

Oracle Utilities Cloud Services

Database Changes Guide

For 25.4 Releases

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Oracle Utilities Cloud Services 25.4 Database Changes Guide

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Chapter 1

Cloud Services Database Changes Guide

Welcome to the Oracle Utilities Cloud Services Database Changes Guide. This document describes changes in the database in the 25.4 release of the following Oracle Utilities cloud services:

- [Oracle Utilities Billing Cloud Service](#)
- [Oracle Utilities Customer Care and Billing Cloud Service](#)
- [Oracle Utilities Customer Cloud Service](#)
- [Oracle Utilities Digital Asset Cloud Service](#)
- [Oracle Utilities Market Settlements Management Cloud Service](#)
- [Oracle Utilities Meter Solution Cloud Service](#)
- [Oracle Utilities Rate Cloud Service](#)
- [Oracle Utilities Work and Asset Cloud Service](#)

This document includes:

- [Cloud Services and Database Changes](#)
- [Customer-Related Database Changes](#)
- [Meter-Related Database Changes](#)
- [Work and Asset-Related Database Changes](#)
- [Application Framework Database Changes](#)

About New Tables and New Columns

New tables and columns listed in this document are associated with new features introduced in the 25.4 release of the above listed Oracle Utilities cloud services. For more information about new features introduced in this release, visit the [Oracle Cloud Update Readiness](#) application.

Note: The link above directs you to information about Oracle Utilities Customer Cloud Service. Use the links under **Energy and Water** in the left navigation panel to view information about other cloud services.

Cloud Services and Database Changes

This section outlines the database changes that apply to each of the following cloud services:

- [Billing Cloud Service](#)
- [Customer Care and Billing Cloud Service](#)
- [Customer Cloud Service](#)
- [Digital Asset Cloud Service](#)
- [Market Settlements Management Cloud Service](#)
- [Meter Solution Cloud Service](#)
- [Rate Cloud Service](#)
- [Work and Asset Cloud Service](#)

Billing Cloud Service

The following database changes apply to Oracle Utilities Billing Cloud Service:

- [Customer-Related Database Changes](#)
- [Meter-Related Database Changes](#)
- [Application Framework Database Changes](#)

Customer Care and Billing Cloud Service

The following database changes apply to Oracle Utilities Customer Care and Billing Cloud Service:

- [Customer-Related Database Changes](#)
- [Application Framework Database Changes](#)

Customer Cloud Service

The following database changes apply to Oracle Utilities Customer Cloud Service:

- [Customer-Related Database Changes](#)
- [Meter-Related Database Changes](#)
- [Work and Asset-Related Database Changes](#)
- [Application Framework Database Changes](#)

Digital Asset Cloud Service

The following database changes apply to Oracle Utilities Digital Asset Cloud Service:

- [Customer-Related Database Changes](#)
- [Meter-Related Database Changes](#)
- [Work and Asset-Related Database Changes](#)

- [Application Framework Database Changes](#)

Market Settlements Management Cloud Service

The following database changes apply to Oracle Utilities Market Settlements Management Cloud Service:

- [Meter-Related Database Changes](#)
- [Application Framework Database Changes](#)

Meter Solution Cloud Service

The following database changes apply to Oracle Utilities Meter Solution Cloud Service:

- [Meter-Related Database Changes](#)
- [Work and Asset-Related Database Changes](#)
- [Application Framework Database Changes](#)

Rate Cloud Service

The following database changes apply to Oracle Utilities Rate Cloud Service:

- [Customer-Related Database Changes](#)
- [Application Framework Database Changes](#)

Work and Asset Cloud Service

The following database changes apply to Oracle Utilities Work and Asset Cloud Service:

- [Work and Asset-Related Database Changes](#)
- [Application Framework Database Changes](#)

Chapter 2

Customer-Related Database Changes

This chapter provides lists of customer-related database changes in the 25.4 release of Oracle Utilities cloud services. This includes:

- [New Tables](#)
- [New Columns](#)
- [New Indexes](#)

New Tables

Table	Name	Description
C1_OUTAGE_EVT	Outage Event	Used to capture outage events
C1_OUTAGE_EVT_CHAR	Outage Event Characteristics	Used to store characteristic values related to outage events

New Columns

Table_Name	Column_Name	Data Type	Data Length
C1_OUTAGE_EVT	BO_STATUS_CD	CHAR	12
C1_OUTAGE_EVT	BO_XML_DATA_AREA	XML	1073741824
C1_OUTAGE_EVT	BUS_OBJ_CD	CHAR	30
C1_OUTAGE_EVT	EXT_EVENT_ID	VARC	254
C1_OUTAGE_EVT	ILM_ARCH_SW	CHAR	1
C1_OUTAGE_EVT	ILM_DT	DATE	10
C1_OUTAGE_EVT	IMP_CUST_NBR	NUMB	9,0

Table_Name	Column_Name	Data Type	Data Length
C1_OUTAGE_EVT	MESSAGE_REF	VARC	254
C1_OUTAGE_EVT	NT_XID_CD	CHAR	30
C1_OUTAGE_EVT	OTG_END_DTTM	DTTM	26
C1_OUTAGE_EVT	OTG_ERT_DTTM	DTTM	26
C1_OUTAGE_EVT	OTG_EVENT_ID	CHAR	14
C1_OUTAGE_EVT	OTG_START_DTTM	DTTM	26
C1_OUTAGE_EVT	OTG_TYPE_FLG	CHAR	4
C1_OUTAGE_EVT	UPD_DTTM	DTTM	26
C1_OUTAGE_EVT	VERSION	NUMB	5,0
C1_OUTAGE_EVT_CHAR	ADHOC_CHAR_VAL	VARC	254
C1_OUTAGE_EVT_CHAR	CHAR_TYPE_CD	CHAR	8
C1_OUTAGE_EVT_CHAR	CHAR_VAL	CHAR	16
C1_OUTAGE_EVT_CHAR	CHAR_VAL_FK1	VARC	50
C1_OUTAGE_EVT_CHAR	CHAR_VAL_FK2	VARC	50
C1_OUTAGE_EVT_CHAR	CHAR_VAL_FK3	VARC	50
C1_OUTAGE_EVT_CHAR	CHAR_VAL_FK4	VARC	50
C1_OUTAGE_EVT_CHAR	CHAR_VAL_FK5	VARC	50
C1_OUTAGE_EVT_CHAR	OTG_EVENT_ID	CHAR	14
C1_OUTAGE_EVT_CHAR	SEQ_NUM	NUMB	3,0
C1_OUTAGE_EVT_CHAR	SRCH_CHAR_VAL	VARC	50
C1_OUTAGE_EVT_CHAR	VERSION	NUMB	5,0
CI_CC	CC_SRC_FLG	CHAR	4
CI_CC	CC_SUMMARY	VARC	4000

New Indexes

Table_Name	Index_Name
C1_OUTAGE_EVT	C1T169P0
C1_OUTAGE_EVT	C1T169S1
C1_OUTAGE_EVT	C1T169S1
C1_OUTAGE_EVT_CHAR	C1T170P0

C1_OUTAGE_EVT_CHAR	C1T170S1
C1_PER_CONTDET	C1T009S3
CI_PER_PHONE	XM172S2
CI_PER	XM169S1

Chapter 3

Meter-Related Database Changes

This chapter provides lists of meter-related database changes in the 25.4 release of Oracle Utilities cloud services. This includes:

- [New Tables](#)
- [New Columns](#)
- [New Indexes](#)
- [Dropped Columns](#)

New Tables

Table	Name	Description
D1_DVC_ENTITY_GRP*	Device Entity Group	Used to define the relationship between a device and an entity group
D1_ENTITY_GRP*	Entity Group	Used to capture groups of entities (such as service points or devices)
D1_ENTITY_GRP_CHAR*	Entity Group Characteristics	Used to store characteristics related to a group of entities
D1_ENTITY_GRP_CRIT*	Entity Group Criteria	Used to store criteria used to define a group of entities
D1_ENTITY_GRP_CRIT_VAL*	Entity Group Criteria Value	Used to store criteria values used to define a group of entities
D1_ENTITY_GRP_L*	Entity Group Language	Used to store labels for the Entity Group table
D1_SP_ENTITY_GRP*	Service Point Entity Group	Used to define the relationship between a service point and an entity group

* Used by Digital Asset Cloud Service

New Columns

Table_Name	Column_Name	Data Type	Data Length
D1_DVC_ENTITY_GRP*	BO_DATA_AREA	CLOB	4000
D1_DVC_ENTITY_GRP*	D1_DEVICE_ID	CHAR	48
D1_DVC_ENTITY_GRP*	EFF_DTTM	DATE	7
D1_DVC_ENTITY_GRP*	ENTITY_GRP_CD	VARCHAR2	120
D1_DVC_ENTITY_GRP*	EXPIRATION_DTTM	DATE	7
D1_DVC_ENTITY_GRP*	VERSION	NUMBER	22
D1_ENTITY_GRP*	BO_DATA_AREA	CLOB	4000
D1_ENTITY_GRP*	BUS_OBJ_CD	CHAR	120
D1_ENTITY_GRP*	ENTITY_GRP_ASSGN_OPT_FLG	CHAR	16
D1_ENTITY_GRP*	ENTITY_GRP_CATEGORY	VARCHAR2	1016
D1_ENTITY_GRP*	ENTITY_GRP_CD	VARCHAR2	120
D1_ENTITY_GRP*	ENTITY_GRP_DEACT_OPT_FLG	CHAR	16
D1_ENTITY_GRP*	ENTITY_GRP_STAT_FLG	CHAR	16
D1_ENTITY_GRP*	VERSION	NUMBER	22
D1_ENTITY_GRP_CHAR*	ADHOC_CHAR_VAL	VARCHAR2	1016
D1_ENTITY_GRP_CHAR*	CHAR_TYPE_CD	CHAR	32
D1_ENTITY_GRP_CHAR*	CHAR_VAL	CHAR	64
D1_ENTITY_GRP_CHAR*	CHAR_VAL_FK1	VARCHAR2	200
D1_ENTITY_GRP_CHAR*	CHAR_VAL_FK2	VARCHAR2	200
D1_ENTITY_GRP_CHAR*	CHAR_VAL_FK3	VARCHAR2	200
D1_ENTITY_GRP_CHAR*	CHAR_VAL_FK4	VARCHAR2	200
D1_ENTITY_GRP_CHAR*	CHAR_VAL_FK5	VARCHAR2	200
D1_ENTITY_GRP_CHAR*	ENTITY_GRP_CD	VARCHAR2	120
D1_ENTITY_GRP_CHAR*	SEQ_NUM	NUMBER	22
D1_ENTITY_GRP_CHAR*	SRCH_CHAR_VAL	VARCHAR2	200
D1_ENTITY_GRP_CHAR*	VERSION	NUMBER	22
D1_ENTITY_GRP_CRIT*	CRITERIA_SEQ_NUM	NUMBER	22
D1_ENTITY_GRP_CRIT*	ENTITY_GRP_CD	VARCHAR2	120
D1_ENTITY_GRP_CRIT*	GRP_CRITERIA_SRC	VARCHAR2	1016
D1_ENTITY_GRP_CRIT*	VERSION	NUMBER	22

Table_Name	Column_Name	Data Type	Data Length
D1_ENTITY_GRP_CRIT_VAL*	BO_DATA_AREA	CLOB	4000
D1_ENTITY_GRP_CRIT_VAL*	CRITERIA_SEQ_NUM	NUMBER	22
D1_ENTITY_GRP_CRIT_VAL*	CRITERIA_VALUE	CHAR	200
D1_ENTITY_GRP_CRIT_VAL*	CRITERIA_VAL_SEQ_NUM	NUMBER	22
D1_ENTITY_GRP_CRIT_VAL*	ENTITY_GRP_CD	VARCHAR2	120
D1_ENTITY_GRP_CRIT_VAL*	GRP_CRITERIA_SRC	VARCHAR2	1016
D1_ENTITY_GRP_CRIT_VAL*	VERSION	NUMBER	22
D1_ENTITY_GRP_L*	DESCR100	VARCHAR2	400
D1_ENTITY_GRP_L*	DESCRLONG	VARCHAR2	16000
D1_ENTITY_GRP_L*	ENTITY_GRP_CD	VARCHAR2	120
D1_ENTITY_GRP_L*	LANGUAGE_CD	CHAR	12
D1_ENTITY_GRP_L*	VERSION	NUMBER	22
D1_MEASR_COMP_TYPE	IMD_HANDLING_FLG	CHAR	16
D1_MSRMT	PREVEE_MSRMT_COND_FLG	CHAR	24
D1_MSRMT	PREVEE_MSRMT_VAL	NUMBER	22
D1_MSRMT	PREVEE_READING_COND_FLG	CHAR	24
D1_MSRMT	PREVEE_READING_VAL	NUMBER	22
D1_MSRMT	USER_ID	CHAR	32
D1_MSRMT_AUDIT	AFTER_COMBINED_MULTIPLIER	NUMBER	22
D1_MSRMT_AUDIT	AFTER_MSRMT_COND_FLG	CHAR	24
D1_MSRMT_AUDIT	AFTER_MSRMT_USE_FLG	CHAR	16
D1_MSRMT_AUDIT	AFTER_MSRMT_VAL	NUMBER	22
D1_MSRMT_AUDIT	AFTER_PREVEE_MSRMT_COND_FLG	CHAR	24
D1_MSRMT_AUDIT	AFTER_PREVEE_MSRMT_VAL	NUMBER	22
D1_MSRMT_AUDIT	AFTER_PREVEE_READING_COND_FLG	CHAR	24
D1_MSRMT_AUDIT	AFTER_PREVEE_READING_VAL	NUMBER	22
D1_MSRMT_AUDIT	AFTER_PREV_MSRMT_DTTM	DATE	7
D1_MSRMT_AUDIT	AFTER_READING_COND_FLG	CHAR	24
D1_MSRMT_AUDIT	AFTER_READING_VAL	NUMBER	22
D1_MSRMT_AUDIT	BEFORE_COMBINED_MULTIPLIER	NUMBER	22
D1_MSRMT_AUDIT	BEFORE_MSRMT_COND_FLG	CHAR	24
D1_MSRMT_AUDIT	BEFORE_MSRMT_USE_FLG	CHAR	16

Table_Name	Column_Name	Data Type	Data Length
D1_MSRMT_AUDIT	BEFORE_MSRMT_VAL	NUMBER	22
D1_MSRMT_AUDIT	BEFORE_PREVEE_MSRMT_COND_FLG	CHAR	24
D1_MSRMT_AUDIT	BEFORE_PREVEE_MSRMT_VAL	NUMBER	22
D1_MSRMT_AUDIT	BEFORE_PREVEE_READING_COND_FLG	CHAR	24
D1_MSRMT_AUDIT	BEFORE_PREVEE_READING_VAL	NUMBER	22
D1_MSRMT_AUDIT	BEFORE_PREV_MSRMT_DTTM	DATE	7
D1_MSRMT_AUDIT	BEFORE_READING_COND_FLG	CHAR	24
D1_MSRMT_AUDIT	BEFORE_READING_VAL	NUMBER	22
D1_SPR_PROG	UTILITY_APPROVAL_REQD_FLG	CHAR	16
D1_SP_ENTITY_GRP*	BO_DATA_AREA	CLOB	4000
D1_SP_ENTITY_GRP*	D1_SP_ID	CHAR	48
D1_SP_ENTITY_GRP*	EFF_DTTM	DATE	7
D1_SP_ENTITY_GRP*	ENTITY_GRP_CD	VARCHAR2	120
D1_SP_ENTITY_GRP*	EXPIRATION_DTTM	DATE	7
D1_SP_ENTITY_GRP*	VERSION	NUMBER	22

* Used by Digital Asset Cloud Service

New Indexes

Table_Name	Index_Name
D1_DVC_ENTITY_GRP	D1M674P0
D1_DVC_ENTITY_GRP	D1M674S0
D1_ENTITY_GRP	D1C675P0
D1_ENTITY_GRP_CHAR	D1C670P0
D1_ENTITY_GRP_CRIT	D1C671P0
D1_ENTITY_GRP_CRIT_VAL	D1C672P0
D1_ENTITY_GRP_L	D1C669P0
D1_SP_ENTITY_GRP	D1M673P0
D1_SP_ENTITY_GRP	D1M673S0

Dropped Columns

Table_Name	Column_Name	Data Type	Data Length
D1_MSRMT_AUDIT	COMBINED_MULTIPLIER	NUMBER	22
D1_MSRMT_AUDIT	MSRMT_COND_FLG	CHAR	24
D1_MSRMT_AUDIT	MSRMT_USE_FLG	CHAR	16
D1_MSRMT_AUDIT	MSRMT_VAL	NUMBER	22
D1_MSRMT_AUDIT	PREVEE_MSRMT_COND_FLG	CHAR	24
D1_MSRMT_AUDIT	PREVEE_MSRMT_VAL	NUMBER	22
D1_MSRMT_AUDIT	PREVEE_READING_COND_FLG	CHAR	24
D1_MSRMT_AUDIT	PREVEE_READING_VAL	NUMBER	22
D1_MSRMT_AUDIT	PREV_MSRMT_DTTM	DATE	7
D1_MSRMT_AUDIT	READING_COND_FLG	CHAR	24
D1_MSRMT_AUDIT	READING_VAL	NUMBER	22

Chapter 4

Work and Asset-Related Database Changes

This chapter provides lists of work and asset-related database changes in the 25.4 release of Oracle Utilities cloud services. This includes:

- [New Columns](#)

New Columns

Table_Name	Column_Name	Data Type	Data Length
W1_ASSET_TYPE_ATTRIBUTE	ATT_SEQ_NUM	NUMBER	22
W1_ASSET_TYPE_SPEC_ATTRIBUTE	ATT_SEQ_NUM	NUMBER	22
W1_NODE	DESCRLONG	VARCHAR2	4000

Chapter 5

Application Framework Database Changes

This chapter provides lists of database changes in Oracle Utilities Application Framework included with the 25.4 release of Oracle Utilities cloud services. This includes:

- [New Indexes](#)

New Indexes

Table_Name	Index_Name
CI_BATCH_RUN	XT028S2
F1_BUS_FLG	F1T681S2