

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

## Documentation Accessibility

For information about configuring and using accessibility features for Oracle Utilities Analytics, see the documentation at [http://docs.oracle.com/cd/E23943\\_01/bi.1111/e10544/appaccess.htm#BIEUG2756](http://docs.oracle.com/cd/E23943_01/bi.1111/e10544/appaccess.htm#BIEUG2756).

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at <http://www.oracle.com/us/corporate/accessibility/index.html>.

### Access to Oracle Support

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## Related Documents

For more information, see the following documents:

- *Oracle Utilities Analytics Release Notes*
- *Oracle Utilities Analytics Getting Started Guide*
- *Oracle Utilities Analytics Quick Install Guide*
- *Oracle Utilities Analytics Installation Guide*
- *Oracle Utilities Analytics Administration Guide*
- *Oracle Utilities Analytics Developer's Guide*

### See Also:

- Oracle Mobile Workforce Management Documentation Library

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## Conventions

The following notational conventions are used in this document:

Notation	Indicates
<b>boldface</b>	Graphical user interface elements associated with an action, terms defined in text, or terms defines in the glossary
<i>italic</i>	Book titles, emphasis, or placeholder variables for which you supply particular values
monospace	Commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter

## Acronyms

The following acronyms are used in this document:

- MDM - Oracle Utilities Meter Data Management
- MWM - Oracle Utilities Mobile Workforce Management
- CCB - Oracle Utilities Customer Care and Billing
- NMS - Oracle Utilities Network Management System
- ETL - Extraction, Transformation, and Loading
- ODI - Oracle Data Integrator
- OBIEE - Oracle Business Intelligence Enterprise Edition
- OUAF - Oracle Utilities Application Framework

# 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, along with the rules of data transformation

### Terminologies

This section describes the terminology used for data maps included in the document.

#### <Table Name>

The Table Name indicates the name of the fact or the dimension in a star schema in the data warehouse.

#### Properties

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

Property	Value
Target Table	Name of the table in the target schema (data warehouse) into which data is loaded
Table Type	Fact or Dimension
SCD Type	Type 1 - Existing records are updated directly. The nature of the dimension depends on how it handles changes made in the source system.  Type 2 - When changes occur, a new effective row is inserted. The existing records are deactivated by entering the current date as the effective end date and new records are inserted with an effective start date as today's date. The new record will have the end date as a high date.

<b>Property</b>	<b>Value</b>
Fact Type	<p>Whether this is a snapshot or accumulation fact table</p> <p>Snapshot - Captures a snapshot view of the data as available in the source system during that period (monthly or weekly). Each snapshot's data is stored independently.</p> <p>Accumulation - Data from the source system is accumulated periodically. Changes from source system will be merged with the existing data. Multiple copies of the same data will not be maintained.</p>
Source System Driver Table	Name of the table in source database on which the data is primarily based
Source System Download Table	<p>Name of the download table populated by the source batch program.</p> <p>Note that this property is applicable only for the snapshot facts for which special batch programs have been designed in the source system for data extraction.</p>
Stage Table	Name of the table in the staging schema (data warehouse) that can be used to query the data records generated by the ETL logic
Oracle Data Integrator Package	Name of the ODI package that needs to be executed to transform data from the replication layer and populate a specific target table in the data warehouse
ETL View	Resides in the replication layer and fetches the base values from the replication tables as a starting point for further transformations to be done by the Oracle Data Integrator interfaces
Materialized View	<p>Names of the materialized views delivered with the product for a specific fact table</p> <p>These materialized views are designed to support all of the OBIEE answers delivered with the product. Refreshing these materialized views will be taken care by separate ETL jobs.</p>
Source Batch Program	The batch program that needs to be executed in the MDM system to extract the data into download tables. This is available only for the MDM snapshot facts.

## 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:

<b>Property</b>	<b>Value</b>
Target Field	Name of the column in the fact or dimension table present in the data warehouse. The extracted/transformed data is loaded here.
Description	Description of the target field
Source Field	Name of the field from the source application used to load the target field either directly or after transformation

Property	Value
Transformation Logic	Specifies the details of how the data from the source field is transformed before being populated into the target field.

## Field Categories

This table lists the categories under which the fields in a particular fact or dimension are grouped. The categories presented are as below:

Category	Details
Surrogate Key	The primary key on the fact/dimension table maintained within the data warehouse.
Natural Keys	<p>The set of columns from the source system define the granularity of the fact or dimension table. The natural key columns from the source along with certain other data load attributes can be used to uniquely identify a record in the table.</p> <p>The additional columns needed for the identification depend on the type of the table as listed below:</p> <ul style="list-style-type: none"> <li>• SCD Type 1 Dimension - Data Source Indicator</li> <li>• SCD Type 2 Dimension - Effective Start Date, Effective End Date, Data Source Indicator</li> <li>• Accumulation Fact - Data Source Indicator</li> <li>• Snapshot Fact - Snapshot Date, Data Source Indicator</li> </ul>
Attributes	Hold descriptive data from the source system and are typically available in dimension tables.
Measures	Hold numerical value based data calculated from the source system data and are typically available on fact tables.
Degenerate Dimensions	Hold descriptive data from the source system and are typically available in fact tables. These cannot be grouped into any of the available dimensions.
Foreign Keys	Foreign key references on the fact tables to the dimension tables.
User Defined Attributes	Additional fields available to customers for extending the star schemas. These fields will not be populated out of the box. Customers need to customize the ETL and populate these fields.
Data Load Attributes	Hold the date/time information, job number details, etc, related to the ETL processes, that are needed for audit purposes.



# Chapter 2

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## Data Maps for Oracle Utilities Mobile Workforce Management

This chapter contains data maps for the following Oracle Utilities Extractors and Schema for Oracle Utilities Mobile Workforce Management tables:

- [Dimensions](#)
- [Shared Dimensions](#)
- [Facts](#)

## Dimensions

This section lists all the dimension tables belonging to the Oracle Utilities Mobile Workforce Management star schemas only and are populated only from the Oracle Utilities Mobile Workforce Management source product.

### Appointment Time Dimension

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

#### Properties

Property	Value
Target Table	CD_APPT_TM
Table Type	Dimension
SCD Type	Type 1
Source System Driver Table	F1_BKT_CONFIG
Stage Table	STG_CD_APPT_TM
ODI Package	B1_PKG_CD_APPT_TM
ETL View	B1_D_APPT_VW

#### Fields

Target Field	Description	Source Field	Transformation Logic
<b>Surrogate Key</b>			
APPT_TM_KEY	Appointment Time Dimension Surrogate Key		This field is populated from the OUBI_APPT_TM_SEQ sequence.
<b>Natural Keys</b>			
START_RANGE	Appointment Time Start Range	F1_BKT_CONFIG_VAL.BKT_START_RANGE	This field is populated with the bucket start range based on the bucket configuration code.  The bucket configuration code from the Bucket Configuration table is retrieved based on the bucket configuration BO defined for appointment time.

Target Field	Description	Source Field	Transformation Logic
END_RANGE	Appointment Time End Range	F1_BKT_CONFIG_VAL.BKT_END_RANGE	<p>The field is populated with the bucket end range based on the bucket configuration code.</p> <p>The bucket configuration code from the Bucket Configuration table is retrieved based on the bucket configuration BO defined for appointment time.</p>
<b>Attributes</b>			
APPT_TM_DESCR	Appointment Time Description	F1_BKT_CONFIG_VAL_L.DESCR	
APPT_STATUS_DESCR	Appointment Status Description	CI_LOOKUP_VAL_L.DESCR_OVRD  CI_LOOKUP_VAL_L.DESCR	<p>This field is populated with the description from Lookup Language table for M1_APPT_STATUS_FLG lookup field.</p> <p>If override description is not available, regular description is extracted.</p>
APPT_STATUS_CD	Appointment Status Code	F1_BKT_CONFIG_VAL.BKT_VAL_TYPE_CD	
APPT_TM_CD	Appointment Time Code		<b>Note:</b> This field is obsolete and is not populated. The new bucket configurations based on the OUAF bucket configuration tables do not need this.
<b>User Defined Attributes</b>			
UDF1_CD	User Defined Field 1 Code		
UDF1_DESCR	User Defined Field 1 Description		
UDF2_CD	User Defined Field 2 Code		
UDF2_DESCR	User Defined Field 2 Description		
UDF3_CD	User Defined Field 3 Code		
UDF3_DESCR	User Defined Field 3 Description		
UDF4_CD	User Defined Field 4 Code		
UDF4_DESCR	User Defined Field 4 Description		
UDF5_CD	User Defined Field 5 Code		

Target Field	Description	Source Field	Transformation Logic
UDF5_DESCR	User Defined Field 5 Description		
UDF6_CD	User Defined Field 6 Code		
UDF6_DESCR	User Defined Field 6 Description		
UDF7_CD	User Defined Field 7 Code		
UDF7_DESCR	User Defined Field 7 Description		
UDF8_CD	User Defined Field 8 Code		
UDF8_DESCR	User Defined Field 8 Description		
UDF9_CD	User Defined Field 9 Code		
UDF9_DESCR	User Defined Field 9 Description		
UDF10_CD	User Defined Field 10 Code		
UDF10_DESCR	User Defined Field 10 Description		
<b>Data Load Attributes</b>			
UPDATE_DTTM	Update Date and Time		
DATA_LOAD_DTTM	Data Load Date/Time		This field is populated with the load timestamp value.
DATA_SOURCE_IND	Data Source Indicator	CI_INSTALLATION.ENV _ID	This field is populated with the DSI value on the source product instance configuration. The table is populated as part of the initial setup and the DSI value is extracted from the environment ID of the source system.
JOB_NBR	Job Number		This field is populated with the ODI job execution session number.

**Note:** This bucket dimension is configured as one time load only. For information about data reload, see **Reloading the Bucket Configuration** section in the *Oracle Utilities Analytics Administration Guide*.

## Appointment Time of Day Dimension

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

### Properties

Property	Value
Target Table	CD_APPT_TM_OF_DAY
Table Type	Dimension
SCD Type	Type 1
Source System Driver Table	F1_BKT_CONFIG
Stage Table	STG_CD_APPT_TM_OF_DAY
ODI Package	B1_PKG_CD_APPT_TM_OF_DAY
ETL View	B1_D_APPT_OF_DAY_VW

### Fields

Target Field	Description	Source Field	Transformation Logic
<b>Surrogate Key</b>			
APPT_TM_OF_DAY_KEY	Appointment Time of Day Dimension Surrogate Key		This field is populated from the OUBL_APPT_TM_OF_DAY_SEQ sequence.
<b>Natural Keys</b>			
START_RANGE	Appointment Time of Day Start Range	F1_BKT_CONFIG_VAL.BKT_START_RANGE	The field is populated with the bucket start range based on the bucket configuration code.  The bucket configuration code from the Bucket Configuration table is retrieved based on the bucket configuration BO defined for appointment time of day.
END_RANGE	Appointment Time of Day End Range	F1_BKT_CONFIG_VAL.BKT_END_RANGE	The field is populated with the bucket end range based on the bucket configuration code.  The bucket configuration code from the Bucket Configuration table is retrieved based on the bucket configuration BO defined for appointment time of day.

Target Field	Description	Source Field	Transformation Logic
<b>Attributes</b>			
APPT_TM_OF_DAY_DESCR	Appointment Time of Day Description	F1_BKT_CONFIG_VAL_L.DESCR	
APPT_TM_OF_DAY_CD	Appointment Time Of Day Code		<b>Note:</b> This field is obsolete and is not populated. The new bucket configurations based on the OUAF bucket configuration tables do not need this.
<b>User Defined Attributes</b>			
UDF1_CD	User Defined Field 1 Code		
UDF1_DESCR	User Defined Field 1 Description		
UDF2_CD	User Defined Field 2 Code		
UDF2_DESCR	User Defined Field 2 Description		
UDF3_CD	User Defined Field 3 Code		
UDF3_DESCR	User Defined Field 3 Description		
UDF4_CD	User Defined Field 4 Code		
UDF4_DESCR	User Defined Field 4 Description		
UDF5_CD	User Defined Field 5 Code		
UDF5_DESCR	User Defined Field 5 Description		
UDF6_CD	User Defined Field 6 Code		
UDF6_DESCR	User Defined Field 6 Description		
UDF7_CD	User Defined Field 7 Code		
UDF7_DESCR	User Defined Field 7 Description		
UDF8_CD	User Defined Field 8 Code		
UDF8_DESCR	User Defined Field 8 Description		
UDF9_CD	User Defined Field 9 Code		
UDF9_DESCR	User Defined Field 9 Description		
UDF10_CD	User Defined Field 10 Code		

Target Field	Description	Source Field	Transformation Logic
UDF10_DESCR	User Defined Field 10 Description		
<b>Data Load Attributes</b>			
UPDATE_DTTM	Update Date and Time		
DATA_LOAD_DTTM	Data Load Date/Time		This field is populated with the load timestamp value.
DATA_SOURCE_IND	Data Source Indicator	CI_INSTALLATION.ENV_ID	This field is populated with the DSI value on the source product instance configuration. The table is populated as part of the initial setup and the DSI value is extracted from the environment ID of the source system.
JOB_NBR	Job Number		This field is populated with the ODI job execution session number.

**Note:** This bucket dimension is configured as one time load only. For information about data reload, see the **Reloading the Bucket Configuration** section in *Oracle Utilities Analytics Administration Guide*.

## Crew Shift Dimension

The Crew Shift dimension includes the details of all crew shifts defined in the Oracle Utilities Extractors and Schema for Oracle Utilities Mobile Workforce Management system.

### Properties

Property	Value
Target Table	CD_CREW_SHIFT
Table Type	Dimension
SCD Type	Type 2
Source System Driver Table	M1_CREW_SHIFT F1_BUS_OBJ
Stage Table	STG_CD_CREW_SHIFT
ODI Package	B1_PKG_CD_CREW_SHIFT
ETL View	B1_D_CREW_SHIFT_VW

## Fields

Target Field	Description	Source Field	Transformation Logic
<b>Surrogate Key</b>			
CREW_SHIFT_KEY	Crew Shift Surrogate Key		This field is populated from the SPL_CREW_SHIFT_SEQ sequence.
<b>Natural Keys</b>			
SRC_CREW_SHIFT_ID	Crew Shift ID	M1_CREW_SHFT.CREW_SHIFT_ID	
<b>Attributes</b>			
CREW_SHIFT_TYPE_DESCR	Crew Shift Type Description	M1_CREW_SHFT_TYPE_L.DESCR	
PRIMARY_FN_DESCR	Primary Function Description	M1_SVC_CLS_L.DESCR	
CREW_SHIFT_INFO	Crew Shift Description	M1_RESRC_ID.RESRC_ID_VAL M1_CREW_SHFT_TYPE_L.DESCR M1_CREW_SHFT.PLAN_START_DTTM M1_CREW_SHFT.PLAN_END_DTTM F1_BUS_OBJ_STATUS_L.DESCR	This field is a concatenation of crew name, crew shift type, planned start date, planned end date, and shift status.
CREW_SHIFT_TYPE_CD	Crew Shift Type Code	M1_CREW_SHFT.CREW_SHIFT_TYPE_CD	
PRIMARY_FN_CD	Primary Function Code	M1_CREW_SHFT_SVC_CLS.SVC_CLS_CD	This field is populated from the Crew Shift Service Class table based on the usage flag (set as 'Primary') associated with the current shift ID.
<b>User Defined Attributes</b>			
UDF1_CD	Shift Type		
UDF1_DESCR	Shift Type Code		
UDF2_CD	User Defined Field 2 Code		
UDF2_DESCR	User Defined Field 2 Description		
UDF3_CD	User Defined Field 3 Code		



Target Field	Description	Source Field	Transformation Logic
UDF3_DESCR	User Defined Field 3 Description		
UDF4_CD	User Defined Field 4 Code		
UDF4_DESCR	User Defined Field 4 Description		
UDF5_CD	User Defined Field 5 Code		
UDF5_DESCR	User Defined Field 5 Description		
UDF6_CD	User Defined Field 6 Code		
UDF6_DESCR	User Defined Field 6 Description		
UDF7_CD	User Defined Field 7Code		
UDF7_DESCR	User Defined Field 7 Description		
UDF8_CD	User Defined Field 8 Code		
UDF8_DESCR	User Defined Field 8 Description		
UDF9_CD	User Defined Field 9 Code		
UDF9_DESCR	User Defined Field 9 Description		
UDF10_CD	User Defined Field 10 Code		
UDF10_DESCR	User Defined Field 10 Description		
<b>Data Load Attributes</b>			
EFF_END_DTTM	Effective End Date/Time		
EFF_START_DTTM	Effective Start Date/Time		
DATA_LOAD_DTTM	Data Load Date/Time		This field is populated with the load timestamp value.
DATA_SOURCE_IND	Data Source Indicator	CI_INSTALLATION.ENV _ID	This field is populated with the DSI value on the source product instance configuration. The table is populated as part of the initial setup and the DSI value is extracted from the environment ID of the source system.
JOB_NBR	Job Number		This field is populated with the ODI job execution session number.

## Crew Time Usage Dimension

The Crew Time Usage dimension holds all valid values for crew time usages based on the tasks carried out by crews. The crew time usages are further classified as productive or non productive.

### Properties

Property	Value
Target Table	CD_CREW_TM_USG
Table Type	Dimension
SCD Type	Type 1
Source System Driver Table	F1_EXT_LOOKUP_VAL
Stage Table	STG_CD_CREW_TM_USG
ODI Package	B1_PKG_CD_CREW_TM_USG
ETL View	B1_D_CREW_TM_USG_VW

### Fields

Target Field	Description	Source Field	Transformation Logic
<b>Surrogate Key</b>			
CREW_TM_USG_KEY	Crew Time Usage Dimension Surrogate Key		This field is populated from the OUBI_CREW_TM_USG_SEQ Q sequence.
<b>Natural Keys</b>			
CREW_TM_USG_CD	Crew Time Usage Code	F1_EXT_LOOKUP_VAL. F1_EXT_LOOKUP_VAL UE	This field extracts the records defined only for the M1- CrewTimeUsageLookup lookup business object.
<b>Attributes</b>			
CREW_TM_USG_DESCR	Crew Time Usage Description	F1_EXT_LOOKUP_VAL_ L.DESCR_OVRD  F1_EXT_LOOKUP_VAL_ L.DESCR	If override description is not available, regular description is extracted.
PRODUCTIVITY_DESCR	Productivity Description	CL_LOOKUP_VAL_L.DE SCR_OVRD  CL_LOOKUP_VAL_L.DE SCR	This field is populated with description from the Lookup Language table for the M1_CREW_TM_USG_CLS_ FLG lookup field.  If override description is not available, regular description is extracted.

Target Field	Description	Source Field	Transformation Logic
PRODUCTIVITY_CD	Productivity Code	F1_EXT_LOOKUP_VAL. BO_DATA_AREA	This field is populated with the productivity code from the CLOB column.
<b>User Defined Attributes</b>			
UDF1_CD	User Defined Field 1 Code		
UDF1_DESCR	User Defined Field 1 Description		
UDF2_CD	User Defined Field 2 Code		
UDF2_DESCR	User Defined Field 2 Description		
UDF3_CD	User Defined Field 3 Code		
UDF3_DESCR	User Defined Field 3 Description		
UDF4_CD	User Defined Field 4 Code		
UDF4_DESCR	User Defined Field 4 Description		
UDF5_CD	User Defined Field 5 Code		
UDF5_DESCR	User Defined Field 5 Description		
UDF6_CD	User Defined Field 6 Code		
UDF6_DESCR	User Defined Field 6 Description		
UDF7_CD	User Defined Field 7Code		
UDF7_DESCR	User Defined Field 7 Description		
UDF8_CD	User Defined Field 8 Code		
UDF8_DESCR	User Defined Field 8 Description		
UDF9_CD	User Defined Field 9 Code		
UDF9_DESCR	User Defined Field 9 Description		
UDF10_CD	User Defined Field 10 Code		
UDF10_DESCR	User Defined Field 10 Description		
<b>Data Load Attributes</b>			
UPDATE_DT_TM	Update Date/Time		
DATA_LOAD_DT_TM	Data Load Date/Time		This field is populated with the load timestamp value.

Target Field	Description	Source Field	Transformation Logic
DATA_SOURCE_IND	Data Source Indicator	CI_INSTALLATION.ENV_ID	This field is populated with the DSI value on the source product instance configuration. The table is populated as part of the initial setup and the DSI value is extracted from the environment ID of the source system.
JOB_NBR	Job Number		This field is populated with the ODI job execution session number.

## Early Logoff Time Dimension

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

### Properties

Property	Value
Target Table	CD_EARLY_LOGOFF_TM
Table Type	Dimension
SCD Type	Type 1
Source System Driver Table	F1_BKT_CONFIG
Stage Table	STG_CD_EARLY_LOGOFF_TM
ODI Package	B1_PKG_CD_EARLY_LOGOFF_TM
ETL View	B1_D_EARLY_LOGOFF_TM_VW

### Fields

Target Field	Description	Source Field	Transformation Logic
<b>Surrogate Key</b>			
EARLY_LOGOFF_TM_KEY	Early Logoff Time Dimension Surrogate Key		This field is populated from the OUBI_EARLY_LOGOFF_TM_SEQ sequence.

Target Field	Description	Source Field	Transformation Logic
<b>Natural Keys</b>			
START_RANGE	Early Logoff Time Start Range	F1_BKT_CONFIG_VAL.BKT_START_RANGE	<p>The field is populated with the bucket start range based on bucket configuration code.</p> <p>The bucket configuration code from the Bucket Configuration table is retrieved based on the bucket configuration BO defined for early logoff time.</p>
END_RANGE	Early Logoff Time End Range	F1_BKT_CONFIG_VAL.BKT_END_RANGE	<p>The field is populated with the bucket end range based on bucket configuration code.</p> <p>The bucket configuration code from the Bucket Configuration table is retrieved based on the bucket configuration BO defined for early log off time.</p>
<b>Attributes</b>			
EARLY_LOGOFF_TM_DESCR	Early Logoff Time Description	F1_BKT_CONFIG_VAL.L.DESCR	
CONSIDERED_ONTIME_CD	Considered On Time Code	F1_BKT_CONFIG_VAL.BKT_VAL_TYPE_CD	
CONSIDERED_ONTIME_DESCR	Considered On Time Description	CI_LOOKUP_VAL.L.DESCR_OVRD CI_LOOKUP_VAL.L.DESCR	<p>This field is populated with description from the Lookup Language table for the M1_CONSD_ON_TIME_FLG lookup field.</p> <p>If override description is not available, regular description is extracted.</p>
EARLY_LOGOFF_TM_CD	Early Logoff Time Code		<b>Note:</b> This field is obsolete and is not populated. The new bucket configurations based on the OUAF bucket configuration tables do not need this.
<b>User Defined Attributes</b>			
UDF1_CD	User Defined Field 1 Code		
UDF1_DESCR	User Defined Field 1 Description		
UDF2_CD	User Defined Field 2 Code		

<b>Target Field</b>	<b>Description</b>	<b>Source Field</b>	<b>Transformation Logic</b>
UDF2_DESCR	User Defined Field 2 Description		
UDF3_CD	User Defined Field 3 Code		
UDF3_DESCR	User Defined Field 3 Description		
UDF4_CD	User Defined Field 4 Code		
UDF4_DESCR	User Defined Field 4 Description		
UDF5_CD	User Defined Field 5 Code		
UDF5_DESCR	User Defined Field 5 Description		
UDF6_CD	User Defined Field 6 Code		
UDF6_DESCR	User Defined Field 6 Description		
UDF7_CD	User Defined Field 7Code		
UDF7_DESCR	User Defined Field 7 Description		
UDF8_CD	User Defined Field 8 Code		
UDF8_DESCR	User Defined Field 8 Description		
UDF9_CD	User Defined Field 9 Code		
UDF9_DESCR	User Defined Field 9 Description		
UDF10_CD	User Defined Field 10 Code		
UDF10_DESCR	User Defined Field 10 Description		
<b>Data Load Attributes</b>			
UPDATE_DTTM	Update Date/Time		
DATA_LOAD_DTTM	Data Load Date/Time		This field is populated with the load timestamp value.
DATA_SOURCE_IND	Data Source Indicator	CI_INSTALLATION.ENV _ID	This field is populated with the DSI value on the source product instance configuration. The table is populated as part of the initial setup and the DSI value is extracted from the environment ID of the source system.

Target Field	Description	Source Field	Transformation Logic
JOB_NBR	Job Number		This field is populated with the ODI job execution session number.

**Note:** This bucket dimension is configured as one time load only. For information about data reload, see **Reloading the Bucket Configuration** section in the *Oracle Utilities Analytics Administration Guide*.

## Late Logon Time Dimension

The Late Logon Time dimension stores the time ranges (in minutes) indicating by how much time the crew is late to logon for their shift.

### Properties

Property	Value
Target Table	CD_LATE_LOGON_TM
Table Type	Dimension
SCD Type	Type 1
Source System Driver Table	F1_BKT_CONFIG
Stage Table	STG_CD_LATE_LOGON_TM
ODI Package	B1_PKG_CD_LATE_LOGON_TM
ETL View	B1_D_LATE_LOGON_TM_VW

### Fields

Target Field	Description	Source Field	Transformation Logic
<b>Surrogate Key</b>			
LATE_LOGON_TM_KEY	Late Logon Time Dimension Surrogate Key		This field is populated from the OUBI_LATE_LOGON_TM_SEQ sequence.
<b>Natural Keys</b>			
START_RANGE	Late Logon Time Start Range	F1_BKT_CONFIG_VAL.BKT_START_RANGE	The field is populated with the bucket start range based on bucket configuration code.  The bucket configuration code from the Bucket Configuration table is retrieved based on the bucket configuration BO defined for late logon time.

Target Field	Description	Source Field	Transformation Logic
END_RANGE	Late Logon Time End Range	F1_BKT_CONFIG_VAL.BKT_END_RANGE	The field is populated with the bucket end range based on bucket configuration code.  The bucket configuration code from the Bucket Configuration table is retrieved based on the bucket configuration BO defined for late logon time.
<b>Attributes</b>			
LATE_LOGON_TM_DESCR	Late Logon Time Description	F1_BKT_CONFIG_VAL_L.DESCR	
CONSIDERED_ONTIME_CD	Considered On Time Code	F1_BKT_CONFIG_VAL.BKT_VAL_TYPE_CD	
CONSIDERED_ONTIME_DESCR	Considered On Time Description	CI_LOOKUP_VAL_L.DESCR_OVRD  CI_LOOKUP_VAL_L.DESCR	This field is populated with description from the Lookup Language table for the M1_CONSD_ON_TIME_FLG lookup field.  If override description is not available, regular description is extracted.
LATE_LOGON_TM_CD	Late Logon Time Code		<b>Note:</b> This field is obsolete now and is not populated. The new bucket configurations based on the OUAF bucket configuration tables do not need this.
<b>User Defined Attributes</b>			
UDF1_CD	User Defined Field 1 Code		
UDF1_DESCR	User Defined Field 1 Description		
UDF2_CD	User Defined Field 2 Code		
UDF2_DESCR	User Defined Field 2 Description		
UDF3_CD	User Defined Field 3 Code		
UDF3_DESCR	User Defined Field 3 Description		
UDF4_CD	User Defined Field 4 Code		
UDF4_DESCR	User Defined Field 4 Description		
UDF5_CD	User Defined Field 5 Code		



Target Field	Description	Source Field	Transformation Logic
UDF5_DESCR	User Defined Field 5 Description		
UDF6_CD	User Defined Field 6 Code		
UDF6_DESCR	User Defined Field 6 Description		
UDF7_CD	User Defined Field 7Code		
UDF7_DESCR	User Defined Field 7 Description		
UDF8_CD	User Defined Field 8 Code		
UDF8_DESCR	User Defined Field 8 Description		
UDF9_CD	User Defined Field 9 Code		
UDF9_DESCR	User Defined Field 9 Description		
UDF10_CD	User Defined Field 10 Code		
UDF10_DESCR	User Defined Field 10 Description		
<b>Data Load Attributes</b>			
UPDATE_DTTM	Update Date/Time		
DATA_LOAD_DTTM	Data Load Date/Time		This field is populated with the load timestamp value.
DATA_SOURCE_IND	Data Source Indicator	CI_INSTALLATION.ENV _ID	This field is populated with the DSI value on the source product instance configuration. The table is populated as part of the initial setup and the DSI value is extracted from the environment ID of the source system.
JOB_NBR	Job Number		This field is populated with the ODI job execution session number.

**Note:** This bucket dimension is configured as one time load only. For information about data reload, see **Reloading the Bucket Configuration** section in the *Oracle Utilities Analytics Administration Guide*.

## Response Time Deviation Dimension

The Response Time Deviation dimension stores the configurable ranges (in minutes) for the deviations in the response time of crews against the SLAs defined for various activities. It has an indicator to tell if the SLA is met or missed.

### Properties

Property	Value
Target Table	CD_RESP_TM_DEV
Table Type	Dimension
SCD Type	Type 1
Source System Driver Table	F1_BKT_CONFIG
Stage Table	STG_CD_RESP_TM_DEV
ODI Package	B1_PKG_CD_RESP_TM_DEV
ETL View	B1_D_RESP_TM_DEV_VW

### Fields

Target Field	Description	Source Field	Transformation Logic
<b>Surrogate Key</b>			
RESP_TM_DEV_KEY	Response Time Deviation Dimension Surrogate Key		This field is populated from the OUBI_RESP_TM_DEV_SEQ sequence.
<b>Natural Keys</b>			
START_RANGE	Response Time Deviation Start Range	F1_BKT_CONFIG_VAL.BKT_START_RANGE	The field is populated with the bucket start range based on bucket configuration code.  The bucket configuration code from the Bucket Configuration table is retrieved based on the bucket configuration BO defined for response time deviation.
END_RANGE	Response Time Deviation End Range	F1_BKT_CONFIG_VAL.BKT_END_RANGE	The field is populated with the bucket end range based on bucket configuration code.  The bucket configuration code from the Bucket Configuration table is retrieved based on the bucket configuration BO defined for response time deviation.

Target Field	Description	Source Field	Transformation Logic
<b>Attributes</b>			
RESP_TM_DEV_DESCR	Response Time Deviation Description	F1_BKT_CONFIG_VAL_L.DESCR	
SLA_STATUS_DESCR	SLA Status Description	CI_LOOKUP_VAL_L.DE SCR_OVRD  CI_LOOKUP_VAL_L.DE SCR	This field is populated with description from the Lookup Language table for the M1_SLA_STATUS_FLG lookup field.  If override description is not available, regular description is extracted.
SLA_STATUS_CD	SLA Status Code	F1_BKT_CONFIG_VAL.B KT_VAL_TYPE_CD	
RESP_TM_DEV_CD	Response Time Deviation Code		<b>Note:</b> This field is obsolete and is not populated. The new bucket configurations based on the OUAF bucket configuration tables do not need this.
<b>User Defined Attributes</b>			
UDF1_CD	User Defined Field 1 Code		
UDF1_DESCR	User Defined Field 1 Description		
UDF2_CD	User Defined Field 2 Code		
UDF2_DESCR	User Defined Field 2 Description		
UDF3_CD	User Defined Field 3 Code		
UDF3_DESCR	User Defined Field 3 Description		
UDF4_CD	User Defined Field 4 Code		
UDF4_DESCR	User Defined Field 4 Description		
UDF5_CD	User Defined Field 5 Code		
UDF5_DESCR	User Defined Field 5 Description		
UDF6_CD	User Defined Field 6 Code		
UDF6_DESCR	User Defined Field 6 Description		
UDF7_CD	User Defined Field 7Code		

Target Field	Description	Source Field	Transformation Logic
UDF7_DESCR	User Defined Field 7 Description		
UDF8_CD	User Defined Field 8 Code		
UDF8_DESCR	User Defined Field 8 Description		
UDF9_CD	User Defined Field 9 Code		
UDF9_DESCR	User Defined Field 9 Description		
UDF10_CD	User Defined Field 10 Code		
UDF10_DESCR	User Defined Field 10 Description		
<b>Data Load Attributes</b>			
UPDATE_DTTM	Update Date/Time		
DATA_LOAD_DTTM	Data Load Date/Time		This field is populated with the load timestamp value.
DATA_SOURCE_IND	Data Source Indicator	CI_INSTALLATION.ENV _ID	This field is populated with the DSI value on the source product instance configuration. The table is populated as part of the initial setup and the DSI value is extracted from the environment ID of the source system.
JOB_NBR	Job Number		This field is populated with the ODI job execution session number.

**Note:** This bucket dimension is configured as one time load only. For information about data reload, see **Reloading the Bucket Configuration** section in the *Oracle Utilities Analytics Administration Guide*.

## Shift BO Status Dimension

The Shift BO Status dimension holds valid combination of status and reason for shifts.

### Properties

Property	Value
Target Table	CD_SHIFT_BO_STATUS
Table Type	Dimension
SCD Type	Type 1

Source System Driver Table	F1_BUS_OBJ F1_BUS_OBJ_STATUS_RSN
Stage Table	STG_CD_SHIFT_BO_STATUS
ODI Package	B1_PKG_CD_SHIFT_BO_STATUS
ETL View	B1_D_SHIFT_BO_STATUS_VW

## Fields

Target Field	Description	Source Field	Transformation Logic
<b>Surrogate Key</b>			
SHIFT_BO_STATUS_KEY	Shift BO Status Surrogate Key		This field is populated from the OUBI_SHIFT_BO_STAT_SEQ sequence.
<b>Natural Keys</b>			
BUS_OBJ_CD	Business Object	F1_BUS_OBJ.BUS_OBJ_CD	This field extracts all business objects of the Crew Shift maintenance object only.
STATUS_CD	BO Status Code	F1_BUS_OBJ_STATUS.BO_STATUS_CD	
REASON_CD	Status Reason Code	F1_BUS_OBJ_STATUS_REASON.BO_STATUS_REASON_CD	
<b>Attributes</b>			
BUS_OBJ_DESCR	Business Object Description	F1_BUS_OBJ_L.DESCR	
STATUS_DESCR	Status Description	F1_BUS_OBJ_STATUS_L.DESCR	
STATUS_COND_CD	Status Condition Code	F1_BUS_OBJ_STATUS.BO_STATUS_COND_FLG	
STATUS_COND_DESCR	Status Condition Description	CI_LOOKUP_VAL_L.NVL(CI_LOOKUP_VAL_L.DESCR_OVRD,CI_LOOKUP_VAL_L.DESCR)	This field is populated with description from the Lookup Language table for the BO_STATUS_COND_FLG lookup field.  If override description is not available, regular description is extracted.
REASON_DESCR	Status Reason Description	F1_BUS_OBJ_STATUS_REASON_L.DESCR	
<b>User Defined Attributes</b>			
UDF1_CD	User Defined Field 1 Code		

<b>Target Field</b>	<b>Description</b>	<b>Source Field</b>	<b>Transformation Logic</b>
UDF1_DESCR	User Defined Field 1 Description		
UDF2_CD	User Defined Field 2 Code		
UDF2_DESCR	User Defined Field 2 Description		
UDF3_CD	User Defined Field 3 Code		
UDF3_DESCR	User Defined Field 3 Description		
UDF4_CD	User Defined Field 4 Code		
UDF4_DESCR	User Defined Field 4 Description		
UDF5_CD	User Defined Field 5 Code		
UDF5_DESCR	User Defined Field 5 Description		
UDF6_CD	User Defined Field 6 Code		
UDF6_DESCR	User Defined Field 6 Description		
UDF7_CD	User Defined Field 7Code		
UDF7_DESCR	User Defined Field 7 Description		
UDF8_CD	User Defined Field 8 Code		
UDF8_DESCR	User Defined Field 8 Description		
UDF9_CD	User Defined Field 9 Code		
UDF9_DESCR	User Defined Field 9 Description		
UDF10_CD	User Defined Field 10 Code		
UDF10_DESCR	User Defined Field 10 Description		
<b>Data Load Attributes</b>			
UPDATE_DTTM	Update Date/Time		
DATA_LOAD_DTTM	Data Load Date/Time		This field is populated with the load timestamp value.

Target Field	Description	Source Field	Transformation Logic
DATA_SOURCE_IND	Data Source Indicator	CI_INSTALLATION.ENV_ID	This field is populated with the DSI value on the source product instance configuration. The table is populated as part of the initial setup and the DSI value is extracted from the environment ID of the source system.
JOB_NBR	Job Number		This field is populated with the ODI job execution session number.

## Task BO Status Dimension

The Task BO Status dimension holds all valid combination of status and reasons for schedulable tasks.

### Properties

Property	Value
Target Table	CD_TASK_BO_STATUS
Table Type	Dimension
SCD Type	Type 1
Source System Driver Table	F1_BUS_OBJ F1_BUS_OBJ_STATUS_RSN
Stage Table	STG_CD_TASK_BO_STATUS
ODI Package	B1_PKG_CD_TASK_BO_STATUS
ETL View	B1_D_TASK_BO_STATUS_VW

### Fields

Target Field	Description	Source Field	Transformation Logic
<b>Surrogate Key</b>			
TASK_BO_STATUS_KEY	Task BO Status Surrogate Key		This field is populated from the OUBI_TASK_BO_STAT_SEQ sequence.
<b>Natural Keys</b>			
BUS_OBJ_CD	Business Object	F1_BUS_OBJ.BUS_OBJ_CD	This field extracts all business objects of the Device Event maintenance object only.

Target Field	Description	Source Field	Transformation Logic
STATUS_CD	BO Status Code	F1_BUS_OBJ_STATUS.B O_STATUS_CD	
REASON_CD	Status Reason Code	F1_BUS_OBJ_STATUS_R SN.BO_STATUS_REASO N_CD	
<b>Attributes</b>			
BUS_OBJ_DESCR	Business Object Description	F1_BUS_OBJ_L.DESCR	
STATUS_DESCR	Status Description	F1_BUS_OBJ_STATUS_L. DESCR	
STATUS_COND_CD	Status Condition Code	F1_BUS_OBJ_STATUS.B O_STATUS_COND_FLG	
STATUS_COND_DESCR	Status Condition Description	CI_LOOKUP_VAL_L.NV L(CI_LOOKUP_VAL_L.D ESCR_OVRD,CI_LOOKU P_VAL_L.DESCR)	This field is populated with description from the Lookup Language table for the BO_STATUS_COND_FLG lookup field.  If override description is not available, regular description is extracted.
REASON_DESCR	Status Reason Description	F1_BUS_OBJ_STATUS_R SN_L.DESCR	
INCOMPLETE_IND	Incomplete Indicator	F1_BUS_OBJ_STATUS_O PT.BO_OPT_VAL	This field is populated based on the state condition defined on the business object status.  If the status is 'Postponed', or 'Completed' with 'Incomplete' status reason, the indicator is populated as '1', else '0'.
<b>User Defined Attributes</b>			
UDF1_CD	User Defined Field 1 Code		
UDF1_DESCR	User Defined Field 1 Description		
UDF2_CD	User Defined Field 2 Code		
UDF2_DESCR	User Defined Field 2 Description		
UDF3_CD	User Defined Field 3 Code		
UDF3_DESCR	User Defined Field 3 Description		
UDF4_CD	User Defined Field 4 Code		



<b>Target Field</b>	<b>Description</b>	<b>Source Field</b>	<b>Transformation Logic</b>
UDF4_DESCR	User Defined Field 4 Description		
UDF5_CD	User Defined Field 5 Code		
UDF5_DESCR	User Defined Field 5 Description		
UDF6_CD	User Defined Field 6 Code		
UDF6_DESCR	User Defined Field 6 Description		
UDF7_CD	User Defined Field 7Code		
UDF7_DESCR	User Defined Field 7 Description		
UDF8_CD	User Defined Field 8 Code		
UDF8_DESCR	User Defined Field 8 Description		
UDF9_CD	User Defined Field 9 Code		
UDF9_DESCR	User Defined Field 9 Description		
UDF10_CD	User Defined Field 10 Code		
UDF10_DESCR	User Defined Field 10 Description		
<b>Data Load Attributes</b>			
UPDATE_DTTM	Update Date/Time		
DATA_LOAD_DTTM	Data Load Date/Time		This field is populated with the load timestamp value.
DATA_SOURCE_IND	Data Source Indicator	CI_INSTALLATION.ENV _ID	This field is populated with the DSI value on the source product instance configuration. The table is populated as part of the initial setup and the DSI value is extracted from the environment ID of the source system.
JOB_NBR	Job Number		This field is populated with the ODI job execution session number.

## Task Type Dimension

The Task Type dimension holds all task types defined in the Oracle Utilities Extractors and Schema for Oracle Utilities Mobile Workforce Management system along with their class, priority, service type, and SLA details.

### Properties

Property	Value
Target Table	CD_TASK_TYPE
Table Type	Dimension
SCD Type	Type 1
Source System Driver Table	M1_TASK_TYPE
Stage Table	STG_CD_TASK_TYPE
ODI Package	B1_PKG_CD_TASK_TYPE
ETL View	B1_D_TASK_TYPE_VW

### Fields

Target Field	Description	Source Field	Transformation Logic
<b>Surrogate Key</b>			
TASK_TYPE_KEY	Task Type Dimension Surrogate Key		This field is populated from the OUBL_TASK_TYPE_SEQ sequence.
<b>Natural Keys</b>			
TASK_TYPE_CD	Activity Type Code	M1_TASK_TYPE.TASK_TYPE_CD	
<b>Attributes</b>			
TASK_TYPE_DESCR	Task Type Description	M1_TASK_TYPE.L.DESCR	
TASK_CLASS_CD	Task Class Code	M1_TASK_TYPE.TASK_CLS_FLG	
PRIORITY_PROF_CD	Priority Profile Code	M1_TASK_TYPE.PRI_PROF_CD	
SVC_CATEGORY_CD	Service Category Code	M1_TASK_TYPE.BO_DATA_AREA	This field is populated with the service category code from the CLOB column.

Target Field	Description	Source Field	Transformation Logic
TASK_CLASS_DESCR	Task Class Description	CI_LOOKUP_VAL_L.DESCR_OVRD  CI_LOOKUP_VAL_L.DESCR	This field is populated with description from the Lookup Language table for the TASK_CLS_FLG lookup field.  If override description is not available, regular description is extracted.
PRIORITY_PROF_DESCR	Priority Profile Description	M1_PRI_PROF_L.DESCR	
SVC_CATEGORY_DESCR	Service Category Description	F1_EXT_LOOKUP_VAL_L.DESCR_OVRD  F1_EXT_LOOKUP_VAL_L.DESCR	This field is populated with description from the Lookup Language table for the M1-ServiceCategoryLookup lookup business object.  If override description is not available, regular description is extracted.
RESP_TM_SLA	Response Time SLA	M1_TASK_TYPE.BO_DATA_AREA	This field is populated with the response time SLA from the CLOB column.
<b>User Defined Attributes</b>			
UDF1_CD	User Defined Field 1 Code		
UDF1_DESCR	User Defined Field 1 Description		
UDF2_CD	User Defined Field 2 Code		
UDF2_DESCR	User Defined Field 2 Description		
UDF3_CD	User Defined Field 3 Code		
UDF3_DESCR	User Defined Field 3 Description		
UDF4_CD	User Defined Field 4 Code		
UDF4_DESCR	User Defined Field 4 Description		
UDF5_CD	User Defined Field 5 Code		
UDF5_DESCR	User Defined Field 5 Description		
UDF6_CD	User Defined Field 6 Code		
UDF6_DESCR	User Defined Field 6 Description		
UDF7_CD	User Defined Field 7Code		

Target Field	Description	Source Field	Transformation Logic
UDF7_DESCR	User Defined Field 7 Description		
UDF8_CD	User Defined Field 8 Code		
UDF8_DESCR	User Defined Field 8 Description		
UDF9_CD	User Defined Field 9 Code		
UDF9_DESCR	User Defined Field 9 Description		
UDF10_CD	User Defined Field 10 Code		
UDF10_DESCR	User Defined Field 10 Description		
<b>Data Load Attributes</b>			
UPDATE_DTTM	Update Date/Time		
DATA_LOAD_DTTM	Data Load Date/Time		This field is populated with the load timestamp value.
DATA_SOURCE_IND	Data Source Indicator	CI_INSTALLATION.ENV _ID	This field is populated with the DSI value on the source product instance configuration. The table is populated as part of the initial setup and the DSI value is extracted from the environment ID of the source system.
JOB_NBR	Job Number		This field is populated with the ODI job execution session number.

## Travel Distance Deviation Dimension

The Travel Distance Deviation dimension stores the percentage ranges for deviations of actual distance relative to estimated distance traveled by the crew.

### Properties

Property	Value
Target Table	CD_TRAVEL_DIST_DEV
Table Type	Dimension
SCD Type	Type 1
Source System Driver Table	F1_BKT_CONFIG
Stage Table	STG_CD_TRAVEL_DIST_DEV

ODI Package	B1_PKG_CD_TRAVEL_DIST_DEV
ETL View	B1_D_TRAVEL_DIST_DEV_VW

## Fields

Target Field	Description	Source Field	Transformation Logic
<b>Surrogate Key</b>			
TRAVEL_DIST_DEV_KEY	Travel Distance Deviation Dimension Surrogate Key		This field is populated from the OUBI_TRAVEL_DIST_DEV_SEQ sequence.
<b>Natural Keys</b>			
START_RANGE	Travel Distance Deviation Start Range	F1_BKT_CONFIG_VAL.BKT_START_RANGE	This field is populated with the bucket start range based on bucket configuration code.  The bucket configuration code from the Bucket Configuration table is retrieved based on the bucket configuration BO defined for travel distance deviation.
END_RANGE	Travel Distance Deviation End Range	F1_BKT_CONFIG_VAL.BKT_END_RANGE	This field is populated with the bucket end range based on bucket configuration code.  The bucket configuration code from the Bucket Configuration table is retrieved based on the bucket configuration BO defined for travel distance deviation.
<b>Attributes</b>			
TRAVEL_DIST_DEV_DESCRIPTION	Travel Distance Deviation Description	F1_BKT_CONFIG_VAL.L.DESCR	
TRAVEL_DIST_DEV_CD	Distance Deviation Code		<b>Note:</b> This field is obsolete and is not populated. The new bucket configurations based on the OUAF bucket configuration tables do not need this.
<b>User Defined Attributes</b>			
UDF1_CD	User Defined Field 1 Code		
UDF1_DESCR	User Defined Field 1 Description		
UDF2_CD	User Defined Field 2 Code		

Target Field	Description	Source Field	Transformation Logic
UDF2_DESCR	User Defined Field 2 Description		
UDF3_CD	User Defined Field 3 Code		
UDF3_DESCR	User Defined Field 3 Description		
UDF4_CD	User Defined Field 4 Code		
UDF4_DESCR	User Defined Field 4 Description		
UDF5_CD	User Defined Field 5 Code		
UDF5_DESCR	User Defined Field 5 Description		
UDF6_CD	User Defined Field 6 Code		
UDF6_DESCR	User Defined Field 6 Description		
UDF7_CD	User Defined Field 7Code		
UDF7_DESCR	User Defined Field 7 Description		
UDF8_CD	User Defined Field 8 Code		
UDF8_DESCR	User Defined Field 8 Description		
UDF9_CD	User Defined Field 9 Code		
UDF9_DESCR	User Defined Field 9 Description		
UDF10_CD	User Defined Field 10 Code		
UDF10_DESCR	User Defined Field 10 Description		
<b>Data Load Attributes</b>			
UPDATE_DTTM	Update Date/Time		
DATA_LOAD_DTTM	Data Load Date/Time		This field is populated with the load timestamp value.
DATA_SOURCE_IND	Data Source Indicator	CI_INSTALLATION.ENV _ID	This field is populated with the DSI value on the source product instance configuration. The table is populated as part of the initial setup and the DSI value is extracted from the environment ID of the source system.

Target Field	Description	Source Field	Transformation Logic
JOB_NBR	Job Number		This field is populated with the ODI job execution session number.

**Note:** This bucket dimension is configured as one time load only. For information about data reload, see **Reloading the Bucket Configuration** section in the *Oracle Utilities Analytics Administration Guide*.

## Travel Duration Deviation Dimension

The Travel Duration Deviation dimension stores the percentage ranges for deviations of actual travel duration relative to estimated travel duration of crews.

### Properties

Property	Value
Target Table	CD_TRAVEL_DUR_DEV
Table Type	Dimension
SCD Type	Type 1
Source System Driver Table	F1_BKT_CONFIG
Stage Table	STG_CD_TRAVEL_DUR_DEV
ODI Package	B1_PKG_CD_TRAVEL_DUR_DEV
ETL View	B1_D_TRAVEL_DUR_DEV_VW

### Fields

Target Field	Description	Source Field	Transformation Logic
<b>Surrogate Key</b>			
TRAVEL_DUR_DEV_KEY	Travel Duration Deviation Dimension Surrogate Key		This field is populated from the OUBI_TRAVEL_DUR_DEV_SEQ sequence.
<b>Natural Keys</b>			
START_RANGE	Travel Duration Deviation Start Range	F1_BKT_CONFIG_VAL.BKT_START_RANGE	This field is populated with the bucket start range based on bucket configuration code.  The bucket configuration code from the Bucket Configuration table is retrieved based on the bucket configuration BO defined for travel duration deviation.

Target Field	Description	Source Field	Transformation Logic
END_RANGE	Travel Duration Deviation End Range	F1_BKT_CONFIG_VAL.B KT_END_RANGE	The field is populated with the bucket end range based on bucket configuration code.  The bucket configuration code from the Bucket Configuration table is retrieved based on the bucket configuration BO defined for travel duration deviation.
<b>Attributes</b>			
TRAVEL_DUR_DEV_ DESCR	Travel Duration Deviation	F1_BKT_CONFIG_VAL_ L.DESCR	
TRAVEL_DUR_DEV_CD	Travel Duration Deviation Code		<b>Note:</b> This field is obsolete and will not be populated. The new bucket configurations based on the OUAF bucket configuration tables do not need this.
<b>User Defined Attributes</b>			
UDF1_CD	User Defined Field 1 Code		
UDF1_DESCR	User Defined Field 1 Description		
UDF2_CD	User Defined Field 2 Code		
UDF2_DESCR	User Defined Field 2 Description		
UDF3_CD	User Defined Field 3 Code		
UDF3_DESCR	User Defined Field 3 Description		
UDF4_CD	User Defined Field 4 Code		
UDF4_DESCR	User Defined Field 4 Description		
UDF5_CD	User Defined Field 5 Code		
UDF5_DESCR	User Defined Field 5 Description		
UDF6_CD	User Defined Field 6 Code		
UDF6_DESCR	User Defined Field 6 Description		
UDF7_CD	User Defined Field 7Code		
UDF7_DESCR	User Defined Field 7 Description		



Target Field	Description	Source Field	Transformation Logic
UDF8_CD	User Defined Field 8 Code		
UDF8_DESCR	User Defined Field 8 Description		
UDF9_CD	User Defined Field 9 Code		
UDF9_DESCR	User Defined Field 9 Description		
UDF10_CD	User Defined Field 10 Code		
UDF10_DESCR	User Defined Field 10 Description		
<b>Data Load Attributes</b>			
UPDATE_DTTM	Update Date/Time		
DATA_LOAD_DTTM	Data Load Date/Time		This field is populated with the load timestamp value.
DATA_SOURCE_IND	Data Source Indicator	CI_INSTALLATION.ENV_ID	This field is populated with the DSI value on the source product instance configuration. The table is populated as part of the initial setup and the DSI value is extracted from the environment ID of the source system.
JOB_NBR	Job Number		This field is populated with the ODI job execution session number.

**Note:** This bucket dimension is configured as one time load only. For information about data reload, see the **Reloading the Bucket Configuration** section in the *Oracle Utilities Analytics Administration Guide*.

## Work Duration Deviation Dimension

The Work Duration Deviation dimension stores the percentage ranges for deviations in actual work duration relative to estimated work duration of activities.

### Properties

Property	Value
Target Table	CD_WORK_DUR_DEV
Table Type	Dimension
SCD Type	Type 1
Source System Driver Table	F1_BKT_CONFIG
Stage Table	STG_CD_WORK_DUR_DEV

ODI Package	B1_PKG_CD_WORK_DUR_DEV
ETL View	B1_D_WORK_DUR_DEV_VW

## Fields

Target Field	Description	Source Field	Transformation Logic
<b>Surrogate Key</b>			
WORK_DUR_DEV_KEY	Work Duration Deviation Dimension Surrogate Key		This field is populated from the OUBI_WORK_DUR_DEV_SEQ sequence.
<b>Natural Keys</b>			
START_RANGE	Work Duration Deviation Start Range	F1_BKT_CONFIG_VAL.B KT_START_RANGE	This field is populated with the bucket start range based on bucket configuration code.  The bucket configuration code from the Bucket Configuration table is retrieved based on the bucket configuration BO defined for work duration deviation.
END_RANGE	Work Duration Deviation End Range	F1_BKT_CONFIG_VAL.B KT_END_RANGE	The field is populated with the bucket end range based on bucket configuration code.  The bucket configuration code from the Bucket Configuration table is retrieved based on the bucket configuration BO defined for work duration deviation.
<b>Attributes</b>			
WORK_DUR_DEV_DESCR	Work Duration Deviation Description	F1_BKT_CONFIG_VAL_ L.DESCR	
WORK_DUR_DEV_CD	Work Duration Deviation Code		<b>Note:</b> This field is obsolete and is not populated. The new bucket configurations based on the OUAF bucket configuration tables do not need this.
<b>User Defined Attributes</b>			
UDF1_CD	User Defined Field 1 Code		
UDF1_DESCR	User Defined Field 1 Description		
UDF2_CD	User Defined Field 2 Code		

Target Field	Description	Source Field	Transformation Logic
UDF2_DESCR	User Defined Field 2 Description		
UDF3_CD	User Defined Field 3 Code		
UDF3_DESCR	User Defined Field 3 Description		
UDF4_CD	User Defined Field 4 Code		
UDF4_DESCR	User Defined Field 4 Description		
UDF5_CD	User Defined Field 5 Code		
UDF5_DESCR	User Defined Field 5 Description		
UDF6_CD	User Defined Field 6 Code		
UDF6_DESCR	User Defined Field 6 Description		
UDF7_CD	User Defined Field 7Code		
UDF7_DESCR	User Defined Field 7 Description		
UDF8_CD	User Defined Field 8 Code		
UDF8_DESCR	User Defined Field 8 Description		
UDF9_CD	User Defined Field 9 Code		
UDF9_DESCR	User Defined Field 9 Description		
UDF10_CD	User Defined Field 10 Code		
UDF10_DESCR	User Defined Field 10 Description		
<b>Data Load Attributes</b>			
UPDATE_DTTM	Update Date/Time		
DATA_LOAD_DTTM	Data Load Date/Time		This field is populated with the load timestamp value.
DATA_SOURCE_IND	Data Source Indicator	CI_INSTALLATION.ENV _ID	This field is populated with the DSI value on the source product instance configuration. The table is populated as part of the initial setup and the DSI value is extracted from the environment ID of the source system.

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Target Field	Description	Source Field	Transformation Logic
JOB_NBR	Job Number		This field is populated with the ODI job execution session number.

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**Note:** This bucket dimension is configured as one time load only. For information about data reload, see the **Reloading the Bucket Configuration** section in *Oracle Utilities Analytics Administration Guide*.

## Shared Dimensions

The dimensions that are used in the star schemas of other source products as well are called the **shared** dimensions. The other products also populate these shared dimensions with their data. The data source indicator (DSI) column plays a vital role in identifying the records belonging to a specific source product.

### Account Dimension

Though Account dimension is referenced in the Oracle Utilities Mobile Workforce Management facts, it is populated only by the Oracle Utilities Customer Care and Billing source product. The ETL processes of the Oracle Utilities Mobile Workforce Management facts map this dimension based on the integration between Oracle Utilities Mobile Workforce Management and Oracle Utilities Customer Care and Billing.

Since this dimension is not populated by Oracle Utilities Mobile Workforce Management, the source mapping details are not provided in the document. See the *Oracle Utilities Extractors and Schema for Oracle Utilities Customer Care and Billing* for the mapping details.

### Address Dimension

The Address dimension includes a record for every address (such as location, task, POU, and resources) defined in the Oracle Utilities Mobile Workforce Management system.

This dimension is also populated by Oracle Utilities Operational Device Management, Oracle Utilities Meter Data Management, Oracle Utilities Customer Care and Billing, Oracle Utilities Network Management System, and Oracle Utilities Work and Asset Management.

#### Properties

Property	Value
Target Table	CD_ADDR
Table Type	Dimension
SCD Type	Type 2
Source System Driver Table	M1_TASK_ADDR M1_LOCATION M1_POU M1_RESRC
Stage Table	STG_CD_ADDR
ODI Package	B1_PKG_CD_ADDR
ETL View	B1_D_ADDR_VW

#### Fields

##### Source 1 - Task Address (M1\_TASK\_ADDR)

Target Field	Description	Source Field	Transformation Logic
<b>Surrogate Key</b>			
ADDR_KEY	Address Dimension Surrogate Key		This field is populated from the SPL_ADDR_SEQ sequence.

Target Field	Description	Source Field	Transformation Logic
<b>Natural Keys</b>			
SRC_ADDR_ID	Premise ID	M1_TASK_ADDR.ADDR ESS1	This natural key is the concatenation of all address attributes, in uppercase.
		M1_TASK_ADDR.ADDR ESS2	
		M1_TASK_ADDR.ADDR ESS3	
		M1_TASK_ADDR.ADDR ESS4	
		M1_TASK_ADDR.CROSS _STREET	
		M1_TASK_ADDR.SUBUR B	
		M1_TASK_ADDR.CITY	
		M1_TASK_ADDR.COUN TY	
		M1_TASK_ADDR.STATE	
M1_TASK_ADDR.POSTA L			
M1_TASK_ADDR.COUN TRY			
<b>Attributes</b>			
ADDR_LINE1	Address Line 1	M1_TASK_ADDR.ADDR ESS1	
ADDR_LINE2	Address Line 2	M1_TASK_ADDR.ADDR ESS2	
ADDR_LINE3	Address Line 3	M1_TASK_ADDR.ADDR ESS3	
ADDR_LINE4	Address Line 4	M1_TASK_ADDR.ADDR ESS4	
ADDR_INFO	Address Information	M1_TASK_ADDR.ADDR ESS1	This field is populated from the Task Address table based on the concatenation of the address, city, state, and postal code.
		M1_TASK_ADDR.CITY	
		M1_TASK_ADDR.STATE	
		M1_TASK_ADDR.POSTA L	

<b>Target Field</b>	<b>Description</b>	<b>Source Field</b>	<b>Transformation Logic</b>
CITY	City	M1_TASK_ADDR.UPPER (CITY)	
COUNTY	County	M1_TASK_ADDR.COUN TY	
POSTAL	Postal Code	M1_TASK_ADDR.POSTA L	
STATE_DESCR	State Description	CI_STATE_L.DESCR	
COUNTRY_DESCR	Country Description	CI_COUNTRY_L.DESCR	
CROSS_STREET	Cross Street	M1_TASK_ADDR.CROSS _STREET	
SUBURB	Suburb	M1_TASK_ADDR.SUBUR B	
STATE_CD	State Code	M1_TASK_ADDR.STATE	
COUNTRY_CD	Country Code	M1_TASK_ADDR.COUN TRY	
GEO_CODE	Geographical Code		
<b>User Defined Attributes</b>			
UDF1_CD	City Code	M1_TASK_ADDR.UPPER (CITY)	
UDF1_DESCR	City Description	M1_TASK_ADDR.UPPER (CITY)	
UDF2_CD	County Code	M1_TASK_ADDR.COUN TY	
UDF2_DESCR	County Description	M1_TASK_ADDR.COUN TY	
UDF3_CD	Postal Code	M1_TASK_ADDR.POSTA L	
UDF3_DESCR	Postal Code	M1_TASK_ADDR.POSTA L	
UDF4_CD	State Code	M1_TASK_ADDR.STATE	
UDF4_DESCR	State Description	CI_STATE_L.DESCR	
UDF5_CD	Country Code	M1_TASK_ADDR.COUN TRY	
UDF5_DESCR	Country Description	CI_COUNTRY_L.DESCR	
UDF6_CD	Geo Code Value		
UDF6_DESCR	Geo Code		
UDF7_CD	Premise Char 1 Code		
UDF7_DESCR	Premise Char 1		

Target Field	Description	Source Field	Transformation Logic
UDF8_CD	Premise Char 2 Code		
UDF8_DESCR	Premise Char 2		
UDF9_CD	Premise Char 3 Code		
UDF9_DESCR	Premise Char 3		
UDF10_CD	Premise Char 4 Code		
UDF10_DESCR	Premise Char 4 Code		
UDF11_CD	User Defined Field 11 Code		
UDF11_DESCR	User Defined Field 11 Description		
UDF12_CD	User Defined Field 12 Code		
UDF12_DESCR	User Defined Field 12 Description		
UDF13_CD	User Defined Field 13 Code		
UDF13_DESCR	User Defined Field 13 Description		
UDF14_CD	User Defined Field 14 Code		
UDF14_DESCR	User Defined Field 14 Description		
UDF15_CD	User Defined Field 15 Code		
UDF15_DESCR	User Defined Field 15 Description		
UDF16_CD	User Defined Field 16 Code		
UDF16_DESCR	User Defined Field 16 Description		
<b>Data Load Attributes</b>			
EFF_END_DTTM	Effective End Date/Time		
EFF_START_DTTM	Effective Start Date/Time		
DATA_LOAD_DTTM	Data Load Date/Time		This field is populated with the load timestamp value.
DATA_SOURCE_IND	Data Source Indicator	CI_INSTALLATION.ENV _ID	This field is populated with the DSI value on the source product instance configuration. The table is populated as part of the initial setup and the DSI value is extracted from the environment ID of the source system.



Target Field	Description	Source Field	Transformation Logic
JOB_NBR	Job Number		This field is populated with the ODI job execution session number.

### Source 2 - Location (M1\_LOCATION)

Target Field	Description	Source Field	Transformation Logic
<b>Surrogate Key</b>			
ADDR_KEY	Address Dimension Surrogate Key		This field is populated from the SPL_ADDR_SEQ sequence.

### Natural Keys

SRC_ADDR_ID	Premise ID	M1_LOCATION.ADDRESS1	This natural key is the concatenation of all address attributes, in uppercase.
		M1_LOCATION.ADDRESS2	
		M1_LOCATION.ADDRESS3	
		M1_LOCATION.ADDRESS4	
		M1_LOCATION.CROSS-STREET	
		M1_LOCATION.SUBURB	
		M1_LOCATION.CITY	
		M1_LOCATION.COUNTY	
		M1_LOCATION.STATE	
		M1_LOCATION.POSTAL	
		M1_LOCATION.COUNTY	

### Attributes

ADDR_LINE1	Address Line 1	M1_LOCATION.ADDRESS1
ADDR_LINE2	Address Line 2	M1_LOCATION.ADDRESS2
ADDR_LINE3	Address Line 3	M1_LOCATION.ADDRESS3

Target Field	Description	Source Field	Transformation Logic
ADDR_LINE4	Address Line 4	M1_LOCATION.ADDRESS4	
ADDR_INFO	Address Information	M1_LOCATION.ADDRESS1 M1_LOCATION.CITY M1_LOCATION.STATE M1_LOCATION.POSTAL	This field is populated from the Location table based on the concatenation of the address, city, state, and postal code.
CITY	City	M1_LOCATION.UPPER(CITY)	
COUNTY	County	M1_LOCATION.COUNTY	
POSTAL	Postal Code	M1_LOCATION.POSTAL	
STATE_DESCR	State Description	CL_STATE_L.DESCR	
COUNTRY_DESCR	Country Description	CL_COUNTRY_L.DESCR	
CROSS_STREET	Cross Street	M1_LOCATION.CROSS_STREET	
SUBURB	Suburb	M1_LOCATION.SUBURB	
STATE_CD	State Code	M1_LOCATION.STATE	
COUNTRY_CD	Country Code	M1_LOCATION.COUNTRY	
GEO_CODE	Geographical Code		
<b>User Defined Attributes</b>			
UDF1_CD	City Code	M1_LOCATION.UPPER(CITY)	
UDF1_DESCR	City Description	M1_LOCATION.UPPER(CITY)	
UDF2_CD	County Code	M1_LOCATION.COUNTY	
UDF2_DESCR	County Description	M1_LOCATION.COUNTY	
UDF3_CD	Postal Code	M1_LOCATION.POSTAL	
UDF3_DESCR	Postal Code	M1_LOCATION.POSTAL	
UDF4_CD	State Code	M1_LOCATION.STATE	
UDF4_DESCR	State Description	CL_STATE_L.DESCR	
UDF5_CD	Country Code	M1_LOCATION.COUNTRY	

<b>Target Field</b>	<b>Description</b>	<b>Source Field</b>	<b>Transformation Logic</b>
UDF5_DESCR	Country Description	CI_COUNTRY_L.DESCR	
UDF6_CD	Geo Code Value		
UDF6_DESCR	Geo Code		
UDF7_CD	Premise Char 1 Code		
UDF7_DESCR	Premise Char 1		
UDF8_CD	Premise Char 2 Code		
UDF8_DESCR	Premise Char 2		
UDF9_CD	Premise Char 3 Code		
UDF9_DESCR	Premise Char 3		
UDF10_CD	Premise Char 4 Code		
UDF10_DESCR	Premise Char 4 Code		
UDF11_CD	User Defined Field 11 Code		
UDF11_DESCR	User Defined Field 11 Description		
UDF12_CD	User Defined Field 12 Code		
UDF12_DESCR	User Defined Field 12 Description		
UDF13_CD	User Defined Field 13 Code		
UDF13_DESCR	User Defined Field 13 Description		
UDF14_CD	User Defined Field 14 Code		
UDF14_DESCR	User Defined Field 14 Description		
UDF15_CD	User Defined Field 15 Code		
UDF15_DESCR	User Defined Field 15 Description		
UDF16_CD	User Defined Field 16 Code		
UDF16_DESCR	User Defined Field 16 Description		
<b>Data Load Attributes</b>			
EFF_END_DTTM	Effective End Date/Time		
EFF_START_DTTM	Effective Start Date/Time		
DATA_LOAD_DTTM	Data Load Date/Time		This field is populated with the load timestamp value.

Target Field	Description	Source Field	Transformation Logic
DATA_SOURCE_IND	Data Source Indicator	CI_INSTALLATION.ENV_ID	This field is populated with the DSI value on the source product instance configuration. The table is populated as part of the initial setup and the DSI value is extracted from the environment ID of the source system.
JOB_NBR	Job Number		This field is populated with the ODI job execution session number.

### Source 3 - POU (M1\_POU)

Target Field	Description	Source Field	Transformation Logic
<b>Surrogate Key</b>			
ADDR_KEY	Address Dimension Surrogate Key		This field is populated from the SPL_ADDR_SEQ sequence.
<b>Natural Keys</b>			
SRC_ADDR_ID	Premise ID	M1_POU.ADDRESS1 M1_POU.ADDRESS2 M1_POU.ADDRESS3 M1_POU.ADDRESS4 M1_POU.CROSS_STREET M1_POU.SUBURB M1_POU.CITY M1_POU.COUNTY M1_POU.STATE M1_POU.POSTAL M1_POU.COUNTRY	This natural key is the concatenation of all address attributes, in uppercase.
<b>Attributes</b>			
ADDR_LINE1	Address Line 1	M1_POU.ADDRESS1	
ADDR_LINE2	Address Line 2	M1_POU.ADDRESS2	
ADDR_LINE3	Address Line 3	M1_POU.ADDRESS3	

Target Field	Description	Source Field	Transformation Logic
ADDR_LINE4	Address Line 4	M1_POU.ADDRESS4	
ADDR_INFO	Address Information	M1_POU.ADDRESS1 M1_POU.CITY M1_POU.STATE M1_POU.POSTAL	This field is populated from the POU table based on the concatenation of the address, city, state, and postal code.
CITY	City	M1_POU.UPPER(CITY)	
COUNTY	County	M1_POU.COUNTY	
POSTAL	Postal Code	M1_POU.POSTAL	
STATE_DESCR	State Description	CI_STATE_L.DESCR	
COUNTRY_DESCR	Country Description	CI_COUNTRY_L.DESCR	
CROSS_STREET	Cross Street	M1_POU.CROSS_STREET	
SUBURB	Suburb	M1_POU.SUBURB	
STATE_CD	State Code	M1_POU.STATE	
COUNTRY_CD	Country Code	M1_POU.COUNTRY	
GEO_CODE	Geographical Code		
<b>User Defined Attributes</b>			
UDF1_CD	City Code	M1_POU.UPPER(CITY)	
UDF1_DESCR	City Description	M1_POU.UPPER(CITY)	
UDF2_CD	County Code	M1_POU.COUNTY	
UDF2_DESCR	County Description	M1_POU.COUNTY	
UDF3_CD	Postal Code	M1_POU.POSTAL	
UDF3_DESCR	Postal Code Description	M1_POU.POSTAL	
UDF4_CD	State Code	M1_POU.STATE	
UDF4_DESCR	State Description	CI_STATE_L.DESCR	
UDF5_CD	Country Code	M1_POU.COUNTRY	
UDF5_DESCR	Country Description	CI_COUNTRY_L.DESCR	
UDF6_CD	Geo Code Value		
UDF6_DESCR	Geo Code		
UDF7_CD	Premise Char 1 Code		
UDF7_DESCR	Premise Char 1		
UDF8_CD	Premise Char 2 Code		

Target Field	Description	Source Field	Transformation Logic
UDF8_DESCR	Premise Char 2		
UDF9_CD	Premise Char 3 Code		
UDF9_DESCR	Premise Char 3		
UDF10_CD	Premise Char 4 Code		
UDF10_DESCR	Premise Char 4 Code		
UDF11_CD	User Defined Field 11 Code		
UDF11_DESCR	User Defined Field 11 Description		
UDF12_CD	User Defined Field 12 Code		
UDF12_DESCR	User Defined Field 12 Description		
UDF13_CD	User Defined Field 13 Code		
UDF13_DESCR	User Defined Field 13 Description		
UDF14_CD	User Defined Field 14 Code		
UDF14_DESCR	User Defined Field 14 Description		
UDF15_CD	User Defined Field 15 Code		
UDF15_DESCR	User Defined Field 15 Description		
UDF16_CD	User Defined Field 16 Code		
UDF16_DESCR	User Defined Field 16 Description		
<b>Data Load Attributes</b>			
EFF_END_DTTM	Effective End Date/Time		
EFF_START_DTTM	Effective Start Date/Time		
DATA_LOAD_DTTM	Data Load Date/Time		This field is populated with the load timestamp value.
DATA_SOURCE_IND	Data Source Indicator	CI_INSTALLATION.ENV_ID	This field is populated with the DSI value on the source product instance configuration. The table is populated as part of the initial setup and the DSI value is extracted from the environment ID of the source system.
JOB_NBR	Job Number		This field is populated with the ODI job execution session number.

## Source 4 - Resource (M1\_RESRC)

Target Field	Description	Source Field	Transformation Logic
<b>Surrogate Key</b>			
ADDR_KEY	Address Dimension Surrogate Key		This field is populated from the SPL_ADDR_SEQ sequence.
<b>Natural Keys</b>			
SRC_ADDR_ID	Premise ID	M1_RESRC.BO_DATA_A REA	This natural key is the concatenation of all address attributes, in uppercase.
<b>Attributes</b>			
ADDR_LINE1	Address Line 1	M1_RESRC.BO_DATA_A REA	
ADDR_LINE2	Address Line 2	M1_RESRC.BO_DATA_A REA	
ADDR_LINE3	Address Line 3	M1_RESRC.BO_DATA_A REA	
ADDR_LINE4	Address Line 4	M1_RESRC.BO_DATA_A REA	
ADDR_INFO	Address Information	M1_RESRC.BO_DATA_A REA	This field is populated from the Task Address table based on the concatenation of the address, city, state, and postal code.
CITY	City	M1_RESRC.BO_DATA_A REA	
COUNTY	County	M1_RESRC.BO_DATA_A REA	
POSTAL	Postal Code	M1_RESRC.BO_DATA_A REA	
STATE_DESCR	State Description	CI_STATE_L.DESCR	
COUNTRY_DESCR	Country Description	CI_COUNTRY_L.DESCR	
CROSS_STREET	Cross Street	M1_RESRC.BO_DATA_A REA	
SUBURB	Suburb	M1_RESRC.BO_DATA_A REA	
STATE_CD	State Code	M1_RESRC.BO_DATA_A REA	
COUNTRY_CD	Country Code	M1_RESRC.BO_DATA_A REA	
GEO_CODE	Geographical Code		

Target Field	Description	Source Field	Transformation Logic
<b>User Defined Attributes</b>			
UDF1_CD	City Code	M1_RESRC.BO_DATA_A REA	
UDF1_DESCR	City Description	M1_RESRC.BO_DATA_A REA	
UDF2_CD	County Code	M1_RESRC.BO_DATA_A REA	
UDF2_DESCR	County Description	M1_RESRC.BO_DATA_A REA	
UDF3_CD	Postal Code	M1_RESRC.BO_DATA_A REA	
UDF3_DESCR	Postal Code Description	M1_RESRC.BO_DATA_A REA	
UDF4_CD	State Code	M1_RESRC.BO_DATA_A REA	
UDF4_DESCR	State Description	CI_COUNTRY_L.DESCR	
UDF5_CD	Country Code	M1_POU.COUNTRY	
UDF5_DESCR	Country Description	CI_COUNTRY_L.DESCR	
UDF6_CD	Geo Code Value		
UDF6_DESCR	Geo Code Description		
UDF7_CD	Premise Char 1 Code		
UDF7_DESCR	Premise Char 1 Description		
UDF8_CD	Premise Char 2 Code		
UDF8_DESCR	Premise Char 2 Description		
UDF9_CD	Premise Char 3 Code		
UDF9_DESCR	Premise Char 3 Description		
UDF10_CD	Premise Char 4 Code		
UDF10_DESCR	Premise Char 4 Description		
UDF11_CD	User Defined Field 11 Code		
UDF11_DESCR	User Defined Field 11 Description		
UDF12_CD	User Defined Field 12 Code		
UDF12_DESCR	User Defined Field 12 Description		
UDF13_CD	User Defined Field 13 Code		
UDF13_DESCR	User Defined Field 13 Description		



Target Field	Description	Source Field	Transformation Logic
UDF14_CD	User Defined Field 14 Code		
UDF14_DESCR	User Defined Field 14 Description		
UDF15_CD	User Defined Field 15 Code		
UDF15_DESCR	User Defined Field 15 Description		
UDF16_CD	User Defined Field 16 Code		
UDF16_DESCR	User Defined Field 16 Description		
<b>Data Load Attributes</b>			
EFF_END_DTTM	Effective End Date/Time		
EFF_START_DTTM	Effective Start Date/Time		
DATA_LOAD_DTTM	Data Load Date/Time		This field is populated with the load timestamp value.
DATA_SOURCE_IND	Data Source Indicator	CI_INSTALLATION.ENV_ID	This field is populated with the DSI value on the source product instance configuration. The table is populated as part of the initial setup and the DSI value is extracted from the environment ID of the source system.
JOB_NBR	Job Number		This field is populated with the ODI job execution session number.

## Crew Dimension

The Crew dimension includes the details of all crews defined in the source system up to three levels of crew hierarchy.

This dimension is also populated by Oracle Utilities Network Management System.

### Properties

Property	Value
Target Table	CD_CREW
Table Type	Dimension
SCD Type	Type 2
Source System Driver Table	M1_RESRC M1_RESRC_TYPE M1_HIERARCHY

Stage Table	STG_CD_CREW
ODI Package	B1_PKG_CD_CREW
ETL View	B1_D_CREW_VW

### Fields

Target Field	Description	Source Field	Transformation Logic
<b>Surrogate Key</b>			
CREW_KEY	Crew Dimension Surrogate Key		This field is populated from the SPL_CREW_SEQ sequence.
<b>Natural Keys</b>			
SRC_CREW_ID	Crew ID	M1_RESRC.RESRC_ID	
<b>Attributes</b>			
CREW_DESCR	Crew Description	M1_RESRC_ID.RESRC_ID_VAL	
CREW_TYPE_DESCR	Crew Type Description	M1_RESRC_TYPE_L.DESCR	
CREW_CD	Crew Code		<b>Note:</b> This field is populated only for the Oracle Utilities Network Management System source product.
CREW_TYPE_CD	Crew Type Code	M1_RESRC.RESRC_TYPE_CD	
ORG_UNIT1_CD	Crew Hierarchy-1 Code	M1_HIER_UPSTREAM.M1_PARENT_HIER_CD	<p>This field is populated from the Hierarchy Upstream table based on the hierarchy and hierarchy level.</p> <p><b>Note:</b> The hierarchy is based on the reporting hierarchy stored on the crew's characteristic (where characteristic type is Crew Hierarchy 'M1CRHIER') and for which the hierarchy level is Level 1 ('M101').</p>

Target Field	Description	Source Field	Transformation Logic
ORG_UNIT2_CD	Crew Hierarchy-2 Code	M1_HIER_UPSTREAM.M 1_PARENT_HIER_CD	<p>This field is populated from the Hierarchy Upstream table based on the hierarchy and hierarchy level.</p> <p><b>Note:</b> The hierarchy is based on the reporting hierarchy stored on the crew's characteristic (where characteristic type is Crew Hierarchy 'M1CRHIER') and for which the hierarchy level is Level 1 ('M102').</p>
ORG_UNIT3_CD	Crew Hierarchy-3 Code	M1_HIER_UPSTREAM.M 1_PARENT_HIER_CD	<p>This field is populated from the Hierarchy Upstream table based on the hierarchy and hierarchy level.</p> <p><b>Note:</b> The hierarchy is based on the reporting hierarchy stored on the crew's characteristic (where characteristic type is Crew Hierarchy 'M1CRHIER') and for which the hierarchy level is Level 1 ('M103').</p>
ORG_UNIT1_DESCR	Crew Hierarchy-1 Description	M1_HIERARCHY_L.DES CR	<p>This field is populated from the hierarchy description based on the parent hierarchy code and language configured.</p> <p><b>Note:</b> To retrieve the parent hierarchy code, see the transformation logic of the ORG_UNIT1_CD column.</p>
ORG_UNIT2_DESCR	Crew Hierarchy-2 Description	M1_HIERARCHY_L.DES CR	<p>This field is populated from the hierarchy description based on the parent hierarchy code and language configured.</p> <p><b>Note:</b> To retrieve the parent hierarchy code, see the transformation logic of the ORG_UNIT2_CD column.</p>

Target Field	Description	Source Field	Transformation Logic
ORG_UNIT3_DESCR	Crew Hierarchy-3 Description	M1_HIERARCHY_L.DES CR	This field is populated from the hierarchy description based on the parent hierarchy code and language configured.  <b>Note:</b> To retrieve the parent hierarchy code, see the transformation logic of the ORG_UNIT3_CD column.

### User Defined Attributes

UDF1_CD	User Defined Field 1 Code
UDF1_DESCR	User Defined Field 1 Description
UDF2_CD	User Defined Field 2 Code
UDF2_DESCR	User Defined Field 2 Description
UDF3_CD	User Defined Field 3 Code
UDF3_DESCR	User Defined Field 3 Description
UDF4_CD	User Defined Field 4 Code
UDF4_DESCR	User Defined Field 4 Description
UDF5_CD	User Defined Field 5 Code
UDF5_DESCR	User Defined Field 5 Description
UDF6_CD	User Defined Field 6 Code
UDF6_DESCR	User Defined Field 6 Description
UDF7_CD	User Defined Field 7Code
UDF7_DESCR	User Defined Field 7 Description
UDF8_CD	User Defined Field 8 Code
UDF8_DESCR	User Defined Field 8 Description
UDF9_CD	User Defined Field 9 Code
UDF9_DESCR	User Defined Field 9 Description
UDF10_CD	User Defined Field 10 Code
UDF10_DESCR	User Defined Field 10 Description

Target Field	Description	Source Field	Transformation Logic
<b>Data Load Attributes</b>			
EFF_END_DTTM	Effective End Date/Time		
EFF_START_DTTM	Effective Start Date/Time		
DATA_LOAD_DTTM	Data Load Date/Time		This field is populated with the load timestamp value.
DATA_SOURCE_IND	Data Source Indicator	CI_INSTALLATION.ENV_ID	This field is populated with the DSI value on the source product instance configuration. The table is populated as part of the initial setup and the DSI value is extracted from the environment ID of the source system.
JOB_NBR	Job Number		This field is populated with the ODI job execution session number.

## Contact Dimension

Though Contact dimension is referenced in the Oracle Utilities Mobile Workforce Management facts, it is populated only by the Oracle Utilities Meter Data Management source product. The ETL processes of the Oracle Utilities Mobile Workforce Management facts map this dimension based on the integration between Oracle Utilities Mobile Workforce Management and Oracle Utilities Meter Data Management.

Since this dimension is not populated by Oracle Utilities Mobile Workforce Management, the source mapping details are not provided in the document. See the *Oracle Utilities Extractors and Schema for Oracle Utilities Meter Data Management Data Mapping Guide* for the mapping details.

## Device Dimension

Though Device dimension is referenced in the Oracle Utilities Mobile Workforce Management facts, it is populated only by the Oracle Utilities Meter Data Management source product. The ETL processes of the Oracle Utilities Mobile Workforce Management facts map this dimension based on the integration between Oracle Utilities Mobile Workforce Management and Oracle Utilities Meter Data Management.

Since this dimension is not populated by Oracle Utilities Mobile Workforce Management, the source mapping details are not provided in the document. See the *Oracle Utilities Extractors and Schema for Oracle Utilities Meter Data Management Data Mapping Guide* for the mapping details.

## Person Dimension

Though Person dimension is referenced in the Oracle Utilities Meter Data Management facts, it is populated only by the Oracle Utilities Customer Care and Billing source product. The ETL processes of the Oracle Utilities Meter Data Management facts map this dimension based on the integration between Oracle Utilities Meter Data Management and Oracle Utilities Customer Care and Billing.

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Since this dimension is not populated by Oracle Utilities Meter Data Management, the source mapping details are not provided in the document. See the *Oracle Utilities Extractors and Schema for Oracle Utilities Customer Care and Billing Data Mapping Guide* for the mapping details.

## Premise Dimension

Though Premise dimension is referenced in the Oracle Utilities Meter Data Management facts, it is populated only by the Oracle Utilities Customer Care and Billing source product. The ETL processes of the Oracle Utilities Meter Data Management facts map this dimension based on the integration between Oracle Utilities Meter Data Management and Oracle Utilities Customer Care and Billing.

Since this dimension is not populated by Oracle Utilities Meter Data Management, the source mapping details are not provided in the document. See the *Oracle Utilities Extractors and Schema for Oracle Utilities Customer Care and Billing Data Mapping Guide* for the mapping details.

## Service Agreement Dimension

Though Service Agreement dimension is referenced in the Oracle Utilities Meter Data Management facts, it is populated only by the Oracle Utilities Customer Care and Billing source product. The ETL processes of the Oracle Utilities Meter Data Management facts map this dimension based on the integration between Oracle Utilities Meter Data Management and Oracle Utilities Customer Care and Billing.

Since this dimension is not populated by Oracle Utilities Meter Data Management, the source mapping details are not provided in the document. See the *Oracle Utilities Extractors and Schema for Oracle Utilities Customer Care and Billing Data Mapping Guide* for the mapping details.

## Service Point Dimension

Though Service Point dimension is referenced in the Oracle Utilities Mobile Workforce Management facts, it is populated only by the Oracle Utilities Meter Data Management source product. The ETL processes of the Oracle Utilities Mobile Workforce Management facts map this dimension based on the integration between Oracle Utilities Mobile Workforce Management and Oracle Utilities Meter Data Management.

Since this dimension is not populated by Oracle Utilities Mobile Workforce Management, the source mapping details are not provided in the document. See the *Oracle Utilities Extractors and Schema for Oracle Utilities Meter Data Management Data Mapping Guide* for the mapping details.

## Usage Subscription Dimension

Though Usage Subscription dimension is referenced in the Oracle Utilities Mobile Workforce Management facts, it is populated only by the Oracle Utilities Meter Data Management source product. The ETL processes of the Oracle Utilities Mobile Workforce Management facts map this dimension based on the integration between Oracle Utilities Mobile Workforce Management and Oracle Utilities Meter Data Management.

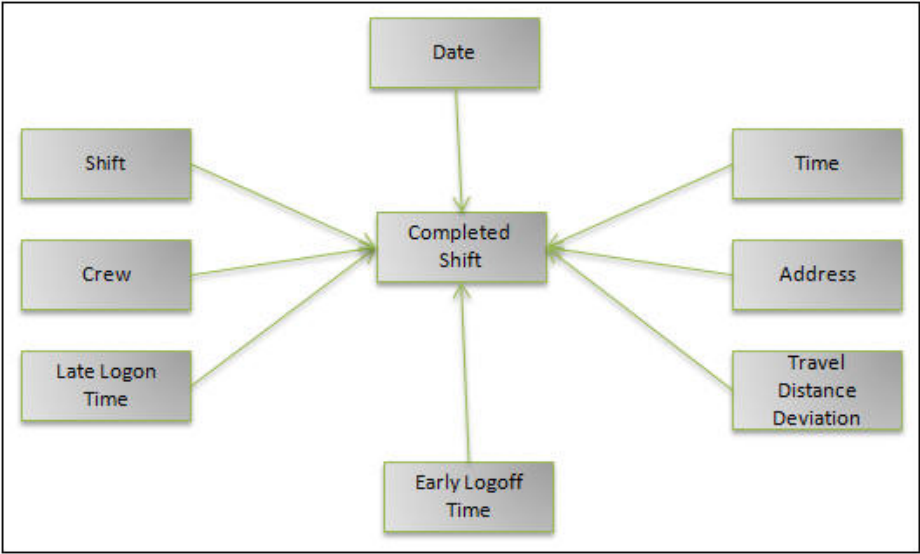
Since this dimension is not populated by Oracle Utilities Mobile Workforce Management, the source mapping details are not provided in the document. See the *Oracle Utilities Extractors and Schema for Oracle Utilities Meter Data Management Data Mapping Guide* for the mapping details.

# Facts

## Completed Shift Fact

The Completed Shift fact holds the details of all completed shifts from the Oracle Utilities Mobile Workforce Management system that show the number of crews late to logon and by how much they deviated from the planned time, the number of crews early to logoff and by how much they deviated from the planned time, how much time the crew work overtime, and what are the deviations in estimated travel mileage versus actual mileage. This fact is populated based on completed, real shifts.

### Entity Relationship Diagram



### Properties

Property	Value
Target Table Name	CF_CMP_SHIFT
Table Type	Fact
Fact Type	Accumulation
Source System Driver Table	M1_CREW_SHIFT M1_RESRC M1_TASK M1_LOCATION
Stage Table Name	STG_CF_CMP_SHIFT
ODI Package Name	B1_PKG_CF_CMP_SHIFT
ETL View Name	B1_F_CMP_SHIFT_VW
Materialized View Name	B1_CMP_SHIFT_MON_MV1

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**Fields**


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Target Field	Description	Source Field	Transformation Logic
<b>Surrogate Key</b>			
CMP_SHIFT_KEY	Completed Shift Surrogate Key		This field is populated from the OUBL_CMP_SHIFT_SEQ sequence.
<b>Natural Keys</b>			
SRC_SHIFT_ID	Shift ID	M1_CREW_SHFT.CREW_SHFT_ID	
<b>Measures</b>			
PLANNED_DUR	Planned Duration (Seconds)	M1_CREW_SHFT.(PLAN_START_DTTM - M1_CREW_SHFT.PLAN_END_DTTM)	This field is populated with the planned duration of the shift. It is the difference between the planned start date time and end date time (in seconds).
ACTUAL_DUR	Actual Duration (Seconds)	M1_CREW_SHFT.BUS_STATUS_DTTM - M1_CREW_SHFT.LOG.LOG_DTTM	<p>This field is populated with the actual duration of the shift. It is populated with the difference (in seconds) between the actual start date time and actual completion date time.</p> <p>Depending on the crew shift, the regular logs or the mobile logs are used.</p>
OVERTIME_DUR	Overtime Duration (Seconds)	M1_CREW_SHFT.ACTUAL_DUR  M1_CREW_SHFT.PLANNED_DUR	<p>This field is populated if the shift went overtime. It is calculated from the difference between the actual duration and planned duration (in seconds).</p> <p>If the difference is greater than 0, overtime duration is populated.</p>
EST_DISTANCE	Estimated Distance	M1_TASK.BO_DATA_AR EA	This field is the total of all estimated mileage of all tasks performed by the crew on the shift.

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Target Field	Description	Source Field	Transformation Logic
EST_TOT_MILEAGE	Estimated Total Mileage for Vehicles	M1_TASK.RESRC_ID  M1_RESRC.BO_DATA_A REA	This field is the total of estimated mileage of all tasks performed by the crew taking into consideration the resources allocated to the shift. It is populated with the sum of estimated travel distance for all tasks of the shift multiplied by the number of vehicles allocated to the shift.
ACT_TOT_MILEAGE	Actual Total Mileage for Vehicles	M1_CREW_SHFT_RESRC .BO_DATA_AREA	This field is populated by the actual total mileage of all vehicles allocated to the shift. It is populated based on the odometer readings at the start and end of the shift.
VEHICLE_CNT	Number of Vehicles	M1_RESRC.RESRC_ID	This field is populated with the total number of vehicles allocated to the shift. It is retrieved from resources where resource class is Vehicle ('M1VH').
FACT_CNT	Count		This field is populated with the standard value of '1'.
<b>Degenerate Dimensions</b>			
SHIFT_PLANNED_ START_DTTM	Shift Planned Start Date/ Time	M1_CREW_SHFT.PLAN_ START_DTTM	This field is populated with the plan start date time associated with the crew shift.
<b>Foreign Keys</b>			
CREW_SHIFT_KEY	Shift Dimension Surrogate Key	M1_CREW_SHFT.CREW_ SHFT_ID	This field is populated from the Crew Shift dimension based on the crew shift ID associated with the crew.
CREW_KEY	Crew Dimension Surrogate Key	M1_CREW_SHFT.RESRC _ID	This field is populated from the Crew dimension based on the resource ID associated with the crew shift.
LATE_LOGON_TM_KEY	Late Logon Time Dimension Surrogate Key	M1_CREW_SHFT_LOG.L OG_DTTM - M1_CREW_SHFT.PLAN_ START_DTTM	This field is populated based on the late logon time calculated as the difference (in minutes) between the shift's actual start date/time and planned start date/time.  Depending on the crew shift, the regular logs or the mobile logs would be used.

Target Field	Description	Source Field	Transformation Logic
EARLY_LOGOFF_TM_KEY	Early Logoff Time Dimension Surrogate Key	M1_CREW_SHFT.PLAN_END_DTTM - M1_CREW_SHFT.BUS_STATUS_DTTM	This field is populated based on the early logoff time calculated as the difference (in minutes) between the shift's actual end date/ time and planned end date/ time.
TRAVEL_DIST_DEV_KEY	Travel Distance Deviation Dimension Surrogate Key		This field is calculated based on the percentage of deviation between actual total mileage and estimated total mileage calculated earlier in the fact.
LOGON_ADDR_KEY	Logon Address Dimension Surrogate Key	M1_LOCATION/ M1_RESRC.ADDRESS1  M1_LOCATION/ M1_RESRC.ADDRESS2  M1_LOCATION/ M1_RESRC.ADDRESS3  M1_LOCATION/ M1_RESRC.ADDRESS4  M1_LOCATION/ M1_RESRC.CROSS_STRT  M1_LOCATION/ M1_RESRC.SUBURB  M1_LOCATION/ M1_RESRC.CITY  M1_LOCATION/ M1_RESRC.COUNTY  M1_LOCATION/ M1_RESRC.STATE  M1_LOCATION/ M1_RESRC.POSTAL  M1_LOCATION/ M1_RESRC.COUNTRY  M1_LOCATION/ M1_RESRC.BO_DATA_A REA	This field is populated based on the logon location entered on the shift.  If there is no logon location specified, but the logon location type is Home, the field is populated based on the home address of the first mobile worker allocated to the shift.

Target Field	Description	Source Field	Transformation Logic
LOGOFF_ADDR_KEY	Logoff Address Dimension Surrogate Key	M1_LOCATION/ M1_RESRC.ADDRESS1	This field is populated based on the logoff location entered on the shift.
		M1_LOCATION/ M1_RESRC.ADDRESS2	If there is no logoff location specified, but the logoff location type is Home, the field is populated based on the home address of the first mobile worker allocated to the shift.
		M1_LOCATION/ M1_RESRC.ADDRESS3	
		M1_LOCATION/ M1_RESRC.ADDRESS4	
		M1_LOCATION/ M1_RESRC.CROSS_STRT	
		M1_LOCATION/ M1_RESRC.SUBURB	
		M1_LOCATION/ M1_RESRC.CITY	
		M1_LOCATION/ M1_RESRC.COUNTY	
		M1_LOCATION/ M1_RESRC.STATE	
		M1_LOCATION/ M1_RESRC.POSTAL	
M1_LOCATION/ M1_RESRC.COUNTRY			
M1_LOCATION/ M1_RESRC.BO_DATA_A REA			
SHIFT_PLANNED_ START_DATE_KEY	Shift Planned Start Date Key	M1_CREW_SHFT.PLAN_ START_DTTM	This field is populated from the Crew Shift table based on the planned start date associated with the crew shift.
SHIFT_PLANNED_ START_TIME_KEY	Shift Planned Start Time Key	M1_CREW_SHFT.PLAN_ START_DTTM	This field is populated from the Crew Shift table based on the planned start time associated with the crew shift.
CMP_SHIFT_UDD1_KEY	Completed Shift User Defined Dimension 1 Key		
CMP_SHIFT_UDD2_KEY	Completed Shift User Defined Dimension 2 Key		
<b>User Defined Attributes</b>			
UDM1	User Defined Measure 1		

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

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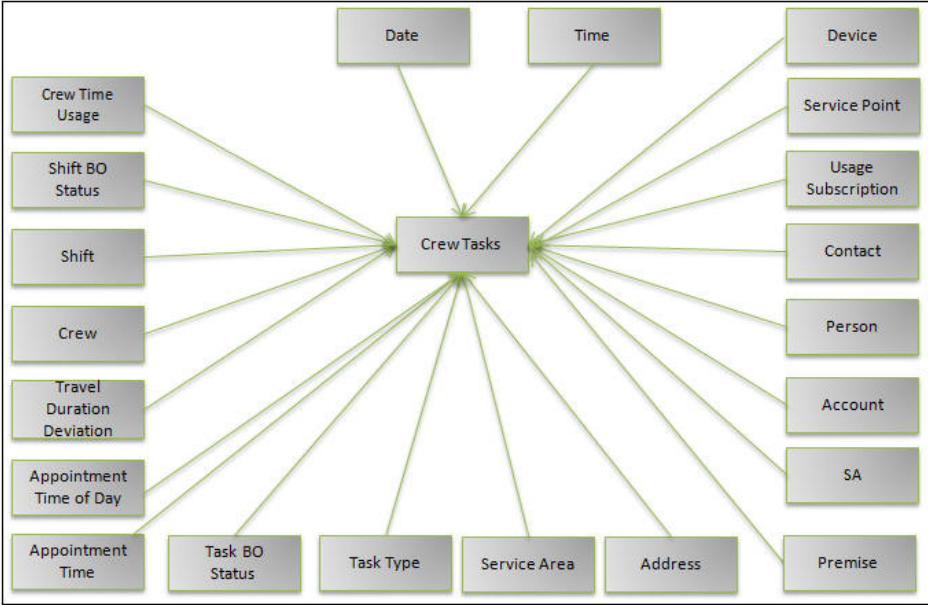
Target Field	Description	Source Field	Transformation Logic
<b>Data Load Attributes</b>			
DATA_SOURCE_IND	Data Source Indicator	CI_INSTALLATION.ENV_ID	This field is populated with the DSI value on the source product instance configuration. This table is populated as part of the initial setup and the DSI value is extracted from the environment ID of the source system.
JOB_NBR	Job Number		This field is populated with the ODI job execution session number.

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# Crew Task Fact

The Crew Tasks fact has measures that show how much time the crews spend on productive versus non-productive tasks; how much time crews spend working on each task, as well as time spent in and out of services; how many times a crew makes or misses appointments, and if missed, by how much; and how many times crews arrive at an activity, but fail to complete it.

## Entity Relationship Diagram



## Properties

Property	Value
Target Table Name	CF_CREW_TASK
Table Type	Fact
Fact Type	Accumulation
Source System Driver Table	M1_CREW_SHFT M1_TASK M1_LOCATION M1_POU
Stage Table Name	STG_CF_CREW_TASK
ODI Package Name	B1_PKG_CF_CREW_TASK
ETL View Name	B1_F_CREW_TASK_VW
Materialized View Name	B1_CREW_TASKS_MON_MV1

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**Fields**

Target Field	Description	Source Field	Transformation Logic
<b>Surrogate Key</b>			
CREW_TASK_KEY	Crew Task Surrogate Key		This field is populated from the OUBI_CREW_TASK_SEQ sequence.
<b>Natural Keys</b>			
SRC_SHIFT_ID	Shift ID	M1_CREW_SHFT.CREW_SHFT_ID	
SRC_TASK_ID	Activity ID	M1_TASK.TASK_ID	
SRC_SHIFT_LOG_SEQ	Shift Log Sequence	M1_CREW_SHFT_LOG.SEQNO	Depending on the crew shift, the regular logs or mobile logs are used.
SRC_TASK_LOG_SEQ	Task Log Sequence	M1_TASK_LOG.SEQNO	Depending on the crew shift, the regular logs or mobile logs are used.
<b>Measures</b>			
PREV_STATE_DUR	Time in Previous State		This field is populated with the time spent (in seconds) in the previous state based on the log date/times.
EST_TRAVEL_DUR	Estimated	M1_TASK.BO_DATA_AREA	This field is populated with the estimated travel duration from CLOB in the source Task table.
FACT_CNT	Count		This field is populated with the standard value of '1'.
<b>Degenerate Dimensions</b>			
APPOINTMENT_IND	Appointment Indicator	M1_TASK.APPOINTMENT_FLG	This field is populated based on the appointment flag from the Task table. If the appointment flag is 'Y', the appointment indicator is populated with '1'. Else, with '0'.
EMERGENCY_IND	Emergency Indicator	M1_TASK.QUEUE_FLG	This field is populated based on the queue flag from the source Task table. If the queue flag is 'M1ER', the emergency indicator is populated with '1'. Else, with '0'.

Target Field	Description	Source Field	Transformation Logic
FROM_DTTM	From Date/Time	M1_CREW_SHFT_LOG.LOG_DTTM  M1_TASK_LOG.LOG_DTTM	
TO_DTTM	To Date/Time	M1_CREW_SHFT_LOG.LOG_DTTM  M1_TASK_LOG.LOG_DTTM	
<b>Foreign Keys</b>			
CREW_TM_USG_KEY	Crew Time Usage Dimension Surrogate Key		This field is populated based on the task class and crew shift status or task status.
FROM_SHIFT_BO_STATUS_KEY	From Shift BO Status Dimension Surrogate Key	M1_CREW_SHFT.BUS_OBJ_CD  M1_CREW_SHFT_LOG.BO_STATUS_CD  M1_CREW_SHFT_LOG.BO_STATUS_REASON_CD	This field is populated based on shift status from the log entries.
TO_SHIFT_BO_STATUS_KEY	To Shift BO Status Dimension Surrogate Key	M1_CREW_SHFT.BUS_OBJ_CD  M1_CREW_SHFT_LOG.BO_STATUS_CD  M1_CREW_SHFT_LOG.BO_STATUS_REASON_CD	This field is populated based on shift status from the log entries.
CREW_SHIFT_KEY	Shift Dimension Surrogate Key	M1_CREW_SHFT.CREW_SHIFT_ID	This field is populated from the Crew Shift dimension based on the crew shift ID.
CREW_KEY	Crew Dimension Surrogate Key	M1_CREW_SHFT.RESRC_ID	This field is populated from the Crew dimension based on the resource ID associated with the crew shift.
TRAVEL_DUR_DEV_KEY	Travel Duration Deviation Dimension Surrogate Key		This field is calculated based on the percentage of deviation between actual travel duration based on the log date/times and the estimated travel duration.



Target Field	Description	Source Field	Transformation Logic
APPT_TM_KEY	Appointment Time Dimension Surrogate Key		This field is populated based on the difference between task time window start and end date/time associated with the task ID.
APPT_TM_OF_DAY_KEY	Appointment Time of Day Dimension Surrogate Key		This field is populated based on the task time window start date/time associated with the task ID.
FROM_TASK_BO_STATUS_KEY	From Task BO Status Dimension Surrogate Key	M1_TASK.BUS_OBJ_CD  M1_TASK_LOG.BO_STATUS_CD  M1_TASK_LOG.BO_STATUS_REASON_CD	This field is populated based on the task status from log entries.
TO_TASK_BO_STATUS_KEY	To Task BO Status Dimension Surrogate Key	M1_TASK.BUS_OBJ_CD  M1_TASK_LOG.BO_STATUS_CD  M1_TASK_LOG.BO_STATUS_REASON_CD	This field is populated based on the task status from log entries.
TASK_TYPE_KEY	Task Type Dimension Surrogate Key	M1_TASK.TASK_TYPE_CD	This field is populated based on the task type code associated with the task ID.
SERVICE_AREA_KEY	Service Area Dimension Surrogate Key	M1_TASK.SVC_AREA_CD	This field is populated based on the task type code associated with the task ID.
ADDR_KEY	Address Dimension Surrogate Key		This field is populated based on the address constituents associated with the task.  Based on the task class, the address constituents are fetched either from the task, location, depot, or period of unavailability entity.
FROM_DATE_KEY	From Date Dimension Surrogate Key	M1_CREW_SHFT_LOG.LOG_DT  M1_TASK_LOG.LOG_DT	This field is populated based on the log date from shift log or task log.
TO_DATE_KEY	To Date Dimension Surrogate Key	M1_CREW_SHFT_LOG.LOG_DT  M1_TASK_LOG.LOG_DT	This field is populated based on the log date from shift log or task log.

Target Field	Description	Source Field	Transformation Logic
FROM_TIME_KEY	From Time Dimension Surrogate Key	M1_CREW_SHFT_LOG.L OG_DTTM  M1_TASK_LOG.LOG_D TTM	This field is populated based on the log date from shift log or task log.
TO_TIME_KEY	To Time Dimension Surrogate Key	M1_CREW_SHFT_LOG.L OG_DTTM  M1_TASK_LOG.LOG_D TTM	This field is populated based on the log date from shift log or task log.
MTR_DEVICE_KEY	Device Dimension Surrogate Key	M1_TASK.BO_DATA_AR EA	This field is populated based on the external identifier value for the meter device stored on the task as part of MWM-MDM integration.
SP_KEY	Service Point Dimension Surrogate Key	M1_TASK.BO_DATA_AR EA	This field is populated based on the service point ID stored on the task as part of MWM-MDM integration.
US_KEY	Usage Subscription Dimension Surrogate Key	M1_TASK.BO_DATA_AR EA	This field is populated based on the usage subscription ID stored on the task as part of MWM-MDM integration.
CONTACT_KEY	Contact Dimension Surrogate Key	M1_TASK.BO_DATA_AR EA	This field is populated based on the contact ID stored on the task as part of MWM-MDM integration.
PER_KEY	Person Dimension Surrogate Key	M1_TASK.BO_DATA_AR EA	This field is populated based on the person ID stored on task as part of MWM-CCB integration.
ACCT_KEY	Account Dimension Surrogate Key	M1_TASK.BO_DATA_AR EA	This field is populated based on the account ID stored on task as part of MWM-CCB integration.
SA_KEY	Service Agreement Dimension Surrogate Key	M1_TASK.BO_DATA_AR EA	This field is populated based on the service agreement ID stored on task as part of MWM-CCB integration.
PREM_KEY	Premise Dimension Surrogate Key	M1_TASK.BO_DATA_AR EA	This field is populated based on the premise ID stored on task as part of MWM-CCB integration.
CREW_TASK_UDD1_KEY	Crew Task User Defined Dimension 1 Key		
CREW_TASK_UDD2_KEY	Crew Task User Defined Dimension 2 Key		

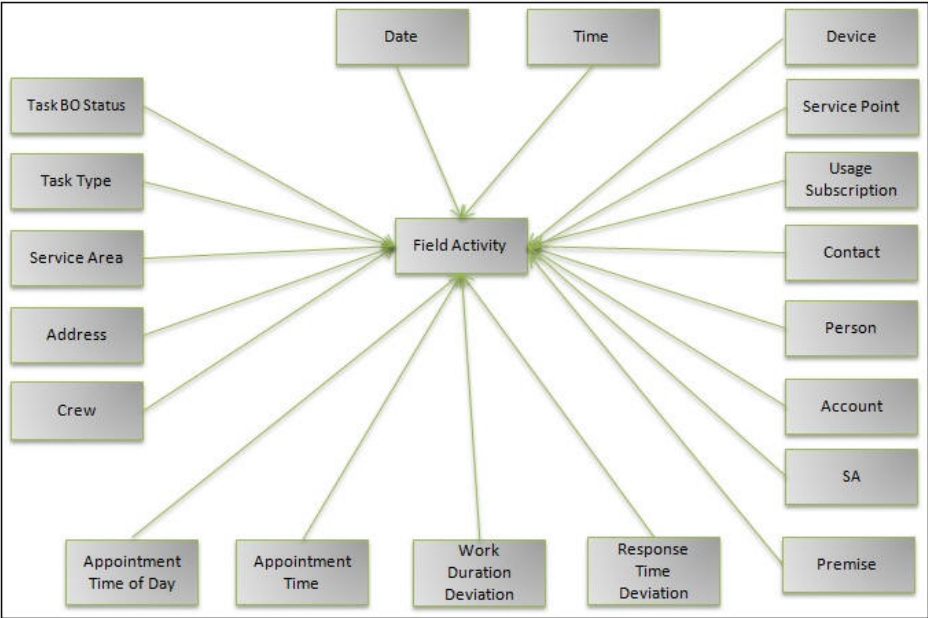
Target Field	Description	Source Field	Transformation Logic
<b>User Defined Attributes</b>			
UDM1	User Defined Measure 1		
UDM2	User Defined Measure 2		
UDM3	User Defined Measure 3		
UDM4	User Defined Measure 4		
UDM5	User Defined Measure 5		
UDM6	User Defined Measure 6		
UDM7	User Defined Measure 7		
UDM8	User Defined Measure 8		
UDM9	User Defined Measure 9		
UDM10	User Defined Measure 10		
UDDGEN1	User Defined Degenerate Dimension 1		
UDDGEN2	User Defined Degenerate Dimension 2		
UDDGEN3	User Defined Degenerate Dimension 3		
UDDGEN4	User Defined Degenerate Dimension 4		
UDDGEN5	User Defined Degenerate Dimension 5		
UDDGENL1	User Defined Long Degenerate Dimension 1		
UDDGENL2	User Defined Long Degenerate Dimension 2		
UDDGENL3	User Defined Long Degenerate Dimension 3		
UDDGENL4	User Defined Long Degenerate Dimension 4		
UDDGENL5	User Defined Long Degenerate Dimension 5		
UDDFK1_KEY	User Defined Dimension Foreign Key 1		
UDDFK2_KEY	User Defined Dimension Foreign Key 2		
UDDFK3_KEY	User Defined Dimension Foreign Key 3		

Target Field	Description	Source Field	Transformation Logic
UDDFK4_KEY	User Defined Dimension Foreign Key 4		
UDDFK5_KEY	User Defined Dimension Foreign Key 5		
<b>Data Load Attributes</b>			
DATA_SOURCE_IND	Data Source Indicator	CI_INSTALLATION.ENV _ID	This field is populated with the DSI value on the source product instance configuration. This table is populated as part of the initial setup and the DSI value is extracted from the environment ID of the source system.
JOB_NBR	Job Number		This field is populated with the ODI job execution session number.

# Field Activity Fact

The Field Activity fact holds the details of all activities (tasks) defined in the Oracle Utilities Extractors and Schema for Oracle Utilities Mobile Workforce Management system with measures around duration quantities, response times, and emergency indicator.

## Entity Relationship Diagram



## Properties

Property	Value
Target Table Name	CF_FLD_ACTIVITY
Table Type	Fact
Fact Type	Accumulation
Source System Driver Table	M1_TASK M1_CREW_SHFT
Stage Table Name	STG_CF_FLD_ACTIVITY
ODI Package Name	B1_PKG_CF_FLD_ACTIVITY
ETL View Name	B1_F_FLD_ACTIVITY_VW
Materialized View Name	B1_FLD_ACTIVITY_MON_MV1 B1_FLD_ACTIVITY_MON_MV2 B1_FLD_ACTIVITY_MON_MV3

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**Fields**

Target Field	Description	Source Field	Transformation Logic
<b>Surrogate Key</b>			
FLD_ACTIVITY_KEY	Activity Surrogate Key		This field is populated from the OUBI_FLD_ACTIVITY_SEQ sequence.
<b>Natural Keys</b>			
SRC_TASK_ID	Activity ID	M1_TASK.TASK_ID	This field is populated from the source Task table based on the tasks for which the Task Flag is set to Activity ('M1AC') and Parent Task ID is set as blank.
<b>Measures</b>			
WORK_DUR	Work Duration (Minutes)	M1_TASK_TYPE.AVG_DURATION	This field is populated with the average task duration from the Task Type table. If no value is found, '0' is populated.
EST_WORK_DUR	Estimated Work Duration	M1_TASK.ESTIMATED_DURATION	This field is populated with the estimated task duration from the Task Type table. If no value is found, '0' is populated.
ACT_WORK_DUR	Actual Work Duration	M1_TASK_LOG/ M1_TASK_MOB_LOG.LOG_DT_TM	This field is populated with the total time spent 'onsite' (in seconds) by the crew. It is calculated based on the log entries.
WORK_ATTEMPT_CNT	Number of Work Attempts	M1_TASK_LOG/ M1_TASK_MOB_LOG.BO_STATUS_CD	This field is populated with the number of times crew attempted to do the work (based on the number of times the crew logged with an 'Onsite' status).  If there are no log records, it is populated as '0'.
TRAVEL_ATTEMPT_CNT	Number of Travel Attempts	M1_TASK_LOG/ M1_TASK_MOB_LOG.BO_STATUS_CD	This field is populated with the number of times the crew traveled to the site to do the work (based on the number of times the crew logged with an 'Enroute' status).  If there are no log records, it is populated as '0'.

Target Field	Description	Source Field	Transformation Logic
DISPATCH_RESP_DUR	Creation To Dispatch	M1_TASK_LOG/ M1_TASK_MOB_LOG.L OG_DTTM  M1_TASK.CRE_DTTM	This field is populated based on the time (in seconds) between the creation of the activity until it was dispatched (based on the difference between the creation date/time and the log date/time of the log entry for 'Dispatched' status).  If the activity has not been dispatched, it is populated as '0'.
ENROUTE_RESP_DUR	Dispatch to Enroute	M1_TASK_LOG/ M1_TASK_MOB_LOG.L OG_DTTM	This field is populated based on the time (in seconds) it took from dispatching the activity until the crew is en route to the site (based on the difference between the maximum log date time for the entry with 'Dispatched' status and the log entry with 'En Route' status).  If there are no log records, it is populated as '0'.
ARRIVAL_RESP_DUR	Enroute To Onsite	M1_TASK_LOG/ M1_TASK_MOB_LOG.L OG_DTTM	This field is populated based on the time it took to travel until the crew arrived on site (based on the difference between the maximum log date time for the entry with 'En Route' status and the entry with 'Arrived' or 'Onsite' status).  If there are no log records, it is populated as '0'.
COMPLETED_RESP_DUR	Response Time to Complete	M1_TASK_LOG/ M1_TASK_MOB_LOG.L OG_DTTM	This field is populated based on the time it took for the crew to arrive on site and finish the task (based on the difference between the maximum log date time for the entry with 'Arrived' or 'Onsite' and the entry with 'Work Done' or 'Completed' status).  If there are no log records, it is populated as '0'.

Target Field	Description	Source Field	Transformation Logic
TOT_RESP_DUR	Total Response Time (Minutes)	M1_TASK.DISPATCH_RE SP_DUR  M1_TASK.ENROUTE_R ESP_DUR  M1_TASK.ARRIVAL_RES P_DUR  M1_TASK.COMPLETED _RESP_DUR	This field is populated with the total time it took to complete the task, starting from the time the task was dispatched all the way to the time the task was completed.
ACT_TRAVEL_DUR	Actual Travel Duration	M1_TASK_LOG/ M1_TASK_MOB_LOG.L OG_DTTM	This field is populated based on the total time the crew spent travelling to the site. Unit of measure is seconds.
FACT_CNT	Count		This field is populated with the standard value of '1'.
<b>Degenerate Dimensions</b>			
EMERGENCY_IND	Emergency Indicator	M1_TASK.QUEUE_FLG	This field is populated from the source Task table based on the identified tasks. If the Queue Flag is set to 'M1ER', then populate the Emergency Indicator with '1'. Else, with '0'.
APPOINTMENT_IND	Appointment Indicator	M1_TASK.APPOINTME NT_FLG	This field is populated from the source Task table based on the identified tasks. If the Appointment Flag is set to 'Y', then populate the Appointment Indicator with '1'. Else, with '0'.
SAME_DAY_APPT_IND	Same Day Appointment	M1_TASK_TM_WIND.TS K_TM_WIND_START_D TTM  M1_TASK.CRE_DTTM	This field is populated with '1' if the appointment is made on the same day as the creation date. Else, with '0'.
TASK_INFO	Task Info String	M1_TASK_TYPE_L.DES CR  M1_TASK_ADDR.ADDR ESS1, CITY, COUNTY, STATE  F1_BUS_OBJ_STATUS_L. DESCR	This field is populated with the concatenation of task type description, address, status code, task time window and crew for a task.
CRE_DTTM	Create Date/Time	M1_TASK.CRE_DTTM	
STATUS_DTTM	Status Date/Time	M1_TASK.STATUS_UPD _DTTM	



Target Field	Description	Source Field	Transformation Logic
SCHED_START_DTTM	Scheduled Start Date/Time	M1_TASK_TM_WIND.TSK_TM_WIND_START_DTTM	This field is populated with '1' if the appointment is made on the same day as the window start date. Else, with '0'.
SCHED_END_DTTM	Scheduled End Date/Time	M1_TASK_TM_WIND.TSK_TM_WIND_END_DTTM	This field is populated with '1' if the appointment is made on the same day as the window end date. Else, with '0'.
<b>Foreign Keys</b>			
TASK_BO_STATUS_KEY	Task BO Status Dimension Surrogate Key	M1_TASK.BUS_OBJ_CD  M1_TASK.BO_STATUS_CD  M1_TASK.BO_STATUS_REASON_CD	This field is populated based on the business object code, status code, and status reason code from the Task table.
TASK_TYPE_KEY	Task Type Dimension Surrogate Key	M1_TASK.TASK_TYPE_CD	
SERVICE_AREA_KEY	Service Area Dimension Surrogate Key	M1_TASK.SVC_AREA_CD	
ADDR_KEY	Address Dimension Surrogate Key	M1_TASK_ADDR.ADDRESS1  M1_TASK_ADDR.ADDRESS2  M1_TASK_ADDR.ADDRESS3  M1_TASK_ADDR.ADDRESS4  M1_TASK_ADDR.CROSS_STREET  M1_TASK_ADDR.SUBURB  M1_TASK_ADDR.CITY  M1_TASK_ADDR.COUNTY  M1_TASK_ADDR.STATE  M1_TASK_ADDR.POSTAL  M1_TASK_ADDR.COUNTRY	This field is populated based on the location of the task.

Target Field	Description	Source Field	Transformation Logic
CREW_KEY	Crew Dimension Surrogate Key	M1_CREW_SHFT.RESRC_ID	This field is populated from the Crew table based on the resource ID of the Task table.  Identify the resource ID from the Crew Shift table for the child task with 'Dispatched' status and with maximum log date/time.
APPT_TM_KEY	Appointment Time Dimension Surrogate Key	M1_TASK_TM_WIND.TSK_TM_WIND_START_DTTM  M1_TASK_LOG/ M1_TASK_MOB_LOG.LOG_DTTM	This field is populated based on the difference (in minutes) between the appointment start date time and log date time.
APPT_TM_OF_DAY_KEY	Appointment Time Of Day Dimension Surrogate Key	M1_TASK_TM_WIND.TSK_TM_WIND_START_DTTM	This field is populated based on the task time window start date/time associated with the task ID.
WORK_DUR_DEV_KEY	Work Duration Deviation Key	M1_TASK_TYPE.ACT_WORK_DUR  M1_TASK_TYPE.EST_WORK_DUR	This field fetches the actual work duration and estimated work duration and calculates the percentage of deviation.  $((\text{Actual Work Duration} - \text{Estimated Work Duration}) / \text{Estimated Work Duration}) * 100$
RESP_TM_DEV_KEY	Response Time Deviation Dimension Surrogate Key	M1_TASK_TYPE.TOT_RESP_DUR  M1_TASK_TYPE.BO_DATA_AREA	This field is populated based on the response time SLA from the Task Type table.  $((\text{Overall Response Time} - \text{Response Time SLA}) / \text{Response Time SLA}) * 100$
CRE_DATE_KEY	Creation Date Key	M1_TASK.CRE_DTTM	This field is populated based on the creation date of the task.
STATUS_DATE_KEY	Status Date Key	M1_TASK.STATUS_UPD_DTTM	This field is populated based on the status update date of the task.
SCHED_START_DATE_KEY	Scheduled Start Date Key	M1_TASK_TM_WIND.TSK_TM_WIND_START_DTTM	This field is populated based on the scheduled start date of the task.
SCHED_END_DATE_KEY	Scheduled End Date Key	M1_TASK_TM_WIND.TSK_TM_WIND_END_DTTM	This field is populated based on the scheduled end date of the task.

Target Field	Description	Source Field	Transformation Logic
CRE_TIME_KEY	Creation Time Key	M1_TASK.CRE_DTTM	This field is populated based on the creation date/time of the task.
STATUS_TIME_KEY	Status Time Key	M1_TASK.STATUS_UPD_DTTM	This field is populated based on the status update date/time of the task.
SCHED_START_TIME_KEY	Scheduled Start Time Key	M1_TASK_TM_WIND.TSK_TM_WIND_START_DTTM	This field is populated based on the scheduled start time of the task.
SCHED_END_TIME_KEY	Scheduled End Time Key	M1_TASK_TM_WIND.TSK_TM_WIND_DATE_DTTM	This field fetches the most recent effective time window based on the appointment.
MTR_DEVICE_KEY	Device Dimension Surrogate Key	M1_TASK.BO_DATA_AR_EA	This field is populated based on the external identifier value for meter device stored on the task as part of MWM-MDM integration.
SP_KEY	Service Point Dimension Surrogate Key	M1_TASK.BO_DATA_AR_EA	This field is populated based on the service point ID stored on the task as part of MWM-MDM integration.
US_KEY	Usage Subscription Dimension Surrogate Key	M1_TASK.BO_DATA_AR_EA	This field is populated based on the usage subscription ID stored on the task as part of MWM-MDM integration.
CONTACT_KEY	Contact Dimension Surrogate Key	M1_TASK.BO_DATA_AR_EA	This field is populated based on the contact subscription ID stored on the task as part of MWM-MDM integration.
PER_KEY	Person Dimension Surrogate Key	M1_TASK.BO_DATA_AR_EA	This field is populated based on the person subscription ID stored on the task as part of MWM-MDM integration.
ACCT_KEY	Account Dimension Surrogate Key	M1_TASK.BO_DATA_AR_EA	This field is populated based on the account ID stored on the task as part of MWM-MDM integration.
SA_KEY	Service Agreement Dimension Surrogate Key	M1_TASK.BO_DATA_AR_EA	This field is populated based on the service agreement ID stored on the task as part of MWM-MDM integration.
PREM_KEY	Premise Dimension Surrogate Key	M1_TASK.BO_DATA_AR_EA	This field is populated based on the premise ID stored on the task as part of MWM-MDM integration.

Target Field	Description	Source Field	Transformation Logic
FLD_ACTIVITY_UDD1_KEY	Activity User Defined Dimension 1 Key		
FLD_ACTIVITY_UDD2_KEY	Activity User Defined Dimension 2 Key		
<b>User Defined Attributes</b>			
UDM1	User Defined Measure 1		
UDM2	User Defined Measure 2		
UDM3	User Defined Measure 3		
UDM4	User Defined Measure 4		
UDM5	User Defined Measure 5		
UDM6	User Defined Measure 6		
UDM7	User Defined Measure 7		
UDM8	User Defined Measure 8		
UDM9	User Defined Measure 9		
UDM10	User Defined Measure 10		
UDDGEN1	User Defined Degenerate Dimension 1		
UDDGEN2	User Defined Degenerate Dimension 2		
UDDGEN3	User Defined Degenerate Dimension 3		
UDDGEN4	User Defined Degenerate Dimension 4		
UDDGEN5	User Defined Degenerate Dimension 5		
UDDGENL1	User Defined Long Degenerate Dimension 1		
UDDGENL2	User Defined Long Degenerate Dimension 2		
UDDGENL3	User Defined Long Degenerate Dimension 3		
UDDGENL4	User Defined Long Degenerate Dimension 4		
UDDGENL5	User Defined Long Degenerate Dimension 5		
UDDFK1_KEY	User Defined Dimension Foreign Key 1		

Target Field	Description	Source Field	Transformation Logic
UDDFK2_KEY	User Defined Dimension Foreign Key 2		
UDDFK3_KEY	User Defined Dimension Foreign Key 3		
UDDFK4_KEY	User Defined Dimension Foreign Key 4		
UDDFK5_KEY	User Defined Dimension Foreign Key 5		
<b>Data Load Attributes</b>			
DATA_SOURCE_IND	Data Source Indicator	CI_INSTALLATION.ENV _ID	This field is populated with the DSI value on the source product instance configuration. This table is populated as part of the initial setup and the DSI value is extracted from the environment ID of the source system.
JOB_NBR	Job Number		This field is populated with the ODI job execution session number.