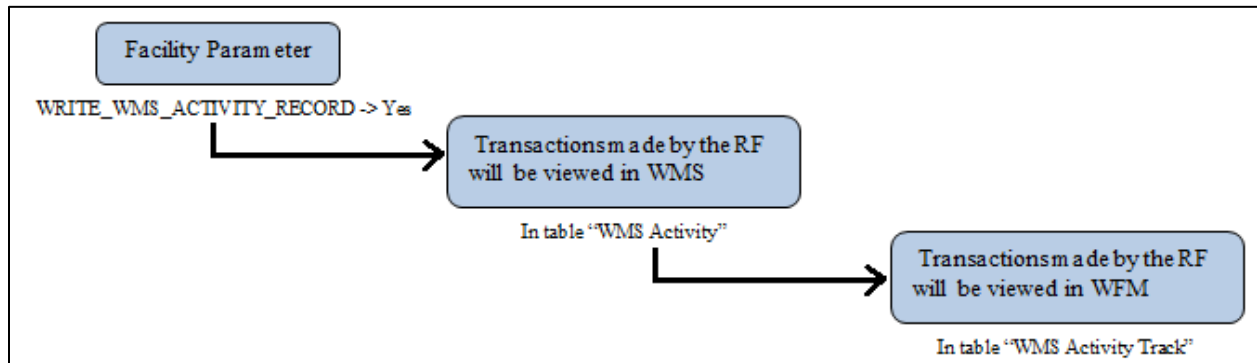


Figure 3-1: UI – WMS Activity

One of the integration touch point between the WMS and WFM is the "SKU Line" which is used for grouping of articles with reasonably similar physical characteristics that is created to segment the item master. The SKU LINE can take any field that comes within the item master that is sent by interface. To have the SKU LINE field in the WMS, the company parameter "ITEM\_INTF\_SKU\_LINE\_MAP\_FIELD", used with the name of the field selected in the item master.

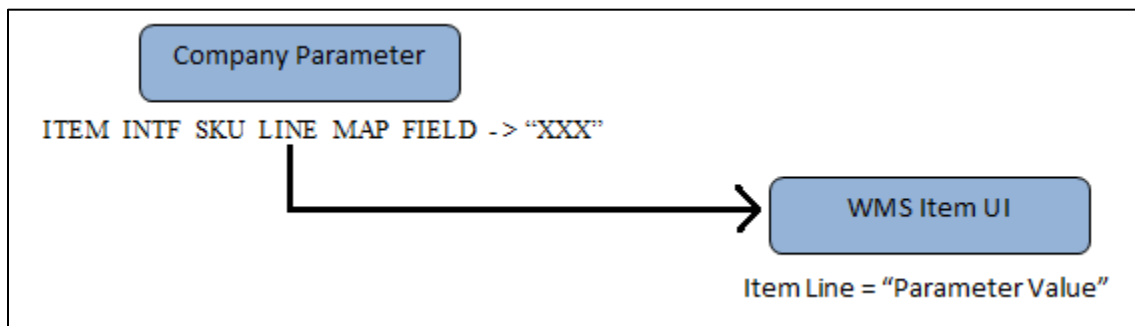


Figure 3-2: UI – SKU\_LIN

## 3.2 Data Flow from WMS to WFM using ETL

The ETL SCRIPT can be scheduled run and fetch WMS Activity data based on customer's requirement from WMS to the WFM.

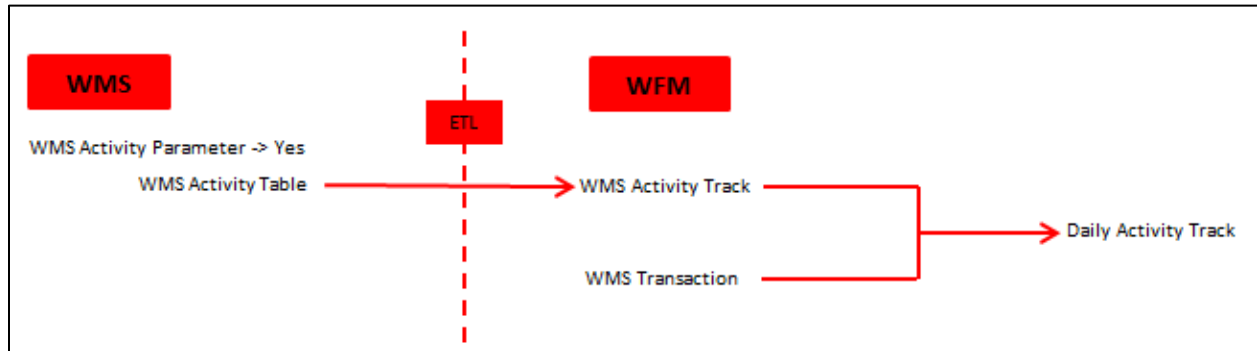


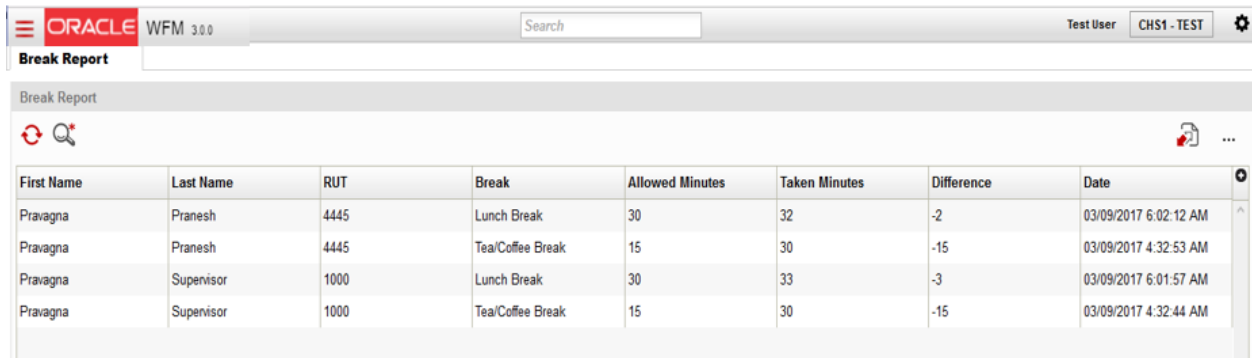
Figure 3-3: UI – Data flow from WMS

## 4. WFM Reports

There are several reports in WFM that help and provide information regarding Users and their productivity.

A few sample reports are as below:

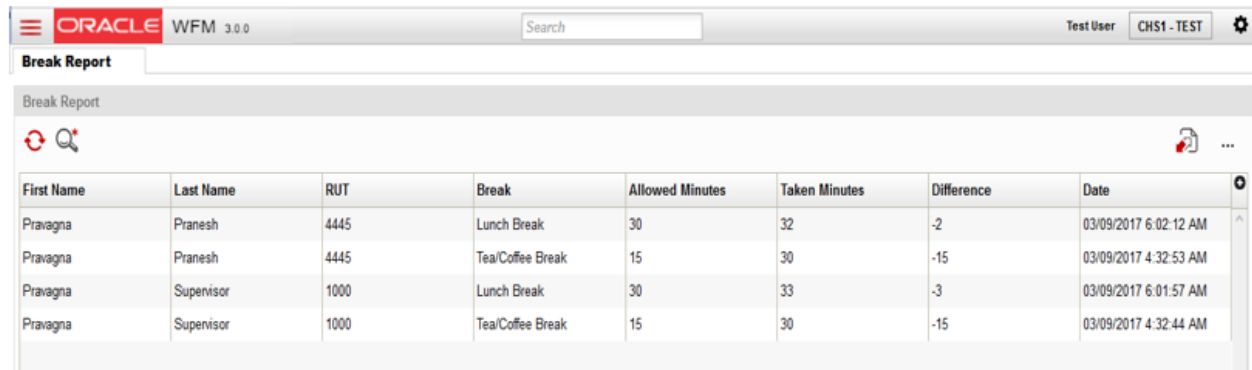
Daily Report: This Report shows the duration of the Activities and Breaks in form of a bar graph.



| First Name | Last Name  | RUT  | Break            | Allowed Minutes | Taken Minutes | Difference | Date                  |
|------------|------------|------|------------------|-----------------|---------------|------------|-----------------------|
| Pravagna   | Pranesh    | 4445 | Lunch Break      | 30              | 32            | -2         | 03/09/2017 6:02:12 AM |
| Pravagna   | Pranesh    | 4445 | Tea/Coffee Break | 15              | 30            | -15        | 03/09/2017 4:32:53 AM |
| Pravagna   | Supervisor | 1000 | Lunch Break      | 30              | 33            | -3         | 03/09/2017 6:01:57 AM |
| Pravagna   | Supervisor | 1000 | Tea/Coffee Break | 15              | 30            | -15        | 03/09/2017 4:32:44 AM |

Figure 4 – 1: Daily Report

Break Report: This Report shows the duration of the Breaks the user takes in the form of a tabular format.



| First Name | Last Name  | RUT  | Break            | Allowed Minutes | Taken Minutes | Difference | Date                  |
|------------|------------|------|------------------|-----------------|---------------|------------|-----------------------|
| Pravagna   | Pranesh    | 4445 | Lunch Break      | 30              | 32            | -2         | 03/09/2017 6:02:12 AM |
| Pravagna   | Pranesh    | 4445 | Tea/Coffee Break | 15              | 30            | -15        | 03/09/2017 4:32:53 AM |
| Pravagna   | Supervisor | 1000 | Lunch Break      | 30              | 33            | -3         | 03/09/2017 6:01:57 AM |
| Pravagna   | Supervisor | 1000 | Tea/Coffee Break | 15              | 30            | -15        | 03/09/2017 4:32:44 AM |

Figure 4-2 : Break Report

Productivity Report: This Report provides the information about the below -

- Activity Performed.
- Number of UOM's (Unit's, Case's or pallets) handled while performing this activity.
- Time spent.

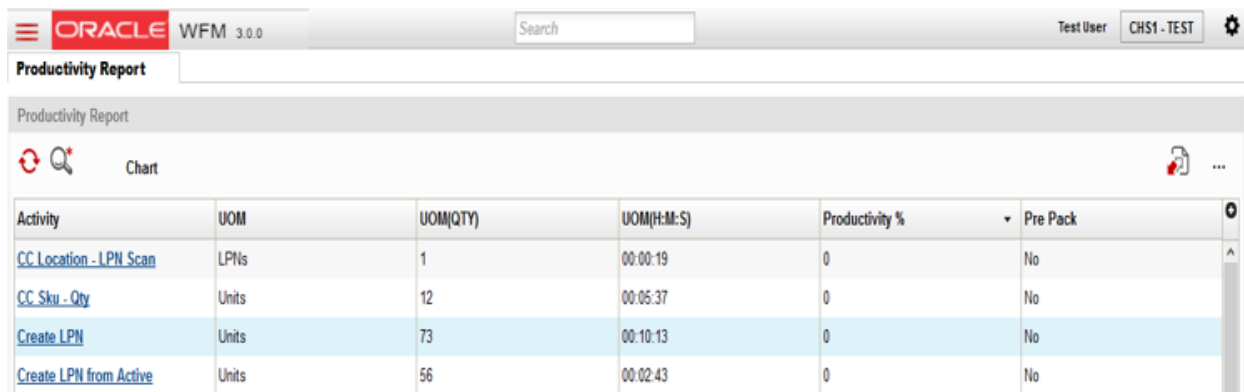


Figure 4-1: Productivity Report

## 5. Appendix

### 4.1 Roles and Permissions

| PERMISSIONS FOR ROLE: ADMINISTRATOR |    |                      |    |                      |
|-------------------------------------|----|----------------------|----|----------------------|
| Add company                         | 10 | Add facility         | 19 | Save company menu    |
| Delete company                      | 11 | Change facility      | 20 | Save group menu      |
| Change company                      | 12 | Delete facility      | 21 | Modify view columns  |
| Add user                            | 13 | Modify view columns  | 22 | Reorder view columns |
| Delete user                         | 14 | Reorder view columns | 23 | Save group view      |
| Change user                         | 15 | Save company view    | 24 | Save user view       |
| Add group                           | 16 | Save group view      | 25 | Modify menus         |
| Delete group                        | 17 | Save user view       | 26 | Save company menu    |
| Change group                        | 18 | Modify menus         | 27 | Save group menu.     |

Note: By default, Administrators have access to all companies that the facility is eligible to access.

| PERMISSIONS FOR ROLE: MANAGEMENT |                      |    |                      |
|----------------------------------|----------------------|----|----------------------|
| 1                                | Change user          | 10 | Modify menus         |
| 2                                | Add user             | 11 | Save group menu      |
| 3                                | Add facility         | 12 | Modify view columns  |
| 4                                | Change facility      | 13 | Reorder view columns |
| 5                                | Delete facility      | 14 | Save group view      |
| 6                                | Modify view columns  | 15 | Save user view       |
| 7                                | Reorder view columns | 16 | Modify menus         |
| 8                                | Save group view      | 17 | Save group menu.     |
| 9                                | Save user view       |    |                      |



| PERMISSIONS FOR ROLE: SUPERVISOR |                      |   |                  |
|----------------------------------|----------------------|---|------------------|
| 1                                | Change user          | 5 | Save group view  |
| 2                                | Change facility      | 6 | Save user view   |
| 3                                | Modify view column   | 7 | Modify menus     |
| 4                                | Reorder view columns | 8 | Save group menu. |

| PERMISSIONS FOR ROLE: GUARD |  |
|-----------------------------|--|
| 1                           | Read-only access; users cannot create, copy, edit or delete. |

| PERMISSIONS FOR ROLE: EMPLOYEE |  |
|--------------------------------|--|
| 1                              | Read-only access; users cannot create, copy, edit or delete. |

Note: These permissions apply for the UI screens only; RF permissions are not affected.

## 4.2 Clocking Modes

| Clocking Modes |           |
|----------------|-----------|
| 1              | Facility  |
| 2              | Work Area |
| 3              | VAS       |
| 4              | Manual    |
| 5              | Break     |

9.