

Oracle Utilities Customer to Meter

Database Changes Guide

Release 25.4

G26121-02

April 2025
(Updated August 2025)

Oracle Utilities Customer to Meter 25.4 Database Changes Guide

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Chapter 1

Introduction

Welcome to the Oracle Utilities Customer to Meter Database Changes Guide. This document describes changes in the database in the Oracle Utilities Customer to Meter 25.4 release.

The document includes:

- [Customer Care and Billing Database Changes](#)
- [Meter Data Management Database Changes](#)
- [Work and Asset Management Database Changes](#)
- [Application Framework Database Changes](#)

Chapter 2

Customer Care and Billing Database Changes

This chapter provides lists of database changes in the 25.4 release of Oracle Utilities Customer Care and Billing included with the 25.4 release of Oracle Utilities Customer to Meter. It includes:

- [New Tables](#)
- [New Columns](#)
- [Updated Columns](#)
- [Dropped Columns](#)
- [New Indexes](#)
- [Other Database Changes](#)

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.
C1_BI_BILL_OVERVIEW	Billing Overview	Used to capture details about a customer's billing information. Used with Oracle Utilities Analytics Visualization.
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_CS_REQ_TYPE_REL_UPD	REL_UPD_RESPONSE_VALUE	VARC	254
C1_CS_REQ_TYPE_REL_UPD	UPDATE_VALUE	VARC	254
CI_RS_L	DESCRLONG	VARCHAR	4000
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	IIM_ARCH_SW	CHAR	1

Table_Name	Column_Name	Data Type	Data Length
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
C1_RC_CALC_IN_GTT	C1_PERCENTAGE	NUMB	11,8
C1_RC_CALC_IN_GTT	C1_UNIT_PRICE	NUMB	19,8
C1_RC_CALC_IN_GTT	CHARGE	NUMB	19,8
C1_RC_CALC_IN_GTT	SEASON_END_DT	DATE	10
C1_RC_CALC_IN_GTT	SEASON_START_DT	DATE	10
C1_RC_CALC_IN_GTT	STEP_SQ_HIGH_VAL	NUMB	18,4
C1_RC_CALC_IN_GTT	STEP_SQ_LOW_VAL	NUMB	18,4
C1_RC_CALC_IN_GTT	STEP_SQ_SEQ	NUMB	5,0
C1_RC_CALC_IN_GTT	VAL_PERIOD_END_DT	DATE	10
C1_RC_CALC_IN_GTT	VAL_PERIOD_START_DT	DATE	10

Table_Name	Column_Name	Data Type	Data Length
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
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
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

Table_Name	Column_Name	Data Type	Data Length
C1_BI_BILL_OVERVIEW	BKT_COMPL_DAYS_IN_WIN_SEQ_NUM	NUMBER	3,0
C1_BI_BILL_OVERVIEW	BKT_DAYS_WIN_CLOSES_CD	VARCHAR2	30
C1_BI_BILL_OVERVIEW	BKT_DAYS_WIN_CLOSES_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_CLOSES	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
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

Table_Name	Column_Name	Data Type	Data Length
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
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
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

Table_Name	Column_Name	Data Type	Data Length
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

Updated Columns

Table_Name	Column_Name	From	To
C1_CS_REQ_TYPE_QUESTION	QUESTION_APPL_FLG	NULLABLE	NOT NULLABLE
C1_CS_REQ_SA_SP	USE_PCT	NUMBER(3,0)	NUMBER(5,2)
C1_RC_READ_GTT	USE_PCT	NUMBER(3,0)	NUMBER(5,2)
CI_BCHG_READ	USE_PCT	NUMBER(3,0)	NUMBER(5,2)
CI_BCHG_UP_READ	USE_PCT	NUMBER(3,0)	NUMBER(5,2)
CI_BSEG_READ	USE_PCT	NUMBER(3,0)	NUMBER(5,2)
CI_SA_SP	USE_PCT	NUMBER(3,0)	NUMBER(5,2)
C1_MKTMSG_CHG_DTL	MKT_PRICE_PER_UNIT	NUMB 15,2	NUMB 19,6

Dropped Columns

Table_Name	Column_Name
C1_CS_REQ_TYPE_QUESTION	C1_ANSWER_CD
C1_CS_REQ_TYPE_SVC_CRIT	START_SA_OVRD_SW
C1_CS_REQ_TYPE_SVC_CRIT	STOP_SA_OVRD_SW
C1_QUESTION_ANSWER	C1_ANSWER_STYLE_FLG
C1_QUESTION_ANSWER	CHAR_TYPE_CD
C1_CS_REQ_TYPE_QUESTION	C1_ANSWER_CD

New Indexes

Table_Name	Index_Name
CI_PREM	XM174S8
CI_CC	XT057S8
C1_ENRL_CONTDET	C1T011S2
CI_PAY_TNDR	XT265S8
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
CI_CC_LOG	XT281S2
C1_OFFCYC_BGEN_BSEG	C1T160S1
C1_BI_BILL_OVERVIEW	C1T168P0
CI_PAY	XT156S4
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

Table_Name	Index_Name
CI_PER	XM169S1

Other Database Changes

This release of Oracle Utilities Customer to Meter also includes the following database changes:

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

Chapter 3

Meter Data Management Database Changes

This chapter provides lists of database changes in the 25.4 release of Oracle Utilities Meter Data Management included with the 25.4 release of Oracle Utilities Customer to Meter. It includes:

- [New Tables](#)
- [New Columns](#)
- [Dropped Columns](#)
- [Modified Columns](#)
- [New Indexes](#)
- [Dropped Indexes](#)
- [Renamed Indexes](#)
- [Dropped Primary Keys](#)
- [New Views](#)
- [Other Database Changes](#)

New Tables

Table	Name	Description
D1_CONTACT_COMM*	Contact Communication	Used to store customer communications, usually as part of an enrollment or unenrollment process
D1_CONTACT_COMM_CHAR*	Contact Communication Characteristics	Used to store characteristics associated with a customer communication
D1_CONTACT_COMM_K*	Contact Communication Key	Used to store primary keys associated with a customer communication
D1_CONTACT_COMM_LOG*	Contact Communication Log	Used to capture log details for a customer communication
D1_CONTACT_COMM_LOG_PARM*	Contact Communication Log Parameters	Used to capture log parameters for a customer communication
D1_CONTACT_COMM_REL_OBJ*	Contact Communication Related Object	Used to store related objects associated with a customer communication
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.
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
D1_DVC_ENTTTY_GRP*	Device Entity Group	Used to define the relationship between a device and an entity group
D1_ENTTTY_GRP*	Entity Group	Used to capture groups of entities (such as service points or devices)
D1_ENTTTY_GRP_CHAR*	Entity Group Characteristics	Used to store characteristics related to a group of entities

Table	Name	Description
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_DYN_OPT_EVENT	DYN_OPT_EXT_ID_VALUE*	VARCHAR2	120
D1_DYN_OPT_TYPE	DYN_OPT_CATEGORY*	VARCHAR2	254
D1_DYN_OPT_TYPE	DEVICE_REQD_FLG*	CHAR	4
D1_EVT_PARTICIPATION	RESERVATION_START_DTTM*	DATE	26
D1_EVT_PARTICIPATION	RESERVATION_END_DTTM*	DATE	26
D1_EVT_PARTICIPATION	IILM_DT*	DATE	10
D1_EVT_PARTICIPATION	IILM_ARCH_SW*	CHAR	1
D1_SP	D1_INSTALL_DT*	DATE	10
D1_DYN_OPT_QUESTION*	RESPONSE_REQ_FLG	CHAR	4
D1_DYN_OPT_QUESTION*	QUESTION_CATEGORY	VARCHAR2	254
D1_DYN_OPT_TYPE*	LOCATION_REQD_SOURCE_FLG	CHAR	4
D1_US*	PGM_ENRL_SRC_FLG	CHAR	4
D1_USAGE*	EXTRACT_FLG	CHAR	4
D1_USAGE_PERIOD_SQ	D1_PRICE*	NUMBER	19
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

Table_Name	Column_Name	Data Type	Data Length
D1_DYN_OPT_TYPE_QTY_TYPE	DYN_OPT_TYPE_CD*	VARCHAR2	30
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
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_DTTM	DATE	7
D1_IMD_CTRL_STAGE	D1_TO_DTTM	DATE	7
D1_IMD_CTRL_STAGE	IMD_CTRL_DC_ID	CHAR	48
D1_IMD_CTRL_STAGE	IMD_CTRL_MC_ID	CHAR	48

Table_Name	Column_Name	Data Type	Data Length
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
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

Table_Name	Column_Name	Data Type	Data Length
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
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

Table_Name	Column_Name	Data Type	Data Length
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
D1_USAGE	RULE_TYPE_CATEGORY*	VARCHAR2	1016
D1_DVC_ENTITY_GRP*	BO_DATA_AREA	CLOB	4000
D1_DVC_ENTITY_GRP*	D1_DEVICE_ID	CHAR	48
D1_DVC_ENTITY_GRP*	EFF_DT_TM	DATE	7
D1_DVC_ENTITY_GRP*	ENTITY_GRP_CD	VARCHAR2	120
D1_DVC_ENTITY_GRP*	EXPIRATION_DT_TM	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

Table_Name	Column_Name	Data Type	Data Length
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
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

Table_Name	Column_Name	Data Type	Data Length
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
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_ENTTTY_GRP*	BO_DATA_AREA	CLOB	4000
D1_SP_ENTTTY_GRP*	D1_SP_ID	CHAR	48
D1_SP_ENTTTY_GRP*	EFF_DTTM	DATE	7
D1_SP_ENTTTY_GRP*	ENTTTY_GRP_CD	VARCHAR2	120
D1_SP_ENTTTY_GRP*	EXPIRATION_DTTM	DATE	7
D1_SP_ENTTTY_GRP*	VERSION	NUMBER	22

* Used by Digital Asset Cloud Service

Dropped Columns

Table_Name	Column_Name	Data Type	Data Length
D1_EVT_PARTICIPATION	EFF_DTTM	DATE	
D1_MSRMT_AUDIT	COMBINED_MULTIP LIER	NUMBER	22
D1_MSRMT_AUDIT	MSRMT_COND_FLG	CHAR	24
D1_MSRMT_AUDIT	MSRMT_USE_FLG	CHAR	16

Table_Name	Column_Name	Data Type	Data Length
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_DTM	DATE	7
D1_MSRMT_AUDIT	READING_COND_FLG	CHAR	24
D1_MSRMT_AUDIT	READING_VAL	NUMBER	22

Modified Columns

Table_Name	Column_Name	Old Length	New Length
D1_DYN_OPT_QUESTION *	D1_ANSWER_CD	NOT NULL	NULLABLE
D1_GTT4	MAINT_OBJ_CD	NOT NULL	NULLABLE
D1_GTT4	D1_DEVICE_ID	NOT NULL	NULLABLE
D1_GTT4	D1_SP_ID	NOT NULL	NULLABLE
D1_GTT4	DEVICE_TYPE_CD	NOT NULL	NULLABLE
D1_GTT4	MSRMT_DTTM	NOT NULL	NULLABLE
D1_GTT7	D1_SP_ID	NOT NULL	NULLABLE
D1_GTT7	D1_SP_TYPE_CD	NOT NULL	NULLABLE
D1_GTT7	TIME_ZONE_CD	NOT NULL	NULLABLE
D1_GTT7	US_ID	NOT NULL	NULLABLE
D1_GTT7	US_TYPE_CD	NOT NULL	NULLABLE
D1_GTT8	D1_SP_ID	NOT NULL	NULLABLE
D1_GTT8	D1_QUANTITY1	NOT NULL	NULLABLE

Table_Name	Column_Name	Old Length	New Length
D1_GTT8	D1_QUANTITY2	NOT NULL	NULLABLE
D1_GTT8	D1_QUANTITY3	NOT NULL	NULLABLE
D1_GTT8	D1_QUANTITY4	NOT NULL	NULLABLE
D1_GTT8	D1_QUANTITY5	NOT NULL	NULLABLE
D1_GTT8	US_ID	NOT NULL	NULLABLE
D1_USAGE_SCALAR_DTL	USE_PERCENT	Number (9,6)	Number (5,2)
D1_US_SP	USE_PERCENT	Number (9,6)	Number (5,2)

* Used by Digital Asset Cloud Service

New Indexes

Table_Name	Index_Name
D1_GTT4	D1T407S0
D1_GTT7	D1T554S0
D1_GTT8	D1T555S0
D1_CONTACT_COMM*	D1T653P0
D1_CONTACT_COMM*	D1T653S1
D1_CONTACT_COMM_CHAR*	D1T655P0
D1_CONTACT_COMM_CHAR*	D1T655S1
D1_CONTACT_COMM_K*	D1T654P0
D1_CONTACT_COMM_LOG*	D1T656P0
D1_CONTACT_COMM_LOG_PARM*	D1T657P0
D1_CONTACT_COMM_REL_OBJ*	D1T658P0
D1_DYN_OPT_EVENT*	D1T230S1
D1_DYN_OPT_EVENT*	D1T230S2
D1_DYN_OPT_EVENT*	D1T230S3
D1_DYN_OPT_QTY	D1M659P0
D1_DYN_OPT_TYPE_QTY_TYPE	D1C660P0
D1_CONTACT	D1M180S0
D1_IMD_CTRL_STAGE	D1T661P0
D1_IMD_CTRL_STAGE	D1T661S0
D1_IMD_CTRL_STAGE	D1T661S1

Table_Name	Index_Name
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
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

* Used by Digital Asset Cloud Service

Dropped Indexes

Table_Name	Index_Name
D1_GTT4	D1T407P0
D1_GTT7	D1T554P0
D1_GTT8	D1T555P0

Renamed Indexes

Table_Name	Old_Index_Name	New_Index_Name
D1_DYN_OPT_TYPE_QTY_TYPE	D1660CP0	D1C660P0

Dropped Primary Keys

Table_Name
D1_GTT10
D1_GTT4
D1_GTT7
D1_GTT8
D1_GTT9

New Views

View_Name
D1_MC_TYPE_PER_EST_EVAL_VW

Other Database Changes

This release of Oracle Utilities Customer to Meter also includes the following database changes:

- [Customer Care and Billing Database Changes](#)
- [Work and Asset Management Database Changes](#)
- [Application Framework Database Changes](#)

Chapter 4

Work and Asset Management Database Changes

This chapter provides lists of database changes in the 25.4 release of Oracle Utilities Work and Asset Management included in the 25.4 release of Oracle Utilities Customer to Meter. It includes:

- [New Tables](#)
- [New Columns](#)
- [New Indexes](#)
- [Other Database Changes](#)

Note: The new tables, new indexes, new columns, modified columns, and dropped columns described in this chapter, as well as the [Application Framework Database Changes](#), also apply to Oracle Utilities Operational Device Management.

New Tables

Table	Name	Description
W1_DESIGN_ELEMENT_PLAN_SH_TYP E	Design Element Planned Service History	Used to capture planned service histories for template construction work activities
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.
W1_BC_LINE_NOTE	Blanket Contract Line Note	Used to capture notes for blanket contract lines

*Used by Digital Asset Cloud Service

New Columns

Table_Name	Column_Name	Data Type	Data Length
W1_ACT_RECON_COST_CENTER	W1_AMOUNT	NUMBER	18,7
W1_ACT_RECON_PROP_UNIT	COST_CENTER_CD	VARCHAR2	30
W1_ACT_RECON_PROP_UNIT	CU_USAGE_CD	VARCHAR2	30
W1_ASSET_TYPE	ASSET_NO_CAL_PREFIX_FLG	CHAR	4
W1_ASSET_TYPE	ASSET_NO_GEN_FLG	CHAR	4
W1_ASSET_TYPE	ASSET_NO_PREFIX	CHAR	4
W1_ASSET_TYPE	ASSET_NO_SEQ_LEN	NUMBER	2
W1_ASSET_TYPE	BADGE_NO_CAL_PREFIX_FLG	CHAR	4
W1_ASSET_TYPE	BADGE_NO_GEN_FLG	CHAR	4
W1_ASSET_TYPE	BADGE_NO_PREFIX	CHAR	4
W1_ASSET_TYPE	BADGE_NO_SEQ_LEN	NUMBER	2
W1_DESIGN_ELEMENT	ACT_DURATION	NUMBER	22
W1_DESIGN_ELEMENT	UOT_FLG	CHAR	4
W1_DESIGN_ELEMENT_PLAN_SH_TYP E	DESIGN_ELEMENT_ID	CHAR	12
W1_DESIGN_ELEMENT_PLAN_SH_TYP E	SVC_HIST_TYPE_CD	VARCHAR2	30

Table_Name	Column_Name	Data Type	Data Length
W1_DESIGN_ELEMENT_PLAN_SH_TYP E	SVC_HIST_TYPE_REQ_FLG	CHAR	4
W1_DESIGN_ELEMENT_PLAN_SH_TYP E	VERSION	NUMBER	22
W1_CMPL_EVT	CONSTR_LOC_ID	CHAR	14
W1_DESIGN_ELEMENT	BACK_LOG_GRP_FLG	CHAR	4
W1_WORK_LOC	SERVICE_AREA_CD	VARCHAR2	30
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

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

* Used by Digital Asset Cloud Service

New Indexes

Table_Name	Index_Name	Column_Name
W1_ODC_DTL	W1T340S3	ACT_RESRC_REQMT_ID
W1_PO_LINE	W1T418S9	ACT_RESRC_REQMT_ID
W1_TIMESHEET_DETAIL	W1M595S4	ACT_RESRC_REQMT_ID
W1_DESIGN_ELEMENT_PL AN_SH_TYPE	W1T971P0	DESIGN_ELEMENT_ID
W1_DESIGN_ELEMENT_PL AN_SH_TYPE	W1T971P0	SVC_HIST_TYPE_CD

Table_Name	Index_Name	Column_Name
W1_ASSET_TYPE_SPEC_ATT RIBUTE	W1C972P0	
W1_ASSET_TYPE_SPEC_ATT RIBUTE	W1C972P0	
W1_CREW_SHIFT_ACT_SCH ED	W1T311S1	
W1_CREW_SHIFT_ACT_SCH ED	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_ATTRIBU TE	W1C974P0	
W1_NODE_TYPE_ATTRIBU TE	W1C974P0	
W1_RESRC_TYPE	W1M555S2	
W1_SPECIFICATION_ATTRI BUTE	W1C973P0	
W1_SPECIFICATION_ATTRI BUTE	W1C973P0	
W1_SPECIFICATION_ATTRI BUTE	W1C973P0	
W1_SPECIFICATION_ATTRI BUTE	W1C973S1	
W1_SPECIFICATION_ATTRI BUTE	W1C973S2	
W1_SPECIFICATION_ATTRI BUTE	W1C973S3	
W1_SPECIFICATION_ATTRI BUTE	W1C973S3	
W1_SPECIFICATION_ATTRI BUTE	W1C973S4	

Table_Name	Index_Name	Column_Name
W1_SPECIFICATION_ATTRI BUTE	W1C973S4	
W1_ACTIVITY	W1T244S21	
W1_BC_LINE_NOTE	W1T976P0	
W1_BC_LINE_NOTE	W1T976P0	
W1_DOCUMENT	W1M577S2	
W1_MAT_RET_LINE	W1T400S2	

* Used by Digital Asset Cloud Service

Other Database Changes

This release of Oracle Utilities Customer to Meter also includes the following database changes:

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

Chapter 5

Application Framework Database Changes

This chapter provides lists of database changes in Oracle Utilities Application Framework V25.4 included with Oracle Utilities Customer to Meter V25.4. It includes:

- [New Tables](#)
- [New Columns](#)
- [Updated Columns](#)
- [New Indexes](#)
- [New Views](#)
- [Updated Views](#)
- [Updated Primary Key](#)
- [Other Database Changes](#)

New Tables

Table	Name	Description
F1_MST_CONFIG_CHAR	Master Configuration Characteristics	Future use only.
F1_BUS_OBJ_STATUS_VW	Business Object Status View	New view populates status description with the override description (if populated) otherwise with the description. SQLs that need the BO status description can use this view instead of doing the work to check the override description.
F1_BUS_OBJ_STATUS_RS N_VW	Status Reason View	New view populates status reason description with the override description (if populated) otherwise with the description. SQLs that need the BO status reason description can use this view instead of doing the work to check the override 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_SNPS HT	Product Metric Snapshot	Internal use only.
F1_PROD_METRIC_SNPS HT_K	Product Metric Snapshot Key	Internal use only.
F1_PROD_METRIC_SNPS HT_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

*Future use only.

New Columns

Table_Name	Column_Name	Data Type	Data Length
F1_MIGR_REQ_INSTR	ENTITY_TAG	Varchar2	30

Table_Name	Column_Name	Data Type	Data Length
C1_TD_ENTRY	TD_SUB_STATUS_FLG	Flag	4
C1_TD_LOG	TD_LOG_STATUS_FLG	Flag	4
CI_TD_ENTRY	RTE_BATCH_CD	Character	8
CI_TD_ENTRY	RTE_BATCH_NBR	Number	10
F1_BUS_OBJ_STATUS_L	DESCR_OVRD	VARCHAR2	60
F1_BUS_OBJ_STATUS_RSN_L	DESCR_OVRD	VARCHAR2	60
F1_BUS_OBJ_TR_RULE_L	BO_NEXT_STATUS_OVRD_LBL	VARCHAR2	60
F1_MST_CONFIG	CONFIG_PART_NAME	VARCHAR2	254
F1_MST_CONFIG	CONFIG_CLS_FLG	CHAR	4
CI_PORTAL	PORTAL_ROLE_FLG	CHAR	4
CI_ZONE	ZONE_ROLE_FLG	CHAR	4
CI_BATCH_CTRL	BATCH_TEMPLATE_X FLG	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

Updated Columns

Table_Name	Column_Name	Old Data Type	New Data Type
F1_CRYPT0_KEY	PUBLIC_KEY	VARCHAR2(4000)	VARCHAR2(32767)
CI_MD_IDX	IDX_CD	CHAR(12)	VARCHAR2(128)
CI_MD_IDX_FLD	IDX_CD	CHAR(12)	VARCHAR2(128)
F1_BUS_OBJ_STATUS_L	DESCR	Null	Space as default

Table_Name	Column_Name	Old Data Type	New Data Type
F1_BUS_OBJ_STATUS_L	OWNER_FLG	Null	Space as default
F1_BUS_OBJ_STATUS_L	DESCRLONG	Null	Space as default
F1_BUS_OBJ_STATUS_L	DESCR_OVRD	Null	Space as default
F1_BUS_OBJ_STATUS_RSN_L	DESCR	Null	Space as default
F1_BUS_OBJ_STATUS_RSN_L	OWNER_FLG	Null	Space as default
F1_BUS_OBJ_STATUS_RSN_L	DESCRLONG	Null	Space as default
F1_BUS_OBJ_STATUS_RSN_L	DESCR_OVRD	Null	Space as default
F1_BUS_OBJ_TR_RUL_E_L	BO_NEXT_STATUS_LBL	Null	Space as default
F1_BUS_OBJ_TR_RUL_E_L	OWNER_FLG	Null	Space as default
F1_BUS_OBJ_TR_RUL_E_L	BO_NEXT_STATUS_OVRD_LBL	Null	Space as default

New Indexes

Table	Index
F1_TSPACE_ENTRY	FT001S1 (TSPACE_NAME, TSPACE_ENTRY_TY,TSPACE_ENTRY_ID)
F1_MKTMSG_OUT	F1T782S3 (OUTMSG_ID)
F1_MKTMSG_OUT	F1T782S4 (MKTPROC_ID)
F1_MKTMSG_OUT	F1T782S5 (MKT_REG_NBR
F1_BATCH_RUN_ANALYTICS_SNAP	F1T301S02 (END_DTTM, BATCH_CD, BATCH_NBR, BATCH_RERUN_NBR)
F1_BATCH_RUN_ANALYTICS_SNAP	F1T301S03(BATCH_BUS_DT, BATCH_CD, BATCH_NBR, BATCH_RERUN_NBR)
F1_BATCH_THD_ANALYTICS_SNAP	F1T401S02 (BATCH_BUS_DT, BATCH_CD, BATCH_NBR, BATCH_RERUN_NBR, BATCH_THREAD_NBR)

Table	Index
F1_BATCH_THD_ANALYTICS_SNAP	F1T401S03 (START_DTTM, BATCH_CD, BATCH_NBR, BATCH_RERUN_NBR, BATCH_THREAD_NBR)
CI_TD_ENTRY	XT039S9 (RTE_BATCH_CD, RTE_BATCH_NBR, ENTRY_STATUS_FLG)
F1_OUTMSG	FT010S2 (NT_XID_CD, CRE_DTTM, OUTMSG_STATUS_FLG)
CI_MD_CONST_FLD	XC617S1
CI_MD_MO_TBL	XC079S2
F1_ERASURE_SCHED	F1T756S2
XT028S2(END_DTTM, START_DTTM, BATCH_NBR, BATCH_RERUN_NBR, BATCH_CD)	CI_BATCH_RUN
F1T681S2(MAINT_OBJ_CD, PK_VALUE1, PK_VALUE2, BUS_FLG_ID)	F1_BUS_FLG

New Views

Table_Name	View_Name	Description
F1_BUS_OBJ_STATUS_VW	Business Object Status View	New view populates status description with the override description (if populated) otherwise with the description. SQLs that need the BO status description can use this view instead of doing the work to check the override description.
F1_BUS_OBJ_STATUS_RS N_VW	Status Reason View	New view populates status reason description with the override description (if populated) otherwise with the description. SQLs that need the BO status reason description can use this view instead of doing the work to check the override description.
F1_SIBSCH_TBLS_VW	Sibling Schema Tables	This is for internal processing.

Updated Views

View_Name	Changes
CI_TD_ENTRY_OPEN_VW	New Field: TD_SUB_STATUS_FLG
F1_BATCH_RUN_HIST_VW	Used with New Batch Analytics Views feature.
F1_BATCH_THD_HIST_VW	Used with New Batch Analytics Views feature.
F1_BATCH_CONF_VW	Used with New Batch Analytics Views feature.
F1_BATCH_THD_CAP_VW	Used with New Batch Analytics Views feature.
CI_USR_ACC_GRP_VW	Added DISTINCT clause to the SELECT query

Updated Primary Key

Table_Name	Old Fields	New Fields
F1_WEB_CAT_INCL_SVC	“WEB_SVC_CAT_CD”, “SEQNO”	“WEB_SVC_CAT_CD”, “SEQNO”, “OWNER_FLG”

Other Database Changes

This release of Oracle Utilities Customer to Meter also includes the following database changes:

- [Customer Care and Billing Database Changes](#)
- [Meter Data Management Database Changes](#)
- [Work and Asset Management Database Changes](#)