# Oracle Utilities Extractors and Schema for Oracle Utilities Operational Device Management

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Oracle Utilities Extractors and Schema for Oracle Utilities Operational Device Management Data Mapping Guide

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# **Preface**

This guide provides the data mapping information from the Oracle Utilities Operational Device 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 Operational Device 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.

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**

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

# **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 Utilities Operational Device Management Documentation Library

# **Conventions**

The following notational conventions are used in this document:

Notation	Indicates	
boldface	Graphical user interface elements associated with an action, terms defined in text, or terms defines in the glossary	
italic	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	

# Chapter 1

# **Overview**

This guide provides the data mapping information from the Oracle Utilities Extractors and Schema for Oracle Utilities Operational Device 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 (BI data warehouse) into which data is loaded	
Table Type	Fact or dimension	
SCD Type	Type 1 - Existing records are updated directly.	
	<b>Type 2</b> - Existing records are deactivated and changes are captured by inserting new effective records. The existing records are deactivated by assigning an effective end date of the current date. The new records will have effective start date of the current date and effective end date of a significantly future date.	

Property	Value	
Fact Type	Whether this is a snapshot or transactional fact table.	
	<b>Snapshot</b> - 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.	
	<b>Accumulation</b> - 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.	
Source System Driver Table	Name of the table in source database on which the data is primarily based.	
Oracle Data Integrator Package	Name of the ODI package that needs be executed to extract data from the source application 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	Names of the materialized views delivered with the product for a specific fact table.	
	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.	

#### **Fields**

The Fields table lists the individual properties of each field in the fact or dimension table. It includes the following columns:

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

# **Field Categories**

The Field Categories 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.

Category	Details	
Natural Keys	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.	
	The additional columns needed for the identification depend on the type of the table as listed below:	
	SCD Type 1 Dimension - Data Source Indicator	
	<ul> <li>SCD Type 2 Dimension - Effective Start Date, Effective End Date, Data Source Indicator</li> </ul>	
	Accumulation Fact - Data Source Indicator	
	Snapshot Fact - Snapshot Date, Data Source Indicator	
Attributes	Hold descriptive data from the source system and are typically available in dimension tables.	
Measures	Hold numerical values based data that is 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 included 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**

# Data Maps for Oracle Utilities Operational Device Management

This section contains data maps for the following Oracle Utilities Extractors and Schema for Oracle Utilities Operational Device Management tables:

- Dimensions
- Shared Dimensions
- User Defined Dimensions
- Facts

# **Dimensions**

# **Asset Disposition Dimension**

The Asset Disposition dimension stores all possible dispositions that an asset entity can be in.

# **Properties**

Property	Value
Target Table Name	CD_ASSET_DISP
Table Type	Dimension
SCD Type	Type 1
Driver Table Name	F1_EXT_LOOKUP_VAL_L
ODI Package Name	B1_PKG_CD_ASSET_DISP
ETL View Name	B1_D_ASSET_DISP_VW

Target Field	Description	Source Field	Transformation Logic
Surrogate Key			
ASSET_DISP_KEY	Asset Disposition Dimension Key		This field is populated from the B1_ASSET_DISP_SEQ sequence.
Natural Keys			
ASSET_DISP_CD	Asset Disposition Code	F1_EXT_LOOKUP_VAL_ L.F1_EXT_LOOKUP_VA LUE	
Attributes			
ASSET_DISP_DESCR	Asset Disposition Description	F1_EXT_LOOKUP_VAL_ L.DESCR_OVRD  F1_EXT_LOOKUP_VAL_ L.DESCR  F1_EXT_LOOKUP_VAL_ L.LANGUAGE_CD	This field is populated with the description of the asset disposition from Lookup Language table for ASSET_DISP_FLG lookup field.  If an override description is not available, the regular description is extracted.
User Defined Attributes			
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 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		
Data Load Attributes			
DATA_LOAD_DTTM	Data Load Date/Time		This field is populated with the load timestamp value.
UPDATE_DTTM	Update Date/Time		
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.

# **Asset Age Dimension**

The Asset Age dimension extracts the age buckets for an asset as configured in the source Oracle Utilities Operational Device Management system.

## **Properties**

Property	Value
Target Table Name	CD_ASSET_AGE
Table Type	Dimension
SCD Type	Type 1
Driver Table Name	W1_BKT_CONFIG_VAL
ODI Package Name	B1_PKG_CD_ASSET_AGE
ETL View Name	B1_D_ASSET_AGE_VW

Target Field	Description	Source Field	Transformation Logic
Surrogate Key			
ASSET_AGE_KEY	Asset Age Dimension Key		This field is populated from the B1_ASSET_AGE_SEQ sequence.
Natural Keys			
ASSET_TYPE_CD	Asset Type Code	W1_BKT_CONFIG_REL _OBJ.PK_VALUE1	
Attributes			
ASSET_AGE_DESCR	Asset Age Description	W1_BKT_CONFIG_VAL_ L.DESCR	This field is populated with the description of the asset age from Lookup Language table
		W1_BKT_CONFIG_VAL_ L.LANGUAGE_CD	for ASSET_AGE_FLG lookup field.
			If an override description is not available, the regular description is extracted.

Target Field	Description	Source Field	Transformation Logic
ASSET_AGE_ST_RANGE	Age Start Range	W1_BKT_CONFIG_VAL. Start_range	This field is populated based on the bucket ranges defined for the business object W1-WAssetAgeBuckets.
ASSET_AGE_ED_RANGE	Age End Range	W1_BKT_CONFIG_VAL. END_RANGE	This field is populated based on the bucket ranges defined for the business object W1-WAssetAgeBuckets.
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 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		

Target Field	Description	Source Field	Transformation Logic
Data Load Attributes			
DATA_LOAD_DTTM	Data Load Date/Time		This field is populated with the load timestamp value.
UPDATE_DTTM	Update Date/Time		
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**: The bucket dimension ELT job is configured to be initial load only. Any incremental changes to these buckets after the initial run will not be captured in BI. However, if there arises a need to reconfigure the buckets, then data should be truncated in the BI star schema tables and reloaded to reflect the changes. The bucket dimensions, along with the associated facts (Operational Device Snapshot and Accumulation), should be truncated and reloaded.

For details about reloading the data, see the **Data Reload** section in *Oracle Utilities Analytics Administration Guide*.

# **Asset Install Age Dimension**

The Asset Install Age dimension extracts the age buckets for an asset's installed age as configured in the source Oracle Utilities Operational Device Management system.

#### **Properties**

Property	Value	
Target Table Name	CD_ASSET_INSTALL_AGE	
Table Type	Dimension	
SCD Type	Type 1	
Driver Table Name	W1_BKT_CONFIG_VAL	
ODI Package Name	B1_PKG_CD_ASSET_INSTALL_AGE	
ETL View Name	B1_D_ASSET_INSTALL_AGE_VW	

Target Field	Description	Source Field	Transformation Logic
Surrogate Key			
ASSET_INSTALL_AGE_ KEY	Asset Install Age Dimension Key		This field is populated from the B1_ASSET_INSTALL_AGE_SEQ sequence.
Natural Keys			
ASSET_TYPE_CD	Asset Type Code	W1_BKT_CONFIG_REL _OBJ.PK_VALUE1	
Attributes			
ASSET_INSTALL_AGE_ DESCR	Asset Install Age Description	W1_BKT_CONFIG_VAL_ L.DESCR W1_BKT_CONFIG_VAL_ L.LANGUAGE_CD	This field is populated with the description of the asset install age from the Lookup Language table for ASSET_INSTALL_AGE_FL G lookup field.
			If an override description is not available, the regular description is extracted.
ASSET_INSTALL_AGE_ ST_RANGE	Asset Install Age Start Range	W1_BKT_CONFIG_VAL. START_RANGE	This field is populated based on the bucket ranges defined for the business object W1-WAssetAgeBuckets.
ASSET_INSTALL_AGE_ ED_RANGE	Asset Install Age End Range	W1_BKT_CONFIG_VAL. END_RANGE	This field is populated based on the bucket ranges defined for the business object W1-WAssetAgeBuckets.
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		

Target Field	Description	Source Field	Transformation Logic
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		
UDF10_DESCR	User Defined Field 10 Description		
Data Load Attributes			
DATA_LOAD_DTTM	Data Load Date/Time		This field is populated with the load timestamp value.
UPDATE_DTTM	Update Date/Time		
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**: The bucket dimension ELT job is configured to be initial load only. Any incremental changes to these buckets after the initial run will not be captured in BI. However, if there arises a need to reconfigure the buckets, then data should be truncated in the BI star schema tables and reloaded to reflect the changes. The bucket dimensions, along with the associated facts (Operational Device Snapshot and Accumulation), should be truncated and reloaded.

For details about reloading the data, see the **Data Reload** section in *Oracle Utilities Analytics Administration Guide*.

# **Asset Instore Age Dimension**

The Asset Inventory Age dimension is populated with the age ranges for the days since the asset was put in storage.

# **Properties**

Property	Value
Target Table Name	CD_ASSET_INSTORE_AGE
Table Type	Dimension
SCD Type	Type 1
Driver Table Name	W1_BKT_CONFIG_VAL
ODI Package Name	B1_PKG_CD_ASSET_INSTORE_AGE
ETL View Name	B1_D_ASSET_INSTORE_AGE_VW

Target Field	Description	Source Field	Transformation Logic
Surrogate Key			
ASSET_INSTORE_AGE_ KEY	Asset Instore Age Dimension Key		This field is populated from the B1_ASSET_INSTORE_AGE _SEQ sequence.
Natural Keys			
ASSET_TYPE_CD	Asset Type Code	W1_BKT_CONFIG_REL _OBJ.PK_VALUE1	
Attributes			
ASSET_INSTORE_AGE_ DESCR	Asset Instore Age Description	W1_BKT_CONFIG_VAL_ L.DESCR W1_BKT_CONFIG_VAL_ L.LANGUAGE_CD	This field is populated with the description of the asset instore age from the Lookup Language table for ASSET_INSTORE_AGE_FL G lookup field.  If an override description is not available, the regular description is extracted.
ASSET_INSTORE_AGE_S T_RANGE	Asset Instore Age Start Range	W1_BKT_CONFIG_VAL. START_RANGE	This field is populated based on the bucket ranges defined for the business object W1-WAssetAgeBuckets.
ASSET_INSTORE_AGE_ ED_RANGE	Asset Instore Age End Range	W1_BKT_CONFIG_VAL. End_range	This field is populated based on the bucket ranges defined for the business object W1- WAssetAgeBuckets.

Target Field	Description	Source Field	Transformation Logic
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 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		
Data Load Attributes			
DATA_LOAD_DTTM	Data Load Date/Time		This field is populated with the load timestamp value.
UPDATE_DTTM	Update Date/Time		

Target Field	Description	Source Field	Transformation Logic
DATA_SOURCE_IND	ATA_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**: The bucket dimension ELT job is configured to be initial load only. Any incremental changes to these buckets after the initial run will not be captured in BI. However, if there arises a need to reconfigure the buckets, then data should be truncated in the BI star schema tables and reloaded to reflect the changes. The bucket dimensions, along with the associated facts (Operational Device Snapshot and Accumulation), should be truncated and reloaded.

For details about reloading the data, see the **Data Reload** section in *Oracle Utilities Analytics Administration Guide*.

## **Operational Device Dimension**

The Operational Device dimension extracts asset data related to operational devices from the Oracle Utilities Operational Device Management system. The appropriate firmware versions are retrieved based on the configuration set on the BI Extract Parameters in Oracle Utilities Operational Device Management.

#### **Properties**

Property	Value
Target Table	CD_OPR_DEVICE
Table Type	Dimension
SCD Type	Type 2
Source System Driver Table	W1_ASSET
ODI Package	B1_PKG_CD_OPR_DEVICE
ETL View	B1_D_OPR_DEVICE_VW

Target Field	Description	Source Field	Transformation Logic
Surrogate Key			
OPR_DEVICE_KEY	Operational Device Dimension Key		This field is populated from the B1_OPR_DEVICE_SEQ sequence.

Target Field	Description	Source Field	Transformation Logic
Natural Keys			
SRC_ASSET_ID	Source Asset ID		This field is populated with only those assets whose BO name (BUS_OBJ_CD) is as configured in the BI config table.
Attributes			
FIRMWARE1	Firmware Version 1	W1_ASSET_IDENTIFIER .W1_ID_VALUE	The identifier value is retrieved based on the firmware Identifier Type configured in the Master Configuration for BI extract parameters. The Identifier Type configured for firmware 1 slot is retrieved.
FIRMWARE2	Firmware Version 2	W1_ASSET_IDENTIFIER .W1_ID_VALUE	The identifier value is retrieved based on the firmware Identifier Type configured in the Master Configuration for BI extract parameters. The Identifier Type configured for firmware 2 slot is retrieved.
FIRMWARE3	Firmware Version 3	W1_ASSET_IDENTIFIER .W1_ID_VALUE	The identifier value is retrieved based on the firmware Identifier Type configured in the Master Configuration for BI extract parameters. The Identifier Type configured for firmware 3 slot is retrieved.
FIRMWARE4	Firmware Version 4	W1_ASSET_IDENTIFIER .W1_ID_VALUE	The identifier value is retrieved based on the firmware Identifier Type configured in the Master Configuration for BI extract parameters. The Identifier Type configured for firmware 4 slot is retrieved.
FIRMWARE5	Firmware Version 5	W1_ASSET_IDENTIFIER .W1_ID_VALUE	The identifier value is retrieved based on the firmware Identifier Type configured in the Master Configuration for BI extract parameters. The Identifier Type configured for firmware 5 slot is retrieved.

Target Field	Description	Source Field	Transformation Logic
FIRMWARE6	Firmware Version 6	W1_ASSET_IDENTIFIER .W1_ID_VALUE	The identifier value is retrieved based on the firmware Identifier Type configured in the Master Configuration for BI extract parameters. The Identifier Type configured for firmware 6 slot is retrieved.
FIRMWARE7	Firmware Version 7	W1_ASSET_IDENTIFIER .W1_ID_VALUE	The identifier value is retrieved based on the firmware Identifier Type configured in the Master Configuration for BI extract parameters. The Identifier Type configured for firmware 7 slot is retrieved.
FIRMWARE8	Firmware Version 8	W1_ASSET_IDENTIFIER .W1_ID_VALUE	The identifier value is retrieved based on the firmware Identifier Type configured in the Master Configuration for BI extract parameters. The Identifier Type configured for firmware 8 slot is retrieved.
FIRMWARE9	Firmware Version 9	W1_ASSET_IDENTIFIER .W1_ID_VALUE	The identifier value is retrieved based on the firmware Identifier Type configured in the Master Configuration for BI extract parameters. The Identifier Type configured for firmware 9 slot is retrieved.
FIRMWARE10	Firmware Version 10	W1_ASSET_IDENTIFIER .W1_ID_VALUE	The identifier value is retrieved based on the firmware Identifier Type configured in the Master Configuration for BI extract parameters. The Identifier Type configured for firmware 10 slot is retrieved.
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		

Target Field	Description	Source Field	Transformation Logic
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		
UDF10_DESCR	User Defined Field 10 Description		
Data Load Attributes			
DATA_LOAD_DTTM	Data Load Date/Time		This field is populated with the load timestamp value.
EFF_START_DTTM	Effective Start Date/Time		
EFF_END_DTTM	Effective End Date/Time		
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.

# **Shared Dimensions**

Shared dimensions are used in the star schemas of other source products as well. 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.

#### **Address Dimension**

The Address dimension extracts data from the Location/Node entity in the Oracle Utilities Operational Device Management system. The address constituents from the location are retrieved and stored in the target dimension.

#### **Properties**

Property	Value
Target Table	CD_ADDR
Table Type	Dimension
SCD Type	Type 2
Source System Driver Table	W1_NODE
ODI Package	B1_PKG_CD_ADDR
ETL View	B1_D_ADDR_VW

Target Field	Description	Source Field	Transformation Logic
Surrogate Key			
ADDR_KEY	Address Dimension		This field is populated from the SPL_ADDR_SEQ sequence.
Natural Keys			
SRC_ADDR_ID	Address ID		
Attributes			
ADDR_INFO	Address	W1_NODE.ADDRESS1	This field is populated from the W1_NODE table based on
		W1_NODE.CITY	the concatenation of the
		W1_NODE.STATE	address, city, state, and postal code.
		W1_NODE.POSTAL	
ADDR_LINE1	Address Line 1	W1_NODE.ADDRESS1	
ADDR_LINE2	Address Line 2	W1_NODE.ADDRESS2	
ADDR_LINE3	Address Line 3	W1_NODE.ADDRESS3	
ADDR_LINE4	Address Line 4	W1_NODE.ADDRESS4	

Target Field	Description	Source Field	Transformation Logic
CITY	City	W1_NODE.CITY	
COUNTY	County	W1_NODE.COUNTY	
POSTAL	Postal Code	W1_NODE.POSTAL	
STATE_CD	State Code	W1_NODE.STATE	
STATE_DESCR	State Description	CI_STATE_L.DESCR	
COUNTRY_CD	Country Code	W1_NODE.COUNTRY	
COUNTRY_DESCR	Country Description	CI_COUNTRY_L.DESCR	
CROSS_STREET	Cross Street	W1_NODE.W1_CROSS_S TREET	
SUBURB	Suburb	W1_NODE.W1_SUBURB	
GEO_CODE	Geographical Code	W1_NODE.GEO_CODE	
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 7 Code		
UDF7_DESCR	User Defined Field 7 Description		
UDF8_CD	User Defined Field 8 Code		
UDF8_DESCR	User Defined Field 8 Description		

Target Field	Description	Source Field	Transformation Logic
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		
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		
Data Load Attributes			
EFF_START_DTTM	Effective Start Date/Time		
EFF_END_DTTM	Effective End 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.

# **Asset Dimension**

The Asset dimension extracts all assets defined in the system. The dimension holds all generic asset information, such as the specification details, asset type, and asset class information.

## **Properties**

Property	Value
Target Table	CD_UTIL_ASSET
Table Type	Dimension
SCD Type	Type 2
Source System Driver Table	W1_ASSET
ODI Package	B1_PKG_CD_UTIL_ASSET
ETL View	B1_D_UTIL_ASSET_VW

ation Logic
populated from IL_ASSET_SEQ
populated with the per retrieved based at ID populated.
populated with the aracters from the olumn in the Asset

Target Field	Description	Source Field	Transformation Logic
MANUFACTURER_CD	Manufacturer Code	W1_SPECIFICATION. W1_MANUFACTURER_C D	
MANUFACTURER_ DESCR	Manufacturer Description	W1_MANUFACTURER_L .DESCR100	
MODEL	Model	W1_SPECIFICATION_ID ENTIFIER.W1_ID_VALU E	This field is populated based on the specification code on the asset and where the specification identifier flag is W1MD.
UTIL_ASSET_TYPE_CD	Utility Asset Type Code	W1_ASSET.ASSET_TYPE _CD	
UTIL_ASSET_TYPE_ DESCR	Utility Asset Type Description	W1_ASSET_TYPE_L.DES CR100	
UTIL_ASSET_CLASS_CD	Utility Asset Class Code	W1_ASSET_TYPE.ASSET _CLASS_FLG	
UTIL_ASSET_CLASS_ DESCR	Utility Asset Class Description	CI_LOOKUP_VAL_L.DE SCR_OVRD CI_LOOKUP_VAL_L.DE	This field is populated with the description from the Lookup Language table for the lookup field ASSET_CLASS_FLG.
		SCR	If an override description is not available, regular description is extracted.
UTIL_ASSET_CAT_CD	Utility Asset Category Code	W1_ASSET_TYPE.ASSET _CAT_FLG	
UTIL_ASSET_CAT_ DESCR	Utility Asset Category Description	CI_LOOKUP_VAL_L.DE SCR_OVRD	This field is populated with the description from the Lookup Language table for the lookup
		CI_LOOKUP_VAL_L.DE SCR	field ASSET_CAT_FLG.
			If an override description is not available, regular description is extracted.
UTIL_ASSET_COND_ SCORE	Asset Condition Score	W1_ASSET.CONDITION _RATING	
UTIL_ASSET_CONF_ RAT	Confidence Rating	W1_ASSET.CONFIDENC E_RATING	

COND_SCORE_BKT_ST_ RANGE	Asset Condition Score Bucket Start Range	F1_BKT_CONFIG_VAL.B KT_START_RANGE	This field is populated with the start range of the condition
			score bucket for which this asset's condition score falls into. It goes hand in hand with the Asset Condition Score Bucket End Range to constitute the actual bucket range the asset's score falls into.
			Note: For details about how the buckets are configured, see Configuring Source in the Oracle Utilities Analytics Administration Guide.
COND_SCORE_BKT_ED _RANGE	Asset Condition Score Bucket End Range	F1_BKT_CONFIG_VAL.B KT_END_RANGE	This field is populated with the end range of the condition score bucket for which this asset's condition score falls into. It goes hand in hand with the Asset Condition Score Bucket Start Range to constitute the actual bucket range the asset's score falls into.
			Note: For details about how the buckets are configured, see Configuring Source in the Oracle Utilities Analytics Administration Guide.
COND_SCORE_BKT_ DESCR	Asset Condition Score Bucket Description	F1_BKT_CONFIG_VAL_ L.DESCR	This field is populated with the description of the condition score bucket for which this asset's condition score falls into.
			Note: For details about how the buckets are configured, see Configuring Source in the Oracle Utilities Analytics Administration Guide.
User Defined Attributes			
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 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		
Data Load Attributes			
EFF_START_DTTM	Effective Start Date/Time		
EFF_END_DTTM	Effective End 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.

# **Asset Inspection Status Dimension**

The Asset Inspection Status dimension is populated with all the possible outcomes for asset inspections. For example: whether it passed, failed, etc.

## **Properties**

Property	Value
Target Table	CD_ASSET_INSP_STATUS
Table Type	Dimension
SCD Type	Type 1
Source System Driver Table	CI_LOOKUP_VAL_L
ODI Package	B1_PKG_CD_ASSET_INSP_STATUS
ETL View	B1_D_ASSET_INSP_STATUS_VW

Target Field	Description	Source Field	Transformation Logic
Surrogate Key			
ASSET_INSP_STATUS_ KEY	Asset Inspection Status Dimension Surrogate Key		This field is populated from the B1_ASSET_INSP_STATUS_SEQ sequence.
Natural Keys			
ASSET_INSP_STATUS_ CD	Asset Inspection Status Code	CI_LOOKUP_VAL_L.FIE LD_VALUE	This field is populated with the lookup value for the lookup field INSPECTION_INDICATOR _FLG.
Attributes			
ASSET_INSP_STATUS_ DESCR	Asset Inspection Status Description	CI_LOOKUP_VAL_L.DE SCR	This field is populated with the description from Lookup Language table for the
		CI_LOOKUP_VAL_L.DE SCR_OVRD	ASSET_INSP_STATUS_FLG lookup field.
			If override description is not available, regular description is extracted.

Target Field	Description	Source Field	Transformation Logic
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 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		
Data Load Attributes			
UPDATE_DTTM	Update Date and 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.

# **Location Dimension**

The Location dimension extracts data from the Location entity in Oracle Utilities Work and Asset Management system. The location hierarchy is extracted up to 10 levels.

## **Properties**

Property	Value
Target Table	CD_LOCATION
Table Type	Dimension
SCD Type	Type 2
Source System Driver Table	W1_NODE
ODI Package	B1_PKG_CD_LOCATION
ETL View	B1_D_LOCATION_VW

Target Field	Description	Source Field	Transformation Logic
Surrogate Key			
LOCATION_KEY	Location Dimension Surrogate Key		This field is populated from the B1_LOCATION_SEQ sequence.
Natural Keys			
SRC_LOCATION_ID	Source Location ID	W1_NODE.NODE_ID	
Attributes			
LOCATION_INFO	Location Information	W1_NODE.DESCR100	<b>Note</b> : This field can be customized to override the value provided out-of-the-box.

Target Field	Description	Source Field	Transformation Logic
LOCATION_TYPE_CD	Location Type Code	W1_NODE.NODE_TYPE _CD	
LOCATION_TYPE_ DESCR	Location Type Description	W1_NODE_TYPE_L.DES CR100	
LOCATION_CLASS_CD	Location Class Code	W1_NODE.LOCATION_ CLASS_FLG	
LOCATION_CLASS_ DESCR	Location Class Description	CI_LOOKUP_VAL_L.DE SCR_OVRD CI_LOOKUP_VAL_L.DE SCR	This field is populated with the description from the Lookup Language table for the lookup field LOCATION_CLASS_FLG.
			If an override description is not available, regular description is extracted
LOCATION_TYPE_ CLASS_CD	Location Type Class Code	W1_NODE_TYPE.NODE _CLASS_FLG	
LOCATION_TYPE_ CLASS_DESCR	Location Type Class Description	CI_LOOKUP_VAL_L.DE SCR_OVRD CI_LOOKUP_VAL_L.DE SCR	This field is populated with the description from the Lookup Language table for the lookup field NODE_CLASS_FLG.
		SCR	If an override description is not available, regular description is extracted.
LOCATION_CATEGORY	Location Category		This field is populated with:  • A - if the location is an Asset Location
			• S - if the location is a Storeroom
			O - if the location is an Organization
CRITICALITY_VAL	Asset Criticality Flag	W1_NODE.CRITICALIT Y_FLG	This field is populated with the location's actual criticality.

Target Field	Description	Source Field	Transformation Logic
CRITICALITY_BKT_ST_ RANGE	Asset Criticality Bucket Start Range	F1_BKT_CONFIG_VAL.B KT_START_RANGE	This field is populated with the start range of the criticality bucket for which this asset's criticality falls into. It goes hand in hand with the Asset Criticality Bucket End Range to constitute the actual bucket range the asset's criticality falls into.
			Note: See Configuring Source in the Oracle Utilities Analytics Administration Guide for details about how to configure the buckets.
CRITICALITY_BKT_ED_ RANGE	Asset Criticality Bucket End Range	F1_BKT_CONFIG_VAL.B KT_END_RANGE	This field is populated with the end range of the criticality bucket for which this asset's criticality falls into. It goes hand in hand with the Asset Criticality Bucket Start Range to constitute the actual bucket range the asset's criticality falls into.
			Note: See Configuring Source in the Oracle Utilities Analytics Administration Guide for details about how to configure the buckets.
CRITICALITY_BKT_ DESCR	Asset Criticality Bucket Description	F1_BKT_CONFIG_VAL_ L.DESCR	This field is populated with the description of the criticality bucket for which the location's criticality falls into.
			Note: See Configuring Source in the Oracle Utilities Analytics Administration Guide for details about how to configure the buckets.

Target Field	Description	Source Field	Transformation Logic
CRITICALITY_CAT_CD	Location Criticality Category Code	F1_BKT_CONFIG_VAL.B KT_VAL_TYPE_CD	This field is populated with the category of the Criticality Bucket for which this location's criticality falls into.
			Examples of criticality category are 'Critical', 'High', 'Medium', and 'Low'.
			Note: See Configuring Source in the Oracle Utilities Analytics Administration Guide for details about how to configure the buckets.
CRITICALITY_CAT_ DESCR	Location Criticality Category Description	CI_LOOKUP_VAL_L.DE SCR_OVRD	This field is populated with the description from the Lookup
		CI_LOOKUP_VAL_L.DE SCR	Language table for the lookup field CRIT_CAT_FLG. If override description is not available, regular description is extracted
			Note: See Configuring Source in the Oracle Utilities Analytics Administration Guide for details about how to configure the buckets.
ENV_RATING	Environment Rating		This field is populated with the Environment Rating retrieved from the location's characteristic of type "Environment Rating (W1-ENVRT)".
RCM_SYSTEM_CD	RCM System Code	W1_NODE. RCM_SYSTEM_FLG	
RCM_SYSTEM_DESCR	RCM System Description		If an override description is not available, regular description is extracted.
PARENT_LOCATION_LV L1_CD	Parent Location Level 1 Code	W1_NODE.PARENT_NO DE_ID	This field is populated with the location ID of the parent of the current location.
PARENT_LOCATION_LV L1_DESCR	Parent Location Level 1 Description	W1_NODE.DESCR100	This field is populated with the description of parent 1 location.
PARENT_LOCATION_LV L2_CD	Parent Location Level 2 Code	W1_NODE.PARENT_NO DE_ID	This field is populated with the location ID of the parent of the current location.

Target Field	Description	Source Field	Transformation Logic
PARENT_LOCATION_LV L2_DESCR	Parent Location Level 2 Description	W1_NODE.DESCR100	This field is populated with the description of parent 2 location.
PARENT_LOCATION_LV L3_CD	Parent Location Level 3 Code	W1_NODE.PARENT_NO DE_ID	This field is populated with the location ID of the parent of the current location.
PARENT_LOCATION_LV L3_DESCR	Parent Location Level 3 Description	W1_NODE.DESCR100	This field is populated with the description of parent 3 location.
PARENT_LOCATION_LV L4_CD	Parent Location Level 4 Code	W1_NODE.PARENT_NO DE_ID	This field is populated with the location ID of the parent of the current location.
PARENT_LOCATION_LV L4_DESCR	Parent Location Level 4 Description	W1_NODE.DESCR100	This field is populated with the description of parent 4 location.
PARENT_LOCATION_LV L5_CD	Parent Location Level 5 Code	W1_NODE.PARENT_NO DE_ID	This field is populated with the location ID of the parent of the current location.
PARENT_LOCATION_LV L5_DESCR	Parent Location Level 5 Description	W1_NODE.DESCR100	This field is populated with the description of parent 5 location.
PARENT_LOCATION_LV L6_CD	Parent Location Level 6 Code	W1_NODE.PARENT_NO DE_ID	This field is populated with the location ID of the parent of the current location.
PARENT_LOCATION_LV L6_DESCR	Parent Location Level 6 Description	W1_NODE.DESCR100	This field is populated with the description of parent 6 location.
PARENT_LOCATION_LV L7_CD	Parent Location Level 7 Code	W1_NODE.PARENT_NO DE_ID	This field is populated with the location ID of the parent of the current location.
PARENT_LOCATION_LV L7_DESCR	Parent Location Level 7 Description	W1_NODE.DESCR100	This field is populated with the description of parent 7 location.
PARENT_LOCATION_LV L8_CD	Parent Location Level 8 Code	W1_NODE.PARENT_NO DE_ID	This field is populated with the location ID of the parent of the current location.
PARENT_LOCATION_LV L8_DESCR	Parent Location Level 8 Description	W1_NODE.DESCR100	This field is populated with the description of parent 8 location.
PARENT_LOCATION_LV L9_CD	Parent Location Level 9 Code	W1_NODE.PARENT_NO DE_ID	This field is populated with the location ID of the parent of the current location.
PARENT_LOCATION_LV L9_DESCR	Parent Location Level 9 Description	W1_NODE.DESCR100	This field is populated with the description of parent 9 location.

Target Field	Description	Source Field	Transformation Logic
PARENT_LOCATION_LV L10_CD	Parent Location Level 10 Code	W1_NODE.PARENT_NO DE_ID	This field is populated with the location ID of the parent of the current location.
PARENT_LOCATION_LV L10_DESCR	Parent Location Level 10 Description	W1_NODE.DESCR100	This field is populated with the description of parent 10 location.
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 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		

Target Field	Description	Source Field	Transformation Logic
Data Load Attributes			
UPDATE_DTTM	Update Date and Time		
EFF_START_DTTM	Effective Start Date/Time		
EFF_END_DTTM	Effective End Date/Time		
DATA_LOAD_DTTM	Data Load Date/Time		This field is populated with the load timestamp value.
DATA_SOURCE_IND Date	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.

# **Service History Type Dimension**

The Service History Type dimension extracts the service history types and the respective category details from the source system.

## **Properties**

Property	Value
Target Table	CD_SERVICE_HIST_TYPE
Table Type	Dimension
SCD Type	Type 1
Source System Driver Table	W1_SVC_HIST_TYPE
ODI Package	B1_PKG_CD_SERVICE_HIST_TYPE
ETL View	B1_D_SERVICE_HIST_TYPE_VW

Target Field	Description	Source Field	Transformation Logic
Surrogate Key			
SERVICE_HIST_TYPE_K EY	Service History Type Dimension Surrogate Key		This field is populated from the B1_SERVICE_HIST_TYPE_SEQ sequence.

Target Field	Description	Source Field	Transformation Logic
Natural Keys			
SERVICE_HIST_TYPE_C D	Service History Type Code	W1_SVC_HIST_TYPE.SV C_HIST_TYPE_CD	
Attributes			
SERVICE_HIST_TYPE_D ESCR	Service History Type Description	W1_SVC_HIST_TYPE_L. DESCR100	
SERVICE_HIST_CAT_CD	Service History Category Code	W1_SVC_HIST_TYPE.SV C_HIST_CATEGORY_FL G	
SERVICE_HIST_CAT_DE SCR	Service History Category Description	CI_LOOKUP_VAL_L.DE SCR_OVRD	This field is populated with description from the Lookup
		CI_LOOKUP_VAL_L.DE SCR	Language table for the SVC_HIST_CATEGORY_FL G lookup field.
			If an override description is not available, regular description is extracted.
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 7 Code		

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		
Data Load Attributes			
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.

## **User Defined Dimensions**

A user defined dimension (UDD) is a means of extension for an existing fact. These dimensions have a foreign key reference to a fact; however no out-of-box ETL is delivered. Customers can define an ODI ETL process to populate these dimensions with the source data as per their requirement. Each fact is provided with two such user defined dimensions. For details about extending using UDDs, see the *Oracle Utilities Analytics Developer's Guide*.

All user defined dimensions have the same structure. The only technical difference is the column name of the primary key, which follows the pattern of using the fact for which it is linked to.

Below is the structure of the Fields table which is common for all user defined dimensions.

Target Field	Description	
Surrogate Key		
<fact_name_prefix>_UDDn_KEY</fact_name_prefix>	<fact name=""> User Defined Dimension n Dimension Surrogate Key</fact>	
For example: The surrogate key for Asset Location UDD is ASSET_LOC_UDD1_KEY	For example: Asset Location User Defined Dimension 1 Dimension Surrogate Key	
Natural Keys		
UDD1_CD	User Defined Dimension 1 Code	
Attributes		
UDD1_DESCR	User Defined Dimension 1 Description	
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	
UDL1_CD	User Defined Field Long 1 Code	
UDL1_DESCR	User Defined Field Long 1 Description	
UDL2_CD	User Defined Field Long 2 Code	
UDL2_DESCR	User Defined Field Long 2 Description	

Target Field	Description
UDL3_CD	User Defined Field Long 3 Code
UDL3_DESCR	User Defined Field Long 3 Description
UDL4_CD	User Defined Field Long 4 Code
UDL4_DESCR	User Defined Field Long 4 Description
UDL5_CD	User Defined Field Long 5 Code
UDL5_DESCR	User Defined Field Long 5 Description
COMMENT1	Comment 1
COMMENT2	Comment 2
COMMENT3	Comment 3
COMMENT4	Comment 4
COMMENT5	Comment 5
Data Load Attributes	
EFF_START_DTTM	Effective Start Date/Time
EFF_END_DTTM	Effective End Date/Time
DATA_LOAD_DTTM	Data Load Date/Time
DATA_SOURCE_IND	Data Source Indicator
JOB_NBR	Job Number

## **Asset Location UDD1 Dimension**

Property	Value
Target Table	CD_ASSET_LOC_UDD1
Table Type	Dimension
SCD Type	Type 2

## **Asset Location UDD2 Dimension**

Property	Value
Target Table	CD_ASSET_LOC_UDD2
Table Type	Dimension
SCD Type	Type 2

## **Asset Location UDD2 Dimension**

Property	Value
Target Table	CD_ASSET_LOC_UDD2
Table Type	Dimension
SCD Type	Type 2

## **Operational Device UDD1 Dimension**

Property	Value
Target Table	CD_OPR_DEVICE_UDD1
Table Type	Dimension
SCD Type	Type 2

## **Operational Device UDD2 Dimension**

Property	Value
Target Table	CD_OPR_DEVICE_UDD2
Table Type	Dimension
SCD Type	Type 2

# **Operational Device Snapshot UDD1 Dimension**

Property	Value	
Target Table	CD_OPR_DEVICE_SNAP_UDD1	
Table Type	Dimension	
SCD Type	Type 2	

## **Operational Device Snapshot UDD2 Dimension**

Property	Value	
Target Table	CD_OPR_DEVICE_SNAP_UDD2	
Table Type	Dimension	
SCD Type	Type 2	

# **Service History UDD1 Dimension**

Property	Value
Target Table	CD_SERVICE_HIST_UDD1
Table Type	Dimension
SCD Type	Type 2

# **Service History UDD2 Dimension**

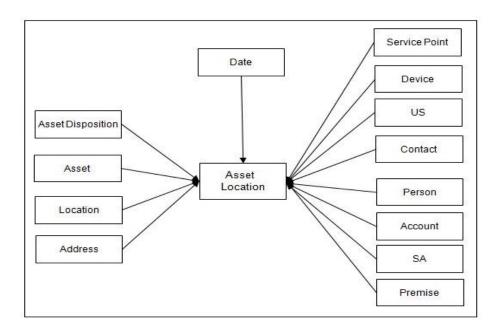
Property	Value
Target Table	CD_SERVICE_HIST_UDD2
Table Type	Dimension
SCD Type	Type 2

## **Facts**

#### **Asset Location Fact**

The Asset Location fact is populated with the asset dispositions of all assets from the Oracle Utilities Operational Device Management system. The assets are captured along their life cycle, when they move through various dispositions. The measures captured in this fact include the time spent in prior disposition, an indicator for failure, and the time since last failure.

#### **Entity Relationship Diagram**



Property Value	
Target Table Name	CF_ASSET_LOC
Table Type	Fact
Fact Type	Accumulation
Source System Driver Table	W1_ASSET_NODE
ODI Package Name	B1_PKG_CF_ASSET_LOC
ETL View Name	B1_F_ASSET_LOC_VW
Materialized View Name	B1_ASSET_LOC_MON_MV1

Target Field	OBIEE Field	Source Field	Transformation Logic
Surrogate Key			
ASSET_LOC_KEY	Operational Device Snapshot Fact Surrogate Key		This field is populated from the B1_ASSET_LOC_SEQ sequence.
Natural Keys			
SRC_ASSET_ID	Source Asset ID	W1_ASSET_NODE.ASSE T_ID	
Measures			
PRIOR_DISP_DUR	Days in Prior Disposition		This field is populated as the difference (in days) between the day when the asset entered current disposition and the day when it entered the previous disposition.
DUR_LAST_FAIL	Months Since Last Failure	F1_MST_CONFIG.MST_ CONFIG_DATA	This field is only populated if the asset disposition was marked with failure.
		W1_ASSET_NODE.FAIL URE_FLG	It is calculated as the difference
		W1_ASSET_NODE.EFF_ DTTM	(in months) since the last failure (or if there is no prior failure, it should be calculated from the earliest disposition).
FACT_CNT	Count		This field is populated with the standard value of '1'.
	Installed		This is the number of devices that are installed at customer locations.
	Received Devices		This is the number of devices that are in receipt. These devices are tested for usability before installing them at customer locations.
	Rejections		This is the number of devices that are rejected during an inspection.
Degenerate Dimensions			
FAILED_IND	Failed Indicator	F1_MST_CONFIG.MST_ CONFIG_DATA	This indicator is set to 1 if the asset has a failure when it
		W1_ASSET_NODE.FAIL URE_FLG	moved to this disposition. The definition of an asset's failure is configured via "Asset Failure Parameters" in the BI Extract Parameters in ODM.

Target Field	OBIEE Field	Source Field	Transformation Logic
DISP_DTTM	Disposition Date/Time	W1_ASSET_NODE.EFF_ DTTM	This is the disposition date/time of the asset's current disposition.
PRIOR_DISP_DTTM	Prior Disposition Date/ Time	W1_ASSET_NODE.EFF_ DTTM	This is the disposition date/time of the asset's prior disposition.
Foreign Keys			
ASSET_DISP_KEY	Asset Disposition Dimension Surrogate Key	W1_ASSET_NODE.ASSE T_DPOS_FLG W1_ASSET_NODE.ATTC H_TO_ASSET_ID	This field is populated based on the asset's current disposition. If it is a component and its current disposition is "Attached", its disposition will follow the disposition of the asset it is currently attached to.
PRIOR_ASSET_DISP_ KEY	Prior Disposition Dimension Surrogate Key		This field is populated based on the prior disposition of the asset. If it is a component and its current disposition is "Attached", its disposition will follow the disposition of the asset it is currently attached to.
UTIL_ASSET_KEY	Utility Asset Dimension Surrogate Key	W1_ASSET_NODE.ASSE T_ID	
ATTACHED_TO_ASSET_ KEY	Utility Asset Dimension Surrogate Key	W1_ASSET_NODE.ATTC H_TO_ASSET_ID	
LOCATION_KEY	Location Dimension Surrogate Key	W1_ASSET_NODE.NOD E_ID	This field is populated based on the asset's current location. If it is a component and its current disposition is "Attached", its disposition will follow the disposition of the asset it is currently attached to
PRIOR_LOCATION_KEY	Prior Location Dimension Surrogate Key	W1_ASSET_NODE.NOD E_ID	This field is populated based on the asset's prior location. It it is a component and its current disposition is "Attached", its disposition will follow the disposition of the asset it is currently attached to
ADDR_KEY	Address Dimension Surrogate Key	W1_ASSET_NODE.NOD E_ID	The source for this column wil be the asset's current location.
SP_KEY	Service Point Dimension Surrogate Key	W1_NODE_IDENTIFIE R.W1_ID_VALUE	This field is populated only for joint ODM-MDM integration. It is populated using the MDM SP natural key stored in the ODM system.

Target Field	OBIEE Field	Source Field	Transformation Logic
MTR_DEVICE_KEY	Device Dimension Surrogate Key		This field is populated only for joint ODM-MDM integration. It is populated by deriving the MDM device that is linked to the MDM SP natural key stored in the ODM system.
US_KEY	Usage Subscription Dimension Surrogate Key		This field is populated only for joint ODM-MDM integration. It is populated by deriving the MDM usage subscription that is linked to the MDM SP natural key stored in the ODM system.
CONTACT_KEY	Contact Dimension Surrogate Key		This field is populated only for joint ODM-MDM integration. It is populated by deriving the MDM contact that is linked to the MDM SP natural key stored in the ODM system.
PER_KEY	Person Dimension Surrogate Key		This field is populated only for joint ODM-MDM-CCB integration. It is populated by deriving the CCB person that is linked to the MDM SP natural key stored in the ODM system.
ACCT_KEY	Account Dimension Surrogate Key		This field is populated only for joint ODM-MDM-CCB integration. It is populated by deriving the CCB account that is linked to the MDM SP natural key stored in the ODM system.
SA_KEY	Service Agreement Dimension Surrogate Key		This field is populated only for joint ODM-MDM-CCB integration. It is populated by deriving the CCB SA that is linked to the MDM SP natural key stored in the ODM system.
PREM_KEY	Premise Dimension Surrogate Key		This field is populated only for joint ODM-MDM-CCB integration. It is populated by deriving the CCB premise that is linked to the MDM SP natural key stored in the ODM system.
DISP_DATE_KEY	Disposition Date Dimension Surrogate Key		
DISP_TIME_KEY	Disposition Time Dimension Surrogate Key		

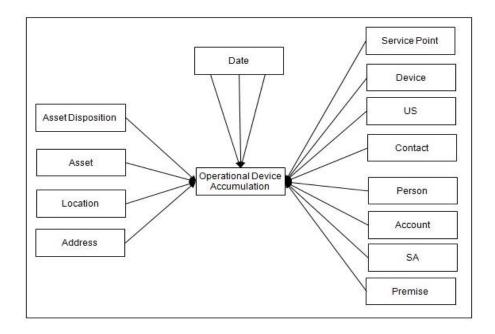
Target Field	OBIEE Field	Source Field	Transformation Logic
PRIOR_DISP_DATE_KEY	Prior Disposition Date Dimension Surrogate Key		
PRIOR_DISP_TIME_KEY	Prior Disposition Time Dimension Surrogate Key		
ASSET_LOC_UDD1_KEY	Asset Location User Defined Dimension 1 Surrogate Key		
ASSET_LOC_UDD2_KEY	Asset Location User Defined Dimension 2 Surrogate Key		
User Defined Attributes			
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		

Target Field	OBIEE Field	Source Field	Transformation Logic
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		
Data Load Attributes			
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.

# **Operational Device Fact**

The Operational Device fact accumulates all operational devices (assets) from the Oracle Utilities Operational Device Management system. The fact also captures data about the most recent inspection pass and failure events.

## **Entity Relationship Diagram**



Property	Value
Target Table Name	CF_OPR_DEVICE
Table Type	Fact
Fact Type	Accumulation
Driver Table	W1_ASSET
ODI Package Name	B1_PKG_CF_OPR_DEVICE
ETL View Name	B1_F_OPR_DEVICE_VW
Materialized View Name	B1_OPR_DEVICE_MON_MV1
	B1_OPR_DEVICE_MON_TOPX_MV1

Target Field	OBIEE Field	Source Field	Transformation Logic
Surrogate Key			
OPR_DEVICE_KEY	Operational Device Surrogate Key		This field is populated from the B1_OPR_DEVICE_ACCUM _SEQ sequence.
Natural Keys			
SRC_ASSET_ID	Source Asset ID	W1_ASSET.ASSET_ID	
Measures			
FACT_CNT	Count		This field is populated with the standard value of '1'.
	Installed		This is the number of devices that are installed at customer locations.
Degenerate Dimensions			
WNTY_EXP_DTTM	Warranty Expiration Date/ Time	W1_ASSET_CHAR.ADH OC_CHAR_VAL	The warranty expiration date/ time for an asset which will be configured as a characteristic value.
RCT_INS_PASS_DTTM	Recent Inspection Pass Date/Time	W1_SVC_HIST.ASSET_ID W1_SVC_HIST_TYPE.SV C_HIST_CATEGORY_FL G W1_SVC_HIST_CHAR.EF FDT	This field is populated with the effective date/time of the most recent service history with category of 'Inspection', and a passing 'Operational Status'.
		W1_SVC_HIST_CHAR.C HAR_TYPE_CD W1_SVC_HIST_CHAR.C HAR_VAL	

Target Field	OBIEE Field	Source Field	Transformation Logic
RCT_INS_FAIL_DTTM	Recent Inspection Fail Date/Time	W1_SVC_HIST.ASSET_ID	This field is populated with the effective date/time of the most
		W1_SVC_HIST_TYPE.SV C_HIST_CATEGORY_FL G	recent service history with category of 'Inspection', and a failed 'Operational Status'.
		W1_SVC_HIST_CHAR.EF FDT	
		W1_SVC_HIST_CHAR.C HAR_TYPE_CD	
		W1_SVC_HIST_CHAR.C HAR_VAL	
Foreign Keys			
ASSET_DISP_KEY	Asset Disposition Dimension Surrogate Key	W1_ASSET_NODE.ASSE T_DPOS_FLG	This field is populated based on the asset's current disposition.
		W1_ASSET_NODE.EFF_ DTTM	If it is a component and its current disposition is "Attached", its disposition will follow the disposition of the asset it is currently attached to.
		W1_ASSET_NODE.ATTC H_TO_ASSET_ID	
OPR_DEVICE_D_KEY	Operational Device Dimension Surrogate Key	W1_ASSET.ASSET_ID	
UTIL_ASSET_KEY	Utility Asset Dimension Surrogate Key	W1_ASSET.ASSET_ID	This field is populated with the foreign key of the Utility Asset dimension based on the asset associated.
ATTACHED_TO_ASSET_ KEY	Utility Asset Dimension Surrogate Key	W1_ASSET_NODE.ATTC H_TO_ASSET_ID	
LOCATION_KEY	Location Dimension Surrogate Key	W1_ASSET_NODE.NOD E_ID	This field is populated based on the asset's current location.
		W1_ASSET_NODE.EFF_ DTTM	If it is a component and its current disposition is
		W1_ASSET_NODE.ATTC H_TO_ASSET_ID	"Attached", its disposition will follow the disposition of the asset it is currently attached to.
ADDR_KEY	Address Dimension Surrogate Key	W1_ASSET_NODE.NOD E_ID	This field is populated based on the same logic used for the asset's location. There is no separate entity for address in the ODM system. The source for this column will be the asset's location.

Target Field	OBIEE Field	Source Field	Transformation Logic
SP_KEY	Service Point Dimension Surrogate Key	W1_NODE_IDENTIFIE R.W1_ID_VALUE	This field is populated only for joint ODM-MDM integration. It is populated using the MDM SP natural key stored in the ODM system.
MTR_DEVICE_KEY	Device Dimension Surrogate Key		This field is populated only for joint ODM-MDM integration. It is populated by deriving the MDM device that is linked to the MDM SP natural key stored in the ODM system.
US_KEY	Usage Subscription Dimension Surrogate Key		This field is populated only for joint ODM-MDM integration. It is populated by deriving the MDM usage subscription that is linked to the MDM SP natural key stored in the ODM system.
CONTACT_KEY	Contact Dimension Surrogate Key		This field is populated only for joint ODM-MDM integration. It is populated by deriving the MDM contact that is linked to the MDM SP natural key stored in the ODM system.
PER_KEY	Person Dimension Surrogate Key		This field is populated only for joint ODM-MDM-CCB integration. It is populated by deriving the CCB person that is linked to the MDM SP natural key stored in the ODM.
ACCT_KEY	Account Dimension Surrogate Key		This field is populated only for joint ODM-MDM-CCB integration. It is populated by deriving the CCB account that is linked to the MDM SP natural key stored in the ODM system.
SA_KEY	Service Agreement Dimension Surrogate Key		This field is populated only for joint ODM-MDM-CCB integration. It is populated by deriving the CCB SA that is linked to the MDM SP natural key stored in the ODM system
PREM_KEY	Premise Dimension Surrogate Key		This field is populated only for joint ODM-MDM-CCB integration. It is populated by deriving the CCB premise that is linked to the MDM SP natural key stored in the ODM system.

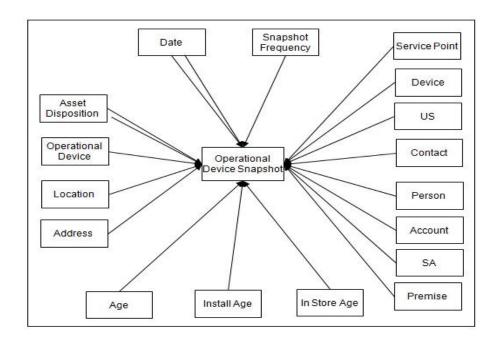
Target Field	OBIEE Field	Source Field	Transformation Logic
WNTY_EXP_DATE_KEY	Warranty Expiration Date Dimension Surrogate Key		
WNTY_EXP_TIME_KEY	Warranty Expiration Time Dimension Surrogate Key		
RCT_INS_PASS_DATE_ KEY	Recent Inspection Pass Date Dimension Surrogate Key		
RCT_INS_PASS_TIME_ KEY	Recent Inspection Pass Time Dimension Surrogate Key		
RCT_INS_FAIL_DATE_ KEY	Recent Inspection Fail Date Dimension Surrogate Key		
RCT_INS_FAIL_TIME_ KEY	Recent Inspection Fail Time Dimension Surrogate Key		
OPR_DEVICE_UDD1_ KEY	Operation Device Snapshot User Defined Dimension 1 Surrogate Key		
OPR_DEVICE_UDD2_ KEY	Operation Device Snapshot User Defined Dimension 2 Surrogate Key		
User Defined Attributes			
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		

Target Field	OBIEE Field	Source Field	Transformation Logic
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		
Data Load Attributes			
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 DS 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.

## **Operational Device Snapshot Fact**

The Operational Device Snapshot fact provides a snapshot of operational devices (assets) in the Oracle Utilities Operational Device Management system. The fact calculates the ages for an asset, along with its failure and warranty status. The identification of operational devices will be based on the list of business objects (BOs) configured in the Master Configuration for BI extract parameters.

#### **Entity Relationship Diagram**



Property	Value
Target Table Name	CF_OPR_DEVICE_SNAP
Table Type	Fact
Fact Type	Snapshot
Driver Table	W1_ASSET
ODI Package Name	B1_PKG_CF_OPR_DEVICE_SNAP
ETL View Name	B1_F_OPR_DEVICE_SNAP_VW
Materialized View Name	B1_OPR_DEVICE_SNAP_MON_MV1
	B1_OPR_DEVICE_SNP_MON_TOPX_MV 1

Target Field	OBIEE Field	Source Field	Transformation Logic
Surrogate Key			
OPR_DEVICE_SNAP_ KEY	Operational Device Snapshot Fact Key		
Natural Keys			
SRC_ASSET_ID	Source Asset ID	W1_ASSET.ASSET_ID	
Measures			
AGE	Age in Days	W1_ASSET_NODE.EFF_ DTTM	This field is calculated as the difference, in days, between the effective date of the first asset disposition and the end date of the current snapshot. The value is stored in days.
INSTALL_AGE	Install Age in Days	W1_ASSET_NODE.ASSE T_DPOS_FLG W1_ASSET_NODE.EFF_	This field is populated only if the asset is currently installed. It is calculated as the difference between the effective date of
		DTTM W1_ASSET_NODE.ATTC H_TO_ASSET_ID	the installed disposition and the end date of the current snapshot. The value is stored in days.
INSTORE_AGE	Instore Age in Days	W1_ASSET_NODE.ASSE T_DPOS_FLG	This field is populated only if the asset is currently in storage. It is calculated as the
		W1_ASSET_NODE.EFF_ DTTM	difference, in days, between the effective date of the in-store disposition and the end date of
		W1_ASSET_NODE.ATTC H_TO_ASSET_ID	the current snapshot. The value is stored in days.
FACT_CNT	Count		This field is populated with the standard value of '1'.
Devices In Storage  Devices In Warranty	Devices In Storage		This is the number of devices that are currently in storage.
	Devices In Warranty		This is the number of devices that are currently in warranty.
	Installed Devices		This is the number of devices that are currently installed at customer locations.
	Repair		This is the number of devices that are currently in repair.
	Retired Devices		This is number of devices that are retired.

Target Field	OBIEE Field	Source Field	Transformation Logic
Degenerate Dimensions			
FAILED_ONCE_IND	Failed Once Indicator	F1_MST_CONFIG.MST_ CONFIG_DATA	This indicator is set if the asset has failed at least once during the snapshot period. The asset
		W1_ASSET_NODE.FAIL URE_FLG	failure condition to be considered will have to be defined in 'Extract Parameters'
		W1_ASSET_NODE.EFF_ DTTM	in the BI Configuration Portal available in the ODM system.
WNTY_EXP_IND	Warranty Expired Indicator		This indicator is set if the warranty date is earlier than or same as the end date of the snapshot period.
SNAP_TYPE_CD	Snapshot Frequency Type		
SNAPSHOT_DT	Snapshot Date		
WNTY_EXP_DTTM	Warranty Expiration Date/ Time	W1_ASSET_CHAR.ADH OC_CHAR_VAL	This field is populated with the warranty expiration date/time of the asset, which is configured as a characteristic on the asset in ODM (characteristic type is "Warranty Expiration Date [W2-WEXDT]").
Foreign Keys			
ASSET_DISP_START_ KEY	Asset Disposition Start Dimension Surrogate Key	W1_ASSET_NODE.ASSE T_DPOS_FLG	This field is populated based on the asset disposition that is effective at the start of the
		W1_ASSET_NODE.EFF_ DTTM	snapshot period. If it is a component and its current disposition is "Attached", its
		W1_ASSET_NODE.ATTC H_TO_ASSET_ID	disposition will follow the disposition of the asset it is currently attached to.
ASSET_DISP_END_KEY	Asset Disposition End Dimension Surrogate Key	W1_ASSET_NODE.ASSE T_DPOS_FLG	This field is populated based on the asset disposition that will be effective at the end of
		W1_ASSET_NODE.EFF_ DTTM	the snapshot period. If it is a component and its current disposition is "Attached", its
		W1_ASSET_NODE.ATTC H_TO_ASSET_ID	disposition will follow the disposition of the asset it is currently attached to.
OPR_DEVICE_KEY	Operational Device Dimension Surrogate Key	W1_ASSET.ASSET_ID	This field is populated with the foreign key of the Asset table based on the asset associated.

Target Field	OBIEE Field	Source Field	Transformation Logic
UTIL_ASSET_KEY	Utility Asset Dimension Surrogate Key	W1_ASSET.ASSET_ID	This field is populated with the foreign key of the Asset table based on the asset associated.
ATTACHED_TO_ASSET_ KEY	Utility Asset Dimension Surrogate Key	W1_ASSET_NODE.ATTC H_TO_ASSET_ID	
LOCATION_KEY	Location Dimension Surrogate Key	W1_ASSET_NODE.NOD E_ID W1_ASSET_NODE.EFF_	This field is populated based on the location where the asset is at the end of the snapshot period. If it is a component
		WI_ASSEI_NODE.EFF_ DTTM	and its current disposition is "Attached", its location will be
		W1_ASSET_NODE.ATTC H_TO_ASSET_ID	the location of the asset where it is attached.
ADDR_KEY	Address Dimension Surrogate Key	W1_ASSET_NODE.NOD E_ID	The source for this column will be the asset's location.
ASSET_AGE_KEY	Asset Age Dimension Surrogate Key	W1_ASSET.ASSET_TYPE _CD	This field is populated with the appropriate dimension key based on the matching age bucket record for asset's age.
ASSET_INSTALL_AGE_ KEY	Asset Install Age Dimension Surrogate Key	W1_ASSET.ASSET_TYPE _CD	This field is populated with the appropriate dimension key based on the matching age bucket record for asset's install age.
ASSET_INSTORE_AGE_ KEY	Asset Instore Age Dimension Surrogate Key	W1_ASSET.ASSET_TYPE _CD	This field is populated with the appropriate dimension key based on the matching age bucket record for asset's instorage age.
SP_KEY	Service Point Dimension Surrogate Key	W1_NODE_IDENTIFIE R.W1_ID_VALUE	This field is populated by deriving the MDM usage subscription that is linked to the MDM SP natural key stored in the ODM system.
MTR_DEVICE_KEY	Device Dimension Surrogate Key		This field is populated only if the ODM-MDM integration exists for the Service Point entity.
US_KEY	Usage Subscription Dimension Surrogate Key		This field is populated only if the ODM-MDM integration exists for the Service Point entity.
CONTACT_KEY	Contact Dimension Surrogate Key		This field is populated only if the ODM-MDM integration exists for the Service Point entity.

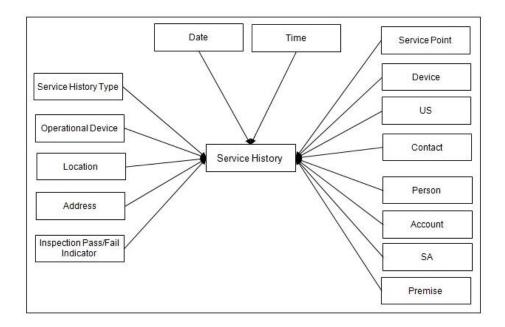
Target Field	OBIEE Field	Source Field	Transformation Logic
PER_KEY	Person Dimension Surrogate Key		This field is populated only if the ODM-MDM integration exists for the Service Point entity.
ACCT_KEY	Account Dimension Surrogate Key		This field is populated only if the ODM-MDM integration exists for the Service Point entity.
SA_KEY	Service Agreement Dimension Surrogate Key		This field is populated only if the ODM-MDM integration exists for the Service Point entity.
PREM_KEY	Premise Dimension Surrogate Key		This field is populated only if the ODM-MDM integration exists for the Service Point entity.
DATE_KEY	Date Dimension Surrogate Key		
WNTY_EXP_DATE_KEY	Warranty Expiration Date Dimension Surrogate Key		
WNTY_EXP_TIME_KEY	Warranty Expiration Time Dimension Surrogate Key		
OPR_DEVICE_SNAP_UD D1_KEY	Operation Device Snapshot User Defined Dimension 1 Surrogate Key		
OPR_DEVICE_SNAP_UD D2_KEY	Operation Device Snapshot User Defined Dimension 2 Surrogate Key		
User Defined Attributes			
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		

Target Field	OBIEE Field	Source Field	Transformation Logic
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		
Data Load Attributes			
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.

# **Service History Fact**

The Service History fact accumulates the maintenance, inspection, failure, and downtime service histories created in the Oracle Utilities Work and Asset Management source system.

## **Entity Relationship Diagram**



Property	Value
Target Table Name	CF_SERVICE_HIST
Table Type	Fact
Fact Type	Accumulation
Source System Driver Table	W1_SVC_HIST
ODI Package Name	B1_PKG_CF_SERVICE_HIST
ETL View Name	B1_F_SERVICE_HIST_VW
Materialized View Name	B1_SERVICE_HIST_MON_MV1 B1_SERVICE_HIST_MON_MV2 B1_SERVICE_HIST_MON_TOPX_MV1 B1_SERVICE_HIST_MON_TOPX_MV2

Target Field	Description	Source Field	Transformation Logic
Surrogate Key			
SERVICE_HIST_KEY	Service History Fact Key		This field is populated from the B1_SERVICE_HIST_SEQ sequence.
Natural Keys			
SRC_SERVICE_HIST_ID	Source Service History ID	W1_SVC_HIST.SVC_HIST _ID	
Measures			
PLANNED_DOWNTIME_ DUR	Planned Downtime Duration		This field is populated with the planned downtime duration if the service history is categorized as Downtime or Failure.
			If it's a Failure, the downtime information is retrieved from its corresponding downtime Service History. The service history is planned if it has a characteristic of type Downtime Reason with a value of Planned.
UNPLANNED_DOWNTI ME_DUR	Unplanned Downtime Duration		This field is populated with the planned downtime duration if the service history is categorized as Downtime or Failure.
			If it's a Failure, the downtime information is retrieved from its corresponding downtime Service History. The service history is planned if it has a characteristic of type Downtime Reason with a value of Planned.
COST	Cost		This field is populated with the cost incurred for the service history's activity taking into consideration the cost distribution of the service history's asset in the activity.
FACT_CNT	Count		This field is populated with the standard value of '1'.

Target Field	Description	Source Field	Transformation Logic
Degenerate Dimensions			
SERVICE_HIST_END_ DTTM	Service History End Date/ Time	W1_SVC_HIST.END_DT TM	
SERVICE_HIST_START_ DTTM	Service History Start Date/ Time	W1_SVC_HIST.BO_DATA _AREA	<b>Note</b> : This field is populated only for Downtime service histories.
SERVICE_HIST_DT*TM	Service History Date/Time	W1_SVC_HIST.EFF_DTT M	
Foreign Keys			
SERVICE_HIST_END_DT _KEY	Service History End Date Dimension Surrogate Key	W1_SVC_HIST.END_DT TM	This field is populated with the foreign key of the Service History End Date dimension based on the end date of the service history.
SERVICE_HIST_END_TM _KEY	Service History End Time Dimension Surrogate Key	W1_SVC_HIST.END_DT TM	This field is populated with the foreign key of the Service History End Time dimension based on the end tine of the service history.
SERVICE_HIST_START_ DT_KEY	Service History Start Date Dimension Surrogate Key	W1_SVC_HIST.BO_DATA _AREA	This field is populated with the foreign key of the Service History Start Date dimension based on the start date of the service history.
SERVICE_HIST_START_ TM_KEY	Service History Start Time Dimension Surrogate Key	W1_SVC_HIST.BO_DATA _AREA	This field is populated with the foreign key of the Service History Start Time dimension based on the start time of the service history.
SERVICE_HIST_D_KEY	Service History Dimension Surrogate Key		This field is populated with the foreign key of the Service History dimension based on the asset associated with the service history.
WO_KEY	Work Order Dimension Surrogate Key	W1_ACTIVITY.WO_ID	This field is populated with the foreign key of the Work Order dimension based on the work order ID of the activity associated with the service history.
WO_ACTIVITY_KEY	Work Order Activity Dimension Surrogate Key	W1_SVC_HIST.ACT_ID	This field is populated with the Work Order Activity dimension based on the activity associated with the service history.

Target Field	Description	Source Field	Transformation Logic
OWNING_ORG_KEY	Owning Organization Dimension Surrogate Key	W1_SVC_HIST. OWNING_ACCESS_GRP _CD	This field is populated from the Owning Organization dimension based on the owning access group.
W_PLANNER_KEY	Planner Dimension Surrogate Key	W1_ACTIVITY.PLANNE R_CD	This field is populated with the foreign key from the Planner dimension based on the planner code associated with the activity.
CREW_KEY	Crew Dimension Surrogate Key		This field is populated with the foreign key from the Crew dimension based on the crew ID associated with the activity.
SERVICE_HIST_TYPE_ KEY	Service History Type Dimension Surrogate Key	W1_SVC_HIST.SVC_HIST _TYPE_CD	This field is populated with the foreign key from the Service History Type dimension based on the service history type code associated with the service history.
OPR_DEVICE_KEY	Operational Device Dimension Surrogate Key	W1_SVC_HIST.ASSET_ID	This field is populated from the Operational Device table.
		W1_SVC_HIST.EFF_DTT M	Note: It is always populated with '0'.
UTIL_ASSET_KEY	Utility Asset Dimension Surrogate Key	W1_SVC_HIST.ASSET_ID	This field is populated with the foreign key of the Utility Asset dimension based on the asset associated with this activity.
		W1_SVC_HIST.EFF_DTT M	
LOCATION_KEY	Location Dimension Surrogate Key	W1_SVC_HIST.EFF_DTT M	This field is populated based on the current location of the asset associated with the Service History.
		W1_ASSET_NODE.NOD E_ID	
		W1_ASSET_NODE.EFF_ DTTM	If it is a component and its current disposition is "Attached", its disposition will
		W1_ASSET_NODE.ATTC H_TO_ASSET_ID	follow the disposition of the asset it is currently attached to
ADDR_KEY	Address Dimension Surrogate Key	W1_ASSET_NODE.NOD E_ID	The source for this column will be the asset's location.

Target Field	Description	Source Field	Transformation Logic
ASSET_INSP_STATUS_ KEY	Asset Inspection Status Dimension Surrogate Key	W1_SVC_HIST_TYPE.SV C_HIST_CATEGORY_FL G	This field is populated only for Service Histories of Inspection Category. It is populated based on the characteristic value
		W1_SVC_HIST_CHAR.C HAR_TYPE_CD	configured for the 'Operational Status' characteristic type.
		W1_SVC_HIST_CHAR.C HAR_VAL	If no value is configured, then the default value of 'NA' is mapped.
SP_KEY	Service Point Dimension Surrogate Key	W1_NODE_IDENTIFIE R.W1_ID_VALUE	This field is not used for Oracle Utilities Work and Asset Management source product.
MTR_DEVICE_KEY	Device Dimension Surrogate Key		This field is not used for Oracle Utilities Work and Asset Management source product.
US_KEY	Usage Subscription Dimension Surrogate Key		This field is not used for Oracle Utilities Work and Asset Management source product.
CONTACT_KEY	Contact Dimension Surrogate Key		This field is not used for Oracle Utilities Work and Asset Management source product.
PER_KEY	Person Dimension Surrogate Key		This field is not used for Oracle Utilities Work and Asset Management source product.
ACCT_KEY	Account Dimension Surrogate Key		This field is not used for Oracle Utilities Work and Asset Management source product.
SA_KEY	Service Agreement Dimension Surrogate Key		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		This field is not used for Oracle Utilities Work and Asset Management source product.
SERVICE_HIST_DATE_K EY	Service History Date Dimension Surrogate Key		This field is populated with the foreign key of the Date dimension based on date associated with the service history.
SERVICE_HIST_TIME_K EY	Service History Time Dimension Surrogate Key		This field is populated with the foreign key of the Time dimension based on time associated with the service history.

Target Field	Description	Source Field	Transformation Logic
SERVICE_HIST_UDD1_K EY	Service History User Defined Dimension 1 Surrogate Key		
SERVICE_HIST_UDD2_K EY	Service History User Defined Dimension 2 Surrogate Key		
User Defined Attributes			
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		
Data Load Attributes			
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.