

**Oracle Utilities Extractors and Schema  
for Oracle Utilities Mobile Workforce  
Management**

Data Mapping Guide

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Oracle Utilities Extractors and Schema for Oracle Utilities Mobile Workforce Management Data Mapping Guide

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# Preface

This guide provides the data mapping information from the Oracle Utilities Mobile Workforce Management source system to the Oracle Utilities Extractors and Schema target product.

## Audience

The guide is intended for all implementers of Oracle Utilities Extractors and Schema for Oracle Utilities Mobile Workforce Management.

## Related Documents

For more information, see the following documents:

- *Oracle Utilities Analytics for Oracle Utilities Extractors and Schema and Oracle Utilities Analytics Dashboards Installation Guide*
- *Oracle Utilities Analytics for Oracle Utilities Extractors and Schema and Oracle Utilities Analytics Dashboards Quick Install Guide*
- *Oracle Utilities Analytics for Oracle Utilities Extractors and Schema and Oracle Utilities Analytics Dashboards Release Notes*
- *Oracle Utilities Analytics for Oracle Utilities Extractors and Schema and Oracle Utilities Analytics Dashboards User's Guide*
- *Oracle Utilities Analytics for Oracle Utilities Extractors and Schema and Oracle Utilities Analytics Dashboards Administration Guide*

**See Also:**

- Oracle Mobile Workforce Management Documentation Library

## Notational Conventions

The following notational conventions are used in this document:

<b>Notation</b>	<b>Indicates</b>
<b>boldface</b>	Graphical user interface elements associated with an action, terms defined in text, or terms defined in the glossary
<i>italic</i>	Book titles, emphasis, or placeholder variables for which you supply particular values

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**Notation****Indicates**

monospace

Commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter

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# Chapter 1

## Overview

This guide provides the data mapping information from the Oracle Utilities Mobile Workforce Management source system to the Oracle Utilities Extractors and Schema target product. The guide describes the data mapping between the source system and the target, and the rules of data transformation for Oracle Utilities Extractors and Schema for Oracle Utilities Mobile Workforce Management.

The guide captures the business rules, the data flow mapping, and the data movement requirements.

## Terminologies

The following terms are used for the data maps contained in this document.

### <Presentation Table Name>

The Presentation Table Name lists the default name of the object in OBIEE when no customer modifications have been made to the name of the table. This is the default label seen in answers.

### Properties

The Properties table lists properties of the table independent of each field. The following properties are listed in the table:

Property	Value
Load Table Name	Name of the data warehouse table that the extract file will be loaded into
Table Type	Fact or Dimension
Source System Driver Table	Name of the table in source database from which data is extracted
Source Extendable Lookup Name	Name of the source extended lookup
Source System Extract Program	Name of the program that creates the extract file
SCD Type	Type 1 - Existing records are updated directly Type 2 - Existing records are marked inactive and new records are inserted from the staging file
Fact Type	Whether this is a snapshot or transactional fact table

Property	Value
Stage Table Name	Name of the table in the BI target database that can be used to query the data records from the staging file
Stage File name	Operating system file name that will contain the data records to be loaded into the table. The filename will end in '.DAT'
Control Table Name	Name of the table in the Oracle database that can be used to query the record from the control file
Control File Name	Name of the operating system file that is used as the control file in the extraction. The filename will end in '.CTL'. Control file stores the record count and batch control information. It is used in load validation.
Update Procedure Name	The name of an Oracle procedure that will be used run prior to loading records from the staging data file. Used by Type 2 dimensions to update the Effective End Date value for records that exist in the staging file.
OWB Map Name	Name of the mapping that loads records from the staging file into the database table
OWB Work Flow Name	Name of the process flow that will process the next available staging file and load the records in there into the database table
OWB Work Flow Package Name	Name of the process flow package that contains the process flow
Extract Procedure	Name of the extract program that creates the extract files

## Fields

The Fields table lists the individual properties of each field in the Presentation table or the Database table. The following fields are listed in the tables:

Property	Value
Extract Field	Name of the field in the staging file that stores this data
Length	Length of the extract field in the staging file
Source	Field from source application or stage table or calculation is used to populate the extract field. If blank, then there is no default population of the field in the MWM extracts. If the field is from the source system driver table, then only the field name is mentioned. If the field is from the edge application, then it is prefixed by the edge application table name.
Column	Name of the column in the database table. If blank, then the field is not present in the database table, but is only available from OBIEE.
OBIEE Field	Name of the field in the OBIEE Presentation folder. If blank, then the field is not available by default in OBIEE.
Load	How the data is populated. If the Column field is entered, then this is how the data is loaded in OWB. If the column field is empty, then this contains the calculation in OBIEE that is used by the column.



# Chapter 2

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## Data Maps for Oracle Utilities Mobile Workforce Management

This section contains data maps for the following Oracle Utilities Mobile Workforce Management data:

- **Dimension Extract Programs**
- **Fact Extract Programs**
- **Dimension Table Schema**
- **Fact Table Schema**

# Dimension Extract Programs

## Crew Time Usage Dimension

This extract program retrieves values from the Extendable Lookup table in the Oracle Utilities Mobile Workforce Management system to populate the Crew Time Usage dimension.

### Properties

Property	Value
Load Table Name	CD_CREW_TM_USG
Table Type	Dimension
Source System Driver Table	F1_EXT_LOOKUP_VAL
Source Extendable Lookup Name	M1-CrewTimeUsageLookup
Source System Extract Program - Initial Load	M1-CTUIL
Source System Extract Program - Extract	M1-CTUDX
Stage Table Name	STG_CREW_TM_USG_EXT
Stage File Name	D_CREW_TM_USAGE_EXT.DAT
Control Table Name	D_CREW_TM_USG_EXT.CTL
Control File name	D_CREW_TM_USAGE_EXT.CTL
Update Procedure Name	
OWB Map Name	SPLMAP_D_CREW_TM_USG
OWB Work Flow Name	SPLWF_D_CREW_TM_USG
OWB Work Flow Package Name	DIM_MWM

### Fields (listed in the order they will appear in the flat file)

Extract Field	Length	Source
UPDATED_D'TM	20	Values: Initial Load: 1/1/2000, Incremental Load: Current Date
CHANGE_TYPE_CD	1	Values: I – Insert/Update, D – Deleted
CREW_TM_USG_CD	30	F1_EXT_LOOKUP_VALUE
CREW_TM_USG_DESCR	100	DESCR
PRODUCTIVITY_CD	4	FIELD_VALUE
PRODUCTIVITY_DESCR	100	DESCR
UDF1_CD	30	
UDF1_DESCR	60	
UDF2_CD	30	

<b>Extract Field</b>	<b>Length</b>	<b>Source</b>
UDF2_DESCR	60	
UDF3_CD	30	
UDF3_DESCR	60	
UDF4_CD	30	
UDF4_DESCR	60	
UDF5_CD	30	
UDF5_DESCR	60	
UDF6_CD	30	
UDF6_DESCR	60	
UDF7_CD	30	
UDF7_DESCR	60	
UDF8_CD	30	
UDF8_DESCR	60	
UDF9_CD	30	
UDF9_DESCR	60	
UDF10_CD	30	
UDF10_DESCR	60	
DATA_SOURCE_IND	6	Data Source Indicator value in MWM Feature Config

## Shift Business Object Status Dimension

This extract program retrieves values from the Business Object Status table in the Oracle Utilities Mobile Workforce Management source system to populate the Shift Business Object Status dimension.

### Properties

<b>Property</b>	<b>Value</b>
Load Table Name	CD_SHIFT_BO_STATUS
Table Type	Dimension
Source System Driver Table	F1_BUS_OBJ_STATUS
Source Extendable Lookup Name	
Source System Extract Program - Initial Load	M1-SBSIL
Source System Extract Program - Extract	M1-SBSDX
Stage Table Name	STG_SHIFT_BO_STATUS_EXT

Property	Value
Stage File Name	D_SHIFT_BO_STATUS_EXT.DAT
Control Table Name	STG_SHIFT_BO_STATUS_CTL_EXT
Control File name	D_SHIFT_BO_STATUS_EXT.CTL
Update Procedure Name	
OWB Map Name	SPLMAP_D_SHIFT_BO_STATUS
OWB Work Flow Name	SPLWF_D_SHIFT_BO_STATUS
OWB Work Flow Package Name	DIM_MWM

### Fields (listed in the order they will appear in the flat file)

Extract Field	Length	Source
UPDATED_D'TM	20	Values: Initial Load: 1/1/2000, Incremental Load: Current Date
CHANGE_TYPE_CD	1	Values: I – Insert/Update, D – Deleted
BUS_OBJ_CD	30	BUS_OBJ_CD
BUS_OBJ_DESCR	100	DESCR
STATUS_CD	12	BO_STATUS_CD
STATUS_DESCR	100	DESCR
STATUS_COND_CD	4	BO_STATUS_COND_FLG
STATUS_COND_DESCR	100	DESCR
REASON_CD	30	BO_STATUS_REASON_CD
REASON_DESCR	100	DESCR
UDF1_CD	30	
UDF1_DESCR	60	
UDF2_CD	30	
UDF2_DESCR	60	
UDF3_CD	30	
UDF3_DESCR	60	
UDF4_CD	30	
UDF4_DESCR	60	
UDF5_CD	30	
UDF5_DESCR	60	
UDF6_CD	30	
UDF6_DESCR	60	

Extract Field	Length	Source
UDF7_CD	30	
UDF7_DESCR	60	
UDF8_CD	30	
UDF8_DESCR	60	
UDF9_CD	30	
UDF9_DESCR	60	
UDF10_CD	30	
UDF10_DESCR	60	
DATA_SOURCE_IND	6	Data Source Indicator value in MWM Feature Config

## Task Business Object Status Dimension

This extract program retrieves values from the Business Object Status table in the Oracle Utilities Mobile Workforce Management source system to populate the Task Business Object Status dimension.

### Properties

Property	Value
Load Table Name	CD_TASK_BO_STATUS
Table Type	Dimension
Source System Driver Table	F1_BUS_OBJ_STATUS
Source Extendable Lookup Name	
Source System Extract Program - Initial Load	M1-TBSIL
Source System Extract Program - Extract	M1-TBSDX
Stage Table Name	STG_TASK_BO_STATUS_EXT
Stage File Name	D_TASK_BO_STATUS_EXT.DAT
Control Table Name	STG_TASK_BO_STATUS_CTL_EXT
Control File name	D_TASK_BO_STATUS_EXT.CTL
Update Procedure Name	
OWB Map Name	OUBIMAP_D_TASK_BO_STATUS
OWB Work Flow Name	OUBIWF_D_TASK_BO_STATUS
OWB Work Flow Package Name	DIM_MWM

**Fields (listed in the order they will appear in the flat file)**

<b>Extract Field</b>	<b>Length</b>	<b>Source</b>
UPDATED_DTTM	20	Values: Initial Load: 1/1/2000, Incremental Load: Current Date
CHANGE_TYPE_CD	1	Values: I – Insert/Update, D – Deleted
BUS_OBJ_CD	30	BUS_OBJ_CD
BUS_OBJ_DESCR	100	DESCR
STATUS_CD	12	BO_STATUS_CD
STATUS_DESCR	100	DESCR
STATUS_COND_CD	4	BO_STATUS_COND_FLG
STATUS_COND_DESCR	100	DESCR
REASON_CD	30	BO_STATUS_REASON_CD
REASON_DESCR	100	DESCR
INCOMPLETE_IND	1	INCOMPLETE_IND
UDF1_CD	30	
UDF1_DESCR	60	
UDF2_CD	30	
UDF2_DESCR	60	
UDF3_CD	30	
UDF3_DESCR	60	
UDF4_CD	30	
UDF4_DESCR	60	
UDF5_CD	30	
UDF5_DESCR	60	
UDF6_CD	30	
UDF6_DESCR	60	
UDF7_CD	30	
UDF7_DESCR	60	
UDF8_CD	30	
UDF8_DESCR	60	
UDF9_CD	30	
UDF9_DESCR	60	
UDF10_CD	30	
UDF10_DESCR	60	

Extract Field	Length	Source
DATA_SOURCE_IND	6	Data Source Indicator value in MWM Feature Config

## Crew Shift Dimension

This extract program retrieves values from the Crew Shift table in the Oracle Utilities Mobile Workforce Management source system to populate the Crew Shift dimension.

### Properties

Property	Value
Load Table Name	CD_CREW_SHIFT
Table Type	Dimension
Source System Driver Table	M1_CREW_SHFT
Source Extendable Lookup Name	
Source System Extract Program - Initial Load	M1-SFTIL
Source System Extract Program - Extract	M1-CRSDX
Stage Table Name	STG_CREW_SHIFT_EXT
Stage File Name	D_CREW_SHIFT_EXT.DAT
Control Table Name	STG_CREW_SHIFT_CTL_EXT
Control File name	D_CREW_SHIFT_EXT.CTL
Update Procedure Name	SPL_CREW_SHIFT_UPD_PRC
OWB Map Name	SPLMAP_D_CREW_SHIFT
OWB Work Flow Name	SPLWF_D_CREW_SHIFT
OWB Work Flow Package Name	DIM2

### Fields (listed in the order they will appear in the flat file)

Extract Field	Length	Source
UPDATED_DTTM	20	Values: Initial Load: 1/1/2000, Incremental Load: Current Date
CHANGE_TYPE_CD	1	Values: I – Insert/Update, D – Deleted
SRC_CREW_SHIFT_ID	30	SHIFT_ID
CREW_SHIFT_INFO	254	CREW_SHIFT_INFO
CREW_SHIFT_TYPE_CD	30	CREW_SHFT_TYPE_CD
CREW_SHIFT_TYPE_DESCR	100	DESCR
PRIMARY_FN_CD	30	SVC_CLS_CD

<b>Extract Field</b>	<b>Length</b>	<b>Source</b>
PRIMARY_FN_DESCR	100	DESCR
UDF1_CD	30	
UDF1_DESCR	60	
UDF2_CD	30	
UDF2_DESCR	60	
UDF3_CD	30	
UDF3_DESCR	60	
UDF4_CD	30	
UDF4_DESCR	60	
UDF5_CD	30	
UDF5_DESCR	60	
UDF6_CD	30	
UDF6_DESCR	60	
UDF7_CD	30	
UDF7_DESCR	60	
UDF8_CD	30	
UDF8_DESCR	60	
UDF9_CD	30	
UDF9_DESCR	60	
UDF10_CD	30	
UDF10_DESCR	60	
DATA_SOURCE_IND	6	Data Source Indicator value in MWM Feature Config

MWM Extract Program: mwmors\_schema\_bi\_extmshftd\_v

Extract Procedure: EXTMSHFTD

Modify View: EXTMSHFTD\_MODIFY\_V

Delete View: EXTMSHFTD\_DELETE\_V

## Crew Dimension

This extract program retrieves values from the Resource table in the Oracle Utilities Mobile Workforce Management source system to populate the Crew dimension.



**Properties**

<b>Property</b>	<b>Value</b>
Load Table Name	CD_CREW
Table Type	Dimension
Source System Driver Table	M1_RESRC
Source Extendable Lookup Name	M1-CrewOrganizationLookup
Source System Extract Program - Inital Load	M1-CREIL
Source System Extract Program - Extract	M1-CREDX
Stage Table Name	STG_CREW_EXT
Stage File Name	D_CREW_EXT.DAT
Control Table Name	STG_CREW_CTL_EXT
Control File name	D_CREW_EXT.CTL
Update Procedure Name	SPL_CREW_UPD_PRC
OWB Map Name	SPLMAP_D_CREW
OWB Work Flow Name	SPLWF_D_CREW
OWB Work Flow Package Name	DIM

**Fields (listed in the order they will appear in the flat file)**

<b>Extract Field</b>	<b>Length</b>	<b>Source</b>
UPDATED_DTTM	20	Values: Initial Load: 1/1/2000, Incremental Load: Current Date
CHANGE_TYPE_CD	1	Values: I – Insert/Update, D – Deleted
CREW_CD	30	RESRC_ID
CREW_DESCR	60	CREW_DESCR
SRC_CREW_ID	30	RESRC_ID
CREW_TYPE_CD	30	RESRC_TYPE_CD
CREW_TYPE_DESCR	100	DESCR
ORG_UNIT1_CD	4	F1_EXT_LOOKUP_VALUE
ORG_UNIT1_DESCR	100	DESCR
ORG_UNIT2_CD	4	F1_EXT_LOOKUP_VALUE
ORG_UNIT3_DESCR	100	DESCR
ORG_UNIT3_CD	4	F1_EXT_LOOKUP_VALUE
ORG_UNIT3_DESCR	100	DESCR
UDF1_CD	30	

<b>Extract Field</b>	<b>Length</b>	<b>Source</b>
UDF1_DESCR	60	
UDF2_CD	30	
UDF2_DESCR	60	
UDF3_CD	30	
UDF3_DESCR	60	
UDF4_CD	30	
UDF4_DESCR	60	
UDF5_CD	30	
UDF5_DESCR	60	
UDF6_CD	30	
UDF6_DESCR	60	
UDF7_CD	30	
UDF7_DESCR	60	
UDF8_CD	30	
UDF8_DESCR	60	
UDF9_CD	30	
UDF9_DESCR	60	
UDF10_CD	30	
UDF10_DESCR	60	
DATA_SOURCE_IND	6	Data Source Indicator value in MWM Feature Config

EAM Extract Batch Control: EXTDWRKC

The following parameters can be supplied to populate the UDFs on the dimension:

- SUPERVISOR\_TITLE

MWM Extract Program: mwm\_schema\_bi\_ext

mcrew\_vExtract Procedure: EXTMCREW

Modify View: EXTMCREW\_MODIFY\_V

Delete View: EXTMCREW\_DELETE\_V

## Task Type Dimension

This extract program retrieves values from the Task Type table in the Oracle Utilities Mobile Workforce Management source system to populate the Task Type dimension.

### Properties

Property	Value
Load Table Name	CD_TASK_TYPE
Table Type	Dimension
Source System Driver Table	M1_TASK_TYPE
Source Extendable Lookup Name	
Source System Extract Program - Initial Load	M1-TKTIL
Source System Extract Program - Extract	M1-TKTDX
Stage Table Name	STG_TASK_TYPE_EXT
Stage File Name	D_TASK_TYPE_EXT.DAT
Control Table Name	STG_TASK_TYPE_CTL_EXT
Control File name	D_TASK_TYPE_EXT.CTL
Update Procedure Name	
OWB Map Name	SPLMAP_D_TASK_TYPE
OWB Work Flow Name	SPLWF_D_TASK_TYPE
OWB Work Flow Package Name	DIM_MWM

### Fields (listed in the order they will appear in the flat file)

Extract Field	Length	Source
UPDATED_D'TM	20	Values: Initial Load: 1/1/2000, Incremental Load: Current Date
CHANGE_TYPE_CD	1	Values: I – Insert/Update, D – Deleted
TASK_TYPE_CD	30	TASK_TYPE_CD
TASK_TYPE_DESCR	100	DESCR
TASK_CLASS_CD	4	TASK_CLS_FLG
TASK_CLASS_DESCR	100	DESCR
PRIORITY_PROF_CD	30	PRI_PROF_CD
PRIORITY_PROF_DESCR	100	DESCR
SVC_CATEGORY_CD	30	SVC_CATEGORY_CD
SVC_CATEGORY_DESCR	100	DESCR
RESP_TM_SLA	15	RESP_TM_SLA

<b>Extract Field</b>	<b>Length</b>	<b>Source</b>
UDF1_CD	30	
UDF1_DESCR	60	
UDF2_CD	30	
UDF2_DESCR	60	
UDF3_CD	30	
UDF3_DESCR	60	
UDF4_CD	30	
UDF4_DESCR	60	
UDF5_CD	30	
UDF5_DESCR	60	
UDF6_CD	30	
UDF6_DESCR	60	
UDF7_CD	30	
UDF7_DESCR	60	
UDF8_CD	30	
UDF8_DESCR	60	
UDF9_CD	30	
UDF9_DESCR	60	
UDF10_CD	30	
UDF10_DESCR	60	
DATA_SOURCE_IND	6	Data Source Indicator value in MWM Feature Config

## Service Area Dimension

This extract program retrieves values from the Service Area table in the Oracle Utilities Mobile Workforce Management source system to populate the Service Area dimension.

### Properties

<b>Property</b>	<b>Value</b>
Load Table Name	CD_SERVICE_AREA
Table Type	Dimension
Source System Driver Table	M1_SVC_AREA
Source Extendable Lookup Name	M1-ServiceAreaLookup
Source System Extract Program - Initial Load	M1-SERIL

Property	Value
Source System Extract Program - Extract	M1-SERDX
Stage Table Name	STG_SERVICE_AREA_EXT
Stage File Name	D_SERVICE_AREA_EXT.DAT
Control Table Name	STG_SERVICE_AREA_CTL_EXT
Control File name	D_SERVICE_AREA_EXT.CTL
Update Procedure Name	SPL_SERVICE_AREA_UPD_PRC
OWB Map Name	SPLMAP_D_ SERVICE_AREA
OWB Work Flow Name	SPLWF_D_ SERVICE_AREA
OWB Work Flow Package Name	DIM2

### Fields (listed in the order they will appear in the flat file)

Extract Field	Length	Source
UPDATED_DTTM	20	Values: Initial Load: 1/1/2000, Incremental Load: Current Date
CHANGE_TYPE_CD	1	Values: I – Insert/Update, D – Deleted
SERVICE_AREA_CD	30	Service Area Code
SERVICE_AREA_DESCR	100	DESCR
HIER_UNIT1_CD	4	F1_EXT_LOOKUP_VALUE
HIER_UNIT1_DESCR	100	DESCR
HIER_UNIT2_CD	4	F1_EXT_LOOKUP_VALUE
HIER_UNIT2_DESCR	100	DESCR
HIER_UNIT3_CD	4	F1_EXT_LOOKUP_VALUE
HIER_UNIT3_DESCR	100	DESCR
UDF1_CD	30	
UDF1_DESCR	60	
UDF2_CD	30	
UDF2_DESCR	60	
UDF3_CD	30	
UDF3_DESCR	60	
UDF4_CD	30	
UDF4_DESCR	60	
UDF5_CD	30	
UDF5_DESCR	60	

Extract Field	Length	Source
UDF6_CD	30	
UDF6_DESCR	60	
UDF7_CD	30	
UDF7_DESCR	60	
UDF8_CD	30	
UDF8_DESCR	60	
UDF9_CD	30	
UDF9_DESCR	60	
UDF10_CD	30	
UDF10_DESCR	60	
DATA_SOURCE_IND	6	Data Source Indicator value in MWM Feature Config

MWM Extract Program: mwm\_schema\_bi\_extmserv\_v

Extract Procedure: EXTMSERV

Modify View: EXTMSERV\_MODIFY\_V

Delete View: EXTMSERV\_DELETE\_V

## Appointment Time Dimension

This extract program retrieves values from the Extendable Lookup table in the Oracle Utilities Mobile Workforce Management source system to populate the Appointment Time dimension.

### Properties

Property	Value
Load Table Name	CD_APPT_TM
Table Type	Dimension
Source System Driver Table	F1_EXT_LOOKUP_VAL
Source Extendable Lookup Name	M1-AppointmentTimeLookup
Source System Extract Program - Initial Load	M1-APPTL
Source System Extract Program - Extract	M1-APPTDX
Stage Table Name	STG_APPT_TM_EXT
Stage File Name	D_APPT_TM_EXT.DAT
Control Table Name	STG_APPT_TM_OF_DAY_CTL_EXT
Control File name	D_APPT_TM_OF_DAY_EXT.CTL

Property	Value
Update Procedure Name	SPL_APPT_TM_DEL_PRC
OWB Map Name	SPLMAP_D_ APPT_TM_OF_DAY
OWB Work Flow Name	SPLWF_D_ APPT_TM_OF_DAY
OWB Work Flow Package Name	DIM_MWM

### Fields (listed in the order they will appear in the flat file)

Extract Field	Length	Source
UPDATED_D'TM	20	Values: Initial Load: 1/1/2000, Incremental Load: Current Date
CHANGE_TYPE_CD	1	Values: I – Insert/Update, D – Deleted
APPT_TM_CD	30	F1_EXT_LOOKUP_VALUE
APPT_TM_DESCR	100	DESCR
APPT_STATUS_CD	4	FIELD_VALUE
APPT_STATUS_DESCR	100	DESCR
UDF1_CD	30	
UDF1_DESCR	60	
UDF2_CD	30	
UDF2_DESCR	60	
UDF3_CD	30	
UDF3_DESCR	60	
UDF4_CD	30	
UDF4_DESCR	60	
UDF5_CD	30	
UDF5_DESCR	60	
UDF6_CD	30	
UDF6_DESCR	60	
UDF7_CD	30	
UDF7_DESCR	60	
UDF8_CD	30	
UDF8_DESCR	60	
UDF9_CD	30	
UDF9_DESCR	60	
UDF10_CD	30	

Extract Field	Length	Source
UDF10_DESCR	60	
DATA_SOURCE_IND	6	Data Source Indicator value in MWM Feature Config

## Appointment Time of Day Dimension

This extract program retrieves values from the Extendable Lookup table in the Oracle Utilities Mobile Workforce Management source system to populate the Appointment Time of Day dimension.

### Properties

Property	Value
Load Table Name	CD_APPT_TM_OF_DAY
Table Type	Dimension
Source System Driver Table	F1_EXT_LOOKUP_VAL
Source Extendable Lookup Name	M1-AppointmentTimeOfDayLookup
Source System Extract Program - Initial Load	M1-ATDIL
Source System Extract Program - Extract	M1-ATDDX
Stage Table Name	STG_APPT_TM_OF_DAY_EXT
Stage File Name	D_APPT_TM_OF_DAY_EXT.DAT
Control Table Name	STG_APPT_TM_OF_DAY_CTL_EXT
Control File name	D_APPT_TM_OF_DAY_EXT.CTL
Update Procedure Name	SPL_APPT_TM_OF_DAY_DEL_PRC
OWB Map Name	SPLMAP_D_ APPT_TM_OF_DAY
OWB Work Flow Name	SPLWF_D_ APPT_TM_OF_DAY
OWB Work Flow Package Name	DIM_MWM

### Fields (listed in the order they will appear in the flat file)

Extract Field	Length	Source
UPDATED_DTTM	20	Values: Initial Load: 1/1/2000, Incremental Load: Current Date
CHANGE_TYPE_CD	1	Values: I – Insert/Update, D – Deleted
APPT_TM_OF_DAY_CD	30	F1_EXT_LOOKUP_VALUE
APPT_TM_OF_DAY_DESCR	100	DESCR
UDF1_CD	30	



<b>Extract Field</b>	<b>Length</b>	<b>Source</b>
UDF1_DESCR	60	
UDF2_CD	30	
UDF2_DESCR	60	
UDF3_CD	30	
UDF3_DESCR	60	
UDF4_CD	30	
UDF4_DESCR	60	
UDF5_CD	30	
UDF5_DESCR	60	
UDF6_CD	30	
UDF6_DESCR	60	
UDF7_CD	30	
UDF7_DESCR	60	
UDF8_CD	30	
UDF8_DESCR	60	
UDF9_CD	30	
UDF9_DESCR	60	
UDF10_CD	30	
UDF10_DESCR	60	
DATA_SOURCE_IND	6	Data Source Indicator value in MWM Feature Config

## Travel Duration Deviation Dimension

This extract program retrieves values from the Extendable Lookup table in the Oracle Utilities Mobile Workforce Management source system to populate the Travel Duration Deviation dimension.

### Properties

<b>Property</b>	<b>Value</b>
Load Table Name	CD_TRAVEL_DUR_DEV
Table Type	Dimension
Source System Driver Table	F1_EXT_LOOKUP_VAL
Source Extendable Lookup Name	M1-TravelDurDeviationLookup
Source System Extract Program - Initial Load	M1-TDDIL

Property	Value
Source System Extract Program - Extract	M1-TDDDX
Stage Table Name	STG_TRAVEL_DUR_DEV_EXT
Stage File Name	D_TRAVEL_DUR_DEV_EXT.DAT
Control Table Name	STG_TRAVEL_DUR_DEV_CTL_EXT
Control File name	D_TRAVEL_DUR_DEV_EXT.CTL
Update Procedure Name	SPL_TRAVEL_DUR_DEV_DEL_PRC
OWB Map Name	SPLMAP_D_TRAVEL_DUR_DEV
OWB Work Flow Name	SPLWF_D_TRAVEL_DUR_DEV
OWB Work Flow Package Name	DIM_MWM

### Fields (listed in the order they will appear in the flat file)

Extract Field	Length	Source
UPDATED_DTTM	20	Values: Initial Load: 1/1/2000, Incremental Load: Current Date
CHANGE_TYPE_CD	1	Values: I – Insert/Update, D – Deleted
TRAVEL_DUR_DEV_CD	30	F1_EXT_LOOKUP_VALUE
TRAVEL_DUR_DEV_DESCR	100	DESCR
UDF1_CD	30	
UDF1_DESCR	60	
UDF2_CD	30	
UDF2_DESCR	60	
UDF3_CD	30	
UDF3_DESCR	60	
UDF4_CD	30	
UDF4_DESCR	60	
UDF5_CD	30	
UDF5_DESCR	60	
UDF6_CD	30	
UDF6_DESCR	60	
UDF7_CD	30	
UDF7_DESCR	60	
UDF8_CD	30	
UDF8_DESCR	60	

Extract Field	Length	Source
UDF9_CD	30	
UDF9_DESCR	60	
UDF10_CD	30	
UDF10_DESCR	60	
DATA_SOURCE_IND	6	Data Source Indicator value in MWM Feature Config

## Late Logon Time Dimension

This extract program retrieves values from the Extendable Lookup table in the Oracle Utilities Mobile Workforce Management source system to populate the Late Logon Time dimension.

### Properties

Property	Value
Load Table Name	CD_LATE_LOGON_TM
Table Type	Dimension
Source System Driver Table	F1_EXT_LOOKUP_VAL
Source Extendable Lookup Name	M1-LateLogonTimeLookup
Source System Extract Program - Initial Load	M1-LLTIL
Source System Extract Program - Extract	M1-LLTDX
Stage Table Name	STG_LATE_LOGON_TM_EXT
Stage File Name	D_LATE_LOGON_TM_EXT.DAT
Control Table Name	STG_LATE_LOGON_TM_CTL_EXT
Control File name	D_LATE_LOGON_TM_EXT.CTL
Update Procedure Name	SPL_LATE_LOGON_TM_DEL_PRC
OWB Map Name	SPLMAP_D_LATE_LOGON_TM
OWB Work Flow Name	SPLWF_D_LATE_LOGON_TM
OWB Work Flow Package Name	DIM_MWM

### Fields (listed in the order they will appear in the flat file)

Extract Field	Length	Source
UPDATED_DTTM	20	Values: Initial Load: 1/1/2000, Incremental Load: Current Date
CHANGE_TYPE_CD	1	Values: I – Insert/Update, D – Deleted
LATE_LOGON_TM_CD	30	F1_EXT_LOOKUP_VALUE

<b>Extract Field</b>	<b>Length</b>	<b>Source</b>
LATE_LOGON_TM_DESCR	100	DESCR
CONSIDERED_ONTIME_CD	4	FIELD_VALUE
CONSIDERED_ONTIME_DE SCR	100	DESCR
UDF1_CD	30	
UDF1_DESCR	60	
UDF2_CD	30	
UDF2_DESCR	60	
UDF3_CD	30	
UDF3_DESCR	60	
UDF4_CD	30	
UDF4_DESCR	60	
UDF5_CD	30	
UDF5_DESCR	60	
UDF6_CD	30	
UDF6_DESCR	60	
UDF7_CD	30	
UDF7_DESCR	60	
UDF8_CD	30	
UDF8_DESCR	60	
UDF9_CD	30	
UDF9_DESCR	60	
UDF10_CD	30	
UDF10_DESCR	60	
DATA_SOURCE_IND	6	Data Source Indicator value in MWM Feature Config

## Early Logoff Time Dimension

This extract program retrieves values from the Extendable Lookup table in the Oracle Utilities Mobile Workforce Management source system to populate the Early Logoff Time dimension.

## Properties

Property	Value
Load Table Name	CD_EARLY_LOGOFF_TM
Table Type	Dimension
Source System Driver Table	F1_EXT_LOOKUP_VAL
Source Extendable Lookup Name	M1-EarlyLogoffTimeLookup
Source System Extract Program - Initial Load	M1-ELTIL
Source System Extract Program - Extract	M1-ELTDX
Stage Table Name	STG_EARLY_LOGOFF_TM_EXT
Stage File Name	D_EARLY_LOGOFF_TM_EXT.DAT
Control Table Name	STG_EARLY_LOGOFF_TM_CTL_EXT
Control File name	D_EARLY_LOGOFF_TM_EXT.CTL
Update Procedure Name	SPL_EARLY_LOGOFF_TM_DEL_PRC
OWB Map Name	SPLMAP_D_EARLY_LOGOFF_TM
OWB Work Flow Name	SPLWF_D_EARLY_LOGOFF_TM
OWB Work Flow Package Name	DIM_MWM

## Fields (listed in the order they will appear in the flat file)

Extract Field	Length	Source
UPDATED_DT*TM	20	Values: Initial Load: 1/1/2000, Incremental Load: Current Date
CHANGE_TYPE_CD	1	Values: I – Insert/Update, D – Deleted
EARLY_LOGOFF_TM_CD		F1_EXT_LOOKUP_VALUE
EARLY_LOGOFF_TM_DESCR		DESCR
CONSIDERED_ONTIME_CD		FIELD_VALUE
CONSIDERED_ONTIME_DE SCR		DESCR
UDF1_CD	30	
UDF1_DESCR	60	
UDF2_CD	30	
UDF2_DESCR	60	
UDF3_CD	30	
UDF3_DESCR	60	
UDF4_CD	30	

Extract Field	Length	Source
UDF4_DESCR	60	
UDF5_CD	30	
UDF5_DESCR	60	
UDF6_CD	30	
UDF6_DESCR	60	
UDF7_CD	30	
UDF7_DESCR	60	
UDF8_CD	30	
UDF8_DESCR	60	
UDF9_CD	30	
UDF9_DESCR	60	
UDF10_CD	30	
UDF10_DESCR	60	
DATA_SOURCE_IND	6	Data Source Indicator value in MWM Feature Config

## Work Duration Deviation Dimension

This extract program retrieves values from the Extendable Lookup table in the Oracle Utilities Mobile Workforce Management source system to populate the Work Duration Deviation dimension.

### Properties

Property	Value
Load Table Name	CD_WORK_DUR_DEV
Table Type	Dimension
Source System Driver Table	F1_EXT_LOOKUP_VAL
Source Extendable Lookup Name	M1-WorkDurationDevtnLookup
Source System Extract Program - Initial Load	M1-WDDIL
Source System Extract Program - Extract	M1-WDDDX
Stage Table Name	STG_WORK_DUR_DEV_EXT
Stage File Name	D_WORK_DUR_DEV_EXT.DAT
Control Table Name	STG_WORK_DUR_DEV_CTL_EXT
Control File name	D_WORK_DUR_DEV_EXT.CTL
Update Procedure Name	SPL_WORK_DUR_DEV_DEL_PRC

Property	Value
OWB Map Name	SPLMAP_D_ WORK_DUR_DEV
OWB Work Flow Name	SPLWF_D_ WORK_DUR_DEV
OWB Work Flow Package Name	DIM_MWM

### Fields (listed in the order they will appear in the flat file)

Extract Field	Length	Source
UPDATED_DTTM	20	Values: Initial Load: 1/1/2000, Incremental Load: Current Date
CHANGE_TYPE_CD	1	Values: I – Insert/Update, D – Deleted
WORK_DUR_DEV_CD	30	F1_EXT_LOOKUP_VALUE
WORK_DUR_DEV_DESCR	100	DESCR
UDF1_CD	30	
UDF1_DESCR	60	
UDF2_CD	30	
UDF2_DESCR	60	
UDF3_CD	30	
UDF3_DESCR	60	
UDF4_CD	30	
UDF4_DESCR	60	
UDF5_CD	30	
UDF5_DESCR	60	
UDF6_CD	30	
UDF6_DESCR	60	
UDF7_CD	30	
UDF7_DESCR	60	
UDF8_CD	30	
UDF8_DESCR	60	
UDF9_CD	30	
UDF9_DESCR	60	
UDF10_CD	30	
UDF10_DESCR	60	
DATA_SOURCE_IND	6	Data Source Indicator value in MWM Feature Config

## Travel Distance Deviation Dimension

This extract program retrieves values from the Extendable Lookup table in the Oracle Utilities Mobile Workforce Management source system to populate the Travel Distance Deviation dimension.

### Properties

Property	Value
Load Table Name	CD_TRAVEL_DIST_DEV
Table Type	Dimension
Source System Driver Table	F1_EXT_LOOKUP_VAL
Source Extendable Lookup Name	
Source System Extract Program - Initial Load	M1-TADIL
Source System Extract Program - Extract	M1-TADDX
Stage Table Name	STG_TRAVEL_DIST_DEV_EXT
Stage File Name	D_TRAVEL_DIST_DEV_EXT.DAT
Control Table Name	STG_TRAVEL_DIST_DEV_CTL_EXT
Control File name	D_TRAVEL_DIST_DEV_EXT.CTL
Update Procedure Name	SPL_TRAVEL_DIST_DEV_DEL_PRC
OWB Map Name	SPLMAP_D_TRAVEL_DIST_DEV
OWB Work Flow Name	SPLWF_D_TRAVEL_DIST_DEV
OWB Work Flow Package Name	DIM_MWM

### Fields (listed in the order they will appear in the flat file)

Extract Field	Length	Source
UPDATED_D'TM	20	Values: Initial Load: 1/1/2000, Incremental Load: Current Date
CHANGE_TYPE_CD	1	Values: I – Insert/Update, D – Deleted
TRAVEL_DIST_DEV_CD	30	F1_EXT_LOOKUP_VALUE
TRAVEL_DIST_DEV_DESCR	100	DESCR
UDF1_CD	30	
UDF1_DESCR	60	
UDF2_CD	30	
UDF2_DESCR	60	
UDF3_CD	30	
UDF3_DESCR	60	



<b>Extract Field</b>	<b>Length</b>	<b>Source</b>
UDF4_CD	30	
UDF4_DESCR	60	
UDF5_CD	30	
UDF5_DESCR	60	
UDF6_CD	30	
UDF6_DESCR	60	
UDF7_CD	30	
UDF7_DESCR	60	
UDF8_CD	30	
UDF8_DESCR	60	
UDF9_CD	30	
UDF9_DESCR	60	
UDF10_CD	30	
UDF10_DESCR	60	
DATA_SOURCE_IND	6	Data Source Indicator value in MWM Feature Config

## Response Time Deviation Dimension

This extract program retrieves values from the Extendable Lookup table in the Oracle Utilities Mobile Workforce Management source system to populate the Response Time Deviation dimension.

### Properties

<b>Property</b>	<b>Value</b>
Load Table Name	CD_RESP_TM_DEV
Table Type	Dimension
Source System Driver Table	F1_EXT_LOOKUP_VAL
Source Extendable Lookup Name	M1-RespTimeDevLookup
Source System Extract Program - Initial Load	M1-RTDIL
Source System Extract Program - Extract	M1-RTDDX
Stage Table Name	STG_RESP_TM_DEV_EXT
Stage File Name	D_RESP_TM_DEV_EXT.DAT
Control Table Name	STG_RESP_TM_DEV_CTL_EXT
Control File name	D_RESP_TM_DEV_EXT.CTL

Property	Value
Update Procedure Name	SPLMAP_D_RESP_TM_DEV
OWB Map Name	SPL_RESP_TM_DEV_DEL_PRC
OWB Work Flow Name	SPLWF_D_RESP_TM_DEV
OWB Work Flow Package Name	DIM_MWM

### Fields (listed in the order they will appear in the flat file)

Extract Field	Length	Source
UPDATED_D'TM	20	Values: Initial Load: 1/1/2000, Incremental Load: Current Date
CHANGE_TYPE_CD	1	Values: I – Insert/Update, D – Deleted
RESP_TM_DEV_CD	30	F1_EXT_LOOKUP_VALUE
RESP_TM_DEV_DESCR	100	DESCR
SLA_STATE_CD	4	FIELD_VALUE
SLA_STATE_DESCR	100	DESCR
UDF1_CD	30	
UDF1_DESCR	60	
UDF2_CD	30	
UDF2_DESCR	60	
UDF3_CD	30	
UDF3_DESCR	60	
UDF4_CD	30	
UDF4_DESCR	60	
UDF5_CD	30	
UDF5_DESCR	60	
UDF6_CD	30	
UDF6_DESCR	60	
UDF7_CD	30	
UDF7_DESCR	60	
UDF8_CD	30	
UDF8_DESCR	60	
UDF9_CD	30	
UDF9_DESCR	60	
UDF10_CD	30	

Extract Field	Length	Source
UDF10_DESCR	60	
DATA_SOURCE_IND	6	Data Source Indicator value in MWM Feature Config

## Address Dimension

This extract program retrieves values from the Task Address table in the Oracle Utilities Mobile Workforce Management source system to populate the Address dimension.

### Properties

Property	Value
Load Table Name	CD_ADDR
Table Type	Dimension
Source System Driver Table	M1_TASK_ADDR
Source Extendable Lookup Name	
Source System Extract Program - Initial Load	M1-LOCIL,M1-CSAIL,M1-TKAIL
Source System Extract Program - Extract	M1-ADRDX
Stage Table Name	STG_ADDR_EXT
Stage File Name	D_ADDR_EXT.DAT
Control Table Name	STG_ADDR_CTL_EXT
Control File name	D_ADDR_EXT.CTL
Update Procedure Name	SPL_ADDR_UPD_PRC
OWB Map Name	SPLMAP_D_ADDR
OWB Work Flow Name	SPLWF_D_ADDR
OWB Work Flow Package Name	DIM

### Fields (listed in the order they will appear in the flat file)

Extract Field	Length	Source
UPDATED_DTTM	20	Values: Initial Load: 1/1/2000, Incremental Load: Current Date
CHANGE_TYPE_CD	1	Values: I – Insert/Update, D – Deleted
SRC_ADDR_ID	254	SRC_ADDR_ID
ADDRESS_LINE1	254	ADDRESS1
ADDRESS_LINE2	254	ADDRESS2
ADDRESS_LINE3	254	ADDRESS3

<b>Extract Field</b>	<b>Length</b>	<b>Source</b>
ADDRESS_LINE4	254	ADDRESS4
CROSS_STREET	100	CROSS_STREET
SUBURB	100	SUBURB
CITY	60	CITY
COUNTY	60	COUNTY
POSTAL	12	POSTAL
STATE_CD	6	STATE
STATE_DESCR	100	DESCR
COUNTRY_CD	3	COUNTRY
COUNTRY_DESCR	100	DESCR
GEO_CD	11	GEO_CODE
UDF1_CD	30	
UDF1_DESCR	60	
UDF2_CD	30	
UDF2_DESCR	60	
UDF3_CD	30	
UDF3_DESCR	60	
UDF4_CD	30	
UDF4_DESCR	60	
UDF5_CD	30	
UDF5_DESCR	60	
UDF6_CD	30	
UDF6_DESCR	60	
UDF7_CD	30	
UDF7_DESCR	60	
UDF8_CD	30	
UDF8_DESCR	60	
UDF9_CD	30	
UDF9_DESCR	60	
UDF10_CD	30	
UDF10_DESCR	60	
ADDR_INFO	254	ADDRESS1+CITY+STATE+POSTAL

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<b>Extract Field</b>	<b>Length</b>	<b>Source</b>
DATA_SOURCE_IND	6	Data Source Indicator value in MWM Feature Config

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# Fact Extract Programs

## Crew Tasks Fact

This extract program retrieves values from the Task Schedule table in the Oracle Utilities Mobile Workforce Management source system to populate the Crew Tasks fact.

### Properties

Property	Value
Load Table Name	CF_CREW_TASK
Table Type	Fact
Source System Driver Table	M1_TASK_SCHEDULE
Source Extendable Lookup Name	
Source System Extract Program - Initial Load	M1-SFTIL
Source System Extract Program - Extract	M1-CRTFX
Stage Table Name	STG_CREW_TASK_EXT
Stage File Name	F_CREW_TASK_EXT.DAT
Control Table Name	STG_CREW_TASK_CTL_EXT
Control File name	F_CREW_TASK_EXT.CTL
Update Procedure Name	
OWB Map Name	SPLMAP_F_CREW_TASK
OWB Work Flow Name	SPLWF_F_CREW_TASK
OWB Work Flow Package Name	FACT_MWM

### Fields (listed in the order they will appear in the flat file)

Extract Field	Length	Source
UPDATED_D'TM	20	Values: Initial Load: 1/1/2000, Incremental Load: Current Date
CHANGE_TYPE_CD	1	Values: I – Insert/Update, D – Deleted
SHIFT_ID	30	SHIFT_ID
TASK_ID	30	TASK_ID
SHIFT_LOG_SEQUENCE	10	SEQNO
TASK_LOG_SEQUENCE	10	SEQNO
TIME_IN_PREVIOUS_STATE	15	TIME_IN_PREVIOUS_STATE
APPOINTMENT_IND	1	APPOINTMENT_FLG
EMERGENCY_IND	1	QUEUE_FLG

<b>Extract Field</b>	<b>Length</b>	<b>Source</b>
ESTIMATED_TRAVEL_TIME	15	Stage: ESTIMATED_TRAVEL_TIME
CREW_TIME_USAGE_CD	30	F1_EXT_LOOKUP_VAL. F1_EXT_LOOKUP_VALUE
FROM_SHIFT_BO_CD	30	F1_BUS_OBJ.BUS_OBJ_CD
FROM_BO_STATUS_CD	12	F1_BUS_OBJ_STATUS.BO_STATUS_CD
FROM_STATUS_REASON_CD	30	F1_BUS_OBJ_STATUS_RSN.BO_STATUS_REASON_CD
TO_SHIFT_BO_CD	30	F1_BUS_OBJ.BUS_OBJ_CD
TO_BO_STATUS_CD	12	F1_BUS_OBJ_STATUS.BO_STATUS_CD
TO_STATUS_REASON_CD	30	F1_BUS_OBJ_STATUS_RSN.BO_STATUS_REASON_CD
CREW_CD	30	M1_RESRC.RESRC_ID
TRAVEL_DURATION_DEVIATION_CD	30	F1_EXT_LOOKUP_VAL. F1_EXT_LOOKUP_VALUE
APPOINTMENT_TIME_OF_DAY_CD	30	F1_EXT_LOOKUP_VAL. F1_EXT_LOOKUP_VALUE
APPOINTMENT_TIME_CD	30	F1_EXT_LOOKUP_VAL. F1_EXT_LOOKUP_VALUE
FROM_TASK_BO_CD	30	F1_BUS_OBJ.BUS_OBJ_CD
FROM_BO_STATUS_CD	12	F1_BUS_OBJ_STATUS.BO_STATUS_CD
FROM_STATUS_REASON_CD	30	F1_BUS_OBJ_STATUS_RSN.BO_STATUS_REASON_CD
TO_TASK_BO_CD	30	F1_BUS_OBJ.BUS_OBJ_CD
TO_BO_STATUS_CD	12	F1_BUS_OBJ_STATUS.BO_STATUS_CD
TO_STATUS_REASON_CD	30	F1_BUS_OBJ_STATUS_RSN.BO_STATUS_REASON_CD
TASK_TYPE_CD	30	M1_TASK_TYPE.TASK_TYPE_CD
SERVICE_AREA_CD	30	M1_SVC_AREA.SVC_AREA_CD
ADDRESS_ID	254	M1_TASK_ADDRESS(ADDRESS1+CITY+STATE+POSTAL)
FROM_DATE	8	Stage: FROM_DATE
FROM_TIME	8	Stage: FROM_TIME
FROM_DTTM	20	Stage: FROM_DTTM
TO_DATE	8	Stage: TO_DATE
TO_TIME	8	Stage: TO_TIME
TO_DTTM	20	Stage: TO_DTTM

<b>Extract Field</b>	<b>Length</b>	<b>Source</b>
DEVICE_ID	30	D1_DVC.D1_DEVICE_ID
SERVICE_POINT_ID	30	D1_SP.D1_SP_ID
USG_SUBSCRIPTION_ID	30	D1_US.US_ID
CONTACT_ID	30	D1_CONTACT.CONTACT_ID
PERSON_ID	30	
ACCOUNT_ID	30	
SA_ID	30	
PREMISE_ID	30	
UDD1_CD	16	Stage: UDD1_CD
UDD2_CD	16	Stage: UDD2_CD
UDM1	19	Stage: UDM1
UDM2	19	Stage: UDM2
UDM3	19	Stage: UDM3
UDM4	19	Stage: UDM4
UDM5	19	Stage: UDM5
UDM6	19	Stage: UDM6
UDM7	19	Stage: UDM7
UDM8	19	Stage: UDM8
UDM9	19	Stage: UDM9
UDM10	19	Stage: UDM10
UDDGEN1	8	Stage: UDDGEN1
UDDGEN2	8	Stage: UDDGEN2
UDDGEN3	8	Stage: UDDGEN3
UDDGEN4	8	Stage: UDDGEN4
UDDGEN5	8	Stage: UDDGEN5
UDDGENL1	30	Stage: UDDGENL1
UDDGENL2	30	Stage: UDDGENL2
UDDGENL3	30	Stage: UDDGENL3
UDDGENL4	30	Stage: UDDGENL4
UDDGENL5	30	Stage: UDDGENL5
UDDFK1_KEY	254	Stage: UDDFK1_KEY
UDDFK2_KEY	254	Stage: UDDFK2_KEY
UDDFK3_KEY	254	Stage: UDDFK3_KEY



Extract Field	Length	Source
UDDFK4_KEY	254	Stage: UDDFK4_KEY
UDDFK5_KEY	254	Stage: UDDFK5_KEY
DATA_SOURCE_IND	6	Data Source Indicator value in MWM Feature Config

## Completed Shift Fact

This extract program retrieves values from the Crew Shift table in the Oracle Mobile Workforce Management source system to populate the Completed Shift fact.

### Properties

Property	Value
Load Table Name	CF_CMP_SHIFT
Table Type	Fact
Source System Driver Table	M1_CREW_SHFT
Source Extendable Lookup Name	
Source System Extract Program - Initial Load	M1-SFTIL
Source System Extract Program - Extract	M1-CCSFX
Stage Table Name	STG_CMP_SHIFT_EXT
Stage File Name	F_CMP_SHIFT_EXT.DAT
Control Table Name	STG_CMP_SHIFT_CTL_EXT
Control File name	F_CMP_SHIFT_EXT.CTL
Update Procedure Name	
OWB Map Name	SPLMAP_F_CMP_SHIFT
OWB Work Flow Name	SPLWF_F_CMP_SHIFT
OWB Work Flow Package Name	FACT_MWM

### Fields (listed in the order they will appear in the flat file)

Extract Field	Length	Source
UPDATED_D'TM	20	Values: Initial Load: 1/1/2000, Incremental Load: Current Date
CHANGE_TYPE_CD	1	Values: I – Insert/Update, D – Deleted
SHIFT_ID	30	SHIFT_ID
PLANNED_DURATION	15	Stage: PLANNED_DURATION
ACTUAL_DURATION	15	Stage: ACTUAL_DURATION

<b>Extract Field</b>	<b>Length</b>	<b>Source</b>
OVERTIME_DURATION		Stage: OVERTIME_DURATION
ESTIMATED_DISTANCE		Stage: ESTIMATED_DISTANCE
EST_TOT_MILEAGE		Stage: EST_TOT_MILEAGE
ACTUAL_TOT_MILEAGE		Stage: ACTUAL_TOT_MILEAGE
VEHICLE_CNT		Stage: VEHICLE_CNT
CREW_CD		M1_RESRC.RESRC_ID
LATE_LOGON_TIME_CD		F1_EXT_LOOKUP_VAL. F1_EXT_LOOKUP_VALUE
EARLY_LOGOFF_TIME_CD		F1_EXT_LOOKUP_VAL. F1_EXT_LOOKUP_VALUE
TRAVEL_DIST_DEV_CD		F1_EXT_LOOKUP_VAL. F1_EXT_LOOKUP_VALUE
LOGON_ADDRESS_ID		M1_TASK_ADDRESS(ADDRESS1+CITY+ST ATE+POSTAL)
LOGOFF_ADDRESS_ID		M1_TASK_ADDRESS(ADDRESS1+CITY+ST ATE+POSTAL)
SHIFT_PLAN_ST_DATE		Stage: SHIFT_PLAN_ST_DATE
SHIFT_PLAN_ST_TIME		Stage: SHIFT_PLAN_ST_TIME
SHIFT_PLAN_ST_DT		Stage: SHIFT_PLAN_ST_DT
UDD1_CD	16	Stage: UDD1_CD
UDD2_CD	16	Stage: UDD2_CD
UDM1	19	Stage: UDM1
UDM2	19	Stage: UDM2
UDM3	19	Stage: UDM3
UDM4	19	Stage: UDM4
UDM5	19	Stage: UDM5
UDM6	19	Stage: UDM6
UDM7	19	Stage: UDM7
UDM8	19	Stage: UDM8
UDM9	19	Stage: UDM9
UDM10	19	Stage: UDM10
UDDD1	8	Stage: UDDD1
UDDD2	8	Stage: UDDD2
UDDD3	8	Stage: UDDD3
UDDD4	8	Stage: UDDD4

<b>Extract Field</b>	<b>Length</b>	<b>Source</b>
UDDD5	8	Stage: UDDD5
UDLDD1	30	Stage: UDLDD1
UDLDD2	30	Stage: UDLDD2
UDLDD3	30	Stage: UDLDD3
UDLDD4	30	Stage: UDLDD4
UDLDD5	30	Stage: UDLDD5
UDDFK_ID1	254	Stage: UDDFK_ID1
UDDFK_ID2	254	Stage: UDDFK_ID2
UDDFK_ID3	254	Stage: UDDFK_ID3
UDDFK_ID4	254	Stage: UDDFK_ID4
UDDFK_ID5	254	Stage: UDDFK_ID5
DATA_SOURCE_IND	6	Data Source Indicator value in MWM Feature Config

## Activity Fact

This extract program retrieves values from the Task table in the Oracle Utilities Mobile Workforce Management source system to populate the Activity fact.

## Properties

<b>Property</b>	<b>Value</b>
Load Table Name	CF_FLD_ACTIVITY
Table Type	Fact
Source System Driver Table	M1_TASK
Source Extendable Lookup Name	
Source System Extract Program - Initial Load	M1-ACTIL
Source System Extract Program - Extract	M1-ACTFX
Stage Table Name	STG_FLD_ACTIVITY_EXT
Stage File Name	F_FLD_ACTIVITY_EXT.DAT
Control Table Name	STG_FLD_ACTIVITY_CTL_EXT
Control File name	F_FLD_ACTIVITY_EXT.CTL
Update Procedure Name	
OWB Map Name	SPLMAP_F_FLD_ACTIVITY
OWB Work Flow Name	SPLWF_F_FLD_ACTIVITY
OWB Work Flow Package Name	FACT_MWM

**Fields (listed in the order they will appear in the flat file)**

<b>Extract Field</b>	<b>Length</b>	<b>Source</b>
UPDATED_DTTM	20	Values: Initial Load: 1/1/2000, Incremental Load: Current Date
CHANGE_TYPE_CD	1	Values: I – Insert/Update, D – Deleted
TASK_ID	30	M1_TASK .TASK_ID
TASK_INFO	254	
EMERGENCY_INDICATOR	1	M1_TASK .QUEUE_FLG
APPOINTMENT_IND	1	M1_TASK .APPOINTMENT_FLG
SAME_DAY_APPT_IND	1	Stage: SAME_DAY_APPT_IND
WORK_DUR	15	Stage: WORK_DUR
EST_WORK_DUR	15	Stage: EST_WORK_DUR
ACTUAL_WORK_DUR	15	Stage: ACTUAL_WORK_DUR
ACTUAL_TRAVEL_DUR	15	Stage: ACTUAL_TRAVEL_DUR
WORK_ATTEMPTS	15	Stage: WORK_ATTEMPTS
TRAVEL_ATTEMPTS	15	Stage: TRAVEL_ATTEMPTS
RESPONSE_TIME_UNTIL_DISP	15	Stage: RESPONSE_TIME_UNTIL_DISP
RESPONSE_TIME_UNTIL_ENRO	15	Stage: RESPONSE_TIME_UNTIL_ENRO
RESPONSE_TIME_UNTIL_ARRIVED	15	Stage: RESPONSE_TIME_UNTIL_ARRIVED
RESPONSE_TIME_UNTIL_COMPLETED	15	Stage: RESPONSE_TIME_UNTIL_COMPLETED
OVERALL_RESPONSE_TIME	15	Stage: OVERALL_RESPONSE_TIME
TASK_BO_CD	30	F1_BUS_OBJ.BUS_OBJ_CD
BO_STATUS_CD	12	F1_BUS_OBJ_STATUS.BO_STATUS_CD
STATUS_REASON_CD	30	F1_BUS_OBJ_STATUS_RSN.BO_STATUS_REASON_CD
TASK_TYPE_CD	30	M1_TASK_TYPE.TASK_TYPE_CD
SERVICE_AREA_CD	30	M1_SVC_AREA.SVC_AREA_CD
ADDRESS_ID	254	M1_TASK_ADDRESS(ADDRESS1+CITY+STATE+POSTAL)
CREW_CD	30	M1_RESRC.RESRC_ID
APPOINTMENT_TIME_DAY_CD	30	F1_EXT_LOOKUP_VAL. F1_EXT_LOOKUP_VALUE

<b>Extract Field</b>	<b>Length</b>	<b>Source</b>
APPOINTMENT_TIME_CD	30	F1_EXT_LOOKUP_VAL. F1_EXT_LOOKUP_VALUE
WRL_DUR_DEV_CD	30	F1_EXT_LOOKUP_VAL. F1_EXT_LOOKUP_VALUE
RESPONSE_TIME_DEV_CD	30	F1_EXT_LOOKUP_VAL. F1_EXT_LOOKUP_VALUE
CREATION_DATE	8	Stage: CREATION_DATE
CREATION_TIME	8	Stage: CREATION_TIME
CREATION_DATETIME	20	Stage: CREATION_DATETIME
STATUS_DATE	8	Stage: STATUS_DATE
STATUS_TIME	8	Stage: STATUS_TIME
STATUS_DATETIME	20	Stage: STATUS_DATETIME
SCHEDULE_START_DATE	8	Stage: SCHEDULE_START_DATE
SCHEDULE_START_TIME	8	Stage: SCHEDULE_START_TIME
SCHEDULE_START_DATETIME	20	Stage: SCHEDULE_START_DATETIME
SCHEDULE_END_DATE	8	Stage: SCHEDULE_END_DATE
SCHEDULE_END_TIME	8	Stage: SCHEDULE_END_TIME
SCHEDULE_END_DATETIME	20	Stage: SCHEDULE_END_DATETIME
DEVICE_ID	30	D1_DVC.D1_DEVICE_ID
SERVICE_POINT_ID	30	D1_SP.D1_SP_ID
USAGE_SUBSCRIPT_ID	30	D1_US.US_ID
CONTACT_ID	30	D1_CONTACT.CONTACT_ID
PERSON_ID	30	CI_PER.PER_ID
ACCOUNT_ID	30	CI_ACCT.ACCT_ID
SA_ID	30	CI_SA.SA_ID
PREMISE_ID	30	CI_PREM.PREM_ID
UDD1_CD	16	Stage: UDD1_CD
UDD2_CD	16	Stage: UDD2_CD
UDM1	19	Stage: UDM1
UDM2	19	Stage: UDM2
UDM3	19	Stage: UDM3
UDM4	19	Stage: UDM4
UDM5	19	Stage: UDM5

<b>Extract Field</b>	<b>Length</b>	<b>Source</b>
UDM6	19	Stage: UDM6
UDM7	19	Stage: UDM7
UDM8	19	Stage: UDM8
UDM9	19	Stage: UDM9
UDM10	19	Stage: UDM10
UDDD1	8	Stage: UDDD1
UDDD2	8	Stage: UDDD2
UDDD3	8	Stage: UDDD3
UDDD4	8	Stage: UDDD4
UDDD5	8	Stage: UDDD5
UDLDD1	30	Stage: UDLDD1
UDLDD2	30	Stage: UDLDD2
UDLDD3	30	Stage: UDLDD3
UDLDD4	30	Stage: UDLDD4
UDLDD5	30	Stage: UDLDD5
UDDFK_ID1	254	Stage: UDDFK_ID1
UDDFK_ID2	254	Stage: UDDFK_ID2
UDDFK_ID3	254	Stage: UDDFK_ID3
UDDFK_ID4	254	Stage: UDDFK_ID4
UDDFK_ID5	254	Stage: UDDFK_ID5
DATA_SOURCE_IND	6	Data Source Indicator value in MWM Feature Config

# Dimension Table Schema

## Crew Time Usage Dimension <CD\_CREW\_TM\_USG>

The Crew Time Usage dimension stores various crew time usage types that indicate different states in which a crew can exist.

### Properties

Property	Value
Table Type	Dimension
SCD Type	1

### Fields

Column	OBIEE Field	Load
CREW_TM_USG_KEY	Crew Time Usage Dimension Surrogate Key	Sequence: OUBI_CREW_TM_USG_SEQ
CREW_TM_USG_CD	Crew Time Usage Code	CREW_TM_USG_CD
CREW_TM_USG_DESCR	Crew Time Usage Description	CREW_TM_USG_DESCR
PRODUCTIVITY_CD	Productivity Code	PRODUCTIVITY_CD
PRODUCTIVITY_DESCR	Productivity Description	Stage: PRODUCTIVITY_DESCR
UDF1_CD	User Defined Field Code	Stage: UDF1_CD
UDF1_DESCR	User Defined Field Code	Stage: UDF1_DESCR
UDF2_CD	User Defined Field Code	Stage: UDF2_CD
UDF2_DESCR	User Defined Field Code	Stage: UDF2_DESCR
UDF3_CD	User Defined Field Code	Stage: UDF3_CD
UDF3_DESCR	User Defined Field Code	Stage: UDF3_DESCR
UDF4_CD	User Defined Field Code	Stage: UDF4_CD
UDF4_DESCR	User Defined Field Code	Stage: UDF4_DESCR
UDF5_CD	User Defined Field Code	Stage: UDF5_CD
UDF5_DESCR	User Defined Field Code	Stage: UDF5_DESCR
UDF6_CD	User Defined Field Code	Stage: UDF6_CD
UDF6_DESCR	User Defined Field Code	Stage: UDF6_DESCR
UDF7_CD	User Defined Field Code	Stage: UDF7_CD
UDF7_DESCR	User Defined Field Code	Stage: UDF7_DESCR

Column	OBIEE Field	Load
UDF8_CD	User Defined Field Code	Stage: UDF8_CD
UDF8_DESCR	User Defined Field Code	Stage: UDF8_DESCR
UDF9_CD	User Defined Field Code	Stage: UDF9_CD
UDF9_DESCR	User Defined Field Code	Stage: UDF9_DESCR
UDF10_CD	User Defined Field Code	Stage: UDF10_CD
UDF10_DESCR	User Defined Field Code	Stage: UDF10_DESCR
UPDATE_DTTM	Update Date/Time	Stage: UPDATED_DATE_TIME
DATA_LOAD_DTTM	Data Load Date/Time	System Variable: CURRENT_DATE
DATA_SOURCE_IND	Data Source Indicator	Stage: DATA_SOURCE_IND
JOB_NBR	Job Number	Job Control: JOB_NBR

## Shift Business Object Status Dimension <CD\_SHIFT\_BO\_STATUS>

The Shift Business Object (BO) Status dimension stores the shift BO status information and holds a row for every combination of BO/Status/Reason for the Crew Shift BOs.

### Properties

Property	Value
Table Type	Dimension
SCD Type	1

### Fields

Column	OBIEE Field	Load
SHIFT_BO_STATUS_KEY	Shift Bo Status Surrogate Key	Sequence: OUBI_SHIFT_BO_STAT_SEQ
BUS_OBJ_CD	Business Object Code	Stage: BUS_OBJ_CD
BUS_OBJ_DESCR	Bo Description	Stage: BUS_OBJ_DESCR
STATUS_CD	Bo Status Code	Stage: STATUS_CD
STATUS_DESCR	Status Description	Stage: STATUS_DESCR
STATUS_COND_CD	Status Condition Code	Stage: STATUS_COND_CD
STATUS_COND_DESCR	Status Condition Description	Stage: STATUS_COND_DESCR



<b>Column</b>	<b>OBIEE Field</b>	<b>Load</b>
REASON_CD	Status Reason Code	Stage: REASON_CD
REASON_DESCR	Status Reason Description	Stage: REASON_DESCR
UDF1_CD	User Defined Field Code	Stage: UDF1_CD
UDF1_DESCR	User Defined Field Description	Stage: UDF1_DESC
UDF2_CD	User Defined Field Code	Stage: UDF2_CD
UDF2_DESCR	User Defined Field Description	Stage: UDF2_DESC
UDF3_CD	User Defined Field Code	Stage: UDF3_CD
UDF3_DESCR	User Defined Field Description	Stage: UDF3_DESC
UDF4_CD	User Defined Field Code	Stage: UDF4_CD
UDF4_DESCR	User Defined Field Description	Stage: UDF4_DESC
UDF5_CD	User Defined Field Code	Stage: UDF5_CD
UDF5_DESCR	User Defined Field Description	Stage: UDF5_DESC
UDF6_CD	User Defined Field Code	Stage: UDF6_CD
UDF6_DESCR	User Defined Field Description	Stage: UDF6_DESC
UDF7_CD	User Defined Field Code	Stage: UDF7_CD
UDF7_DESCR	User Defined Field Description	Stage: UDF7_DESC
UDF8_CD	User Defined Field Code	Stage: UDF8_CD
UDF8_DESCR	User Defined Field Description	Stage: UDF8_DESC
UDF9_CD	User Defined Field Code	Stage: UDF9_CD
UDF9_DESCR	User Defined Field Description	Stage: UDF9_DESC
UDF10_CD	User Defined Field Code	Stage: UDF10_CD
UDF10_DESCR	User Defined Field Description	Stage: UDF10_DESC
UPDATE_DTTM	Update Date/Time	Stage: UPDATED_DATE_TIME
DATA_LOAD_DTTM	Data Load Date/Time	System Variable: CURRENT_DATE
DATA_SOURCE_IND	Data Source Indicator	Stage: DATA_SOURCE_IND

Column	OBIEE Field	Load
JOB_NBR	Job Number	Job Control: JOB_NBR

## Task Business Object Status Dimension <CD\_TASK\_BO\_STATUS>

The Task Business Object (BO) Status dimension stores the shift BO status information and holds a row for every combination of BO/Status/Reason for schedulable Task BOs.

### Properties

Property	Value
Table Type	Dimension
SCD Type	1

### Fields

Column	OBIEE Field	Load
TASK_BO_STATUS_KEY	Task Bo Status Surrogate Key	Sequence: OUBI_TASK_BO_STAT_SE Q
BUS_OBJ_CD	Business Object Code	Stage: BUS_OBJ_CD
BUS_OBJ_DESCR	Bo Description	Stage: BUS_OBJ_DESCR
STATUS_CD	Bo Status Code	Stage: STATUS_CD
STATUS_DESCR	Status Description	Stage: STATUS_DESCR
STATUS_COND_CD	Status Condition Code	Stage: STATUS_COND_CD
STATUS_COND_DESCR	Status Condition Description	Stage: STATUS_COND_DESCR
REASON_CD	Status Reason Code	Stage: REASON_CD
REASON_DESCR	Status Reason Description	Stage: REASON_DESCR
INCOMPLETE_IND	Incomplete Indicator	Stage: IINCOMPLETE_IND
UDF1_CD	User Defined Field Code	Stage: UDF1_CD
UDF1_DESCR	User Defined Field Description	Stage: UDF1_DESC
UDF2_CD	User Defined Field Code	Stage: UDF2_CD
UDF2_DESCR	User Defined Field Description	Stage: UDF2_DESC
UDF3_CD	User Defined Field Code	Stage: UDF3_CD

UDF3_DESCR	User Defined Field Description	Stage: UDF3_DESC
UDF4_CD	User Defined Field Code	Stage: UDF4_CD
UDF4_DESCR	User Defined Field Description	Stage: UDF4_DESC
UDF5_CD	User Defined Field Code	Stage: UDF5_CD
UDF5_DESCR	User Defined Field Description	Stage: UDF5_DESC
UDF6_CD	User Defined Field Code	Stage: UDF6_CD
UDF6_DESCR	User Defined Field Description	Stage: UDF6_DESC
UDF7_CD	User Defined Field Code	Stage: UDF7_CD
UDF7_DESCR	User Defined Field Description	Stage: UDF7_DESC
UDF8_CD	User Defined Field Code	Stage: UDF8_CD
UDF8_DESCR	User Defined Field Description	Stage: UDF8_DESC
UDF9_CD	User Defined Field Code	Stage: UDF9_CD
UDF9_DESCR	User Defined Field Description	Stage: UDF9_DESC
UDF10_CD	User Defined Field Code	Stage: UDF10_CD
UDF10_DESCR	User Defined Field Description	Stage: UDF10_DESC
UPDATE_DTTM	Update Date/Time	Stage: UPDATED_DATE_TIME
DATA_LOAD_DTTM	Data Load Date/Time	System Variable: CURRENT_DATE
DATA_SOURCE_IND	Data Source Indicator	Stage: DATA_SOURCE_IND
JOB_NBR	Job Number	Job Control: JOB_NBR

## Crew Shift Dimension <CD\_CREW\_SHIFT>

The Crew Shift dimension stores shift details of the respective crew.

### Properties

Property	Value
Table Type	Dimension
SCD Type	2

**Fields**

<b>Column</b>	<b>OBIEE Field</b>	<b>Load</b>
CREW_SHIFT_KEY	Crew shift key	Stage: CREW_SHIFT_KEY
DATA_LOAD_DTTM	Data Load Date/Time	System Variable: CURRENT_DATE
DATA_SOURCE_IND	Data Source Indicator	Stage: DATA_SOURCE_IND
EFF_START_DTTM	Effective Start Date/Time	UPDATE_DTTM
EFF_END_DTTM	Effective End Date/Time	System Variable: HIGH_DATE
JOB_NBR	Job Number	Job Control: JOB_NBR
SRC_CREW_SHIFT_ID	Crew Shift ID	Stage: CREW_SHIFT_ID
UDF1_CD	User Defined Field Code	Stage: UDF1_CD
UDF1_DESCR	User Defined Field Description	Stage: UDF1_DESC
UDF2_CD	User Defined Field Code	Stage: UDF2_CD
UDF2_DESCR	User Defined Field Description	Stage: UDF2_DESC
UDF3_CD	User Defined Field Code	Stage: UDF3_CD
UDF3_DESCR	User Defined Field Description	Stage: UDF3_DESC
UDF4_CD	User Defined Field Code	Stage: UDF4_CD
UDF4_DESCR	User Defined Field Description	Stage: UDF4_DESC
UDF5_CD	User Defined Field Code	Stage: UDF5_CD
UDF5_DESCR	User Defined Field Description	Stage: UDF5_DESC
UDF6_CD	User Defined Field Code	Stage: UDF6_CD
UDF6_DESCR	User Defined Field Description	Stage: UDF6_DESC
UDF7_CD	User Defined Field Code	Stage: UDF7_CD
UDF7_DESCR	User Defined Field Description	Stage: UDF7_DESC
UDF8_CD	User Defined Field Code	Stage: UDF8_CD
UDF8_DESCR	User Defined Field Description	Stage: UDF8_DESC
UDF9_CD	User Defined Field Code	Stage: UDF9_CD
UDF9_DESCR	User Defined Field Description	Stage: UDF9_DESC

UDF10_CD	User Defined Field Code	Stage: UDF10_CD
UDF10_DESCR	User Defined Field Description	Stage: UDF10_DESC
CREW_SHIFT_INFO	Shift Description	Stage: SHIFT_INFO
CREW_SHIFT_TYPE_CD	Shift Type Code	Stage: CREW_SHIFT_TYPE_CD
CREW_SHIFT_TYPE_DESCR	Shift Type Description	Stage: CREW_SHIFT_TYPE_DESCR
PRIMARY_FN_CD	Primary Function Code	Stage: PRIMARY_FN_CD
PRIMARY_FN_DESCR	Primary Function Description	Stage: PRIMARY_FN_DESCR

## Crew Dimension <CD\_CREW>

The Crew dimension stores resource information for a crew.

### Properties

Property	Value
Table Type	Dimension
SCD Type	2

### Fields

Column	OBIEE Field	Load
CREW_CD	Crew Code	Stage: CREW_CD
CREW_TYPE_CD	Crew Type Code	Stage: CREW_TYPE_CD
CREW_TYPE_DESCR	Crew Type Description	Stage: CREW_TYPE_DESCR
ORG_UNIT1_CD	Organization Unit 1 Code	Stage: ORG_UNIT1_CD
ORG_UNIT1_DESCR	Organization Unit 1 Description	Stage: ORG_UNIT1_DESCR
ORG_UNIT2_CD	Organization Unit 2 Code	Stage: ORG_UNIT2_CD
ORG_UNIT2_DESCR	Organization Unit 2 Description	Stage: ORG_UNIT2_DESCR
ORG_UNIT3_CD	Organization Unit 3 Code	Stage: ORG_UNIT3_CD
ORG_UNIT3_DESCR	Organization Unit 3 Description	Stage: ORG_UNIT3_DESCR
SRC_CREW_ID	Crew ID	Stage: CREW_ID

UDF1_CD	User Defined Field Code	Stage: UDF1_CD
UDF1_DESCR	User Defined Field Description	Stage: UDF1_DESC
UDF2_CD	User Defined Field Code	Stage: UDF2_CD
UDF2_DESCR	User Defined Field Description	Stage: UDF2_DESC
UDF3_CD	User Defined Field Code	Stage: UDF3_CD
UDF3_DESCR	User Defined Field Description	Stage: UDF3_DESC
UDF4_CD	User Defined Field Code	Stage: UDF4_CD
UDF4_DESCR	User Defined Field Description	Stage: UDF4_DESC
UDF5_CD	User Defined Field Code	Stage: UDF5_CD
UDF5_DESCR	User Defined Field Description	Stage: UDF5_DESC
UDF6_CD	User Defined Field Code	Stage: UDF6_CD
UDF6_DESCR	User Defined Field Description	Stage: UDF6_DESC
UDF7_CD	User Defined Field Code	Stage: UDF7_CD
UDF7_DESCR	User Defined Field Description	Stage: UDF7_DESC
UDF8_CD	User Defined Field Code	Stage: UDF8_CD
UDF8_DESCR	User Defined Field Description	Stage: UDF8_DESC
UDF9_CD	User Defined Field Code	Stage: UDF9_CD
UDF9_DESCR	User Defined Field Description	Stage: UDF9_DESC
UDF10_CD	User Defined Field Code	Stage: UDF10_CD
UDF10_DESCR	User Defined Field Description	Stage: UDF10_DESC
EFF_START_DTTM	Effective Start Date/Time	UPDATE_DTTM
EFF_END_DTTM	Effective End Date/Time	System Variable: HIGH_DATE
DATA_LOAD_DTTM	Data Load Date/Time	System Variable: CURRENT_DATE
DATA_SOURCE_IND	Data Source Indicator	Stage: DATA_SOURCE_IND
JOB_NBR	Job Number	Job Control: JOB_NBR

## Task Type Dimension <CD\_TASK\_TYPE>

The Task Type dimension stores details of the type of tasks assigned to the crew.

### Properties

Property	Value
Table Type	Dimension
SCD Type	1

### Fields

Column	OBIEE Field	Load
TASK_TYPE_KEY	Task Type Dimension Surrogate Key	Sequence: OUBI_TASK_TYPE_SEQ
TASK_TYPE_CD	Task Type Code	Stage: TASK_TYPE_CD
TASK_TYPE_DESCR	Task Type Description	Stage: TASK_TYPE_DESCR
TASK_CLASS_CD	Task Class Code	Stage: TASK_CLASS_CD
TASK_CLASS_DESCR	Task Class Description	Stage: TASK_CLASS_DESCR
PRIORITY_PROF_CD	Priority Profile Code	Stage: PRIORITY_PROF_CD
PRIORITY_PROF_DESCR	Priority Profile Description	Stage: PRIORITY_PROF_DESCR
SVC_CATEGORY_CD	Service Category Code	Stage: SVC_CATEGORY_CD
SVC_CATEGORY_DESCR	Service Category Description	Stage: SVC_CATEGORY_DESCR
RESP_TM_SLA	Response Time SLA	Stage: RESP_TM_SLA
UDF1_CD	User Defined Field Code	Stage: UDF1_CD
UDF1_DESCR	User Defined Field Description	Stage: UDF1_DESCR
UDF2_CD	User Defined Field Code	Stage: UDF2_CD
UDF2_DESCR	User Defined Field Description	Stage: UDF2_DESC
UDF3_CD	User Defined Field Code	Stage: UDF3_CD
UDF3_DESCR	User Defined Field Description	Stage: UDF3_DESC
UDF4_CD	User Defined Field Code	Stage: UDF4_CD
UDF4_DESCR	User Defined Field Description	Stage: UDF4_DESC
UDF5_CD	User Defined Field Code	Stage: UDF5_CD

UDF5_DESCR	User Defined Field Description	Stage: UDF5_DESC
UDF6_CD	User Defined Field Code	Stage: UDF6_CD
UDF6_DESCR	User Defined Field Description	Stage: UDF6_DESC
UDF7_CD	User Defined Field Code	Stage: UDF7_CD
UDF7_DESCR	User Defined Field Description	Stage: UDF7_DESC
UDF8_CD	User Defined Field Code	Stage: UDF8_CD
UDF8_DESCR	User Defined Field Description	Stage: UDF8_DESC
UDF9_CD	User Defined Field Code	Stage: UDF9_CD
UDF9_DESCR	User Defined Field Description	Stage: UDF9_DESC
UDF10_CD	User Defined Field Code	Stage: UDF10_CD
UDF10_DESCR	User Defined Field Description	Stage: UDF10_DESC
UPDATE_DTTM	Update Date/Time	Stage: UPDATED_DATE_TIME
DATA_LOAD_DTTM	Data Load Date/Time	System Variable: CURRENT_DATE
DATA_SOURCE_IND	Data Source Indicator	Stage: DATA_SOURCE_IND
JOB_NBR	Job Number	Job Control: JOB_NBR

## Service Area Dimension <CD\_SERVICE\_AREA>

The Service Area dimension stores details of the location where the crew performs activities.

### Properties

Property	Value
Table Type	Dimension
SCD Type	1

### Fields

Column	OBIEE Field	Load
SERVICE_AREA_KEY	Service area key	Sequence: SERVICE_AREA_KEY



DATA_LOAD_DTTM	Data Load Date/Time	System Variable: CURRENT_DATE
DATA_SOURCE_IND	Data Source Indicator	Stage: DATA_SOURCE_IND
JOB_NBR	Job Number	Job Control: JOB_NBR
UDF1_CD	User Defined Field Code	Stage: UDF1_CD
UDF1_DESCR	User Defined Field Description	Stage: UDF1_DESCR
UDF2_CD	User Defined Field Code	Stage: UDF2_CD
UDF2_DESCR	User Defined Field Description	Stage: UDF2_DESC
UDF3_CD	User Defined Field Code	Stage: UDF3_CD
UDF3_DESCR	User Defined Field Description	Stage: UDF3_DESC
UDF4_CD	User Defined Field Code	Stage: UDF4_CD
UDF4_DESCR	User Defined Field Description	Stage: UDF4_DESC
UDF5_CD	User Defined Field Code	Stage: UDF5_CD
UDF5_DESCR	User Defined Field Description	Stage: UDF5_DESC
UDF6_CD	User Defined Field Code	Stage: UDF6_CD
UDF6_DESCR	User Defined Field Description	Stage: UDF6_DESC
UDF7_CD	User Defined Field Code	Stage: UDF7_CD
UDF7_DESCR	User Defined Field Description	Stage: UDF7_DESC
UDF8_CD	User Defined Field Code	Stage: UDF8_CD
UDF8_DESCR	User Defined Field Description	Stage: UDF8_DESC
UDF9_CD	User Defined Field Code	Stage: UDF9_CD
UDF9_DESCR	User Defined Field Description	Stage: UDF9_DESC
UDF10_CD	User Defined Field Code	Stage: UDF10_CD
UDF10_DESCR	User Defined Field Description	Stage: UDF10_DESC
SERVICE_AREA_CD	Service Area Code	Stage: SERVICE_AREA_CD
SERVICE_AREA_DESCR	Service Area Description	Stage: SERVICE_AREA_DESCR
HIER_UNIT1_CD	Hierarchy Unit1 Code	Stage: HIER_UNIT1_CD
HIER_UNIT1_DESCR	Hierarchy Unit1 Description	Stage: HIER_UNIT1_DESCR

HIER_UNIT2_CD	Hierarchy Unit2 Code	Stage: HIER_UNIT2_CD
HIER_UNIT2_DESCR	Hierarchy Unit2 Description	Stage: HIER_UNIT2_DESCR
HIER_UNIT3_CD	Hierarchy Unit3 Code	Stage: HIER_UNIT3_CD
HIER_UNIT3_DESCR	Hierarchy Unit3 Description	Stage: HIER_UNIT3_DESCR
UPDATE_DTTM	Update Date/Time	Stage: UPDATED_DATE_TIME

## Appointment Time Dimension <CD\_APPT\_TM>

The Appointment Time dimension stores the configurable time ranges in minutes that indicate whether the crew missed an appointment, and if so, by how much time.

### Properties

Property	Value
Table Type	Dimension
SCD Type	1

### Fields

Column	OBIEE Field	Load
APPT_TM_KEY	Appointment Time Dimension Surrogate Key	Auto generated key populated using OUBI_APPT_TM_SEQ
APPT_TM_CD	Appointment Time Code	
APPT_TM_DESCR	Appointment Time Description	
APPT_STATUS_CD	Appointment State Code	
APPT_STATUS_DESCR	Appointment State Description	
UDF1_CD	User Defined Field Code	Stage: UDF1_CD
UDF1_DESCR	User Defined Field Description	Stage: UDF1_DESC
UDF2_CD	User Defined Field Code	Stage: UDF2_CD
UDF2_DESCR	User Defined Field Description	Stage: UDF2_DESC
UDF3_CD	User Defined Field Code	Stage: UDF3_CD
UDF3_DESCR	User Defined Field Description	Stage: UDF3_DESC
UDF4_CD	User Defined Field Code	Stage: UDF4_CD

UDF4_DESCR	User Defined Field Description	Stage: UDF4_DESC
UDF5_CD	User Defined Field Code	Stage: UDF5_CD
UDF5_DESCR	User Defined Field Description	Stage: UDF5_DESC
UDF6_CD	User Defined Field Code	Stage: UDF6_CD
UDF6_DESCR	User Defined Field Description	Stage: UDF6_DESC
UDF7_CD	User Defined Field Code	Stage: UDF7_CD
UDF7_DESCR	User Defined Field Description	Stage: UDF7_DESC
UDF8_CD	User Defined Field Code	Stage: UDF8_CD
UDF8_DESCR	User Defined Field Description	Stage: UDF8_DESC
UDF9_CD	User Defined Field Code	Stage: UDF9_CD
UDF9_DESCR	User Defined Field Description	Stage: UDF9_DESC
UDF10_CD	User Defined Field Code	Stage: UDF10_CD
UDF10_DESCR	User Defined Field Description	Stage: UDF10_DESC
UPDATE_DT_TM	Update Date/Time	Stage: UPDATED_DATE_TIME
DATA_LOAD_DT_TM	Data Load Date/Time	System Variable: CURRENT_DATE
DATA_SOURCE_IND	Data Source Indicator	Stage: DATA_SOURCE_IND
JOB_NBR	Job Number	Job Control: JOB_NBR

## Appointment Time of Day Dimension <CD\_APPT\_TM\_OF\_DAY>

The Appointment Time of Day dimension stores the configurable time ranges classifying an appointment time of day.

### Properties

Property	Value
Table Type	Dimension
SCD Type	1

**Fields**

<b>Column</b>	<b>OBIEE Field</b>	<b>Load</b>
APPT_TM_OF_DAY_KEY	Appointment Time of Day Dimension Surrogate Key	Auto generated key populated using OUBI_APPT_TM_OF_DAY_SEQ
APPT_TM_OF_DAY_CD	Appointment Time Of Day Code	Natural Key
APPT_TM_OF_DAY_DESCR	Appointment Time of Day Description	Stage: APPT_TM_OF_DAY_DESC
UDF1_CD	User Defined Field Code	Stage: UDF1_CD
UDF1_DESCR	User Defined Field Description	Stage: UDF1_DESC
UDF2_CD	User Defined Field Code	Stage: UDF2_CD
UDF2_DESCR	User Defined Field Description	Stage: UDF2_DESC
UDF3_CD	User Defined Field Code	Stage: UDF3_CD
UDF3_DESCR	User Defined Field Description	Stage: UDF3_DESC
UDF4_CD	User Defined Field Code	Stage: UDF4_CD
UDF4_DESCR	User Defined Field Description	Stage: UDF4_DESC
UDF5_CD	User Defined Field Code	Stage: UDF5_CD
UDF5_DESCR	User Defined Field Description	Stage: UDF5_DESC
UDF6_CD	User Defined Field Code	Stage: UDF6_CD
UDF6_DESCR	User Defined Field Description	Stage: UDF6_DESC
UDF7_CD	User Defined Field Code	Stage: UDF7_CD
UDF7_DESCR	User Defined Field Description	Stage: UDF7_DESC
UDF8_CD	User Defined Field Code	Stage: UDF8_CD
UDF8_DESCR	User Defined Field Description	Stage: UDF8_DESC
UDF9_CD	User Defined Field Code	Stage: UDF9_CD
UDF9_DESCR	User Defined Field Description	Stage: UDF9_DESC
UDF10_CD	User Defined Field Code	Stage: UDF10_CD
UDF10_DESCR	User Defined Field Description	Stage: UDF10_DESC

UPDATE_DTTM	Update Date/Time	Stage: UPDATED_DATE_TIME
DATA_LOAD_DTTM	Data Load Date/Time	System Variable: CURRENT_DATE
DATA_SOURCE_IND	Data Source Indicator	Stage: DATA_SOURCE_IND
JOB_NBR	Job Number	Job Control: JOB_NBR

## Travel Duration Deviation Dimension <CD\_TRAVEL\_DUR\_DEV>

The Travel Duration Deviation dimension stores the configurable percentage ranges that indicate deviation of actual travel duration relative to estimated travel duration.

### Properties

Property	Value
Table Type	Dimension
SCD Type	1

### Fields

Column	OBIEE Field	Load
TRAVEL_DUR_DEV_KEY	Travel Duration Deviation Dimension Surrogate Key	Auto generated key populated using OUBI_TRAVEL_DUR_DEV_SEQ
TRAVEL_DUR_DEV_CD	Travel Duration Deviation Code	Natural Key
TRAVEL_DUR_DEV_DESCR	Travel Duration Deviation Description	Stage: TRAVEL_DUR_DEV_DESC
UDF1_CD	User Defined Field Code	Stage: UDF1_CD
UDF1_DESCR	User Defined Field Description	Stage: UDF1_DESC
UDF2_CD	User Defined Field Code	Stage: UDF2_CD
UDF2_DESCR	User Defined Field Description	Stage: UDF2_DESC
UDF3_CD	User Defined Field Code	Stage: UDF3_CD
UDF3_DESCR	User Defined Field Description	Stage: UDF3_DESC
UDF4_CD	User Defined Field Code	Stage: UDF4_CD
UDF4_DESCR	User Defined Field Description	Stage: UDF4_DESC

UDF5_CD	User Defined Field Code	Stage: UDF5_CD
UDF5_DESCR	User Defined Field Description	Stage: UDF5_DESC
UDF6_CD	User Defined Field Code	Stage: UDF6_CD
UDF6_DESCR	User Defined Field Description	Stage: UDF6_DESC
UDF7_CD	User Defined Field Code	Stage: UDF7_CD
UDF7_DESCR	User Defined Field Description	Stage: UDF7_DESC
UDF8_CD	User Defined Field Code	Stage: UDF8_CD
UDF8_DESCR	User Defined Field Description	Stage: UDF8_DESC
UDF9_CD	User Defined Field Code	Stage: UDF9_CD
UDF9_DESCR	User Defined Field Description	Stage: UDF9_DESC
UDF10_CD	User Defined Field Code	Stage: UDF10_CD
UDF10_DESCR	User Defined Field Description	Stage: UDF10_DESC
UPDATE_DTTM	Update Date/Time	Stage: UPDATED_DATE_TIME
DATA_LOAD_DTTM	Data Load Date/Time	System Variable: CURRENT_DATE
DATA_SOURCE_IND	Data Source Indicator	Stage: DATA_SOURCE_IND
JOB_NBR	Job Number	Job Control: JOB_NBR

## Late Logon Time Dimension <CD\_LATE\_LOGON\_TM>

The Late Logon Time dimension stores the configurable time ranges, in minutes, that indicate by how much time the crew is late to log-on.

### Properties

Property	Value
Table Type	Dimension
SCD Type	1

**Fields**

<b>Column</b>	<b>OBIEE Field</b>	<b>Load</b>
LATE_LOGON_TM_KEY	Late Logon Time Dimension Surrogate Key	Auto generated key  Populated using OUBI_LATE_LOGON_TM_SEQ
LATE_LOGON_TM_CD	Late Logon Time Code	Natural Key
LATE_LOGON_TM_DESCR	Late Logon Time Description	Stage: LATE_LOGON_TM_DESCR
CONSIDERED_ONTIME_CD	Considered On Time Code	Stage: CONSIDERED_ONTIME_CD
CONSIDERED_ONTIME_DESCR	Considered On Time Description	Stage: CONSIDERED_ONTIME_DESCR
UDF1_CD	User Defined Field Code	Stage: UDF1_CD
UDF1_DESCR	User Defined Field Description	Stage: UDF1_DESC
UDF2_CD	User Defined Field Code	Stage: UDF2_CD
UDF2_DESCR	User Defined Field Description	Stage: UDF2_DESC
UDF3_CD	User Defined Field Code	Stage: UDF3_CD
UDF3_DESCR	User Defined Field Description	Stage: UDF3_DESC
UDF4_CD	User Defined Field Code	Stage: UDF4_CD
UDF4_DESCR	User Defined Field Description	Stage: UDF4_DESC
UDF5_CD	User Defined Field Code	Stage: UDF5_CD
UDF5_DESCR	User Defined Field Description	Stage: UDF5_DESC
UDF6_CD	User Defined Field Code	Stage: UDF6_CD
UDF6_DESCR	User Defined Field Description	Stage: UDF6_DESC
UDF7_CD	User Defined Field Code	Stage: UDF7_CD
UDF7_DESCR	User Defined Field Description	Stage: UDF7_DESC
UDF8_CD	User Defined Field Code	Stage: UDF8_CD
UDF8_DESCR	User Defined Field Description	Stage: UDF8_DESC

UDF9_CD	User Defined Field Code	Stage: UDF9_CD
UDF9_DESCR	User Defined Field Description	Stage: UDF9_DESC
UDF10_CD	User Defined Field Code	Stage: UDF10_CD
UDF10_DESCR	User Defined Field Description	Stage: UDF10_DESC
UPDATE_DTTM	Update Date/Time	Stage: UPDATED_DATE_TIME
DATA_LOAD_DTTM	Data Load Date/Time	System Variable: CURRENT_DATE
DATA_SOURCE_IND	Data Source Indicator	Stage: DATA_SOURCE_IND
JOB_NBR	Job Number	Job Control: JOB_NBR

## Early Logoff Time Dimension <CD\_EARLY\_LOGOFF\_TM>

The Early Logoff Time dimension stores the configurable time ranges, in minutes, indicating by how much time the crew is logging off earlier than planned.

### Properties

Property	Value
Table Type	Dimension
SCD Type	1

### Fields

Column	OBIEE Field	Load
EARLY_LOGOFF_TM_KEY	Early Logoff Time Dimension Surrogate Key	Sequence: OUBI_EARLY_LOGOFF_TM_SEQ
EARLY_LOGOFF_TM_CD	Early Logoff Time Code	Stage: EARLY_LOGOFF_TM_CD
EARLY_LOGOFF_TM_DESCR	Early Logoff Time Description	Stage: EARLY_LOGOFF_TM_DESCR
CONSIDERED_ONTIME_CD	Considered On Time Code	Stage: CONSIDERED_ONTIME_CD
CONSIDERED_ONTIME_DESCR	Considered On Time Description	Stage: CONSIDERED_ONTIME_DESCR
UDF1_CD	User Defined Field Code	Stage: UDF1_CD



UDF1_DESCR	User Defined Field Description	Stage: UDF1_DESCR
UDF2_CD	User Defined Field Code	Stage: UDF2_CD
UDF2_DESCR	User Defined Field Description	Stage: UDF2_DESCR
UDF3_CD	User Defined Field Code	Stage: UDF3_CD
UDF3_DESCR	User Defined Field Description	Stage: UDF3_DESCR
UDF4_CD	User Defined Field Code	Stage: UDF4_CD
UDF4_DESCR	User Defined Field Description	Stage: UDF4_DESCR
UDF5_CD	User Defined Field Code	Stage: UDF5_CD
UDF5_DESCR	User Defined Field Description	Stage: UDF5_DESCR
UDF6_CD	User Defined Field Code	Stage: UDF6_CD
UDF6_DESCR	User Defined Field Description	Stage: UDF6_DESCR
UDF7_CD	User Defined Field Code	Stage: UDF7_CD
UDF7_DESCR	User Defined Field Description	Stage: UDF7_DESCR
UDF8_CD	User Defined Field Code	Stage: UDF8_CD
UDF8_DESCR	User Defined Field Description	Stage: UDF8_DESCR
UDF9_CD	User Defined Field Code	Stage: UDF9_CD
UDF9_DESCR	User Defined Field Description	Stage: UDF9_DESCR
UDF10_CD	User Defined Field Code	Stage: UDF10_CD
UDF10_DESCR	User Defined Field Description	Stage: UDF10_DESCR
UPDATE_DTTM	Update Date/Time	Stage: UPDATE_DTTM
DATA_LOAD_DTTM	Data Load Date/Time	System Variable: CURRENT_DATE
DATA_SOURCE_IND	Data Source Indicator	Stage: DATA_SOURCE_IND
JOB_NBR	Job Number	Job Control: JOB_NBR

## Work Duration Deviation Dimension <CD\_WORK\_DUR\_DEV>

The Work Duration Deviation dimension stores the configurable percentage ranges that indicate the deviation of actual work duration relative to the estimated work duration.

### Properties

Property	Value
Table Type	Dimension
SCD Type	1

### Fields

Column	OBIEE Field	Load
WORK_DUR_DEV_KEY	Work Duration Deviation Dimension Surrogate Key	Sequence: OUBI_WORK_DUR_DEV_SEQ
WORK_DUR_DEV_CD	Work Duration Deviation Code	Stage: WORK_DUR_DEV_CD
WORK_DUR_DEV_DESCR	Work Duration Deviation Description	Stage: WORK_DUR_DEV_DESCR
UDF1_CD	User Defined Field Code	Stage: UDF1_CD
UDF1_DESCR	User Defined Field Description	Stage: UDF1_DESC
UDF2_CD	User Defined Field Code	Stage: UDF2_CD
UDF2_DESCR	User Defined Field Description	Stage: UDF2_DESC
UDF3_CD	User Defined Field Code	Stage: UDF3_CD
UDF3_DESCR	User Defined Field Description	Stage: UDF3_DESC
UDF4_CD	User Defined Field Code	Stage: UDF4_CD
UDF4_DESCR	User Defined Field Description	Stage: UDF4_DESC
UDF5_CD	User Defined Field Code	Stage: UDF5_CD
UDF5_DESCR	User Defined Field Description	Stage: UDF5_DESC
UDF6_CD	User Defined Field Code	Stage: UDF6_CD
UDF6_DESCR	User Defined Field Description	Stage: UDF6_DESC
UDF7_CD	User Defined Field Code	Stage: UDF7_CD
UDF7_DESCR	User Defined Field Description	Stage: UDF7_DESC

UDF8_CD	User Defined Field Code	Stage: UDF8_CD
UDF8_DESCR	User Defined Field Description	Stage: UDF8_DESC
UDF9_CD	User Defined Field Code	Stage: UDF9_CD
UDF9_DESCR	User Defined Field Description	Stage: UDF9_DESC
UDF10_CD	User Defined Field Code	Stage: UDF10_CD
UDF10_DESCR	User Defined Field Description	Stage: UDF10_DESC
UPDATE_DTTM	Update Date/Time	Stage: UPDATED_DATE_TIME
DATA_LOAD_DTTM	Data Load Date/Time	System Variable: CURRENT_DATE
DATA_SOURCE_IND	Data Source Indicator	Stage: DATA_SOURCE_IND
JOB_NBR	Job Number	Job Control: JOB_NBR

## Travel Distance Deviation Dimension <CD\_TRAVEL\_DIST\_DEV>

The Travel Distance Deviation dimension stores the configurable percentage ranges that indicate the deviation of actual distance relative to the estimated distance traveled by crew.

### Properties

Property	Value
Table Type	Dimension
SCD Type	1

### Fields

Column	OBIEE Field	Load
TRAVEL_DIST_DEV_KEY	Travel Distance Deviation Dimension Surrogate Key	OUBL_TRAVEL_DIST_DEV_SEQ
TRAVEL_DIST_DEV_CD	Travel Distance Deviation Code	CTRAVEL_DIST_DEV_CD
TRAVEL_DIST_DEV_DESCR	Travel Distance Deviation Description	TRAVEL_DIST_DEV_DESCR
UDF1_CD	User Defined Field Code	Stage: UDF1_CD
UDF1_DESCR	User Defined Field Description	Stage: UDF1_DESC
UDF2_CD	User Defined Field Code	Stage: UDF2_CD

UDF2_DESCR	User Defined Field Description	Stage: UDF2_DESC
UDF3_CD	User Defined Field Code	Stage: UDF3_CD
UDF3_DESCR	User Defined Field Description	Stage: UDF3_DESC
UDF4_CD	User Defined Field Code	Stage: UDF4_CD
UDF4_DESCR	User Defined Field Description	Stage: UDF4_DESC
UDF5_CD	User Defined Field Code	Stage: UDF5_CD
UDF5_DESCR	User Defined Field Description	Stage: UDF5_DESC
UDF6_CD	User Defined Field Code	Stage: UDF6_CD
UDF6_DESCR	User Defined Field Description	Stage: UDF6_DESC
UDF7_CD	User Defined Field Code	Stage: UDF7_CD
UDF7_DESCR	User Defined Field Description	Stage: UDF7_DESC
UDF8_CD	User Defined Field Code	Stage: UDF8_CD
UDF8_DESCR	User Defined Field Description	Stage: UDF8_DESC
UDF9_CD	User Defined Field Code	Stage: UDF9_CD
UDF9_DESCR	User Defined Field Description	Stage: UDF9_DESC
UDF10_CD	User Defined Field Code	Stage: UDF10_CD
UDF10_DESCR	User Defined Field Description	Stage: UDF10_DESC
UPDATE_DTTM	Update Date/Time	Stage: UPDATE_DTTM
DATA_LOAD_DTTM	Data Load Date/Time	System Variable: CURRENT_DATE
DATA_SOURCE_IND	Data Source Indicator	Stage: DATA_SOURCE_IND
JOB_NBR	Job Number	Job Control: JOB_NBR

## Response Time Deviation Dimension <CD\_RESP\_TM\_DEV>

The Response Time Deviation dimension stores the configurable ranges, in minutes, of the response time deviation from SLA.

### Properties

Property	Value
Table Type	Dimension
SCD Type	1

### Fields

Column	OBIEE Field	Load
RESP_TM_DEV_KEY	Response Time Deviation Dimension Surrogate Key	Sequence: OUBI_RESP_TM_DEV_SEQ
RESP_TM_DEV_CD	Response Time Deviation Code	Stage: RESP_TM_DEV_CD
RESP_TM_DEV_DESCR	Response Time Deviation Description	Stage: RESP_TM_DEV_DESCR
SLA_STATUS_CD	SLA State Code	Stage: SLA_STATE_CD
SLA_STATUS_DESCR	SLA State Description	Stage: SLA_STATE_DESCR
UDF1_CD	User Defined Field Code	Stage: UDF1_CD
UDF1_DESCR	User Defined Field Description	Stage: UDF1_DESC
UDF2_CD	User Defined Field Code	Stage: UDF2_CD
UDF2_DESCR	User Defined Field Description	Stage: UDF2_DESC
UDF3_CD	User Defined Field Code	Stage: UDF3_CD
UDF3_DESCR	User Defined Field Description	Stage: UDF3_DESC
UDF4_CD	User Defined Field Code	Stage: UDF4_CD
UDF4_DESCR	User Defined Field Description	Stage: UDF4_DESC
UDF5_CD	User Defined Field Code	Stage: UDF5_CD
UDF5_DESCR	User Defined Field Description	Stage: UDF5_DESC
UDF6_CD	User Defined Field Code	Stage: UDF6_CD
UDF6_DESCR	User Defined Field Description	Stage: UDF6_DESC

UDF7_CD	User Defined Field Code	Stage: UDF7_CD
UDF7_DESCR	User Defined Field Description	Stage: UDF7_DESC
UDF8_CD	User Defined Field Code	Stage: UDF8_CD
UDF8_DESCR	User Defined Field Description	Stage: UDF8_DESC
UDF9_CD	User Defined Field Code	Stage: UDF9_CD
UDF9_DESCR	User Defined Field Description	Stage: UDF9_DESC
UDF10_CD	User Defined Field Code	Stage: UDF10_CD
UDF10_DESCR	User Defined Field Description	Stage: UDF10_DESC
UPDATE_DTTM	Update Date/Time	Stage: UPDATE_DTTM
DATA_LOAD_DTTM	Data Load Date/Time	System Variable: CURRENT_DATE
DATA_SOURCE_IND	Data Source Indicator	Stage: DATA_SOURCE_IND
JOB_NBR	Job Number	Job Control: JOB_NBR

## Address Dimension <CD\_ADDR>

The Address dimension stores the location details of logon and logoff of crew (from Crew Shift) and also the location where the activity was performed.

### Properties

Property	Value
Table Type	Dimension
SCD Type	2

### Fields

Column	OBIEE Field	Load
ADDR_KEY	Address Key	Sequence: SPL_ADDR_SEQ
ADDR_LINE1	Address Line1	Stage: ADDR_LINE1
ADDR_LINE2	Address Line2	Stage: ADDR_LINE2
ADDR_LINE3	Address Line3	Stage: ADDR_LINE3
ADDR_LINE4	Address Line4	Stage: ADDR_LINE4
CROSS_STREET	Cross Street	Stage: CROSS_STREET

SUBURB	Suburb	Stage: SUBURB
CITY	City	Stage: CITY
COUNTY	County	Stage: COUNTY
POSTAL	Postal	Stage: POSTAL
STATE_CD	State Code	Stage: STATE_CD
STATE_DESCR	State Description	Stage: STATE_DESCR
COUNTRY_CD	Country Code	Stage: COUNTRY_CD
COUNTRY_DESCR	Country Description	Stage: COUNTRY_DESCR
GEO_CODE	Geo Code	Stage: GEO_CODE
UDF1_CD	User Defined Field Code	Stage: UDF1_CD
UDF1_DESCR	User Defined Field Description	Stage: UDF1_DESC
UDF2_CD	User Defined Field Code	Stage: UDF2_CD
UDF2_DESCR	User Defined Field Description	Stage: UDF2_DESC
UDF3_CD	User Defined Field Code	Stage: UDF3_CD
UDF3_DESCR	User Defined Field Description	Stage: UDF3_DESC
UDF4_CD	User Defined Field Code	Stage: UDF4_CD
UDF4_DESCR	User Defined Field Description	Stage: UDF4_DESC
UDF5_CD	User Defined Field Code	Stage: UDF5_CD
UDF5_DESCR	User Defined Field Description	Stage: UDF5_DESC
UDF6_CD	User Defined Field Code	Stage: UDF6_CD
UDF6_DESCR	User Defined Field Description	Stage: UDF6_DESC
UDF7_CD	User Defined Field Code	Stage: UDF7_CD
UDF7_DESCR	User Defined Field Description	Stage: UDF7_DESC
UDF8_CD	User Defined Field Code	Stage: UDF8_CD
UDF8_DESCR	User Defined Field Description	Stage: UDF8_DESC
UDF9_CD	User Defined Field Code	Stage: UDF9_CD
UDF9_DESCR	User Defined Field Description	Stage: UDF9_DESC
UDF10_CD	User Defined Field Code	Stage: UDF10_CD

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UDF10_DESCR	User Defined Field Description	Stage: UDF10_DESC
EFF_START_DTTM	Effective Start Date/Time	Stage: UPDATE_DTTM
EFF_END_DTTM	Effective End Date/Time	System Variable: HIGH_DATE
DATA_LOAD_DTTM	Data Load Date/Time	System Variable: CURRENT_DATE
DATA_SOURCE_IND	Data Source Indicator	Stage: DATA_SOURCE_IND
JOB_NBR	Job Number	Job Control: JOB_NBR
SRC_ADDR_ID	Address ID	Stage: SRC_ADDR_ID
ADDR_INFO	Address Description	Stage: ADDR_INFO

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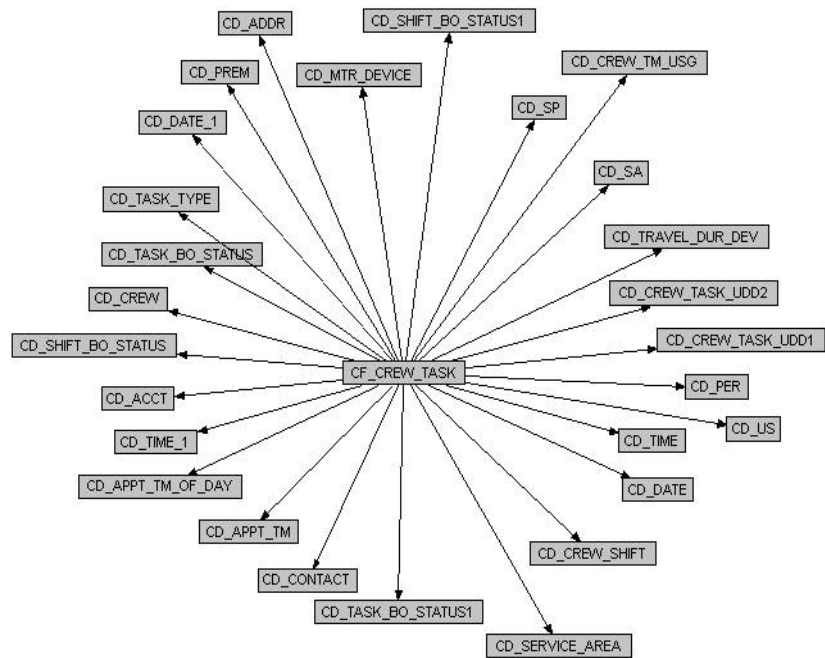


# Fact Table Schema

## Crew Tasks Fact <CF\_CREW\_TASK>

The Crew Task fact accumulates the shift and task log tables' state transition entries for all completed shifts.

### Entity Relationship Diagram



### Properties

Property	Value
Table Type	Fact
Fact Type	Accumulation
Materialized View	B1_CREW_TASKS_MON_MV1

### Fields

Field	OBIEE Field	Load
CREW_TASK_KEY	Crew Task Surrogate Key	Sequence: Required OUBI_CREW_TASK_SEQ
PREV_STATE_DUR	Time in Previous State	Stage: TIME_IN_PREVIOUS_STATE
APPOINTMENT_IND	Appointment Indicator	Stage: APPOINTMENT_IND
EMERGENCY_IND	Emergency Indicator	Stage: EMERGENCY_IND

<b>Field</b>	<b>OBIEE Field</b>	<b>Load</b>
EST_TRAVEL_DUR	Estimated Travel Time	Stage: ESTIMATED_TRAVEL_TIME
FACT_CNT	Count	Numeric Constant: 1
SRC_SHIFT_ID	Shift ID	Stage: Required SHIFT_ID
SRC_TASK_ID	Crew Task ID	Stage: TASK_ID
SRC_SHIFT_LOG_SEQ	Shift Log Sequence	Stage: Required SHIFT_LOG_SEQUENCE
SRC_TASK_LOG_SEQ	Task Log Sequence	Stage: TASK_LOG_SEQUENCE
FROM_DTTM	From Date/Time	Stage: FROM_DTTM
TO_DTTM	To Date/Time	Stage: TO_DTTM
CREW_TM_USG_KEY	Crew Time Usage Dimension Surrogate Key	Join: Required CD_CREW_TM_USG.CREQ_T IME_USAGE_CD
FROM_SHIFT_BO_STAT US_KEY	Shift BO Status Dimension Surrogate Key	Join: Required CD_SHIFT_BO_STATUS.FRO M_SHIFT_BO_CD
TO_SHIFT_BO_STATUS _KEY	Shift BO Status Dimension Surrogate Key	Join: Required CD_SHIFT_BO_STATUS.FRO M_BO_STATUS_CD
CREW_SHIFT_KEY	Shift Dimension Surrogate Key	Join: Required CD_CREW_SHIFT.CREW_SHI FT_KEY
CREW_KEY	Crew Dimension Surrogate Key	Join: Required CD_CREW.CREW_CD
TRAVEL_DUR_DEV_KE Y	Travel Duration Deviation Dimension Surrogate Key	Join: Required CD_TRAVEL_DUR_DEV.TRA VEL_DURATION_DEVIATIO N_CD
APPT_TM_KEY	Appointment Time Dimension Surrogate Key	Join: Required CD_APPT_TM.APPOINTMEN T_TIME_CD
APPT_TM_OF_DAY_KE Y	Appointment Time of Day Dimension Surrogate Key	Join: Required CD_APPT_TM_OF_DAY.APP OINTMENT_TIME_OF_DAY_ CD
FROM_TASK_BO_STAT US_KEY	Task BO Status Dimension Surrogate Key	Join: Required CD_TASK_BO_STATUS.FRO M_TASK_BO_CD
TO_TASK_BO_STATUS_ KEY	Task BO Status Dimension Surrogate Key	Join: Required CD_TASK_BO_STATUS.TO_T ASK_BO_CD

Field	OBIEE Field	Load
TASK_TYPE_KEY	Task Type Dimension Surrogate Key	Join: Required CD_TASK_TYPE.TASK_TYPE_CD
SERVICE_AREA_KEY	Service Area Dimension Surrogate Key	Join: Required CD_SERVICE_AREA.SERVICE_AREA_CD
ADDR_KEY	Address Dimension Surrogate Key	Join: Required CD_ADDR.ADDRESS_ID
FROM_DATE_KEY	Date Dimension Surrogate Key	Join: Required CD_DATE.FROM_DATE
TO_DATE_KEY	Date Dimension Surrogate Key	Join: Required CD_DATE.TO_DATE
FROM_TIME_KEY	Time Dimension Surrogate Key	Join: Required CD_TIME.FROM_TIME
TO_TIME_KEY	Time Dimension Surrogate Key	Join: Required CD_TIME.TO_TIME
MTR_DEVICE_KEY	Device Dimension Surrogate Key	Join: Optional CD_MTR_DEVICE.DEVICE_ID
SP_KEY	Service Point Dimension Surrogate Key	Join: Optional CD_SP.SERVICE_POINT_ID
US_KEY	Usage Subscription Dimension Surrogate Key	Join: Optional CD_US.USG_SUBSCRIPTION_ID
CONTACT_KEY	Contact Dimension Surrogate Key	Join: Optional CD_CONTACT.CONTACT_KEY
PER_KEY	CCB Person Dimension Foreign Key	Join: Optional CD_PER.PERSON_ID
ACCT_KEY	CCB Account Dimension Foreign Key	Join: Optional CD_ACCT.ACCOUNT_ID
SA_KEY	CCB SA Dimension Foreign Key	Join: Optional CD_SA.SA_ID
PREM_KEY	CCB Premise Dimension Foreign Key	Join: Optional CD_PREM.PREMISE_ID
CREW_TASK_UDD1_KEY	User Defined Degenerate Dimension 1	Join: Optional CD_CREW_TASK_UDD1.UDD1_CD
CREW_TASK_UDD2_KEY	User Defined Degenerate Dimension 2	Join: Optional CD_CREW_TASK_UDD2.UDD2_CD
UDM1	User Defined Measure 1	Stage: UDM1

<b>Field</b>	<b>OBIEE Field</b>	<b>Load</b>
UDM2	User Defined Measure 2	Stage: UDM2
UDM3	User Defined Measure 3	Stage: UDM3
UDM4	User Defined Measure 4	Stage: UDM4
UDM5	User Defined Measure 5	Stage: UDM5
UDM6	User Defined Measure 6	Stage: UDM6
UDM7	User Defined Measure 7	Stage: UDM7
UDM8	User Defined Measure 8	Stage: UDM8
UDM9	User Defined Measure 9	Stage: UDM9
UDM10	User Defined Measure 10	Stage: UDM10
UDDGEN1	User Defined Degenerate Dimension 1	Stage: UDDGEN1
UDDGEN2	User Defined Degenerate Dimension 2	Stage: UDDGEN2
UDDGEN3	User Defined Degenerate Dimension 3	Stage: UDDGEN3
UDDGEN4	User Defined Degenerate Dimension 4	Stage: UDDGEN4
UDDGEN5	User Defined Degenerate Dimension 5	Stage: UDDGEN5
UDDGENL1	User Defined Long Degenerate Dimension 1	Stage: UDDGENL1
UDDGENL2	User Defined Long Degenerate Dimension 2	Stage: UDDGENL2
UDDGENL3	User Defined Long Degenerate Dimension 3	Stage: UDDGENL3
UDDGENL4	User Defined Long Degenerate Dimension 4	Stage: UDDGENL4
UDDGENL5	User Defined Long Degenerate Dimension 5	Stage: UDDGENL5
UDDFK1_KEY	User Defined Dimension Foreign Key 1	Stage: UDDFK1_KEY
UDDFK2_KEY	User Defined Dimension Foreign Key 2	Stage: UDDFK2_KEY
UDDFK3_KEY	User Defined Dimension Foreign Key 2	Stage: UDDFK3_KEY
UDDFK4_KEY	User Defined Dimension Foreign Key 2	Stage: UDDFK4_KEY
UDDFK5_KEY	User Defined Dimension Foreign Key 2	Stage: UDDFK5_KEY

Field	OBIEE Field	Load
DATA_SOURCE_IND	Data Source Indicator	Stage: DATA_SOURCE_IND
JOB_NBR	Job Number	Job Control: JOB_NBR
	Total Time	Sum(PREV_STATE_DUR)
	% Of Total	(Non-Productive/Total Time)*100
	Productive Time	case when "Core"."CD_CREW_TM_USG". "PRODUCTIVITY_CD" = 'M1PR' then "Core"."CF_CREW_TASK"."PR EV_STATE_DUR" else 0 end
	Non Productive Time	case when "Core"."CD_CREW_TM_USG". "PRODUCTIVITY_CD" = 'M1NP' then "Core"."CF_CREW_TASK"."PR EV_STATE_DUR" else 0 end
	Utilization%	SUM("CF_CREW_TASK"."PRO DUCTIVE_TIME")/ (SUM("CF_CREW_TASK"."PR ODUCTIVE_TIME") + SUM("CF_CREW_TASK"."NO N_PRODUCTIVE_TIME")) * 100
	Total Time Duration	CF_CREW_TASK".Sum("PREV _STATE_DUR)" - Set to Total level in the Crew_TM_USG Hierarchy
	Productive Time (Mins)	Case when "Core"."CD_CREW_TM_USG". "PRODUCTIVITY_CD" = 'M1PR' then "Core"."CF_CREW_TASK"."PR EV_STATE_DUR_TOTAL" else 0 end
	% of Total Time	("Core"."CF_CREW_TASK"."P REV_STATE_DUR_TOTAL" * 100)/ ("Core"."CF_CREW_TASK"."T OT_TIME_DUR" )
	% Total Productive Time	("Core"."CF_CREW_TASK"."P REV_STATE_DUR_TOTAL" * 100) / "Core"."CF_CREW_TASK"."PR ODUCTIVE_TIME"

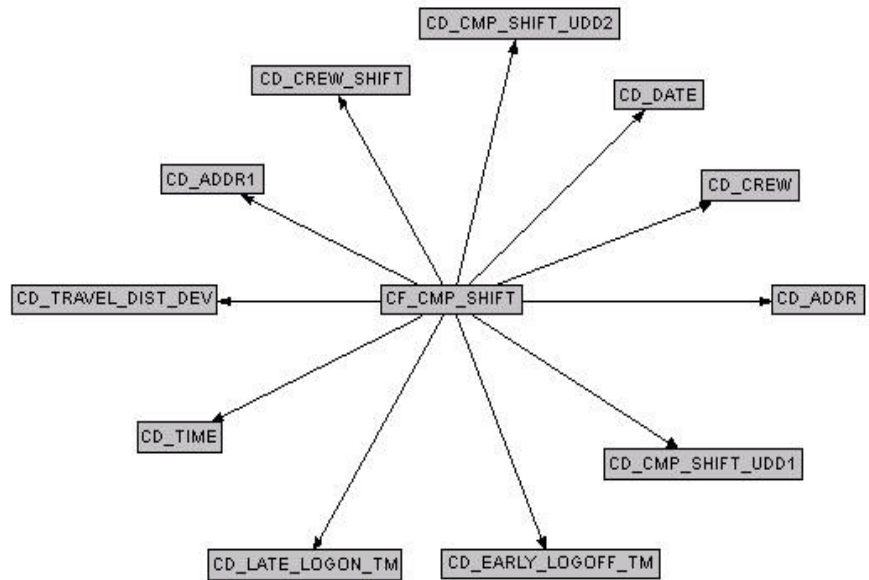
Field	OBIEE Field	Load
	Average Time Per Crew (Mins)	"SUM(CF_CREW_TASK"."PREV_STATE_DUR"/Total Shift Count
	Total Duration	CF_CREW_TASK".Sum("PREV_STATE_DUR")"
	% Total Non Productive Time	("Core"."CF_CREW_TASK"."PREV_STATE_DUR_TOTAL" * 100) / "Core"."CF_CREW_TASK"."NONPRODUCTIVE_TIME"
	Number of Shifts	count(distinct CF_CREW_TASK.SRC_SHIFT_ID)
	Average Time	Average is calculated for based on total hours for each time bucket for the selected time period divided by the total number of shifts.
	Rank N	Rank("Core"."CF_CREW_TASK"."PROD_%OF_TOTAL" * (-1) )
	Productive Time as % of Total	("Core"."CF_CREW_TASK"."PRODUCTIVE_TIME" * 100) / ("Core"."CF_CREW_TASK"."TOT_TIME_DUR" )
	IdleTime	CASE WHEN "Core"."CD_CREW_TM_USG"."CREW_TM_USG_CD" = 'IDLE' THEN "Core"."CF_CREW_TASK"."PREV_STATE_DUR_TOTAL" ELSE 0 END
	Rank (Idle Time)	Rank("Core"."CF_CREW_TASK"."CREW_IDLE_TIME" )
	Idle Time as % Total	((("Core"."CF_CREW_TASK"."CREW_IDLE_TIME") * 100) / ("Core"."CF_CREW_TASK"."TOT_TIME_DUR" )
	Average	(sum("CF_CREW_TASK"."CREW_IDLE_TIME")*100)/ sum("CF_CREW_TASK"."TOT_TIME_DUR")

Field	OBIEE Field	Load
	Total Shift Time	Filter("Core"."CF_CREW_TASK"."PREV_STATE_DUR_TOTAL" Using "Core"."CD_CREW_TM_USG"."PRODUCTIVITY_CD" = 'MINP' OR "Core"."CD_CREW_TM_USG"."PRODUCTIVITY_CD" = 'M1PR')
	Number of activities	Calculated column : Number Of Activities = SUM(CF_CREW_TASK.FACT_CNT)
	Number of incomplete activities	Calculated column : Number of Incomplete Activities = Sum(case when CD_TASK_BO_STATUS.INCOMPLETE_IND =1 then CF_CREW_TASK.FACT_CNT) Join with status_date_key
	%Incomplete	Runtime Column: Number of Incomplete Activities / Number Of Activities * 100
	Number of Activities in deviation Category	Count(distinct task id) where record exists in dev category dimension
	Average Productive Time	Productive time/Number of shifts
	Actual Travel Time	(FILTER("Core"."CF_CREW_TASK"."PREV_STATE_DUR_TOTAL" using "Core"."CD_CREW_TM_USG"."CREW_TM_USG_CD" = 'M1TRAVEL'))/60
	Estimated Travel Time	("Core"."CF_CREW_TASK"."EST_TRAVEL_DUR" / 60)

## Completed Shift Fact <CF\_CMP\_SHIFT>

The Completed Shift fact is an accumulation fact that captures details of all the completed shifts.

### Entity Relationship Diagram



### Properties

Property	Value
Table Type	Fact
Fact Type	Accumulation
Materialized View	B1_CMP_SHIFT_MON_MV1

### Fields

Field	OBIEE Field	Load
CMP_SHIFT_KEY	Completed Shift Surrogate Key	Sequence: Required OUBI_CMP_SHIFT_SEQ
PLANNED_DUR	Planned Duration	Stage: PLANNED_DURATION
ACTUAL_DUR	Actual Duration	Stage: ACTUAL_DURATION
OVERTIME_DUR	Overtime Duration	Stage: OVERTIME_DURATION
EST_DISTANCE	Estimated Distance	Stage: ESTIMATED_DISTANCE



Field	OBIEE Field	Load
EST_TOT_MILEAGE	Estimated Total Mileage	Stage: ESTIMATED_TOTAL_MIL
ACT_TOT_MILEAGE	Actual Total Mileage	Stage: ACTUAL_TOTAL_MIL
VEHICLE_CNT	# Vehicles	Stage: VEHICLES
FACT_CNT	Count	Stage: 1
SRC_SHIFT_ID	Crew Shift ID	Stage: Required SHIFT_ID
SHIFT_PLANNED_START_DTTM	From Date/Time	Stage: SHIFT_PLAN_ST_DATE
CREW_SHIFT_KEY	Shift Dimension Surrogate Key	
CREW_KEY	Crew Dimension Surrogate Key	Join: Required CD_CREW.CREW_CODE
LATE_LOGON_TIME_KEY	Late Logon Time Dimension Surrogate Key	Join: Required CD_LATE_LOGON_TM.LATE_LOG_TIME_DC
EARLY_LOGOFF_TIME_KEY	Early Logoff Time Dimension Surrogate Key	Join: Required CD_EARLY_LOGOFF_TM.EARLY_LOG_TIME_CD
TRAVEL_DIST_DEV_KEY	Travel Distance Deviation Dimension Surrogate Key	Join: Required CD_TRAVEL_DIST_DEV.TRAVEL_DIST_DEV_CD
LOGON_ADDR_KEY	Address Dimension Surrogate Key	Join: Required CD_ADDR.LOG_ADDRESS_ID
LOGOFF_ADDR_KEY	Address Dimension Surrogate Key	Join: Required CD_ADDR.LOGOFF_ADDRESS_ID
SHIFT_PLANNED_START_DATE_KEY	Date Dimension Surrogate Key	Join: Required CD_DATE.SHIFT_PLAN_ST_DATE
SHIFT_PLANNED_START_TIME_KEY	Time Dimension Surrogate Key	Join: Required CD_DATE.SHIFT_PLAN_ST_TIME
CMP_SHIFT_UDD1_KEY	User Defined Degenerate Dimension 1	Join: CD_CMP_SHIFT_UDD1.UDD1_DC
CMP_SHIFT_UDD2_KEY	User Defined Degenerate Dimension 2	Join: CD_CMP_SHIFT_UDD2.UDD2_DC
UDM1	User Defined Measure 1	Stage: UDM1
UDM2	User Defined Measure 2	Stage: UDM2
UDM3	User Defined Measure 3	Stage: UDM3

<b>Field</b>	<b>OBIEE Field</b>	<b>Load</b>
UDM4	User Defined Measure 4	Stage: UDM4
UDM5	User Defined Measure 5	Stage: UDM5
UDM6	User Defined Measure 6	Stage: UDM6
UDM7	User Defined Measure 7	Stage: UDM7
UDM8	User Defined Measure 8	Stage: UDM8
UDM9	User Defined Measure 9	Stage: UDM9
UDM10	User Defined Measure 10	Stage: UDM10
UDDGEN1	User Defined Degenerate Dimension 1	Stage: UDDD1
UDDGEN2	User Defined Degenerate Dimension 2	Stage: UDDD2
UDDGEN3	User Defined Degenerate Dimension 3	Stage: UDDD3
UDDGEN4	User Defined Degenerate Dimension 4	Stage: UDDD4
UDDGEN5	User Defined Degenerate Dimension 5	Stage: UDDD5
UDDGENL1	User Defined Long Degenerate Dimension 1	Stage: UDLDD1
UDDGENL2	User Defined Long Degenerate Dimension 2	Stage: UDLDD2
UDDGENL3	User Defined Long Degenerate Dimension 3	Stage: UDLDD3
UDDGENL4	User Defined Long Degenerate Dimension 4	Stage: UDLDD4
UDDGENL5	User Defined Long Degenerate Dimension 5	Stage: UDLDD5
UDDFK1_KEY	User Defined Dimension Foreign Key 1	Stage: UDDFK_ID1
UDDFK2_KEY	User Defined Dimension Foreign Key 2	Stage: UDDFK_ID2
UDDFK3_KEY	User Defined Dimension Foreign Key 3	Stage: UDDFK_ID3
UDDFK4_KEY	User Defined Dimension Foreign Key 4	Stage: UDDFK_ID4
UDDFK5_KEY	User Defined Dimension Foreign Key 5	Stage: UDDFK_ID5
DATA_SOURCE_IND	Data Source Indicator	Stage: Required DATA_SOURCE_IND

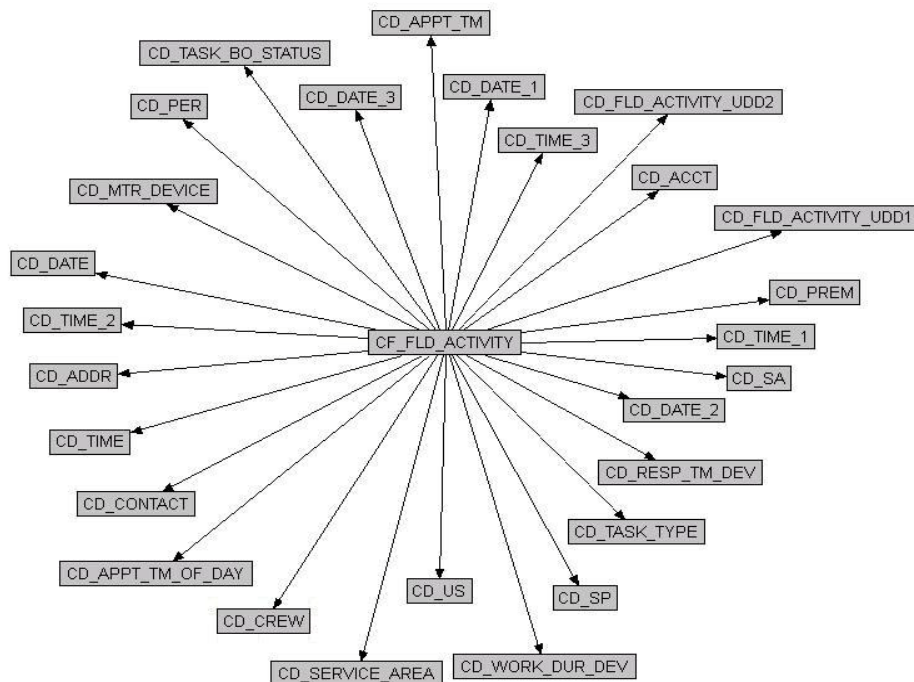
Field	OBIEE Field	Load
JOB_NBR	Job Number	Job Control: JOB_NBR
	On Time shift Count	Sum(case when CD_LATE_LOGON_TM. CONSIDERED_ONTIME_CD = 'M1YS' and CD_EARLY_LOGOFF_TM. CONSIDERED_ONTIME_CD = 'M1YS' then FACT_CNT else 0 end)
	Total Shifts	SUM(FACT_CNT)
	% Of Total	On Time Shift Count/Total * 100
	% Of Actual	(Overtime Duration/Actual Duration)*100
	Total Shift Count	Sum of Fact Count with aggregation level set to Crew Time Usage Total
	Shifts with Late Starts	filter ("Core"."CF_CMP_SHIFT"."TOT_SHIFT" using "Core"."CD_LATE_LOGON_TM"."CONSIDERED_ONTIME_CD" = 'M1NO')
	% Of Total Shifts	((("Core"."CF_CMP_SHIFT"."LATE_SHIFTS") * 100) / ("Core"."CF_CMP_SHIFT"."TOT_SHIFT_CNT") )
	Shifts with Early Finish	filter( "Core"."CF_CMP_SHIFT"."TOT_SHIFT" using "Core"."CD_EARLY_LOGOFF_TM"."CONSIDERED_ONTIME_CD" = 'M1NO')
	% of Total	((("Core"."CF_CMP_SHIFT"."EARLY_LOG_SHIFT") * 100) / ("Core"."CF_CMP_SHIFT"."TOT_SHIFT_CNT") )
	Overtime as % of Regular	Overtime/Regular Time * 100
	Overtime as % of Planned	Overtime/Planned Duration * 100
	Number of Shifts by Deviation Category	TOT_SHIFT_CNT set at late logon time deviation level

Field	OBIEE Field	Load
	Late Shifts	case when "Core"."CD_LATE_LOGON_TM"."CONSIDERED_ONTIME_CD" = 'M1NO' then "Core"."CF_CMP_SHIFT"."FACT_CNT_ONTIME" else 0 end
	Avg Actual Mileage	"Core"."CF_CMP_SHIFT"."ACT_TOT_MILEAGE" / "Core"."CF_CMP_SHIFT"."VEHICLE_CNT"
	Avg Estimated Mileage	"Core"."CF_CMP_SHIFT"."EST_TOT_MILEAGE" / "Core"."CF_CMP_SHIFT"."VEHICLE_CNT"
	% Deviation	("Core"."CF_CMP_SHIFT"."ACT_TOT_MILEAGE" - "Core"."CF_CMP_SHIFT"."EST_TOT_MILEAGE") * 100 / "Core"."CF_CMP_SHIFT"."EST_TOT_MILEAGE"
	Percent of On-Time shifts	("Core"."CF_CMP_SHIFT"."ON_TIME_SHIFTS" * 100) / ("Core"."CF_CMP_SHIFT"."TOT_SHIFT_CNT")
	Total Shifts for Early Logon	Shift Count set at Early Logon Deviation bucket level
	Actual Duration(Hrs)	Actual Duration/60
	Overtime Duration (Hrs)	Overtime Duration / 60
	Planned Duration (Hrs)	Planned Duration /60

## Field Activity Fact <CF\_FLD\_ACTIVITY>

The Field Activity fact is an accumulation fact that stores the activity details and their response times.

### Entity Relationship Diagram



### Properties

Property	Value
Table Type	Fact
Fact Type	Accumulation
Materialized View	B1_FLD_ACTIVITY_MON_MV1 B1_FLD_ACTIVITY_MON_MV2 B1_FLD_ACTIVITY_MON_MV3

### Fields

Field	OBIEE Field	Load
FLD_ACTIVITY_KEY	Activity Surrogate Key	Sequence: Required OUBI_FLD_ACTIVITY_SEQ
TASK_INFO	Task Info String	Stage: TASK_ID
EMERGENCY_IND	Emergency Indicator	Stage: EMERGENCY_INDICATOR
APPOINTMENT_IND	Appointment Indicator	Stage: APPOINT_INDC

Field	OBIEE Field	Load
SAME_DAY_APPT_IND	Same Day Appointment Indicator	Stage: SAMEDAY_APPONT_INDC
WORK_DUR	Typical Work Duration	Stage: TYPICAL_WRK_DUR
EST_WORK_DUR	Estimated Work Duration	Stage: EST_WRK_DUR
ACT_WORK_DUR	Actual Work Duration	Stage: ACTUAL_WRK_DUR
ACT_TRAVEL_DUR	Actual Travel Duration	
WORK_ATTEMPT_CNT	Number of Work Attempts	Stage: WORK_ATTEMPTS
TRAVEL_ATTEMPT_CNT	Number of Travel Attempts	Stage: TRAVEL_ATTEMPTS
DISPATCH_RESP_DUR	Response Time Until Dispatched	Stage: RESPONSE_TIME_UNTIL_DISPATCH
ENROUTE_RESP_DUR	Response Time Until Enroute	Stage: RESPONSE_TIME_UNTIL_ENROUTE
ARRIVAL_RESP_DUR	Response Time Until Arrived	Stage: RESPONSE_TIME_UNTIL_ARRIVED
COMPLETED_RESP_DUR	Response Time Until Completed	Stage: RESPONSE_TIME_UNTIL_COMPLETED
TOT_RESP_DUR	Overall Response Time	Stage: OVERALL_RESPONSE_TIME
FACT_CNT	Count	Numeric Constant: 1
CRE_DT_TM	Creation Date/Time	Stage: CREATION_DATE
STATUS_DT_TM	Status Date/Time	Stage: STATUS_DATE
SCHED_START_DT_TM	Schedule Start Date/Time	Stage: SCHEDULE_START_DATETIME
SCHED_END_DT_TM	Schedule End Date/Time	Stage: SCHEDULE_END_DATETIME
SRC_TASK_ID	Crew Task ID	Stage: TASK_ID
TASK_BO_STATUS_KEY	Task BO Status Dimension Surrogate Key	Join: Required CD_TASK_BO_STATUS.TASK_BO_CD
TASK_TYPE_KEY	Task Type Dimension Surrogate Key	Join: Required CD_TASK_TYPE.TASK_INFO
SERVICE_AREA_KEY	Service Area Dimension Surrogate Key	Join: Required CD_SERVICE_AREA.SERVICE_AREA_CD

Field	OBIEE Field	Load
ADDR_KEY	Task Address Dimension Surrogate Key	Join: Required CD_ADDR.ADDRESS_ID
CREW_KEY	Crew Dimension Surrogate Key	Join: Required CD_CREW.CREW_CD
APPT_TM_KEY	Appointment Time Dimension Surrogate Key	Join: Required CD_APPT_TM.APPOINTMEN T_TIME_CD
APPT_TM_OF_DAY_KEY	Appointment Time Of Day Dimension Surrogate Key	Join: Required CD_APPT_TM_OF_DAY.APP OINTMENT_TIME_DAY_CD
WORK_DUR_DEV_KEY	Work Duration Deviation Dimension Surrogate Key	Join: Required CD_WORK_DUR_DEV.WRL_ DUR_DEV_CD
RESP_TM_DEV_KEY	Response Time Deviation Dimension Surrogate Key	Join: Required CD_RESP_TM_DEV.RESPON SE_TIME_DEV_CD
CRE_DATE_KEY	Date Dimension Surrogate Key	Join: Required CD_DATE.CREATION_DATE
STATUS_DATE_KEY	Date Dimension Surrogate Key	Join: Required CD_DATE.STATUS_DATE
SCHED_START_DATE_ KEY	Date Dimension Surrogate Key	Join: Required CD_DATE.SCHEDULE_STAR T_DATE
SCHED_END_DATE_KEY	Date Dimension Surrogate Key	Join: Required CD_DATE.SCHEDULE_END_ DATE
CRE_TIME_KEY	Time Dimension Surrogate Key	Join: Required CD_TIME.CREATION_TIME
STATUS_TIME_KEY	Time Dimension Surrogate Key	Join: Required CD_TIME.STATUS_TIME
SCHED_START_TIME_K EY	Time Dimension Surrogate Key	Join: Required CD_TIME.SCHEDULE_STAR T_TIME
SCHED_END_TIME_KEY	Time Dimension Surrogate Key	Join: Required CD_TIME.SCHEDULE_END_ TIME
MTR_DEVICE_KEY	Device Dimension Surrogate Key	Join: CD_MTR_DEVICE.DEVICE_I D
SP_KEY	Service Point Dimension Surrogate Key	Join: CD_SP.SERVICE_POINT_ID
US_KEY	Usage Subscription Dimension Surrogate Key	Join: CD_US.USAGE_SUBSCRIPT_I D

<b>Field</b>	<b>OBIEE Field</b>	<b>Load</b>
CONTACT_KEY	Contact Dimension Surrogate Key	Join: CD_CONTACT.CONTACT_ID
PER_KEY	CCB Person Dimension Foreign Key	Join: CD_PER.PERSON_ID
ACCT_KEY	CCB Account Dimension Foreign Key	Join: CD_ACCT.ACCOUNT_ID
SA_KEY	CCB SA Dimension Foreign Key	Join: CD_SA.SA_ID
PREM_KEY	CCB Premise Dimension Foreign Key	Join: CD_PREM.PREMISE_ID
FLD_ACTIVITY_UDD1_KEY	User Defined Degenerate Dimension 1	Join: CD_FLD_ACTIVITY_UDD1.UDD1_CD
FLD_ACTIVITY_UDD2_KEY	User Defined Degenerate Dimension 2	Join: CD_FLD_ACTIVITY_UDD2.UDD2_CD
UDM1	User Defined Measure 1	Stage: UDM1
UDM2	User Defined Measure 2	Stage: UDM2
UDM3	User Defined Measure 3	Stage: UDM3
UDM4	User Defined Measure 4	Stage: UDM4
UDM5	User Defined Measure 5	Stage: UDM5
UDM6	User Defined Measure 6	Stage: UDM6
UDM7	User Defined Measure 7	Stage: UDM7
UDM8	User Defined Measure 8	Stage: UDM8
UDM9	User Defined Measure 9	Stage: UDM9
UDM10	User Defined Measure 10	Stage: UDM10
UDDGEN1	User Defined Degenerate Dimension 1	Stage: UDDD1
UDDGEN2	User Defined Degenerate Dimension 2	Stage: UDDD2
UDDGEN3	User Defined Degenerate Dimension 3	Stage: UDDD3
UDDGEN4	User Defined Degenerate Dimension 4	Stage: UDDD4
UDDGEN5	User Defined Degenerate Dimension 5	Stage: UDDD5
UDDGENL1	User Defined Long Degenerate Dimension 1	Stage: UDLDD1
UDDGENL2	User Defined Long Degenerate Dimension 2	Stage: UDLDD2



Field	OBIEE Field	Load
UDDGENL3	User Defined Long Degenerate Dimension 3	Stage: UDLDD3
UDDGENL4	User Defined Long Degenerate Dimension 4	Stage: UDLDD4
UDDGENL5	User Defined Long Degenerate Dimension 5	Stage: UDLDD5
UDDFK1_KEY	User Defined Dimension Foreign Key 1	Stage: UDDFK_ID1
UDDFK2_KEY	User Defined Dimension Foreign Key 2	Stage: UDDFK_ID2
UDDFK3_KEY	User Defined Dimension Foreign Key 3	Stage: UDDFK_ID3
UDDFK4_KEY	User Defined Dimension Foreign Key 4	Stage: UDDFK_ID4
UDDFK5_KEY	User Defined Dimension Foreign Key 5	Stage: UDDFK_ID5
DATA_SOURCE_IND	Data Source Indicator	Stage: DATA_SOURCE_IND
JOB_NBR	Job Number	Job Control: JOB_NBR
	Scheduled Activity Count	Sum(Fact Cnt) where status = Scheduled Join with status_date_key from cd_date
	Completed Activity Count	Sum(Fact Cnt) where status = Completed Join with scheduled_date_key from Cd_date
	Emergency Indicator	Indicator = 1
	Closed Count	Sum(case when CD_TASK_BO_STATUS.INCO MPLETE_IND =0 and CD_TASK_BO_STATUS.STAT US_CD='COMPLETED' and CF_FLD_ACTIVITY.APPOINT MENT_IND=1 then CF_FLD_ACTIVITY.FACT_CN T else 0 end) Join with status_date_key from cd_date
	Total Count	sum(CF_FLD_ACTIVITY.FACT _CNT) where CF_FLD_ACTIVITY.APPOINT MENT_IND=1
	Appointment Close Rate	Closed Count/Total Count * 100

Field	OBIEE Field	Load
	Missed SLA Count	Sum(Fact Cnt) where Response Time Deviation Dimension. SLA Status = Missed
	% Missed SLA	Missed SLA Count/Count * 100
	Scheduled Activity Count	Sum(case when SCHED_START_DT_TM is not null then CF_FLD_ACTIVITY.FACT_CNT else 0 end) Join with Scheduled_start_date_key from Cd_date
	%completed	(CF_FLD_ACTIVITY.CMP_CNT * 100) / CF_FLD_ACTIVITY.SCHED_CNT
	Number of Activities	Calculated column : Number Of Completed Activities= Sum ( Case when CD_TASK_BO_STATUS.INCOMPLETE_IND =0 then CF_FLD_ACTIVITY.FACT_CNT Else 0 end) Join with Status_date_key from CD_Date
	# of Activities	Calculated field : # Of Activities = Sum(CF_FLD_ACTIVITY.WORK_ATTEMPT_CNT > 1 )
	Number of Attempts	Sum(CF_FLD_ACTIVITY.WORK_ATTEMPT_CNT)
	% Total	Calculated column: % Of Total Activities Cancelled = Sum (Case when CD_TASK_BO_STATUS.STATUS_CD = 'CANCELED' then CF_FLD_ACTIVITY.FACT_CNT else 0 end) Join with status_date_key from cd_date
	Number Of Emergencies	SUM(CF_FLD_ACTIVITY.FACT_CNT) where EMERGENCY_IND=1

Field	OBIEE Field	Load
	Average # of Emergencies for month	$((\text{SUM}(\text{"CF\_FLD\_ACTIVITY"."EMERGENCY\_IND"}) * 100 / \text{"CF\_FLD\_ACTIVITY"."TOT\_ACTIVITY\_CNT"}) / (\text{MAX}(\text{"CD\_DATE"."CAL\_MONTH\_NBR"}) - \text{MIN}(\text{"CD\_DATE"."CAL\_MONTH\_NBR"}) + 1))$
	Missed Emergencies	CD_RESP_TM.DEV.SLA.STATE_DESCR = 'Missed'
	Missed Appointments	SUM(CF_FLD_ACTIVITY.FACT_CNT) where CF_FLD_ACTIVITY.APPOINTMENT_IND=1 and CD_APPT_TM.APPT_STATUS_CD = 'M1MS'
	Completed Activity Count	Sum(case when CD_TASK_BO_STATUS.INCOMPLETE_IND = 0 and CD_TASK_BO_STATUS.STATUS_CD='COMPLETED' then CF_FLD_ACTIVITY.FACT_CNT else 0 end) Join with Status_date_key from Cd_date
	Count	sum(CF_FLD_ACTIVITY.FACT_CNT) Number Of Emergencies: SUM(CF_FLD_ACTIVITY.FACT_CNT) where EMERGENCY_IND=1
	Emergency%	$(\text{"Core"."CF\_FLD\_ACTIVITY"."EMERGENCY\_COUNT"} / \text{"Core"."CF\_FLD\_ACTIVITY"."FACT\_CNT"}) * 100$
	Incomplete Activities	CASE WHEN "Core"."CD_TASK_BO_STATUSES"."INCOMPLETE_IND" = 1 THEN "Core"."CF_FLD_ACTIVITY"."TOT_ACTIVITY_CNT" ELSE 0 END
	Incomplete Activities %	$((\text{"Core"."CF\_FLD\_ACTIVITY"."INCOMP\_ACTIVITY\_CNT"}) * 100) / (\text{"Core"."CF\_FLD\_ACTIVITY"."TOT\_ACTIVITY\_CNT"})$

Field	OBIEE Field	Load
	Missed Appointments	Filter("Core"."CF_FLD_ACTIVI TY"."TOT_ACTIVITY_CNT" Using "Core"."CD_RESP_TM_DEV". SLA_STATUS_CD" = 'M1MS' )
	%Missed	CAST("Core"."CF_FLD_ACTIV ITY"."MISSED_SUM" * 100 AS FLOAT) / ("Core"."CF_FLD_ACTIVITY". "TOT_ACTIVITY_CNT" )
	Average Emergencies %	("Core"."CF_FLD_ACTIVITY". "EMERGENCY_IND_SUM") * 100) / ("Core"."CF_FLD_ACTIVITY". "TOT_ACTIVITY_CNT" )
	Response Time	"Core"."CF_FLD_ACTIVITY". "TOT_RESP_DUR" / "Core"."CF_FLD_ACTIVITY". "TOT_ACTIVITY_CNT"
	Scheduled	sum(CF_FLD_ACTIVITY.APP OINMENT_IND)
	Closed	filter("Core"."CF_FLD_ACTIVI TY"."SCHED_APPOINTMEN T" using ("Core"."CD_TASK_BO_STAT US"."INCOMPLETE_IND" =0 and "Core"."CD_TASK_BO_STATU S"."STATUS_CD" = 'COMPLETED'))
	Average	Cast("Core"."CF_FLD_ACTIVI TY"."CLOSED_APPOINTME NT"/ 15 AS FLOAT)
	Close Rate %	("Core"."CF_FLD_ACTIVITY". "CLOSED_APPOINTMENT" *100/ ("Core"."CF_FLD_ACTIVITY". "SCHED_APPOINTMENT" ) )
	Late	Filter("Core"."CF_FLD_ACTIVI TY"."APPT_IND_SUM" Using "Core"."CD_APPT_TM"."APPT _STATUS_CD" = 'M1MS')
	% of Total	(CAST ("Core"."CF_FLD_ACTIVITY". "LATE_APPOINTMENT" * 100 as FLOAT)/ "Core"."CF_FLD_ACTIVITY". "APPT_IND_SUM" )

Field	OBIEE Field	Load
	Number of Appointments	sum(CF_FLD_ACTIVITY.APPOINTMENT_IND)
	Number of Activities	Filter("Core"."CF_FLD_ACTIVITY"."TOT_ACTIVITY_CNT" Using "Core"."CF_FLD_ACTIVITY"."WORK_ATTEMPT_CNT" > 1)
	Number of Canceled Activities	Filter("Core"."CF_FLD_ACTIVITY"."TOT_ACTIVITY_CNT" Using "Core"."CD_TASK_BO_STATUSES"."STATUS_CD" = 'CANCELED')
	% Canceled	("Core"."CF_FLD_ACTIVITY"."CANCELLED_ACTIVITY_CNT" * 100) / "Core"."CF_FLD_ACTIVITY"."TOT_ACTIVITY_CNT"
	Number of Attempts	sum(CF_FLD_ACTIVITY.WORK_ATTEMPT_CNT)
	Average Response Time	"Core"."CF_FLD_ACTIVITY"."TOT_RESP_DUR" / "Core"."CF_FLD_ACTIVITY"."EMERGENCY_IND_SUM"
	On-time Appointments	Filter("Core"."CF_FLD_ACTIVITY"."APPT_IND_SUM" Using "Core"."CD_APPT_TM"."APPT_STATUS_CD" = 'M1OT')

# Chapter 3

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## Configuring Oracle Utilities Mobile Workforce Management

This chapter provides information about configuring the Oracle Utilities Mobile Workforce Management (MWM) source application in Oracle Utilities Extractors and Schema target product, including the following:

- **BI Configuration Portal**
- **Default Date for Initial Loads**

### BI Configuration Portal

The BI Configuration portal holds information on all of the BI-oriented configuration tasks. These tasks include setting up the BI master configuration, setting up the outbound sync BOs and algorithms, and setting up the BI-oriented extendable lookups.

To access the configuration portal in Oracle Utilities Mobile Workforce Management:

1. Go to the **Home** page.
2. Select **Menu > Admin Menu > B > BI Configuration**.

Using the configuration portal, the user can configure the following:

- **Master Configuration**
- **Outbound Sync BOs and Algorithms**
- **BI-Oriented Extendable Lookups**

### Master Configuration

This section lists every master configuration BO that was created for Oracle Utilities Extractors and Schema and guides you during the configuration. Click the link in the **Master Configuration** zone to navigate to the **Extendable Lookup Maintenance** portal where the lookup values are configured.

Outbound Sync BOs and Algorithms List		
Facts/Dimensions ETL Source	Algorithms	Outbound Sync BO
Extendable Lookup	Appointment Time Change Data Capture Appointment Time of Day Change Data Capture Crew Time Usage Change Data Capture Early Logoff Time Change Data Capture Late Logon Time Change Data Capture Response Time Deviation Change Data Capture Travel Distance Deviation Data Capture Travel Duration Deviation Change Data Capture Work Duration Deviation Change Data Capture	Set-up Outbound Sync BO
Resource	Crew Resource Change Data Capture	Set-up Outbound Sync BO
Task	Task Change Data Capture	Set-up Outbound Sync BO
Task Type	Generic Change Data Capture	Task Type Dimension
Service Area	Generic Change Data Capture	Service Area Dimension
Location	Generic Change Data Capture	Location
MWIM BI Crew Shift BO	Set-up BO Enter Algorithms	
Crew Shift (with Timesheet Details)	Set-up BO Enter Algorithms	
Crew Shift	Completed Shift Change Data Capture Finalize Tasks Shift Completion	

BI-Oriented Extendable Lookup	
Business Object	Description
1 M1-AppointmentTimeLookup	Appointment Time
2 M1-AppointmentTimeOfDayLookup	Appointment Time of Day
3 M1-CrewOrganizationLookup	Crew Organization Unit
4 M1-CrewTimeUsageLookup	Crew Time Usage
5 M1-EarlyLogoffTimeLookup	Early Logoff Time
6 M1-LateLogonTimeLookup	Late Logon Time
7 M1-RespTimeDevLookup	Response Time Deviation
8 M1-ServiceAreaLookup	Postal Code to Service Area Mapping
9 M1-TravelDurDevtnLookup	Travel Duration Deviation
10 M1-WorkDurationDevtnLookup	Work Duration Deviation

On the Master Configuration page, add (if it does not exist yet) or update the **Generic BI Master Configuration**. Configure the file path where all the extract flat files are created and stored, and also the character encoding that is used for writing the records on the flat file.

Master Configuration	
Master Configuration	Action
1 Generic BI Configuration	
2 Global Configuration	
3 Master Data Synchronization Configuration	

Master Configuration Details	
<b>Main</b>	Business Object: Generic BI Configuration Description: MWIM Master BI CONFIGURATION
<b>File Parameters</b>	File Path: /opt/N2102_MWIM_BI_DEMO_BLD6_LIN_ORA_WLS/logs Character Encoding: UTF-8

## Outbound Sync BOs and Algorithms

The BI Configuration portal highlights if the outbound sync BOs and the MO Audit plug-ins have been plugged in for each relevant Fact/Dimension ETL Source (MO). Every Mobile Workforce Management-owned MO that can be a Fact/Dimension ETL source is listed here and should thus greatly aid the user in determining if all appropriate algorithms and outbound sync BOs has been set up or not.

Outbound Sync BOs and Algorithms List		
Facts/Dimensions ETL Source	Algorithms	Outbound Sync BO
Extendable Lookup <sup>?</sup>	Appointment Time Change Data Capture Appointment Time of Day Change Data Capture Crew Time Usage Change Data Capture Early Logoff Time Change Data Capture Late Logon Time Change Data Capture Response Time Deviation Change Data Capture Travel Distance Deviation Data Capture Travel Duration Deviation Change Data Capture Work Duration Deviation Change Data Capture	<a href="#">Set-up Outbound Sync BO</a>
Resource <sup>?</sup>	Crew Resource Change Data Capture	<a href="#">Set-up Outbound Sync BO</a>
Task <sup>?</sup>	Task Change Data Capture	<a href="#">Set-up Outbound Sync BO</a>
Task Type <sup>?</sup>	Generic Change Data Capture	Task Type Dimension
Service Area <sup>?</sup>	Generic Change Data Capture	Service Area Dimension
Location <sup>?</sup>	Generic Change Data Capture	Location
MWM BI Crew Shift BO <sup>?</sup>	<a href="#">Set-up BO Enter Algorithms</a>	
Crew Shift (with Timesheet Details) <sup>?</sup>	<a href="#">Set-up BO Enter Algorithms</a>	
Crew Shift <sup>?</sup>	Completed Shift Change Data Capture Finalize Tasks Shift Completion	

Each **Facts/Dimension ETL Source** has a field-level help that defines the base-package Outbound Sync BOs and audit algorithms that should be plugged in to implement the extract.

Below is a sample field-level help on the Resource ETL Source:

The base outbound sync business object is the **Crew Dimension (M1-CrewDimension)**.  
The base ongoing-sync maintenance object audit algorithm is the **Crew Resource Change Data Capture (M1-CREW-CDCP)**. This algorithm does not require the outbound sync business object to be plugged in as an option in the Resource maintenance object, but rather it is plugged in as a soft parameter in the algorithm.

Below is a sample field-level help on the Task Type ETL Source:

The base outbound sync business object is the **Task Type Dimension (M1-TaskTypeDimension)**.  
The base ongoing-sync maintenance object audit algorithm is the **Generic Change Data Capture (F1-GCHG-CDCP)**. This algorithm requires the outbound sync business object to be plugged in as an option in the Service Area maintenance object.

If the MO of the ETL Source has at least 1 algorithm plugged into the audit system event, an FK reference link is shown for each such algorithm. Click the link to transfer the user to the Algorithm Maintenance portal.

**Note:** Expect 0 or 1 such algorithm to be plugged in but it is possible for multiple.

If the MO has no algorithm plugged into the audit system event, the message "Set-up BO Enter Algorithms" appears and has a link that transfers the user to the **MO-Algorithms** tab, so that the user can easily set up the appropriate audit algorithm.

If the MO of the ETL Source has at least 1 Outbound Sync BO defined as an MO Option, an FK reference link is shown for each such BO (there could be 0 to many outbound Sync BOs depending on how many facts and/or dimensions are sourced by the MO, and depending on the logic defined on the associated audit algorithm). Click the link to transfer the user to the Business Object Maintenance portal.



If the MO has no outbound sync BO defined as MO Option, the message "Set-up Outbound Sync BO" appears and has a link that transfers the user to the **MO-Options** tab, so that the user can easily set up the appropriate outbound sync BO.


As previously mentioned, not all MO requires an outbound sync BO and this is dependent on how the audit algorithms were written to retrieve the outbound sync BO that it uses when instantiating a pending sync request record.

As mentioned in the sample help on the Task Type, if the user uses the Generic Change Data Capture algorithm, it should also set up an outbound sync BO as an option on the MO since that algorithm was written such that it looks for the outbound sync BO on the MO Option. On the other hand, the Resource MO's base audit algorithm Crew Resource Change Data Capture does not require an outbound sync BO plugged in as an option on the MO, since the outbound sync BO is already plugged in as a soft parameter on the audit algorithm itself.

## BI-Oriented Extendable Lookups

Every Extendable Lookup BO that was created for BI is listed in this section and should serve as a guide/list for the user when setting up the lookup values. Click the link to navigate to the extendable Lookup Maintenance portal where the lookup values can be configured.



	Business Object	Description 
1	M1-AppointmentTimeLookup	Appointment Time
2	M1-AppointmentTimeOfDayLookup	Appointment Time of Day
3	M1-CrewOrganizationLookup	Crew Organization Unit
4	M1-CrewTimeUsageLookup	Crew Time Usage
5	M1-EarlyLogoffTimeLookup	Early Logoff Time
6	M1-LateLogonTimeLookup	Late Logon Time
7	M1-RespTimeDevLookup	Response Time Deviation
8	M1-ServiceAreaLookup	Postal Code to Service Area Mapping
9	M1-TravelDurDeviationLookup	Travel Duration Deviation
10	M1-WorkDurationDevtnLookup	Work Duration Deviation

Click the work list icon (next to **Description** column label) to broadcast this list to the dashboard's **Work List** zone and to determine if the user has navigated to the respective extendable lookup's maintenance portal.



Work List <span>Clear</span>	
<input checked="" type="checkbox"/>	1 Appointment Time
<input type="checkbox"/>	2 Appointment Time of Day
<input type="checkbox"/>	3 Crew Organization Unit
<input type="checkbox"/>	4 Crew Time Usage
<input type="checkbox"/>	5 Early Logoff Time
<input type="checkbox"/>	6 Late Logon Time
<input type="checkbox"/>	7 Response Time Deviation
<input type="checkbox"/>	8 Postal Code to Service Area Mapping
<input type="checkbox"/>	9 Travel Duration Deviation
<input type="checkbox"/>	10 Work Duration Deviation

## Appointment Time

In Oracle Utilities Mobile Workforce Analytics, on the Appointments dashboard, there are several BI answers related to whether or not a crew or field technician was on time or late for a service appointment. Whether or not an appointment is considered on time or missed, and missed by how much, is defined on the extendable lookup for **Appointment Time**.

In this lookup table, the company can set up any number of appointment lateness buckets. The following two values are fixed:

- Value = 50 = On Time (planned appointment time – actual appointment time = 0)
- Value = 90 = Late (highest bucket)

The company can add more values below 50 for negative times (early arrivals) or between 50 and 90 for positive times (late arrivals).

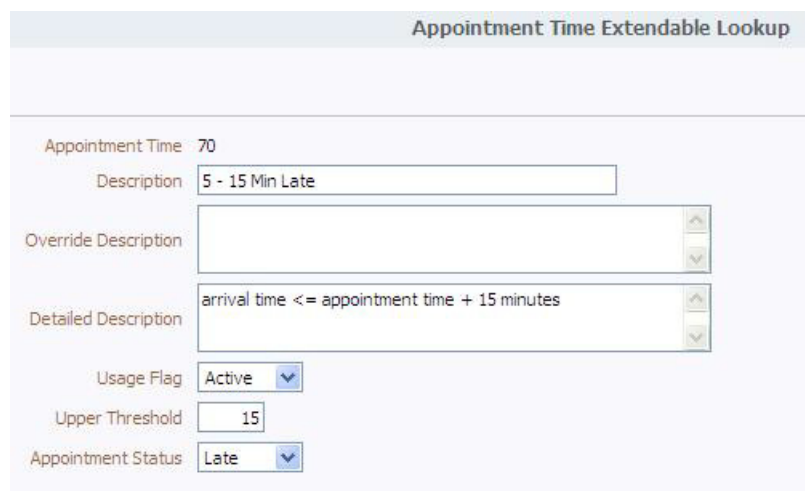
The following example shows the extendable lookup for Appointment Time.

**Note:** The values 50 and 90 are owned by Oracle Real-Time Scheduler and are fixed; additional values were added for 60, 70, and 80 (Owner = “Customer Modification”).



Value	Description	Owner
1 50	On Time	Oracle Real-time Scheduler
2 60	0 - 5 Min Late	Customer Modification
3 70	5 - 15 Min Late	Customer Modification
4 80	15 - 30 Min Late	Customer Modification
5 90	Late	Oracle Real-time Scheduler

The figure below shows the detail for the value selected in the figure above (value 70). The resulting value of the performance metric is compared against the Upper Threshold field to determine whether or not the result fits into the bucket. Any value less than 15 (but over the Upper Threshold of the previous extendable lookup entry) fits into this bucket.



**Appointment Time Extendable Lookup**

Appointment Time: 70

Description: 5 - 15 Min Late

Override Description:

Detailed Description: arrival time <= appointment time + 15 minutes

Usage Flag: Active

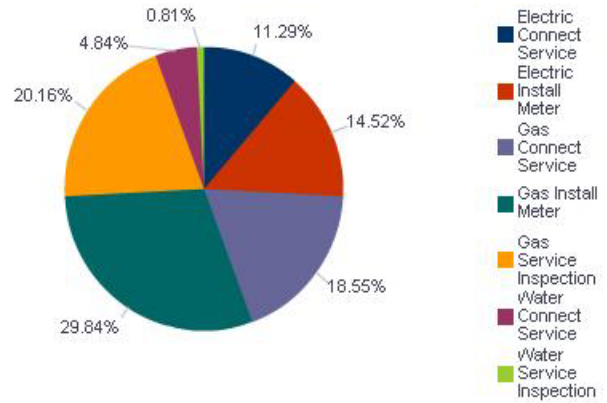
Upper Threshold: 15

Appointment Status: Late

The entries have to be set up from the lowest (Value = 0) to the highest (Value = 90). The Appointment Status field determines whether or not the appointment is considered “on time” or “late” (missed). In this manner, a company could consider an appointment that is 5 minutes late as still “on time”.

The following BI answer shows a pie chart for the various activity types of those appointments which are considered “Missed” or “Late”.

**Missed Appointments by Activity Type**  
June 2012



### Appointment Time of Day

The Appointments dashboard in Oracle Utilities Mobile Workforce Analytics has a BI answer related to the timing of appointments. The appointment time buckets are defined on the extendable lookup for **Appointment Time of Day**.

In this lookup table, the company can set up any number of appointment time buckets. The following four values are fixed:

- Value = 10
- Value = 20
- Value = 30
- Value = 90

The company can change the From and To times of the fixed values or add more values (of their own) by adding 21, 31, or 60.

The following example shows the extendable lookup for Appointment Time of Day.

**Note:** The values 10 through 90 are owned by Oracle Real-time Scheduler and are fixed.

Extendable Lookup Value List			
Filtered by Business Object <b>M1-AppointmentTimeOfDayLookup</b>			
	Value	Description	Owner
1	10	7:00am - 12:00pm	Oracle Real-time Scheduler
2	20	12:00pm - 6:00pm	Oracle Real-time Scheduler
3	30	All Day 7:00am - 6:00pm	Oracle Real-time Scheduler
4	90	Other	Oracle Real-time Scheduler

The figure below shows the detail for the value selected in the figure above (value 10).

**Appointment Time Of Day Extendable Lookup**

---

Appointment Time Of Day 10

Description 7:00am - 12:00pm

Override Description

Detailed Description

Usage Flag Active

From Time 07:00AM

To Time 12:00PM

### Crew Time Usage / Productive vs Non-productive Time

The Crew dashboard in Oracle Utilities Mobile Workforce Analytics has several BI answers related to productive versus non-productive time. Whether or not a crew usage type is considered productive or not is defined on the extendable lookup for **Crew Time Usage**.

This lookup table defines all the values for crew usage types (Work, Travel, POU, Break, Depot, Idle, Logon, Logoff, Out of Service, Wait). The company needs to select whether or not the Crew Time Usage Class = “Productive” or “Not Productive”.

In the following examples, Travel is defined as “Not Productive” and Work is defined as “Productive”.

**Extendable Lookup Value**

**Main**

Crew Time Usage M1TRAVEL

Description Travel

Override Description

Detailed Description

Usage Flag Active

Crew Time Usage Class **Not Productive**

**Extendable Lookup Value**

**Main**

Crew Time Usage M1WORK

Description Work

Override Description

Detailed Description

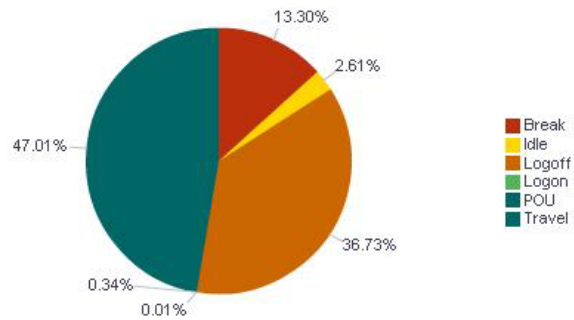
Usage Flag Active

Crew Time Usage Class **Productive**

The following example shows the use of productive and non-productive time; on this BI answer, non-productive time is broken by the crew usage type (Time Bucket).

## Non-Productive Time

December 2012



Time Bucket	Average Time Per Crew (Mins)	Total Duration (Hrs)	% of Total Non-Productive Time	% of Total Time
Travel	117.26	820.84	47.01%	23.15%
Logoff	91.61	641.27	36.73%	18.08%
Break	33.18	232.26	13.30%	6.55%
Idle	6.52	45.64	2.61%	1.29%
POU	0.84	5.86	0.34%	0.17%
Logon	0.02	0.12	0.01%	0.00%

## Deviations

In Oracle Utilities Mobile Workforce Analytics, results of some performance metrics are grouped into user-defined buckets as opposed to providing a calculated value for each result. Using these buckets, the performance metrics can be better viewed in pie charts and other graphs.

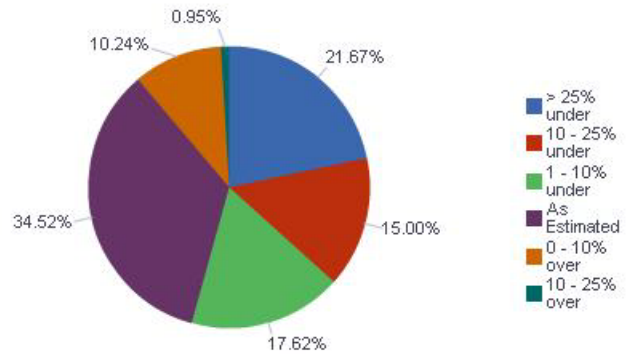
The following performance metrics have user-defined deviation buckets:

- Work duration (estimated work duration – actual work duration, expressed as a percentage)
- Travel time duration (estimated travel time duration – actual travel time duration, expressed as a percentage)
- Travel distance (estimated travel distance – actual travel distance, expressed as a percentage)

As an example, the following pie chart shows the deviations for travel distance. For an activity, if the planned travel was 20 miles/kilometer and the actual travel was 24 miles/kilometer, the deviation is 20% more than planned, which fits into the 10 – 25% over bucket.

## Travel Distance Deviation Distribution

December 2012



In the extendable lookup tables, the company can set up any number of deviation buckets for each of the performance metrics listed above. However, the two values listed below are fixed for each of the deviations:

- Value = 50 = as estimated (i.e., planned – actual = 0)
- Value = 90 = Over the Estimate (highest bucket)

The company can add more values below 50 for negative deviations or between 50 and 90 for positive deviations.

The following example shows the extendable lookup for **Travel Distance Deviation**.

**Note:** The values 50 and 90 are owned by Oracle Real-Time Scheduler and are fixed; additional values were added for 20, 30, 40, 60, and 70 (Owner = “Customer Modification”).

Extendable Lookup Value List			
Filtered by Business Object M1-TravelDistDevLookup			
	Value	Description	Owner
1	20	> 25% under	Customer Modification
2	30	10 - 25% under	Customer Modification
3	40	1 - 10% under	Customer Modification
4	50	As Estimated	Oracle Real-time Scheduler
5	60	0 - 10% over	Customer Modification
6	70	10 - 25% over	Customer Modification
7	90	Over the Estimate	Oracle Real-time Scheduler

The following figure shows the detail for the value selected in the figure above (value 70). The resulting percentage value of the performance metric is compared against the Upper Threshold field to determine whether or not the result fits into the bucket. Any value less than 25 (but over the Upper Threshold of the previous extendable lookup entry) fits into this bucket.

**Travel Distance Deviation Extendable Lookup**

---

Travel Distance Deviation 70

Description

Override Description

Detailed Description

Usage Flag

Upper Threshold

The entries need to be set up from the lowest (Value = 0) to the highest (Value = 90). Negative values are allowed – as in the example above, the Upper Threshold for Value = 20 is -25 (any deviation -25 or less fits into that bucket).

## Logon and Logoff Times

The logon and logoff times are similar to the deviations described in the **Deviations** section, except they are expressed as the number of minutes (time) deviated between actual logon/logoff and planned logon/logoff times (instead of percentages). And, similar to **Appointment Time**, the company can specify or not what is “Considered On Time”.

In the extendable lookup tables (Late Logon Time and Early Logoff Time), the company can set up any number of deviation buckets for logon and logoff times. The two values listed below are fixed for each of the deviations:

- Value = 50 = On Time (i.e., planned – actual = 0)
- Value = 90 = Late (highest bucket)

The company can add more values below 50 for negative values (early logon or late logoff), or between 50 and 90 for more positive values.

The following example shows the extendable lookup for **Late Logon Time**.

**Note:** The values 50 and 90 are owned by Oracle Real-Time Scheduler and are fixed; additional values were added for 55, 60, and 70 (Owner = “Customer Modification”).

Extendable Lookup Value List			
Filtered by Business Object M1-LateLogonTimeLookup			
	Value	Description	Owner
1	50	On Time	Oracle Real-time Scheduler
2	55	On Time	Customer Modification
3	60	15 Min Late	Customer Modification
4	70	30 Min Late	Customer Modification
5	90	Late	Oracle Real-time Scheduler

The following figure shows the detail for the value selected in the figure above (value = 55). The resulting value of the actual logon time – planned logon time is compared against the Upper Threshold field to determine whether or not the result fits into the bucket. Any value less than 4 minutes (but over the Upper Threshold of the previous extendable lookup entry) fits into this bucket.

Late Logon Time Extendable Lookup	
Late Logon Time	55
Description	On Time
Override Description	
Detailed Description	crew logged on <= planned start time + 4 minutes
Usage Flag	Active
Upper Threshold	4
Considered On Time	Yes

The entries need to be set up from the lowest (Value = 0) to the highest (Value = 90). The Considered On Time field determines whether or not the crew or field technician is considered On Time (Yes) or not (No). In this manner, a company could consider logging on four minutes late or logging off four minutes early as still “On Time”, as in the example explained above.

## Service Level Agreements

In Oracle Utilities Mobile Workforce Analytics, service level agreements (SLAs) represent the company’s internal metric for responding to appointments and emergencies (dispatch time to completion time) and are set up on the Task Type in the Response Time SLA field.

In this example, Response Time SLA is 48 hours (2 days) for a Water Meter Install activity.

Task Type	
Main	
Activity Type	W-INSMTR
Description	Water Install Meter
Status	Active
Average Duration	00:45:00
Auto Dispatch	Yes
Acknowledgement Required	No
Queue	Normal
Priority Profile	High
SLA Priority	1
Shift Promotion	1
Appointment Booking Group	
Work Calendar	US Work Calendar
Eligible For Assist	No
Reporting Service Category	Water Meter Services
Response Time SLA	48:00:00
Activity Business Object	Install Meter Activity

The SLA Response Time deviations (similar to the those for **Deviations**) are created and are expressed as a percentage difference between the planned (desired) response time and the actual response time. In addition, the company can specify whether or not the SLA was met or missed.

In the extendable lookup tables, the company can set up any number of deviation buckets for response time deviations. The two values listed below are fixed:

- Value = 50 = Meets SLA (i.e., planned – actual = 0)
- Value = 90 = Missed SLA (highest bucket)



The company can add more values below 50 for negative deviations, or between 50 and 90 for positive deviations.

The following example shows the extendable lookup for **Response Time Deviation**.

**Note:** The values 50 and 90 are owned by Oracle Real-Time Scheduler and are fixed; the additional values were added for 20, 30, 40, 60, and 70 (Owner = “Customer Modification”).

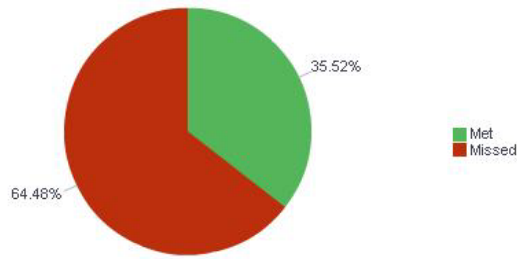
	Value	Description	Owner
1	20	> 25% under	Customer Modification
2	30	10 - 25% under	Customer Modification
3	40	1 - 10% under	Customer Modification
4	50	Meets SLA	Oracle Real-time Scheduler
5	60	0 - 10% over	Customer Modification
6	70	10 - 25% over	Customer Modification
7	90	Exceeds SLA	Oracle Real-time Scheduler

The following figure shows the detail for the value selected in the figure above (value = 60). The resulting percentage value of actual response time – planned (desired) response time is compared against the Upper Threshold field to determine whether or not the result fits into the bucket. Any value less than 10 (but over the Upper Threshold of the previous Extendable Lookup entry) fits into this bucket.

The entries need to be set up from the lowest (value = 0) to the highest (value = 90). The SLA Status field determines whether or not the SLA was “Met” or “Missed”. In this manner, a company could consider a deviation of 4% as still “Met”.

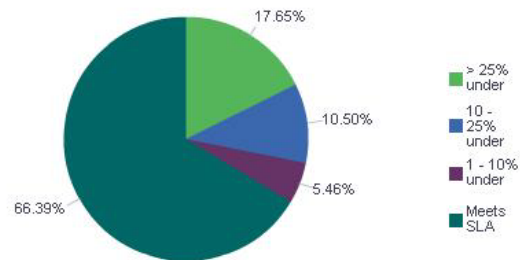
The following BI answers show the difference between the SLA Status (Met/Missed) and the Response Time deviations. The first pie chart shows the percentage of emergencies based on the SLA Status (Met/Missed), and the second shows the emergencies that were “Met” (on time or early) broken down by the Response Time deviation buckets.

Emergency Response Met vs Missed  
June 2012



[Print](#) - [Export](#)

Emergency Responses – On Time or Early  
June 2012



## Hierarchies

In Oracle Utilities Mobile Workforce Analytics, every dashboard can be filtered either on the Crew hierarchy or on the Service Area hierarchy, or on both. In addition, the hierarchies appear in many of the dashboard tables and enable the BI user to group or rollup results. Here is an example of the Crew hierarchy in the Crew Comparison table, as seen on the Crew dashboard.

	Break (Hrs)	Idle (Hrs)	Logoff (Hrs)	Logon (Hrs)	POU (Hrs)	Travel (Hrs)	Work (Hrs)
<b>Crew Hierarchy</b>							
[-] Crew Total	541.68	229.64	594.21	251.23	31.66	1904.92	2099.16
[-] Utilities	541.68	229.64	594.21	251.23	31.66	1904.92	2099.16
[-] Electric	181.63	131.71	187.05	50.07	12.00	766.20	815.08
[-] Electric Contract Services	18.28	3.15	14.33	11.91	1.00	48.85	74.00
[-] Electric Internal Services	163.36	128.56	172.73	38.17	11.00	717.35	741.08
[-] Gas	191.05	35.34	220.38	77.39	9.83	617.99	586.83
[-] Gas Contract Services	30.87	17.60	9.74	5.71	1.00	42.49	68.30
[-] Gas Internal Services	160.18	17.74	210.64	71.68	8.83	575.50	518.53
[-] Water	169.00	62.58	186.77	123.77	9.83	520.73	697.25
[-] Water Contract Services	19.31	0.72	31.11	10.48	1.00	35.73	64.75
[-] Water Internal Services	149.69	61.87	155.66	113.29	8.83	485.00	632.51
<b>Grand Total</b>	<b>541.68</b>	<b>229.64</b>	<b>594.21</b>	<b>251.23</b>	<b>31.66</b>	<b>1904.92</b>	<b>2099.16</b>

This section describes how the hierarchies are set up within the Oracle Utilities Mobile Workforce Management system.

## Crew Hierarchy

A crew hierarchy is user defined and is set up for the crews in the Oracle Utilities Mobile Workforce Management system.

The Crew hierarchy provides a rollup of the field resources/crews by how they are managed in the organization; some examples might be by service (electric, gas, water), by function (meter services, deliveries), or by company affiliation (internal resources vs. contractors). Each crew can be assigned up to three levels of hierarchy. First, the crew hierarchy levels are built using the extendable lookup for **Crew Organization Unit**. Organization Unit 1 is the highest level of the hierarchy, followed by Organization Unit 2, and followed by Organization Unit 3. Organization Unit 2 and Organization Unit 3 are optional. For each of the lowest levels in the hierarchy (called Reporting Hierarchy), 1 to 3 upper levels are defined.

For portability to future releases of Oracle Utilities Mobile Workforce Management, the values of each member of the Organization Units *must be unique*, even between levels.


Organization Unit 1	Organization Unit 2	Organization Unit 3	Unique
Utilities	Electric	Internal Services	Yes
Utilities	Electric	Contractors	Yes
Utilities	Gas	Internal Services	No – the Organization Unit 3 value is already used for Utilities / Electric
Utilities	Electric	Electric	No – Electric is already used as an Organization Unit 2 value

Second, the Crew hierarchy is assigned to each Crew on the Crew Maintenance screen, in the drop-down for Reporting hierarchy.

### Service Area Hierarchy

A Service Area hierarchy is user defined and is set up for the service areas in the Oracle Utilities Mobile Workforce Management system. The Service Area hierarchy provides a rollup of the activities by where they are located; examples of hierarchy levels might include companies, service territories, regions, divisions, districts, areas, states, provinces, countries, or counties.

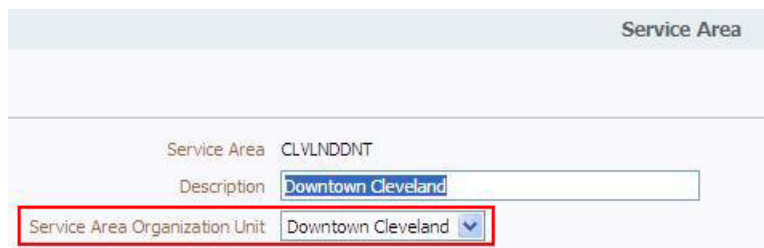
Each service area can be assigned a hierarchy up to three levels. First, the Service Area hierarchy levels are built using the extendable lookup for **Service Area Organization Unit**. Organization Unit 1 is the highest level of the hierarchy, followed by Organization Unit 2, and followed by Organization Unit 3. Organization Unit 2 and Organization Unit 3 are optional. For each of the lowest levels in the hierarchy (called Service Area Organization Unit), 1 to 3 upper levels are defined.



For portability to future releases of Oracle Utilities Mobile Workforce Management, the values of each member of the Organization Units *must be unique*, even between levels.

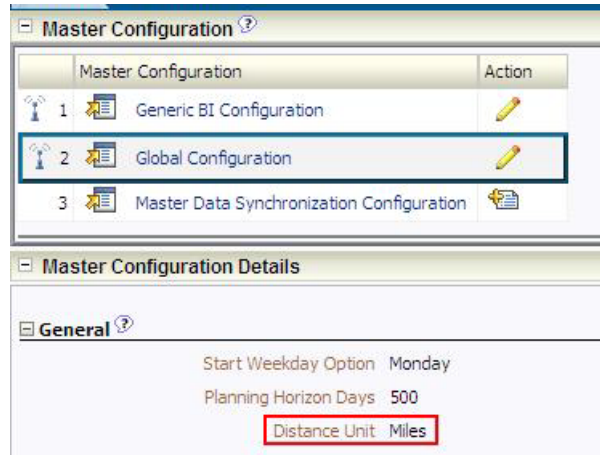
Organization Unit 1	Organization Unit 2	Organization Unit 3	Unique
ORD	Region A	Division 1	Yes
ORD	Region A	Division 2	Yes
ORD	Region B	Division 1	No – the Organization Unit 3 value is already used for ORD / Region A
ORD	Region C	Region B	No – Region B is already used as an Organization Unit 2 value

Second, the Service Area hierarchy is assigned to each Service Area on the Service Area Maintenance screen, in the drop-down for the Service Area Organization Unit.



## Travel Distance

In Oracle Utilities Mobile Workforce Analytics, travel distances are displayed in the same unit as that of the Common Dispatcher Interface (CDI). This distance unit is defined in the Global Configuration section on the Master Configuration screen.



## Default Date for Initial Loads

For the initial extracts of dimensions and accumulation facts, the default date set out-of-the-box is 01-JAN-2000. The same date is used as the effective date/time on the records when the ETL processes load them into the BI date warehouse. However, the default date can be modified as per requirement.

To modify the default date for the initial loads, follow these steps:

1. Duplicate the algorithm F1-PRPETDATA and create a Custom Modification algorithm. For example: CM-PRPETDATA
2. Modify the value of the third algorithm parameter “Initial Load Update Date/Time”, and then set the preferred date for the initial load.
3. Open the business object F1-GenericBISyncRequest and plug-in the algorithm (CM-PRPETDATA) in the “Send Request” life cycle state.
4. Plug the algorithm in the System Event “Enter” with a sequence of 20.
5. On the same life cycle state (Send Request), add a new option to inactivate the original algorithm. Use the “Inactivate Algorithm” option type and specify the algorithm as F1-PRPETDATA.
6. Now, all initial load batches can be run for dimensions and accumulation facts. The new date will be used for the initial extracts.

The following use case explains a scenario on why users might want to change the default date for initial load extracts. Certain facts in Oracle Utilities Mobile Workforce Management refer to Oracle Utilities Customer Care and Billing dimensions in the BI data warehouse. Assume that the Oracle Utilities Customer Care and Billing dimensions are loaded with the effective date as 01-JAN-2005. The default effective date that is available on the initial extracts for the Oracle Utilities Mobile Workforce Management accumulation facts is 01-JAN-2000. The Oracle Utilities Mobile Workforce Management fact records that refer to the Oracle Utilities Customer Care and Billing dimensions fail the ETL load since the fact records have a date earlier than the dimension records. To avoid this scenario the Oracle Utilities Mobile Workforce Management fact records need to be extracted with an later date than 01-JAN-2000. Hence, the default date for initial loads needs to be modified.