

Oracle Utilities Cloud Services

Database Changes Guide

For 24C Releases

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Oracle Utilities Cloud Services 24C Database Changes Guide

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Contents

Chapter 1

Cloud Services Database Changes Guide.....	1-1
About New Tables and New Columns.....	1-1
Cloud Services and Database Changes.....	1-2
Billing Cloud Service.....	1-2
Customer Care and Billing Cloud Service	1-2
Customer Cloud Service.....	1-2
Digital Asset Cloud Service	1-2
Market Settlements Management Cloud Service.....	1-3
Meter Solution Cloud Service.....	1-3
Rate Cloud Service	1-3
Work and Asset Cloud Service.....	1-3

Chapter 2

Customer-Related Database Changes.....	2-1
New Tables	2-1
New Columns	2-1
New Indexes	2-4

Chapter 3

Meter-Related Database Changes	3-1
New Tables	3-1
New Columns	3-2
New Indexes	3-5
Renamed Indexes	3-5

Chapter 4

Work and Asset-Related Database Changes	4-1
New Tables	4-1
New Columns	4-1
New Indexes	4-2

Chapter 5

Application Framework Database Changes	5-1
New Tables	5-1
New Columns	5-1

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 24C 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 24C 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 24C release of Oracle Utilities cloud services. This includes:

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

New Tables

Table	Name	Description
C1_BI_BILL_OVERVIEW	Billing Overview	Used to capture details about a customer's billing information. Used with Oracle Utilities Analytics Visualization.

New Columns

Table_Name	Column_Name	Data Type	Data Length
C1_BI_BILL_OVERVIEW	ACCOUNTING_DT	DATE	10,0
C1_BI_BILL_OVERVIEW	ACCT_ID	CHAR	10
C1_BI_BILL_OVERVIEW	ADJ_AMT	NUMBER	15,2
C1_BI_BILL_OVERVIEW	APAY_AMT	NUMBER	15,2
C1_BI_BILL_OVERVIEW	APAY_CRE_DT	DATE	10,0
C1_BI_BILL_OVERVIEW	APAY_STOP_AMT	NUMBER	15,2
C1_BI_BILL_OVERVIEW	APAY_STOP_CRE_DT	DATE	10,0

Table_Name	Column_Name	Data Type	Data Length
C1_BI_BILL_OVERVIEW	APAY_STOP_DTTM	DTTM	26,0
C1_BI_BILL_OVERVIEW	APAY_STOP_USER_ID	CHAR	8
C1_BI_BILL_OVERVIEW	BILL_AMT	NUMBER	15,2
C1_BI_BILL_OVERVIEW	BILL_CNT	NUMBER	1,0
C1_BI_BILL_OVERVIEW	BILL_CYC_CD	CHAR	4
C1_BI_BILL_OVERVIEW	BILL_DT	DATE	10,0
C1_BI_BILL_OVERVIEW	BILL_EXCP_CNT	NUMBER	10,0
C1_BI_BILL_OVERVIEW	BILL_EXCP_IND	NUMBER	1,0
C1_BI_BILL_OVERVIEW	BILL_ID	CHAR	12
C1_BI_BILL_OVERVIEW	BILL_STAT_FLG	CHAR	2
C1_BI_BILL_OVERVIEW	BILL_WIN_OPEN_IND	NUMBER	1,0
C1_BI_BILL_OVERVIEW	BKT_COMPL_DAYS_IN_WIN_CD	VARCHAR2	30
C1_BI_BILL_OVERVIEW	BKT_COMPL_DAYS_IN_WIN_SEQ_NUM	NUMBER	3,0
C1_BI_BILL_OVERVIEW	BKT_DAYS_WIN_CLOSSES_CD	VARCHAR2	30
C1_BI_BILL_OVERVIEW	BKT_DAYS_WIN_CLOSSES_SEQ_NUM	NUMBER	3,0
C1_BI_BILL_OVERVIEW	BSEG_AMT	NUMBER	15,2
C1_BI_BILL_OVERVIEW	BSEG_EXCP_CNT	NUMBER	10,0
C1_BI_BILL_OVERVIEW	BSEG_EXCP_IND	NUMBER	1,0
C1_BI_BILL_OVERVIEW	CANCELED_ADJ_CNT	NUMBER	10,0
C1_BI_BILL_OVERVIEW	CANCELED_ADJ_IND	NUMBER	1,0
C1_BI_BILL_OVERVIEW	CANCELED_BSEG_CNT	NUMBER	10,0
C1_BI_BILL_OVERVIEW	CANCELED_BSEG_IND	NUMBER	1,0
C1_BI_BILL_OVERVIEW	COMPLETED_BILL_CNT	NUMBER	1,0
C1_BI_BILL_OVERVIEW	COMPLETED_OUTSIDE_WIN_IND	NUMBER	1,0
C1_BI_BILL_OVERVIEW	COMPLETED_WITHIN_WIN_IND	NUMBER	1,0
C1_BI_BILL_OVERVIEW	COMPLETE_DTTM	DTTM	26,0
C1_BI_BILL_OVERVIEW	CRE_DTTM	DTTM	26,0
C1_BI_BILL_OVERVIEW	CR_NOTE_IND	NUMBER	1,0
C1_BI_BILL_OVERVIEW	DAYS_BEFORE_BILL_WIN_CLOSSES	NUMBER	5,0
C1_BI_BILL_OVERVIEW	DAYS_COMPLETED_AFTER_WIN_END	NUMBER	5,0
C1_BI_BILL_OVERVIEW	DAYS_COMPLETED_AFTER_WIN_START	NUMBER	5,0
C1_BI_BILL_OVERVIEW	DAYS_CREATED_AFTER_WIN_START	NUMBER	5,0

Table_Name	Column_Name	Data Type	Data Length
C1_BI_BILL_OVERVIEW	DUE_DT	DATE	10,0
C1_BI_BILL_OVERVIEW	ERRORED_BSEG_IND	NUMBER	1,0
C1_BI_BILL_OVERVIEW	ERROR_BSEG_CNT	NUMBER	10,0
C1_BI_BILL_OVERVIEW	EST_BSEG_AMT	NUMBER	15,2
C1_BI_BILL_OVERVIEW	EST_BSEG_CNT	NUMBER	10,0
C1_BI_BILL_OVERVIEW	EST_BSEG_IND	NUMBER	1,0
C1_BI_BILL_OVERVIEW	FREEZABLE_BSEG_CNT	NUMBER	10,0
C1_BI_BILL_OVERVIEW	FREEZABLE_BSEG_IND	NUMBER	1,0
C1_BI_BILL_OVERVIEW	FROZEN_ADJ_CNT	NUMBER	10,0
C1_BI_BILL_OVERVIEW	FROZEN_ADJ_IND	NUMBER	1,0
C1_BI_BILL_OVERVIEW	FROZEN_BSEG_CNT	NUMBER	10,0
C1_BI_BILL_OVERVIEW	FROZEN_BSEG_IND	NUMBER	1,0
C1_BI_BILL_OVERVIEW	HIGH_BILL_CASE_CNT	NUMBER	10,0
C1_BI_BILL_OVERVIEW	HIGH_BILL_CASE_IND	NUMBER	1,0
C1_BI_BILL_OVERVIEW	ILM_ARCH_SW	CHAR	1
C1_BI_BILL_OVERVIEW	ILM_DT	DATE	10,0
C1_BI_BILL_OVERVIEW	INCOMPLETE_BSEG_CNT	NUMBER	10,0
C1_BI_BILL_OVERVIEW	INCOMPLETE_BSEG_IND	NUMBER	1,0
C1_BI_BILL_OVERVIEW	IN_ERROR_BSEG_IND	NUMBER	1,0
C1_BI_BILL_OVERVIEW	LATE_PAY_CHARGE_DT	DATE	10,0
C1_BI_BILL_OVERVIEW	LATE_PAY_CHARGE_SW	CHAR	1
C1_BI_BILL_OVERVIEW	OFFCYC_BGEN_IND	NUMBER	1,0
C1_BI_BILL_OVERVIEW	PENDING_BILL_CNT	NUMBER	1,0
C1_BI_BILL_OVERVIEW	PEND_CANCEL_BSEG_CNT	NUMBER	10,0
C1_BI_BILL_OVERVIEW	PEND_CANCEL_BSEG_IND	NUMBER	1,0
C1_BI_BILL_OVERVIEW	PER_ID	CHAR	10
C1_BI_BILL_OVERVIEW	WIN_END_DT	DATE	10,0
C1_BI_BILL_OVERVIEW	WIN_START_DT	DATE	10,0

New Indexes

Table_Name	Index_Name
C1_BI_BILL_OVERVIEW	C1T168P0
CI_PAY	XT156S4

Chapter 3

Meter-Related Database Changes

This chapter provides lists of meter-related database changes in the 24C release of Oracle Utilities cloud services. This includes:

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

New Tables

Table	Name	Description
D1_IMD_CTRL_STAGE	IMD Control Staging	Used to stage IMD control records
D1_IMD_CTRL_STAGE_K	IMD Control Staging Key	Used to store keys for staged IMD control records
D1_IMD_TYPE	Initial Measurement Data Type	Used to capture details about types of initial measurement data
D1_IMD_TYPE_ALG	Initial Measurement Data Type Algorithm	Used to capture algorithms related to types of initial measurement data
D1_IMD_TYPE_L	Initial Measurement Data Type Language	Language table for Initial Measurement Data Type
D1_MSRMT_AUDIT	Measurement Audit	Used to capture changes made to measurement data
D1_RULE_PARM*	Rule Parameters	Used to capture parameters used by Digital Asset program rules
D1_SPR_PROG*	Service Provider Program	Used to capture relationship between Digital Asset service providers and programs

* Used by Digital Asset Cloud Service

New Columns

Table_Name	Column_Name	Data Type	Data Length
D1_CONTACT	ADDRESS1	VARCHAR2	1016
D1_CONTACT	ADDRESS1_UPPER	VARCHAR2	1016
D1_CONTACT	ADDRESS2	VARCHAR2	1016
D1_CONTACT	ADDRESS3	VARCHAR2	1016
D1_CONTACT	ADDRESS4	VARCHAR2	1016
D1_CONTACT	CITY	VARCHAR2	360
D1_CONTACT	CITY_UPPER	VARCHAR2	360
D1_CONTACT	COUNTRY	CHAR	12
D1_CONTACT	COUNTY	VARCHAR2	360
D1_CONTACT	GEO_CODE	CHAR	44
D1_CONTACT	HOUSE_TYPE	CHAR	8
D1_CONTACT	IN_CITY_LIMIT	CHAR	4
D1_CONTACT	NUM1	CHAR	24
D1_CONTACT	NUM2	CHAR	16
D1_CONTACT	POSTAL	CHAR	48
D1_CONTACT	STATE	CHAR	24
D1_CONTACT_TYPE	CONTACT_USE_FLG	CHAR	16
D1_DVC	DER_AGG_SPR_CD*	VARCHAR2	120
D1_IMD_CTRL_STAGE	ALG_CD	CHAR	48
D1_IMD_CTRL_STAGE	D1_FROM_DT_TM	DATE	7
D1_IMD_CTRL_STAGE	D1_TO_DT_TM	DATE	7
D1_IMD_CTRL_STAGE	IMD_CTRL_DC_ID	CHAR	48
D1_IMD_CTRL_STAGE	IMD_CTRL_MC_ID	CHAR	48
D1_IMD_CTRL_STAGE	IMD_CTRL_STAGE_ID	CHAR	56
D1_IMD_CTRL_STAGE	IMD_STAGE_PAYLOAD_XML	CLOB	4000
D1_IMD_CTRL_STAGE	IMD_STAGE_STATUS_FLG	CHAR	16
D1_IMD_CTRL_STAGE	IMD_TYPE_CD	VARCHAR2	120
D1_IMD_CTRL_STAGE_K	ENV_ID	NUMBER	22
D1_IMD_CTRL_STAGE_K	IMD_CTRL_STAGE_ID	CHAR	56
D1_IMD_TYPE	BO_DATA_AREA	CLOB	4000

Table_Name	Column_Name	Data Type	Data Length
D1_IMD_TYPE	BUS_OBJ_CD	CHAR	120
D1_IMD_TYPE	IMD_BUS_OBJ_CD	CHAR	120
D1_IMD_TYPE	IMD_SEEDER_FLG	CHAR	16
D1_IMD_TYPE	IMD_TYPE_CD	VARCHAR2	120
D1_IMD_TYPE	IMD_TYPE_STATUS_FLG	CHAR	16
D1_IMD_TYPE	OWNER_FLG	CHAR	16
D1_IMD_TYPE	VERSION	NUMBER	22
D1_IMD_TYPE_ALG	ALG_CD	CHAR	48
D1_IMD_TYPE_ALG	ERROR_BO_STATUS_CD	CHAR	48
D1_IMD_TYPE_ALG	IMD_TYPE_ALG_STATUS_FLG	CHAR	16
D1_IMD_TYPE_ALG	IMD_TYPE_CD	VARCHAR2	120
D1_IMD_TYPE_ALG	IMD_TYPE_SEVT_FLG	CHAR	16
D1_IMD_TYPE_ALG	OWNER_FLG	CHAR	16
D1_IMD_TYPE_ALG	SEQ_NUM	NUMBER	22
D1_IMD_TYPE_ALG	VERSION	NUMBER	22
D1_IMD_TYPE_L	DESCR100	VARCHAR2	400
D1_IMD_TYPE_L	DESCRLONG	VARCHAR2	16000
D1_IMD_TYPE_L	IMD_TYPE_CD	VARCHAR2	120
D1_IMD_TYPE_L	LANGUAGE_CD	CHAR	12
D1_IMD_TYPE_L	OWNER_FLG	CHAR	16
D1_IMD_TYPE_L	VERSION	NUMBER	22
D1_MSRMT_AUDIT	COMBINED_MULTIPLIER	NUMBER	22
D1_MSRMT_AUDIT	LOG_DTTM	DATE	7
D1_MSRMT_AUDIT	MEASR_COMP_ID	CHAR	48
D1_MSRMT_AUDIT	MSRMT_AUDIT_ENTRY_TYPE_FLG	CHAR	16
D1_MSRMT_AUDIT	MSRMT_COND_FLG	CHAR	24
D1_MSRMT_AUDIT	MSRMT_DTTM	DATE	7
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

Table_Name	Column_Name	Data Type	Data Length
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
D1_MSRMT_AUDIT	SEQNO	NUMBER	22
D1_MSRMT_AUDIT	USER_ID	CHAR	32
D1_NW_LOC	NETWORK_NODE_1	CHAR	56
D1_NW_LOC	NETWORK_NODE_2	CHAR	56
D1_RULE_PARM	CALC_FREQUENCY*	VARCHAR2	1016
D1_RULE_PARM	D1_SEASONAL_FLG*	CHAR	16
D1_RULE_PARM	ELIG_ALG_CD*	CHAR	48
D1_RULE_PARM	LINE_EXT_ID*	VARCHAR2	1016
D1_RULE_PARM	MIN_DAYS*	NUMBER	22
D1_RULE_PARM	PRORATE_OPTION_FLG*	CHAR	16
D1_RULE_PARM	RULE_CD*	VARCHAR2	120
D1_RULE_PARM	RULE_TYPE_CATEGORY*	VARCHAR2	1016
D1_RULE_PARM	SEASON_END*	CHAR	16
D1_RULE_PARM	SEASON_START*	CHAR	16
D1_RULE_PARM	SEQNO*	NUMBER	22
D1_RULE_PARM	SETT_FREQ_FLG*	CHAR	16
D1_RULE_PARM	USG_GRP_CD*	VARCHAR2	120
D1_RULE_PARM	VERSION*	NUMBER	22
D1_SPR	ACTIVE_INACTIVE_FLG*	CHAR	16
D1_SPR	CONTACT_ID*	CHAR	48
D1_SPR	END_DT*	DATE	7
D1_SPR	START_DT*	DATE	7
D1_SPR_PROG	D1_SPR_CD*	VARCHAR2	120
D1_SPR_PROG	DYN_OPT_ID*	CHAR	48
D1_SPR_PROG	END_DT*	DATE	7
D1_SPR_PROG	SPR_LFDI*	VARCHAR2	1016
D1_SPR_PROG	START_DT*	DATE	7
D1_USAGE	RULE_CD*	VARCHAR2	120

Table_Name	Column_Name	Data Type	Data Length
D1_USAGE	RULE_TYPE_CATEGORY*	VARCHAR2	1016

* Used by Digital Asset Cloud Service

New Indexes

Table_Name	Index_Name
D1_CONTACT	D1M180S0
D1_IMD_CTRL_STAGE	D1T661P0
D1_IMD_CTRL_STAGE	D1T661S0
D1_IMD_CTRL_STAGE	D1T661S1
D1_IMD_CTRL_STAGE_K	D1T663P0
D1_IMD_TYPE	D1C664P0
D1_IMD_TYPE_ALG	D1C666P0
D1_IMD_TYPE_L	D1C665P0
D1_MSRMT_AUDIT	D1T662P0
D1_RULE_PARM	D1C667P0
D1_SPR_PROG	D1C668P0

Renamed Indexes

Table_Name	Old_Index_Name	New_Index_Name
D1_DYN_OPT_TYPE_QTY_TYPE	D1660CP0	D1C660P0

Chapter 4

Work and Asset-Related Database Changes

This chapter provides lists of work and asset-related database changes in the 24C release of Oracle Utilities cloud services. This includes:

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

New Tables

Table	Name	Description
W1_BC_LINE_NOTE	Blanket Contract Line Note	Used to capture notes for blanket contract lines

New Columns

Table_Name	Column_Name	Data Type	Data Length
W1_BC_LINE_NOTE	BC_LINE_ID	CHAR	14
W1_BC_LINE_NOTE	NOTE_DTTM	DATE	7
W1_BC_LINE_NOTE	NOTE_TYPE_FLG	CHAR	4
W1_BC_LINE_NOTE	NOTE_VALUE	VARCHAR2	4000
W1_BC_LINE_NOTE	SEQNO	NUMBER	22
W1_BC_LINE_NOTE	USER_ID	CHAR	8
W1_BC_LINE_NOTE	VERSION	NUMBER	22
W1_TIMEKEEPER	OWNING_ACCESS_GRP_CD	CHAR	12

New Indexes

Table_Name	Index_Name
W1_ACTIVITY	W1T244S21
W1_BC_LINE_NOTE	W1T976P0
W1_BC_LINE_NOTE	W1T976P0
W1_DOCUMENT	W1M577S2
W1_MAT_RET_LINE	W1T400S2

Chapter 5

Application Framework Database Changes

This chapter provides lists of database changes in Oracle Utilities Application Framework included with the 24C release of Oracle Utilities cloud services. This includes:

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

New Tables

Table	Name	Description
F1_PROD_METRIC_SNPSHT_VAL	Product Metric Values	Used to store Product Metric snapshot data
CI_BATCH_CTRL_OPT	Batch Control Option	Used to store batch control option
F1_PATCH_DETAILS	Patch Details	Internal Use Only.
F1_ATTACHMENT_DATA	Store file detail information	Used to store file attachment information

New Columns

Table_Name	Column_Name	Data Type	Data Length
CI_BATCH_CTRL	BATCH_TEMPLATE_XFLG	VARCHAR2	256
CI_BATCH_CTRL	BASE_BATCH_FLG	CHAR	4
F1_REQ_TYPE	OWNER_FLG	CHAR	4
F1_REQ_TYPE_L	OWNER_FLG	CHAR	4
F1_ATTACHMENT	ATTCH_CONT_LOC_FLG	CHAR	4
F1_ATTACHMENT	ATTCH_FILE_REF	VARCHAR2	2,000