

Oracle Utilities Cloud Services

Database Changes Guide

For 22B Releases

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Oracle Utilities Cloud Services 22B 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 22B 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 Generation Asset Manager Cloud Service](#)
- [Oracle Utilities Meter Solution Cloud Service](#)
- [Oracle Utilities Operational Device 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](#)

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](#)
- [Generation Asset Manager Cloud Service](#)
- [Meter Solution Cloud Service](#)
- [Operational Device 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](#)

Generation Asset Manager Cloud Service

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

- [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](#)

Operational Device Cloud Service

The following database changes apply to Oracle Utilities Operational Device Cloud Service:

- [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 22B release of Oracle Utilities cloud services. This includes:

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

New Tables

Table	Name	Description
C1_CC_IDENTIFIER	Customer Contact Identifier	Used to store identifying fields of customer contacts (for searching)
C1_CC_LOG	Customer Contact Log	Used to store log entries as a customer contact moves through its lifecycle
C1_CC_LOG_PARM	Customer Contact Log Parameter	Used to store parameters related to the Customer Contact Log
C1_NTF_EVT_CC_CL_TYPE	Notification Event Contact Type	Used to store the Customer Contact Classes and Types related to a given Notification Event Type
C1_NTF_EVT_TYPE	Notification Event Type	Used to store configuration data that control behavior of Notification Events
C1_NTF_EVT_TYPE_ALG	Notification Event Type Algorithm	Used to store a collection of system events and the plug-ins that execute when the events occur

C1_NTF_EVT_TYPE_CHAR	Notification Event Type Characteristic	Used to store a collection of characteristics related to the Notification Event Type
C1_QUESTION	Question - CCB	Used to store configuration data representing questions that can be asked as part of a Service Call Communication
C1_QUESTION_ANSWER	Question Answer - CCB	Used to store valid multiple-choice answers to questions specified on Question - CCB table
C1_QUESTION_ANSWER_L	Question Answer Language - CCB	Language table related to the Question Answer - CCB table.
C1_QUESTION_CHAR	Question Characteristic - CCB	Used to store codified attributes of questions configured on the Question - CCB table
C1_QUESTION_L	Question Language - CCB	Language table related to the Question - CCB table.
C1_RESPONSE	Response	Used to store transactional data capturing responses to questions asked as part of a Service Call Communication
C1_RESPONSE_ANSWER	Response Answer	Child of the Response table, used to store answers to multiple-choice questions
C1_RESPONSE_CHAR	Response Characteristic	Used to store codified attributes of a Response
C1_RESPONSE_K	Response Key	Key table related to the Response table
C1_RESPONSE_LOG	Response Log	Used to store log entries as a customer contact moves through its lifecycle
C1_RESPONSE_LOG_PARM	Response Log Parameter	Used to store parameters related to the Response Log
C1_SERVICE_CAT	Service Category - CCB	Used to store classification of services specified as part of a Service Call Communication
C1_SERVICE_CAT_CHAR	Service Category Characteristics - CCB	Used to store codified attributes of a Service Category
C1_SERVICE_CAT_L	Service Category Language - CCB	Language table related to the Service Category - CCB table.
C1_SERVICE_CAT_SVC_CD	Service Category Service Code - CCB	Used to store valid Service Codes for a Service Category

C1_SERVICE_CODE	Service Code - CCB	Used to store configuration of services that can be requested as part of a Service Call Communication
C1_SERVICE_CODE_CHAR	Service Code Characteristic - CCB	Used to store codified attributes of a Service Code
C1_SERVICE_CODE_L	Service Code Language - CCB	Language table related to the Service Code - CCB table.
C1_SERVICE_CODE_QUESTION	Service Code Question - CCB	Used to store what Questions are asked for a given Service Code

New Indexes

Table_Name	Index_Name
C1_CC_IDENTIFIER	C1T161P0
C1_CC_IDENTIFIER	C1T161S1
C1_CC_LOG	C1T162P0
C1_CC_LOG	C1T162S1
C1_CC_LOG	C1T162S2
C1_CC_LOG_PARM	C1T163P0
C1_CONT	C1M017S2
C1_CONT_ID	C1T028S1
C1_CONT_MS	C1T030S1
C1_CONT_MS	C1T030S2
C1_CONT_MS_PROD	C1T031S1
C1_CONT_MS_PROD	C1T031S2
C1_CONT_PROD	C1T032S1
C1_CONT_PROD	C1T032S2
C1_CONT_PROD	C1T032S3
C1_CONT_PROD	C1T032S4
C1_CS_REQ	C1T043S2
C1_CS_REQ	C1T043S3
C1_CS_REQ	C1T043S4
C1_CS_REQ	C1T043S5
C1_CS_REQ	C1T043S6
C1_CS_REQ_ACCT	C1T079S2

C1_CS_REQ_ACCT	C1T079S3
C1_CS_REQ_ACCT	C1T079S4
C1_CS_REQ_ACCT	C1T079S5
C1_CS_REQ_ACCT_APAY	C1T082S1
C1_CS_REQ_ACCT_PER	C1T086S1
C1_CS_REQ_ACCT_PER	C1T086S2
C1_CS_REQ_ACCT_PER	C1T086S3
C1_CS_REQ_CONT	C1T055S2
C1_CS_REQ_CONT	C1T055S3
C1_CS_REQ_CONT_MS_PROD	C1T061S1
C1_CS_REQ_CONT_PROD	C1T065S2
C1_CS_REQ_CONT_PROD	C1T065S3
C1_CS_REQ_CONT_PROD	C1T065S4
C1_CS_REQ_CONT_PROD	C1T065S5
C1_CS_REQ_CONT_PROD	C1T065S6
C1_CS_REQ_CONT_PROD	C1T065S7
C1_CS_REQ_PER	C1T070S2
C1_CS_REQ_PER	C1T070S3
C1_CS_REQ_PER_NAME	C1T071S1
C1_CS_REQ_PER_NAME	C1T071S2
C1_CS_REQ_PER_NAME	C1T071S3
C1_CS_REQ_PREM	C1T092S1
C1_CS_REQ_PREM	C1T092S10
C1_CS_REQ_PREM	C1T092S2
C1_CS_REQ_PREM	C1T092S3
C1_CS_REQ_PREM	C1T092S4
C1_CS_REQ_PREM	C1T092S5
C1_CS_REQ_PREM	C1T092S6
C1_CS_REQ_PREM	C1T092S7
C1_CS_REQ_PREM	C1T092S8
C1_CS_REQ_PREM	C1T092S9
C1_CS_REQ_REL_OBJ	C1T045S1
C1_CS_REQ_REL_OBJ	C1T045S2
C1_CS_REQ_SA	C1T141S2

C1_CS_REQ_SA	C1T141S3
C1_CS_REQ_SA	C1T141S4
C1_CS_REQ_SA	C1T141S5
C1_CS_REQ_SA	C1T141S6
C1_CS_REQ_SA	C1T141S7
C1_CS_REQ_SA	C1T141S8
C1_CS_REQ_SA_SP	C1T144S1
C1_CS_REQ_SA_SP	C1T144S2
C1_CS_REQ_SA_SP	C1T144S3
C1_CS_REQ_SA_SP	C1T144S4
C1_CS_REQ_SA_SP	C1T144S5
C1_CS_REQ_SA_SP_FA	C1T146S1
C1_CS_REQ_SA_SP_FA	C1T146S2
C1_CS_REQ_SA_SP_FA	C1T146S3
C1_CS_REQ_SA_SP_FA	C1T146S4
C1_CS_REQ_SVC_LOC	C1T049S3
C1_CS_REQ_SVC_LOC	C1T049S4
C1_CS_REQ_SVC_LOC	C1T049S5
C1_CS_REQ_SVC_LOC	C1T049S6
C1_CS_REQ_SVC_LOC	C1T049S7
C1_CS_REQ_SVC_LOC	C1T049S8
C1_CS_REQ_SVC_LOC_CONT_PROD	C1T052S3
C1_CS_REQ_SVC_LOC_CONT_PROD	C1T052S4
C1_MKTMSG_CHG	C1T135S2
C1_MKTMSG_CHG_DTL	C1T137S1
C1_MKTMSG_CHG_DTL	C1T137S2
C1_MKTMSG_CHG_DTL	C1T137S3
C1_MKTMSG_CHG_DTL	C1T137S4
C1_MKTMSG_CHG_REL_OBJ	C1T138S2
C1_MKTMSG_PAY	C1T129S2
C1_MKTMSG_PAY_DTL	C1T131S1
C1_MKTMSG_PAY_DTL	C1T131S2
C1_MKTMSG_PAY_DTL	C1T131S3
C1_MKTMSG_PAY_REL_OBJ	C1T132S2

C1_MKTMSG_USG	C1T123S2
C1_MKTMSG_USG_REL_OBJ	C1T126S2
C1_MKT_RP_REL_OBJ	C1M014S2
C1_NTF_EVT_CC_CL_TYPE	C1C162P0
C1_NTF_EVT_TYPE	C1C158P0
C1_NTF_EVT_TYPE	C1C158S1
C1_NTF_EVT_TYPE_ALG	C1C160P0
C1_NTF_EVT_TYPE_CHAR	C1C161P0
C1_NTF_EVT_TYPE_CHAR	C1C161S1
C1_QUESTION	C1C150P0
C1_QUESTION_ANSWER	C1C153P0
C1_QUESTION_ANSWER_L	C1C154P0
C1_QUESTION_CHAR	C1C152P0
C1_QUESTION_CHAR	C1C152S1
C1_QUESTION_L	C1C151P0
C1_RESPONSE	C1C147P0
C1_RESPONSE	C1C147S1
C1_RESPONSE	C1C147S2
C1_RESPONSE_ANSWER	C1C148P0
C1_RESPONSE_CHAR	C1C155P0
C1_RESPONSE_CHAR	C1C155S1
C1_RESPONSE_K	C1C157P0
C1_RESPONSE_LOG	C1C149P0
C1_RESPONSE_LOG	C1C149S1
C1_RESPONSE_LOG	C1C149S2
C1_RESPONSE_LOG_PARM	C1C156P0
C1_SA_CONT_PROD	C1M018S1
C1_SERVICE_CAT	C1C139P0
C1_SERVICE_CAT_CHAR	C1C142P0
C1_SERVICE_CAT_CHAR	C1C142S1
C1_SERVICE_CAT_L	C1C141P0
C1_SERVICE_CAT_SVC_CD	C1C140P0
C1_SERVICE_CODE	C1C143P0
C1_SERVICE_CODE_CHAR	C1C146P0

C1_SERVICE_CODE_CHAR	C1C146S1
C1_SERVICE_CODE_L	C1C145P0
C1_SERVICE_CODE_QUESTION	C1C144P0
CI_CC	XT057S7
CI_SPR	XC339S3

New Columns

Table_Name	Column_Name	Data Type	Data Length
C1_CC_IDENTIFIER	CC_EXT_REF_ID	VARCHAR	120
C1_CC_IDENTIFIER	CC_ID	CHAR	10
C1_CC_IDENTIFIER	CC_ID_TYPE_FLG	CHAR	4
C1_CC_IDENTIFIER	VERSION	NUMB	5
C1_CC_LOG	ADHOC_CHAR_VAL	VARCHAR	254
C1_CC_LOG	CC_ID	CHAR	10
C1_CC_LOG	CC_INT_EVENT_DTTM	DTTM	26
C1_CC_LOG	CC_INT_STAT_FLG	CHAR	4
C1_CC_LOG	CC_INT_STAT_RSN_DESCR	VARCHAR	500
C1_CC_LOG	CHAR_TYPE_CD	CHAR	8
C1_CC_LOG	CHAR_VAL	CHAR	16
C1_CC_LOG	CHAR_VAL_FK1	VARCHAR	50
C1_CC_LOG	CHAR_VAL_FK2	VARCHAR	50
C1_CC_LOG	CHAR_VAL_FK3	VARCHAR	50
C1_CC_LOG	CHAR_VAL_FK4	VARCHAR	50
C1_CC_LOG	CHAR_VAL_FK5	VARCHAR	50
C1_CC_LOG	DESCRLONG	VARCHAR	4000
C1_CC_LOG	LOG_DTTM	DTTM	26
C1_CC_LOG	LOG_ENTRY_TYPE_FLG	CHAR	4
C1_CC_LOG	MESSAGE_CAT_NBR	NUMB	5
C1_CC_LOG	MESSAGE_NBR	NUMB	5
C1_CC_LOG	SEQNO	NUMB	5
C1_CC_LOG	USER_ID	CHAR	8
C1_CC_LOG	VERSION	NUMB	5

C1_CC_LOG_PARM	CC_ID	CHAR	10
C1_CC_LOG_PARM	MSG_PARM_TYP_FLG	CHAR	4
C1_CC_LOG_PARM	MSG_PARM_VAL	VARCHAR	2000
C1_CC_LOG_PARM	PARM_SEQ	NUMB	3
C1_CC_LOG_PARM	SEQNO	NUMB	5
C1_CC_LOG_PARM	VERSION	NUMB	5
C1_NTF_EVT_CC_CL_TYPE	CC_CL_CD	CHAR	4
C1_NTF_EVT_CC_CL_TYPE	CC_TYPE_CD	CHAR	12
C1_NTF_EVT_CC_CL_TYPE	CC_TYPE_USG_FLG	CHAR	4
C1_NTF_EVT_CC_CL_TYPE	NTF_EVT_TYPE_FLG	CHAR	4
C1_NTF_EVT_CC_CL_TYPE	VERSION	NUMB	5
C1_NTF_EVT_TYPE	BO_XML_DATA_AREA	XML	1073741824
C1_NTF_EVT_TYPE	BUS_OBJ_CD	CHAR	30
C1_NTF_EVT_TYPE	NTF_EVT_ACT_INACT_FLG	CHAR	4
C1_NTF_EVT_TYPE	NTF_EVT_TYPE_FLG	CHAR	4
C1_NTF_EVT_TYPE	NTF_MODE_FLG	CHAR	4
C1_NTF_EVT_TYPE	NTF_TYPE_CD	VARCHAR	30
C1_NTF_EVT_TYPE	VERSION	NUMB	5
C1_NTF_EVT_TYPE_ALG	ALG_CD	CHAR	12
C1_NTF_EVT_TYPE_ALG	NTF_EVT_ALG_ENTITY_FLG	CHAR	4
C1_NTF_EVT_TYPE_ALG	NTF_EVT_TYPE_FLG	CHAR	4
C1_NTF_EVT_TYPE_ALG	SEQ_NUM	NUMB	3
C1_NTF_EVT_TYPE_ALG	VERSION	NUMB	5
C1_NTF_EVT_TYPE_CHAR	ADHOC_CHAR_VAL	VARCHAR	254
C1_NTF_EVT_TYPE_CHAR	CHAR_TYPE_CD	CHAR	8
C1_NTF_EVT_TYPE_CHAR	CHAR_VAL	CHAR	16
C1_NTF_EVT_TYPE_CHAR	CHAR_VAL_FK1	VARCHAR	50
C1_NTF_EVT_TYPE_CHAR	CHAR_VAL_FK2	VARCHAR	50
C1_NTF_EVT_TYPE_CHAR	CHAR_VAL_FK3	VARCHAR	50
C1_NTF_EVT_TYPE_CHAR	CHAR_VAL_FK4	VARCHAR	50
C1_NTF_EVT_TYPE_CHAR	CHAR_VAL_FK5	VARCHAR	50
C1_NTF_EVT_TYPE_CHAR	NTF_EVT_TYPE_FLG	CHAR	4
C1_NTF_EVT_TYPE_CHAR	SEQ_NUM	NUMB	3
C1_NTF_EVT_TYPE_CHAR	SRCH_CHAR_VAL	VARCHAR	50

C1_NTF_EVT_TYPE_CHAR	VERSION	NUMB	5
C1_QUESTION	BO_XML_DATA_AREA	XML	1073741824
C1_QUESTION	BUS_OBJ_CD	CHAR	30
C1_QUESTION	C1_QUESTION_CD	VARCHAR	30
C1_QUESTION	C1_QUESTION_STATUS_FLG	CHAR	4
C1_QUESTION	VERSION	NUMB	5
C1_QUESTION_ANSWER	C1_ANSWER_CD	VARCHAR	30
C1_QUESTION_ANSWER	C1_ANSWER_STATUS_FLG	CHAR	4
C1_QUESTION_ANSWER	C1_ANSWER_STYLE_FLG	CHAR	4
C1_QUESTION_ANSWER	C1_QUESTION_CD	VARCHAR	30
C1_QUESTION_ANSWER	SEQ_NUM	NUMB	3
C1_QUESTION_ANSWER	VERSION	NUMB	5
C1_QUESTION_ANSWER_L	C1_ANSWER_CD	VARCHAR	30
C1_QUESTION_ANSWER_L	C1_QUESTION_CD	VARCHAR	30
C1_QUESTION_ANSWER_L	DESCR100	VARCHAR	100
C1_QUESTION_ANSWER_L	DESCRLONG	VARCHAR	4000
C1_QUESTION_ANSWER_L	LANGUAGE_CD	CHAR	3
C1_QUESTION_ANSWER_L	VERSION	NUMB	5
C1_QUESTION_CHAR	ADHOC_CHAR_VAL	VARCHAR	254
C1_QUESTION_CHAR	C1_QUESTION_CD	VARCHAR	30
C1_QUESTION_CHAR	CHAR_TYPE_CD	CHAR	8
C1_QUESTION_CHAR	CHAR_VAL	CHAR	16
C1_QUESTION_CHAR	CHAR_VAL_FK1	VARCHAR	50
C1_QUESTION_CHAR	CHAR_VAL_FK2	VARCHAR	50
C1_QUESTION_CHAR	CHAR_VAL_FK3	VARCHAR	50
C1_QUESTION_CHAR	CHAR_VAL_FK4	VARCHAR	50
C1_QUESTION_CHAR	CHAR_VAL_FK5	VARCHAR	50
C1_QUESTION_CHAR	SEQ_NUM	NUMB	3
C1_QUESTION_CHAR	SRCH_CHAR_VAL	VARCHAR	50
C1_QUESTION_CHAR	VERSION	NUMB	5
C1_QUESTION_L	C1_QUESTION_CD	VARCHAR	30
C1_QUESTION_L	DESCR100	VARCHAR	100
C1_QUESTION_L	DESCRLONG	VARCHAR	4000
C1_QUESTION_L	LANGUAGE_CD	CHAR	3

C1_QUESTION_L	VERSION	NUMB	5
C1_RESPONSE	BO_STATUS_CD	CHAR	12
C1_RESPONSE	BO_STATUS_REASON_CD	VARCHAR	30
C1_RESPONSE	BO_XML_DATA_AREA	XML	1073741824
C1_RESPONSE	BUS_OBJ_CD	CHAR	30
C1_RESPONSE	CRE_DTTM	DTTM	26
C1_RESPONSE	CS_REQ_ID	CHAR	14
C1_RESPONSE	F1_SVC_TASK_ID	CHAR	14
C1_RESPONSE	ILM_ARCH_SW	CHAR	1
C1_RESPONSE	ILM_DT	DATE	10
C1_RESPONSE	RESPONSE_ID	CHAR	14
C1_RESPONSE	STATUS_UPD_DTTM	DTTM	26
C1_RESPONSE	VERSION	NUMB	5
C1_RESPONSE_ANSWER	BO_XML_DATA_AREA	XML	1073741824
C1_RESPONSE_ANSWER	C1_ANSWER_CD	VARCHAR	30
C1_RESPONSE_ANSWER	C1_QUESTION_CD	VARCHAR	30
C1_RESPONSE_ANSWER	C1_QUESTION_SUB_SEQ	NUMB	3
C1_RESPONSE_ANSWER	C1_RESPONSE_ANSWER	VARCHAR	4000
C1_RESPONSE_ANSWER	RESPONSE_ID	CHAR	14
C1_RESPONSE_ANSWER	SEQ_NUM	NUMB	3
C1_RESPONSE_ANSWER	VERSION	NUMB	5
C1_RESPONSE_CHAR	ADHOC_CHAR_VAL	VARCHAR	254
C1_RESPONSE_CHAR	CHAR_TYPE_CD	CHAR	8
C1_RESPONSE_CHAR	CHAR_VAL	CHAR	16
C1_RESPONSE_CHAR	CHAR_VAL_FK1	VARCHAR	50
C1_RESPONSE_CHAR	CHAR_VAL_FK2	VARCHAR	50
C1_RESPONSE_CHAR	CHAR_VAL_FK3	VARCHAR	50
C1_RESPONSE_CHAR	CHAR_VAL_FK4	VARCHAR	50
C1_RESPONSE_CHAR	CHAR_VAL_FK5	VARCHAR	50
C1_RESPONSE_CHAR	RESPONSE_ID	CHAR	14
C1_RESPONSE_CHAR	SEQ_NUM	NUMB	3
C1_RESPONSE_CHAR	SRCH_CHAR_VAL	VARCHAR	50
C1_RESPONSE_CHAR	VERSION	NUMB	5
C1_RESPONSE_K	ENV_ID	NUMB	6

C1_RESPONSE_K	RESPONSE_ID	CHAR	14
C1_RESPONSE_LOG	ADHOC_CHAR_VAL	VARCHAR	254
C1_RESPONSE_LOG	BO_STATUS_CD	CHAR	12
C1_RESPONSE_LOG	BO_STATUS_REASON_CD	VARCHAR	30
C1_RESPONSE_LOG	CHAR_TYPE_CD	CHAR	8
C1_RESPONSE_LOG	CHAR_VAL	CHAR	16
C1_RESPONSE_LOG	CHAR_VAL_FK1	VARCHAR	50
C1_RESPONSE_LOG	CHAR_VAL_FK2	VARCHAR	50
C1_RESPONSE_LOG	CHAR_VAL_FK3	VARCHAR	50
C1_RESPONSE_LOG	CHAR_VAL_FK4	VARCHAR	50
C1_RESPONSE_LOG	CHAR_VAL_FK5	VARCHAR	50
C1_RESPONSE_LOG	DESCRLONG	VARCHAR	4000
C1_RESPONSE_LOG	LOG_DTTM	DTTM	26
C1_RESPONSE_LOG	LOG_ENTRY_TYPE_FLG	CHAR	4
C1_RESPONSE_LOG	MESSAGE_CAT_NBR	NUMB	5
C1_RESPONSE_LOG	MESSAGE_NBR	NUMB	5
C1_RESPONSE_LOG	RESPONSE_ID	CHAR	14
C1_RESPONSE_LOG	SEQNO	NUMB	5
C1_RESPONSE_LOG	USER_ID	CHAR	8
C1_RESPONSE_LOG	VERSION	NUMB	5
C1_RESPONSE_LOG_PARM	MSG_PARM_TYP_FLG	CHAR	4
C1_RESPONSE_LOG_PARM	MSG_PARM_VAL	VARCHAR	2000
C1_RESPONSE_LOG_PARM	PARM_SEQ	NUMB	3
C1_RESPONSE_LOG_PARM	RESPONSE_ID	CHAR	14
C1_RESPONSE_LOG_PARM	SEQNO	NUMB	5
C1_RESPONSE_LOG_PARM	VERSION	NUMB	5
C1_SERVICE_CAT	BO_XML_DATA_AREA	XML	1073741824
C1_SERVICE_CAT	BUS_OBJ_CD	CHAR	30
C1_SERVICE_CAT	C1_SERVICE_CAT_CD	VARCHAR	30
C1_SERVICE_CAT	VERSION	NUMB	5
C1_SERVICE_CAT_CHAR	ADHOC_CHAR_VAL	VARCHAR	254
C1_SERVICE_CAT_CHAR	C1_SERVICE_CAT_CD	VARCHAR	30
C1_SERVICE_CAT_CHAR	CHAR_TYPE_CD	CHAR	8
C1_SERVICE_CAT_CHAR	CHAR_VAL	CHAR	16

C1_SERVICE_CAT_CHAR	CHAR_VAL_FK1	VARCHAR	50
C1_SERVICE_CAT_CHAR	CHAR_VAL_FK2	VARCHAR	50
C1_SERVICE_CAT_CHAR	CHAR_VAL_FK3	VARCHAR	50
C1_SERVICE_CAT_CHAR	CHAR_VAL_FK4	VARCHAR	50
C1_SERVICE_CAT_CHAR	CHAR_VAL_FK5	VARCHAR	50
C1_SERVICE_CAT_CHAR	SEQ_NUM	NUMB	3
C1_SERVICE_CAT_CHAR	SRCH_CHAR_VAL	VARCHAR	50
C1_SERVICE_CAT_CHAR	VERSION	NUMB	5
C1_SERVICE_CAT_L	C1_SERVICE_CAT_CD	VARCHAR	30
C1_SERVICE_CAT_L	DESCR100	VARCHAR	100
C1_SERVICE_CAT_L	DESCRLONG	VARCHAR	4000
C1_SERVICE_CAT_L	LANGUAGE_CD	CHAR	3
C1_SERVICE_CAT_L	VERSION	NUMB	5
C1_SERVICE_CAT_SVC_CD	C1_SERVICE_CAT_CD	VARCHAR	30
C1_SERVICE_CAT_SVC_CD	C1_SERVICE_CD	VARCHAR	30
C1_SERVICE_CAT_SVC_CD	VERSION	NUMB	5
C1_SERVICE_CODE	BO_XML_DATA_AREA	XML	1073741824
C1_SERVICE_CODE	BUS_OBJ_CD	CHAR	30
C1_SERVICE_CODE	C1_SERVICE_CD	VARCHAR	30
C1_SERVICE_CODE	VERSION	NUMB	5
C1_SERVICE_CODE_CHAR	ADHOC_CHAR_VAL	VARCHAR	254
C1_SERVICE_CODE_CHAR	C1_SERVICE_CD	VARCHAR	30
C1_SERVICE_CODE_CHAR	CHAR_TYPE_CD	CHAR	8
C1_SERVICE_CODE_CHAR	CHAR_VAL	CHAR	16
C1_SERVICE_CODE_CHAR	CHAR_VAL_FK1	VARCHAR	50
C1_SERVICE_CODE_CHAR	CHAR_VAL_FK2	VARCHAR	50
C1_SERVICE_CODE_CHAR	CHAR_VAL_FK3	VARCHAR	50
C1_SERVICE_CODE_CHAR	CHAR_VAL_FK4	VARCHAR	50
C1_SERVICE_CODE_CHAR	CHAR_VAL_FK5	VARCHAR	50
C1_SERVICE_CODE_CHAR	SEQ_NUM	NUMB	3
C1_SERVICE_CODE_CHAR	SRCH_CHAR_VAL	VARCHAR	50
C1_SERVICE_CODE_CHAR	VERSION	NUMB	5
C1_SERVICE_CODE_L	C1_SERVICE_CD	VARCHAR	30
C1_SERVICE_CODE_L	DESCR100	VARCHAR	100

C1_SERVICE_CODE_L	DESCRLONG	VARCHAR	4000
C1_SERVICE_CODE_L	LANGUAGE_CD	CHAR	3
C1_SERVICE_CODE_L	VERSION	NUMB	5
C1_SERVICE_CODE_QUESTION	C1_BEHAVIOR_FLG	CHAR	4
C1_SERVICE_CODE_QUESTION	C1_QUESTION_CD	VARCHAR	30
C1_SERVICE_CODE_QUESTION	C1_SERVICE_CD	VARCHAR	30
C1_SERVICE_CODE_QUESTION	SEQ_NUM	NUMB	3
C1_SERVICE_CODE_QUESTION	VERSION	NUMB	5
CI_CC	C1_SS_DELIVERY_TYPE	CHAR	4
CI_CC	CC_INT_STAT_FLG	CHAR	4
CI_CC	CC_INT_STAT_RSN_DESCR	VARCHAR	500
CI_CC	CONTACT_VALUE	VARCHAR	254
CI_CC	EDGE_APP_ID_FLG	CHAR	4
CI_CC	MESSAGE_SUBJECT	VARCHAR	256
CI_CC	NTF_CONTACT_ID	CHAR	10
CI_CC	NTF_EVT_TYPE_FLG	CHAR	4
CI_CC	NTF_INST_ID	CHAR	32
CI_CC	NTF_PREF_ID	CHAR	14
CI_CC	NTF_TYPE_CD	VARCHAR	30

Chapter 3

Meter-Related Database Changes

This chapter provides lists of meter-related database changes in the 22B release of Oracle Utilities cloud services. This includes:

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

New Tables

Table	Name	Description
D1_DYN_OPT_QUESTION*	Dynamic Option Questions	Used to store qualification questions for end customer enrollment into a program.
D1_DYN_OPT_RATE*	Dynamic Option Rates	Used to store the customer rates for utility service that are allowed for a given program.
D1_DYN_OPT_RULE*	Dynamic Option Rules	Used to store rules governing a customer's participation in a program.
D1_DYN_OPT_SPECIFICATION*	Dynamic Option Specification	Used to store device specifications valid for a customer's participation in a program.
D1_DYN_OPT_TYPE_REL*	Dynamic Option Type Relationship	Used to store the dynamic option (program) types that are applicable/related to another program type. For example, a Home Energy Assessment Program that goes with a Thermostat Program. This is used by the enrollment process to present potential subscribers and a list of related programs that they might be interested in.

D1_EVT_PARTICIPATION*	Event Participation	Used to store a customer's participation in a curtailment event associated with a program.
D1_EVT_PARTICIPATION_CHAR*	Event Participation Characteristics	Used to store codified attributes related a customer's participation in an event.
D1_EVT_PARTICIPATION_K*	Event Participation Key	Key table related to the Event Participation table
D1_EVT_PARTICIPATION_LOG*	Event Participation Log	Used to store log entries as an Event Participation moves through its lifecycle.
D1_EVT_PARTICIPATION_LOG_PARM*	Event Participation Log Parameter	Used to store parameters related to the Event Participation Log
D1_RULE*	Rule	Used to store rules that can be applied to one or more programs.
D1_RULE_CHAR*	Rule Characteristic	Used to store codified attributes of a rule.
D1_RULE_L*	Rule Language	Language table related to the Rule table.
D1_US_TYPE_VALID_US_CHAR*	Usage Subscription Type - Valid US Characteristics	Used to store valid characteristics for a program subscription, typically used for checking program eligibility.

* Used by Digital Asset Cloud Service

New Indexes

Table_Name	Index_Name
D1_DYN_OPT_QUESTION	D1M646P0*
D1_DYN_OPT_RATE	D1M645P0*
D1_DYN_OPT_RULE	D1M647P0*
D1_DYN_OPT_SPECIFICATION	D1M638P0*
D1_DYN_OPT_TYPE_REL	D1M648P0*
D1_EVT_PARTICIPATION	D1T639P0*
D1_EVT_PARTICIPATION_CHAR	D1T641P0*
D1_EVT_PARTICIPATION_CHAR	D1T641S1*
D1_EVT_PARTICIPATION_K	D1T640P0*
D1_EVT_PARTICIPATION_LOG	D1T642P0*
D1_RULE	D1C649P0*

D1_RULE_CHAR	D1C651P0*
D1_RULE_L	D1C650P0*
D1_EVT_PARTICIPATION_LOG_PARM	D1T643P0*
D1_US_TYPE_VALID_US_CHAR	D1C644P0*
D1_US_TYPE_VALID_US_CHAR	D1C644S1*

* Used by Digital Asset Cloud Service

New Columns

Table_Name	Column_Name	Data Type	Data Length
D1_DYN_OPT	EXT_DYN_OPT_ID_VALUE*	VARCHAR2	120
D1_DYN_OPT	D1_INITIATIVE_CD*	VARCHAR2	30
D1_DYN_OPT	D1_APPROVAL_PROF_CD*	VARCHAR2	30
D1_DYN_OPT	DIVISION_CD*	VARCHAR2	30
D1_DYN_OPT	START_DT*	DATE	10
D1_DYN_OPT	END_DT*	DATE	10
D1_DYN_OPT	SUSPEND_FLG*	CHAR	4
D1_DYN_OPT_EVENT	DYN_OPT_EVENT_CAT_FLG*	CHAR	4
D1_DYN_OPT_TYPE	DYN_OPT_EVENT_BO_CD*	CHAR	30
D1_DYN_OPT_TYPE	D1_APPROVAL_PROF_CD*	VARCHAR2	30
D1_DYN_OPT_TYPE	EVENT_PARTICIPATION_BO_CD*	CHAR	30
D1_SP_EQPMN	SEQNO*	NUMBER	5
D1_SP_EQPMN	ACTIVE_INACTIVE_FLG*	CHAR	4
D1_SP_TYPE	SP_CLASS_FLG*	CHAR	4
D1_USAGE_PERIOD_SQ	D1_VARIABLE_NAME*	CHAR	20
D1_USAGE_PERIOD_SQ	D1_FORMULA*	VARCHAR2	50
D1_US_DYN_OPT	SEQNO*	NUMBER	5
D1_US_SP	SEQNO	NUMBER	5

* Used by Digital Asset Cloud Service

Chapter 4

Work and Asset-Related Database Changes

This chapter provides lists of work and asset-related database changes in the 22B release of Oracle Utilities cloud services. This includes:

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

New Tables

Table	Name	Description
W1_AST_DERMS_EVTCTL_CSTHIST*	Asset DERMS Event Control History	Used to store the control score history for an asset.
W1_DESIGN_ELEMENT_CHKLIST_TYP	Design Element Checklist Type	Used to store General and Permit Required Checklist Types against the Design Element to be created when a Template Construction Work Order creates a Construction Activity.
W1_DESIGN_ELEMENT_DEP	Design Element Dependency	Used to store Construction Activity Dependencies against the Design Element to be created when a Template Construction Work Order creates a Construction Activity. The Dependencies would need to be within the Template Construction Activities of the same Template Construction Work Order.

*Used by Digital Asset Cloud Service

New Columns

Table_Name	Column_Name	Data Type	Data Length
W1_ASSET	CST_SCORE*	NUMBER	22
W1_ASSET	CST_SCR_DTTM*	DATE	7
W1_AST_DERMS_EVTCTL_CSTHIST	ASSET_ID*	CHAR	48
W1_AST_DERMS_EVTCTL_CSTHIST	CST_SCORE*	NUMBER	22
W1_AST_DERMS_EVTCTL_CSTHIST	VERSION*	NUMBER	22
W1_AST_DERMS_EVTCTL_CSTHIST	W1_DYN_OPT_EVENT_ID*	CHAR	56
W1_DESIGN_ELEMENT	ACT_TYPE_CD	VARCHAR2	120
W1_DESIGN_ELEMENT	PLANNER_CD	VARCHAR2	120
W1_DESIGN_ELEMENT	SERVICE_CLASS_CD	VARCHAR2	120
W1_DESIGN_ELEMENT	W1_CREW_ID	CHAR	48
W1_DESIGN_ELEMENT	WORK_CATEGORY_CD	VARCHAR2	120
W1_DESIGN_ELEMENT	WORK_CLASS_CD	VARCHAR2	120
W1_DESIGN_ELEMENT	WORK_PRIORITY_FLG	CHAR	16
W1_DESIGN_ELEMENT_CHKLIST_TYP	CHECKLIST_TYPE_CD	VARCHAR2	120
W1_DESIGN_ELEMENT_CHKLIST_TYP	DESIGN_ELEMENT_ID	CHAR	48
W1_DESIGN_ELEMENT_CHKLIST_TYP	VERSION	NUMBER	22
W1_DESIGN_ELEMENT_DEP	DESIGN_ELEMENT_ID	CHAR	48
W1_DESIGN_ELEMENT_DEP	PRED_DESIGN_ELEMENT_ID	CHAR	48
W1_DESIGN_ELEMENT_DEP	RESOURCE_OPTION_FLG	CHAR	16
W1_DESIGN_ELEMENT_DEP	TIMING_OPTION_FLG	CHAR	16
W1_DESIGN_ELEMENT_DEP	VERSION	NUMBER	22
W1_DESIGN_ELEMENT_DEP	W1_MAX_OFFSET	NUMBER	22
W1_DESIGN_ELEMENT_DEP	W1_MIN_OFFSET	NUMBER	22
W1_STOCK_ITEM_DTL	ORDER_ON_DEMAND_FLG	CHAR	16
W1_SVC_HIST	W1_DYN_OPT_EVENT_ID*	CHAR	56
W1_WORK_DESIGN	W1_CREW_ID	CHAR	48
W1_WORK_DESIGN	WD_SUBCLASS_FLG	CHAR	16
W1_WORK_DESIGN	WORK_CATEGORY_CD	VARCHAR2	120
W1_WORK_DESIGN	WORK_CLASS_CD	VARCHAR2	120
W1_WORK_DESIGN	WORK_PRIORITY_FLG	CHAR	16

W1_WORK_DESIGN	WO_BUS_OBJ_CD	VARCHAR2	120
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* Used by Digital Asset Cloud Service

New Indexes

Table_Name	Index_Name	Column_Name
W1_ACT_CONSTR_LOC	W1T780S1	ACT_ID
W1_APPROVAL_PROF	W1C556S1	BUS_OBJ_CD
W1_APPROVAL_PROF	W1C556S1	MAINT_OBJ_CD
W1_AST_DERMS_EVTCTL_CSTHIST	W1M967P0*	ASSET_ID
W1_AST_DERMS_EVTCTL_CSTHIST	W1M967P0*	W1_DYN_OPT_EVENT_ID
W1_DESIGN_ELEMENT_CHKLIST_TYP	W1T966P0	CHECKLIST_TYPE_CD
W1_DESIGN_ELEMENT_CHKLIST_TYP	W1T966P0	DESIGN_ELEMENT_ID
W1_DESIGN_ELEMENT_DEP	W1T965P0	DESIGN_ELEMENT_ID
W1_DESIGN_ELEMENT_DEP	W1T965P0	PRED_DESIGN_ELEMENT_ID
W1_EMPLOYEE	W1M500S5	EMPLOYEE_USER_ID
W1_EMPLOYEE	W1M500S6	SUPERVISOR_ID
W1_RR	W1T405S2	STOCK_ITEM_DTL_ID
W1_TIMEKEEPER	W1C948S1	USER_ID

* Used by Digital Asset Cloud Service

Chapter 5

Application Framework Database Changes

This chapter provides lists of database changes in Oracle Utilities Application Framework included with the 22B release of Oracle Utilities cloud services. This includes:

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

New Tables

Table	Name	Description
F1_REDACTION_RULE	Redaction Rule	Used to define redaction configuration for fields that may contain personal identifiable information.*
F1_REDACTION_RULE_L	Redaction Rule Language	Language table related to the Redaction Rule table.*

*Future use only.

New Columns

Table_Name	Column_Name	Data Type	Data Length
F1_CRYPTOKEYRING	OWNER_FLG	CHAR	4
F1_CRYPTOKEYRING_L	OWNER_FLG	CHAR	4

Modified Columns

Table_Name	Column_Name	From	To
F1_PROC_PANEL	UI_MAP_CD	Varchar30	Char30