

Oracle Utilities Cloud Services
Database Changes Guide
For 24B Releases
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Oracle Utilities Cloud Services 24B 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 24B 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 24B 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 24B release of Oracle Utilities cloud services. This includes:

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

New Tables

Table	Name	Description
C1_COLL_PROC_ARS_HIST	Collection Process Arrears History	Used to capture a history of arrears amounts and cancellation thresholds for collection processes.
C1_COLL_PROC_SA_ARS_HIST	Collection Process SA Arrears History	Used to capture a history of arrears amounts and cancellation thresholds for collection processes.
C1_OD_PROC_ARS_HIST	Overdue Process Arrears History	Used to capture a history of arrears amounts and cancellation thresholds for overdue processes.
C1_SEV_PROC_ARS_HIST	Severance Process Arrears History	Used to capture a history of arrears amounts and cancellation thresholds for severance processes.

New Columns

Table_Name	Column_Name	Data Type	Data Length
C1_COLL_PROC_ARS_HIST	ARS_AMT	NUMB	15,2
C1_COLL_PROC_ARS_HIST	ARS_HIST_TYPE_FLG	CHAR	4
C1_COLL_PROC_ARS_HIST	BO_XML_DATA_AREA	XML	1073741824
C1_COLL_PROC_ARS_HIST	BUS_OBJ_CD	CHAR	30
C1_COLL_PROC_ARS_HIST	CAN_THR_AMT	NUMB	15,2
C1_COLL_PROC_ARS_HIST	COLL_PROC_ID	CHAR	10
C1_COLL_PROC_ARS_HIST	CRE_DTTM	DTTM	26
C1_COLL_PROC_ARS_HIST	DEBT_CLASS_SW	CHAR	1
C1_COLL_PROC_ARS_HIST	ILM_ARCH_SW	CHAR	1
C1_COLL_PROC_ARS_HIST	ILM_DT	DATE	10
C1_COLL_PROC_ARS_HIST	SEQNO	NUMB	5,0
C1_COLL_PROC_ARS_HIST	UNADJ_ARS_AMT	NUMB	15,2
C1_COLL_PROC_ARS_HIST	VERSION	NUMB	5,2
C1_COLL_PROC_SA_ARS_HIST	ARS_AMT	NUMB	15,2
C1_COLL_PROC_SA_ARS_HIST	CAN_THR_AMT	NUMB	15,2
C1_COLL_PROC_SA_ARS_HIST	COLL_PROC_ID	CHAR	10
C1_COLL_PROC_SA_ARS_HIST	SA_ID	CHAR	10
C1_COLL_PROC_SA_ARS_HIST	SEQNO	NUMB	5,0
C1_COLL_PROC_SA_ARS_HIST	VERSION	NUMB	5,0
C1_OD_PROC_ARS_HIST	ARS_AMT	NUMB	15,2
C1_OD_PROC_ARS_HIST	ARS_AMT_INDT_SW	CHAR	1
C1_OD_PROC_ARS_HIST	ARS_HIST_TYPE_FLG	CHAR	4
C1_OD_PROC_ARS_HIST	BO_XML_DATA_AREA	XML	1073741824
C1_OD_PROC_ARS_HIST	BUS_OBJ_CD	CHAR	30
C1_OD_PROC_ARS_HIST	CAN_THR_AMT	NUMB	15,2
C1_OD_PROC_ARS_HIST	CRE_DTTM	DTTM	26
C1_OD_PROC_ARS_HIST	ILM_ARCH_SW	CHAR	1
C1_OD_PROC_ARS_HIST	ILM_DT	DATE	10
C1_OD_PROC_ARS_HIST	OD_PROC_ID	CHAR	12
C1_OD_PROC_ARS_HIST	SEQNO	NUMB	5,0
C1_OD_PROC_ARS_HIST	VERSION	NUMB	5,0

Table_Name	Column_Name	Data Type	Data Length
C1_RC_CALC_LN_GTT	C1_PERCENTAGE	NUMB	11,8
C1_RC_CALC_LN_GTT	C1_UNIT_PRICE	NUMB	19,8
C1_RC_CALC_LN_GTT	CHARGE	NUMB	19,8
C1_RC_CALC_LN_GTT	SEASON_END_DT	DATE	10
C1_RC_CALC_LN_GTT	SEASON_START_DT	DATE	10
C1_RC_CALC_LN_GTT	STEP_SQ_HIGH_VAL	NUMB	18,4
C1_RC_CALC_LN_GTT	STEP_SQ_LOW_VAL	NUMB	18,4
C1_RC_CALC_LN_GTT	STEP_SQ_SEQ	NUMB	5,0
C1_RC_CALC_LN_GTT	VAL_PERIOD_END_DT	DATE	10
C1_RC_CALC_LN_GTT	VAL_PERIOD_START_DT	DATE	10
C1_SEV_PROC_ARS_HIST	ARS_AMT	NUMB	15,2
C1_SEV_PROC_ARS_HIST	ARS_HIST_TYPE_FLG	CHAR	4
C1_SEV_PROC_ARS_HIST	BO_XML_DATA_AREA	XML	1073741824
C1_SEV_PROC_ARS_HIST	BUS_OBJ_CD	CHAR	30
C1_SEV_PROC_ARS_HIST	CAN_THR_AMT	NUMB	15,2
C1_SEV_PROC_ARS_HIST	CRE_DTTM	DTTM	26
C1_SEV_PROC_ARS_HIST	DEBT_CLASS_SW	CHAR	1
C1_SEV_PROC_ARS_HIST	ILM_ARCH_SW	CHAR	1
C1_SEV_PROC_ARS_HIST	ILM_DT	DATE	10
C1_SEV_PROC_ARS_HIST	SEQNO	NUMB	5,0
C1_SEV_PROC_ARS_HIST	SEV_PROC_ID	CHAR	10
C1_SEV_PROC_ARS_HIST	UNADJ_ARS_AMT	NUMB	15,2
C1_SEV_PROC_ARS_HIST	VERSION	NUMB	5,0

New Indexes

Table_Name	Index_Name
C1_COLL_PROC_ARS_HIST	C1T164P0
C1_COLL_PROC_SA_ARS_HIST	C1T165P0
C1_COLL_PROC_SA_ARS_HIST	C1T165S1
C1_OD_PROC_ARS_HIST	C1T167P0
C1_SEV_PROC_ARS_HIST	C1T166P0

CL_CC_LOG	XT281S2
C1_OFFCYC_BGEN_BSEG	C1T160S1

Updated Columns

Table_Name	Column_Name	From	To
C1_MKTMSG_CHG_DTL	MKT_PRICE_PER_UNIT	NUMB 15,2	NUMB 19,6

Chapter 3

Meter-Related Database Changes

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

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

New Tables

Table	Name	Description
D1_DYN_OPT_QTY*	Dynamic Option Quantity	Used to store quantities related to dynamic options.
D1_DYN_OPT_TYPE_QTY_TYPE*	Dynamic Option Type Quantity Type	Used to define type of quantities stored for dynamic option types.

* Used by Digital Asset Cloud Service

New Columns

Table_Name	Column_Name	Data Type	Data Length
D1_DYN_OPT_QTY	DYN_OPT_ID*	CHAR	12
D1_DYN_OPT_QTY	DYN_OPT_QTY*	NUMBER	16,6
D1_DYN_OPT_QTY	DYN_OPT_QTY_TYPE*	VARCHAR2	254
D1_DYN_OPT_QTY	END_DTTM*	DATE	
D1_DYN_OPT_QTY	START_DTTM*	DATE	
D1_DYN_OPT_QTY	VERSION*	NUMBER	5
D1_DYN_OPT_TYPE_QTY_TYPE	DYN_OPT_TYPE_CD*	VARCHAR2	30

Table_Name	Column_Name	Data Type	Data Length
D1_DYN_OPT_TYPE_QTY_TYPE	DYN_OPT_TYPE_QTY_TYPE*	VARCHAR2	254
D1_DYN_OPT_TYPE_QTY_TYPE	VERSION*	NUMBER	5
D1_MEASR_COMP_SET	DISTRIBUTE_LOAD_FLG	CHAR	4
D1_MEASR_COMP_SET	LOAD_DISTRIBUTION_FORMULA	VARCHAR2	254
D1_MEASR_COMP_SET	LOAD_DIST_MANAGED_BY_FLG	CHAR	4
D1_MEASR_COMP_SET	NBR_OF_DIGITS_TO_USE	NUMBER	1
D1_MEASR_COMP_TYPE	ANCHR_TIME	DATE	
D1_US_TYPE	PROC_TIMETABLE_TYPE_CD	VARCHAR2	30

* Used by Digital Asset Cloud Service

New Indexes

Table_Name	Index_Name
D1_DYN_OPT_QTY	D1M659P0
D1_DYN_OPT_TYPE_QTY_TYPE	D1C660P0

Chapter 4

Work and Asset-Related Database Changes

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

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

New Tables

Table	Name	Description
W1_ASSET_TYPE_SPEC_ATTRIBUTE	Asset Type Specification Attribute	Used to capture attributes for asset type specifications.
W1_NODE_ATTRIBUTE	Location Attribute	Used to capture attributes for locations.
W1_NODE_TYPE_ATTRIBUTE	Location Type Attributes	Used to capture attributes for location types.
W1_SPECIFICATION_ATTRIBUTE	Specification Attribute	Used to capture attributes for specifications.

New Columns

Table_Name	Column_Name	Data Type	Data Length
W1_ACTIVITY	PERCENT_COMPLETE	NUMBER	22
W1_ASSET	ADDITIONAL_COST	NUMBER	22
W1_ASSET	ERP_PRJ_NUM	VARCHAR2	60

W1_ASSET	ERP_SUB_PRJ_NUM	VARCHAR2	60
W1_ASSET	MEMBER_ASSET_FLG	CHAR	4
W1_ASSET_TYPE_SPEC_ATTRIBUTE	ASSET_TYPE_CD	VARCHAR2	30
W1_ASSET_TYPE_SPEC_ATTRIBUTE	CHAR_TYPE_CD	CHAR	8
W1_ASSET_TYPE_SPEC_ATTRIBUTE	VERSION	NUMBER	22
W1_NODE_ATTRIBUTE	ADHOC_CHAR_VAL	VARCHAR2	254
W1_NODE_ATTRIBUTE	CHAR_TYPE_CD	CHAR	8
W1_NODE_ATTRIBUTE	CHAR_VAL	CHAR	16
W1_NODE_ATTRIBUTE	CHAR_VAL_FK1	VARCHAR2	50
W1_NODE_ATTRIBUTE	CHAR_VAL_FK2	VARCHAR2	50
W1_NODE_ATTRIBUTE	CHAR_VAL_FK3	VARCHAR2	50
W1_NODE_ATTRIBUTE	CHAR_VAL_FK4	VARCHAR2	50
W1_NODE_ATTRIBUTE	CHAR_VAL_FK5	VARCHAR2	50
W1_NODE_ATTRIBUTE	NODE_ID	CHAR	12
W1_NODE_ATTRIBUTE	SEQ_NUM	NUMBER	22
W1_NODE_ATTRIBUTE	SRCH_CHAR_VAL	VARCHAR2	50
W1_NODE_ATTRIBUTE	VERSION	NUMBER	22
W1_NODE_TYPE_ATTRIBUTE	CHAR_TYPE_CD	CHAR	8
W1_NODE_TYPE_ATTRIBUTE	NODE_TYPE_CD	VARCHAR2	30
W1_NODE_TYPE_ATTRIBUTE	VERSION	NUMBER	22
W1_SPECIFICATION_ATTRIBUTE	ADHOC_CHAR_VAL	VARCHAR2	254
W1_SPECIFICATION_ATTRIBUTE	CHAR_TYPE_CD	CHAR	8
W1_SPECIFICATION_ATTRIBUTE	CHAR_VAL	CHAR	16
W1_SPECIFICATION_ATTRIBUTE	CHAR_VAL_FK1	VARCHAR2	50
W1_SPECIFICATION_ATTRIBUTE	CHAR_VAL_FK2	VARCHAR2	50
W1_SPECIFICATION_ATTRIBUTE	CHAR_VAL_FK3	VARCHAR2	50
W1_SPECIFICATION_ATTRIBUTE	CHAR_VAL_FK4	VARCHAR2	50
W1_SPECIFICATION_ATTRIBUTE	CHAR_VAL_FK5	VARCHAR2	50
W1_SPECIFICATION_ATTRIBUTE	SEQ_NUM	NUMBER	22
W1_SPECIFICATION_ATTRIBUTE	SPECIFICATION_CD	VARCHAR2	30
W1_SPECIFICATION_ATTRIBUTE	SRCH_CHAR_VAL	VARCHAR2	50
W1_SPECIFICATION_ATTRIBUTE	VERSION	NUMBER	22

New Indexes

Table_Name	Index_Name
W1_ASSET_TYPE_SPEC_ATTRIBUTE	W1C972P0
W1_ASSET_TYPE_SPEC_ATTRIBUTE	W1C972P0
W1_CREW_SHIFT_ACT_SCHED	W1T311S1
W1_CREW_SHIFT_ACT_SCHED	W1T311S1
W1_NODE_ATTRIBUTE	W1M975P0
W1_NODE_ATTRIBUTE	W1M975P0
W1_NODE_ATTRIBUTE	W1M975P0
W1_NODE_ATTRIBUTE	W1M975S1
W1_NODE_ATTRIBUTE	W1M975S2
W1_NODE_ATTRIBUTE	W1M975S3
W1_NODE_ATTRIBUTE	W1M975S3
W1_NODE_ATTRIBUTE	W1M975S4
W1_NODE_ATTRIBUTE	W1M975S4
W1_NODE_TYPE_ATTRIBUTE	W1C974P0
W1_NODE_TYPE_ATTRIBUTE	W1C974P0
W1_RESRC_TYPE	W1M555S2
W1_SPECIFICATION_ATTRIBUTE	W1C973P0
W1_SPECIFICATION_ATTRIBUTE	W1C973P0
W1_SPECIFICATION_ATTRIBUTE	W1C973P0
W1_SPECIFICATION_ATTRIBUTE	W1C973S1
W1_SPECIFICATION_ATTRIBUTE	W1C973S2
W1_SPECIFICATION_ATTRIBUTE	W1C973S3
W1_SPECIFICATION_ATTRIBUTE	W1C973S3
W1_SPECIFICATION_ATTRIBUTE	W1C973S4
W1_SPECIFICATION_ATTRIBUTE	W1C973S4

Chapter 5

Application Framework Database Changes

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

- [New Tables](#)
- [New Indexes](#)
- [New Views](#)
- [Updated Views](#)

New Tables

Table	Name	Description
F1_PROD_METRIC_TYPE	Product Metric Type	Internal use only.
F1_PROD_METRIC_TYPE_L	Product Metric Type Language	Internal use only.
F1_PROD_METRIC_SNPSHT	Product Metric Snapshot	Internal use only.
F1_PROD_METRIC_SNPSHT_K	Product Metric Snapshot Key	Internal use only.

New Indexes

Table_Name	Index_Name
CI_MD_CONST_FLD	XC617S1
CI_MD_MO_TBL	XC079S2
F1_ERASURE_SCHED	F1T756S2

New Views

View_Name	Description	Notes
F1_SIBSCH_TBLS_VW	Sibling Schema Tables	This is for internal processing.

Updated Views

View_Name	Changes
CI_USR_ACC_GRP_VW	Added DISTINCT clause to the SELECT query
