

**Oracle Utilities Cloud Services**  
Database Changes Guide  
For 20A Releases  
**F31287-01**

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Oracle Utilities Cloud Services 20A Database Changes Guide

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# Chapter 1

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## Introduction

This document describes changes in the database in the 20A release of Oracle Utilities cloud services. This includes:

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

# Chapter 2

## Customer Cloud Service Database Changes

This chapter provides lists of database changes in the 20A release of Oracle Utilities Customer Cloud Service. This includes:

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

### New Tables

Table_Name
C1_CS_REQ_TYPE_ALG

### New Indexes

Table_Name	Index_Name
C1_CS_REQ_TYPE_ALG	C1C126P0

### New Views

View
C1_BI_BILLED_USAGE_VW
C1_BI_BILL_DAY_IN_WIN_VW
C1_BI_BILL_VW

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 C1\_BI\_DAYS\_B4\_WIN\_CLOSSES\_VW
 

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 C1\_BI\_FTGL\_VW
 

---

 C1\_BI\_FT\_VW
 

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 X1\_BI\_DVC\_INFO\_VW
 

---

 X1\_BI\_USG\_EXCEPTION\_VW
 

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 X1\_BI\_VEE\_EXCEPTION\_VW
 

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## New Columns

Table_Name	Column_Name	Data Type	Data Length
C1_CS_REQ_TYPE_ALG	ALG_CD	CHAR	12
C1_CS_REQ_TYPE_ALG	CS_REQ_ALG_ENTITY_FLG	CHAR	4
C1_CS_REQ_TYPE_ALG	CS_REQ_TYPE_CD	VARCHAR2	30
C1_CS_REQ_TYPE_ALG	SEQ_NUM	NUMBER	3,0
C1_CS_REQ_TYPE_ALG	VERSION	NUMBER	5,0
C0_INSTALLATION	NAME_SEPARATOR	CHAR	1
C0_INSTALLATION	USE_NAME_SEPARATOR_SW	CHAR	1
CL_TNDR_SRCE	PRINTER_IP_ADDRESS	VARCHAR2	60
CL_TNDR_SRCE	PRINTER_PORT	VARCHAR2	6

## Other Database Changes

This release of Oracle Utilities Customer Cloud Service also includes the following database changes:

- [Meter Solution Cloud Service Database Changes](#)
- [Work and Asset Cloud Service Database Changes](#)
- [Application Framework Database Changes](#)

# Chapter 3

## Meter Solution Cloud Service Database Changes

This chapter provides lists of database changes in the 20A release of Oracle Utilities Meter Solution Cloud Service. This includes:

- [New Primary Keys](#)
- [New Indexes](#)
- [New Views](#)
- [New Columns](#)
- [Other Database Changes](#)

### New Primary Keys

Table_Name	Index Name	Column Name
D1_US_QTY	D1M576P0	D1_US_QTY_ID

### New Indexes

Table_Name	Index_Name
D1_US_QTY	D1M576P0

### New Views

View
D1_BI_DYN_AGG_VW

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## New Columns

Table_Name	Column_Name	Data Type	Data Length
D1_SP_EQPMNT	EQPMNT_CNT	NUMBER	11, 2

## Other Database Changes

This release of Oracle Utilities Meter Solution Cloud Service also includes the following database changes:

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



# Chapter 4

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## Work and Asset Cloud Service Database Changes

This chapter provides lists of database changes in the 20A release of Oracle Utilities Work and Asset Cloud Service. This includes:

- [New Tables](#)
- [New Indexes](#)
- [New Columns](#)
- [Modified Columns](#)
- [Dropped Columns](#)
- [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 Cloud Service.

### New Tables

Table_Name
W1_ADJUSTMENT_TYPE
W1_ADJUSTMENT_TYPE_CHAR
W1_ADJUSTMENT_TYPE_L
W1_ADJUSTMENT
W1_ADJUSTMENT_CHAR
W1_ADJUSTMENT_DOCUMENT
W1_ADJUSTMENT_DTL
W1_ADJUSTMENT_IDENTIFIER
W1_ADJUSTMENT_LOG

W1_ADJUSTMENT_LOG_PARM
W1_SHIPPING_LINE
W1_SHIPPING_LINE_ASSET
W1_SHIPPING_LINE_CHAR
W1_SHIPPING_LINE_LOT
W1_SHIPPING_MEMO
W1_SHIPPING_MEMO_CHAR
W1_SHIPPING_MEMO_DOCUMENT
W1_SHIPPING_MEMO_IDENTIFIER
W1_SHIPPING_MEMO_LOG
W1_SHIPPING_MEMO_LOG_PARM
W1_SHIPPING_MEMO_NOTE

## New Indexes

Table_Name	Index_Name
W1_ADJUSTMENT	W1C890P0
W1_ADJUSTMENT_CHAR	W1C892P0
W1_ADJUSTMENT_DOCUMENT	W1C895P0
W1_ADJUSTMENT_DTL	W1C891P0
W1_ADJUSTMENT_IDENTIFIER	W1C893P0
W1_ADJUSTMENT_LOG	W1C896P0
W1_ADJUSTMENT_LOG_PARM	W1C897P0
W1_ADJUSTMENT_TYPE	W1889P0
W1_ADJUSTMENT_TYPE_CHAR	W1C892S1
W1_ADJUSTMENT_TYPE_CHAR	W1C900P0
W1_ADJUSTMENT_TYPE_L	W1C899P0
W1_SHIPPING_LINE	W1T911P0
W1_SHIPPING_LINE	W1T911S1
W1_SHIPPING_LINE	W1T911S2
W1_SHIPPING_LINE	W1T911S3
W1_SHIPPING_LINE	W1T911S4
W1_SHIPPING_LINE	W1T911S5

W1_SHIPPING_LINE_ASSET	W1T913P0
W1_SHIPPING_LINE_ASSET	W1T913S1
W1_SHIPPING_LINE_ASSET	W1T913S2
W1_SHIPPING_LINE_CHAR	W1T914S1
W1_SHIPPING_LINE_CHAR	W1T915P0
W1_SHIPPING_LINE_LOT	W1T912P0
W1_SHIPPING_LINE_LOT	W1T912S1
W1_SHIPPING_LINE_LOT	W1T912S2
W1_SHIPPING_MEMO	W1T903P0
W1_SHIPPING_MEMO	W1T903S2
W1_SHIPPING_MEMO	W1T903S3
W1_SHIPPING_MEMO	W1T903S4
W1_SHIPPING_MEMO	W1T903S5
W1_SHIPPING_MEMO	W1T903S6
W1_SHIPPING_MEMO_CHAR	W1T904P0
W1_SHIPPING_MEMO_CHAR	W1T904S1
W1_SHIPPING_MEMO_DOCUMENT	W1T908P0
W1_SHIPPING_MEMO_DOCUMENT	W1T905P0
W1_SHIPPING_MEMO_IDENTIFIER	W1T905P0
W1_SHIPPING_MEMO_IDENTIFIER	W1T905S1
W1_SHIPPING_MEMO_K	W1T910P0
W1_SHIPPING_MEMO_LOG	W1T906P0
W1_SHIPPING_MEMO_LOG	W1T906S1
W1_SHIPPING_MEMO_LOG	W1T906S2
W1_SHIPPING_MEMO_LOG_PARM	W1T907P0
W1_SHIPPING_MEMO_NOTE	W1T909P0
W1_TMPL_WO	W1M610S3
W1_ACTIVITY_IDENTIFIER	W1T247S1
W1_ACTIVITY_TYPE_IDENTIFIER	W1C242S1
W1_ACT_RESRC_REQMT_IDENTIFIER	W1T375S1
W1_APPROVAL_PROF_IDENTIFIER	W1C560S1
W1_APPROVAL_REQ_IDENTIFIER	W1T294S1
W1_ASSET_IDENTIFIER	W1M014S1
W1_BC_HEADER_IDENTIFIER	W1T349S1

W1_BUYER_IDENTIFIER	W1C677S1
W1_CONFIG_IDENTIFIER	W1M487S1
W1_CONFIG_RPT_IDENTIFIER	W1M494S1
W1_COST_CENTER_IDENTIFIER	W1M708S2
W1_CREW_IDENTIFIER	W1M519S1
W1_DOCUMENT_IDENTIFIER	W1M580S2
W1_EMPLOYEE_IDENTIFIER	W1M505S1
W1_EU_IDENTIFIER	W1M513S1
W1_EXPEDITE_IDENTIFIER	W1T499S1
W1_EXPENSE_CD_IDENTIFIER	W1M709S2
W1_INVOICE_HEADER_IDENTIFIER	W1T503S1
W1_INVOICE_LINE_IDENTIFIER	W1T527S2
W1_MAINT_EVENT_IDENTIFIER	W1M716S1
W1_MAINT_SCHEDULE_IDENTIFIER	W1M655S1
W1_MAINT_TRIGGER_IDENTIFIER	W1M701S1
W1_MANUFACTURER_IDENTIFIER	W1C225S1
W1_MAT_DISP_IDENTIFIER	W1T459S1
W1_MEASUREMENT_TYPE_IDENTIFIER	W1C522S1
W1_ODC_IDENTIFIER	W1T335S1
W1_PROJECT_IDENTIFIER	W1M603S1
W1_PR_HDR_IDENTIFIER	W1T436S2
W1_RCPT_HDR_IDENTIFIER	W1T462S1
W1_RESRC_TYPE_IDENTIFIER	W1M558S1
W1_SPECIFICATION_IDENTIFIER	W1C229S1
W1_STOCK_ITEM_DTL_IDENTIFIER	W1M712S1
W1_SVC_HIST_IDENTIFIER	W1M280S1
W1_TIMESHEET_IDENTIFIER	W1M590S1
W1_TMPL_ACT_IDENTIFIER	W1M621S1
W1_TMPL_ACT_RSRC_IDENTIFIER	W1M629S1
W1_TMPL_WO_IDENTIFIER	W1M612S1
W1_VENDOR_IDENTIFIER	W1M635S2
W1_VENDOR_LOC_IDENTIFIER	W1M639S2
W1_WARRANTY_IDENTIFIER	W1M525S1
W1_WORK_LOC_IDENTIFIER	W1M725S1

W1_WORK_REQ_IDENTIFIER	W1T299S1
W1_WO_IDENTIFIER	W1T233S1

## New Columns

Table_Name	Column_Name	Data Type	Data Length
W1_ADJUSTMENT	ADJUSTMENT_ID	CHAR	14
W1_ADJUSTMENT	ADJUSTMENT_TYPE_CD	VARCHAR2	30
W1_ADJUSTMENT	APPROVAL_PROF_CD	VARCHAR2	30
W1_ADJUSTMENT	BO_DATA_AREA	CLOB	4000
W1_ADJUSTMENT	BO_STATUS_CD	CHAR	12
W1_ADJUSTMENT	BO_STATUS_REASON_CD	VARCHAR2	30
W1_ADJUSTMENT	BUS_OBJ_CD	CHAR	30
W1_ADJUSTMENT	CREATE_BY_USER	CHAR	8
W1_ADJUSTMENT	CRE_DTTM	DATE	7
W1_ADJUSTMENT	CURRENCY_CD	CHAR	3
W1_ADJUSTMENT	DESCR100	VARCHAR2	100
W1_ADJUSTMENT	DESCR254	VARCHAR2	254
W1_ADJUSTMENT	STATUS_UPD_DTTM	DATE	7
W1_ADJUSTMENT	TRANSFER_FLG	CHAR	4
W1_ADJUSTMENT	VERSION	NUMBER	22
W1_ADJUSTMENT_CHAR	ADHOC_CHAR_VAL	VARCHAR2	254
W1_ADJUSTMENT_CHAR	ADJUSTMENT_ID	CHAR	14
W1_ADJUSTMENT_CHAR	CHAR_TYPE_CD	CHAR	8
W1_ADJUSTMENT_CHAR	CHAR_VAL	CHAR	16
W1_ADJUSTMENT_CHAR	CHAR_VAL_FK1	VARCHAR2	50
W1_ADJUSTMENT_CHAR	CHAR_VAL_FK2	VARCHAR2	50
W1_ADJUSTMENT_CHAR	CHAR_VAL_FK3	VARCHAR2	50
W1_ADJUSTMENT_CHAR	CHAR_VAL_FK4	VARCHAR2	50
W1_ADJUSTMENT_CHAR	CHAR_VAL_FK5	VARCHAR2	50
W1_ADJUSTMENT_CHAR	SEQ_NUM	NUMBER	22
W1_ADJUSTMENT_CHAR	SRCH_CHAR_VAL	VARCHAR2	50
W1_ADJUSTMENT_CHAR	VERSION	NUMBER	22

W1_ADJUSTMENT_DOCUMENT	ADJUSTMENT_ID	CHAR	14
W1_ADJUSTMENT_DOCUMENT	ATTACHMENT_ID	CHAR	14
W1_ADJUSTMENT_DOCUMENT	CRE_DTTM	DATE	7
W1_ADJUSTMENT_DOCUMENT	DOCUMENT_ID	CHAR	12
W1_ADJUSTMENT_DOCUMENT	USER_ID	CHAR	8
W1_ADJUSTMENT_DOCUMENT	VERSION	NUMBER	22
W1_ADJUSTMENT_DTL	ACT_ID	CHAR	14
W1_ADJUSTMENT_DTL	ADJUSTMENT_ID	CHAR	14
W1_ADJUSTMENT_DTL	AMT	NUMBER	22
W1_ADJUSTMENT_DTL	COST_CENTER_CD	VARCHAR2	30
W1_ADJUSTMENT_DTL	EXPENSE_CD	VARCHAR2	30
W1_ADJUSTMENT_DTL	PRJ_ID	CHAR	12
W1_ADJUSTMENT_DTL	VERSION	NUMBER	22
W1_ADJUSTMENT_IDENTIFIER	ADJUSTMENT_ID	CHAR	14
W1_ADJUSTMENT_IDENTIFIER	ADJUSTMENT_ID_TYPE_FLG	CHAR	4
W1_ADJUSTMENT_IDENTIFIER	VERSION	NUMBER	22
W1_ADJUSTMENT_IDENTIFIER	W1_ID_VALUE	VARCHAR2	60
W1_ADJUSTMENT_LOG	ADHOC_CHAR_VAL	VARCHAR2	254
W1_ADJUSTMENT_LOG	ADJUSTMENT_ID	CHAR	14
W1_ADJUSTMENT_LOG	BO_STATUS_CD	CHAR	12
W1_ADJUSTMENT_LOG	BO_STATUS_REASON_CD	VARCHAR2	30
W1_ADJUSTMENT_LOG	CHAR_TYPE_CD	CHAR	8
W1_ADJUSTMENT_LOG	CHAR_VAL	CHAR	16
W1_ADJUSTMENT_LOG	CHAR_VAL_FK1	VARCHAR2	50
W1_ADJUSTMENT_LOG	CHAR_VAL_FK2	VARCHAR2	50
W1_ADJUSTMENT_LOG	CHAR_VAL_FK3	VARCHAR2	50
W1_ADJUSTMENT_LOG	CHAR_VAL_FK4	VARCHAR2	50
W1_ADJUSTMENT_LOG	CHAR_VAL_FK5	VARCHAR2	50
W1_ADJUSTMENT_LOG	DESCRLONG	VARCHAR2	4000
W1_ADJUSTMENT_LOG	LOG_DTTM	DATE	7
W1_ADJUSTMENT_LOG	LOG_ENTRY_TYPE_FLG	CHAR	4
W1_ADJUSTMENT_LOG	MESSAGE_CAT_NBR	NUMBER	22
W1_ADJUSTMENT_LOG	MESSAGE_NBR	NUMBER	22
W1_ADJUSTMENT_LOG	SEQNO	NUMBER	22

W1_ADJUSTMENT_LOG	USER_ID	CHAR	8
W1_ADJUSTMENT_LOG	VERSION	NUMBER	22
W1_ADJUSTMENT_LOG_PARM	ADJUSTMENT_ID	CHAR	14
W1_ADJUSTMENT_LOG_PARM	F1_MSG_PARM_VLONG	VARCHAR2	2000
W1_ADJUSTMENT_LOG_PARM	MSG_PARM_TYP_FLG	CHAR	4
W1_ADJUSTMENT_LOG_PARM	PARM_SEQ	NUMBER	22
W1_ADJUSTMENT_LOG_PARM	SEQNO	CHAR	5
W1_ADJUSTMENT_LOG_PARM	VERSION	NUMBER	22
W1_ADJUSTMENT_TYPE	ADJUSTMENT_BUS_OBJ_CD	CHAR	30
W1_ADJUSTMENT_TYPE	ADJUSTMENT_TYPE_CD	VARCHAR2	30
W1_ADJUSTMENT_TYPE	APPROVAL_PROF_CD	VARCHAR2	30
W1_ADJUSTMENT_TYPE	BO_DATA_AREA	CLOB	4000
W1_ADJUSTMENT_TYPE	BUS_OBJ_CD	CHAR	30
W1_ADJUSTMENT_TYPE	DISTRIBUTION_CD	VARCHAR2	30
W1_ADJUSTMENT_TYPE	OFFSET_COST_CENTER_CD	VARCHAR2	30
W1_ADJUSTMENT_TYPE	OFFSET_EXPENSE_CD	VARCHAR2	30
W1_ADJUSTMENT_TYPE	OWNING_ACCESS_GRP_CD	CHAR	12
W1_ADJUSTMENT_TYPE	VERSION	NUMBER	22
W1_ADJUSTMENT_TYPE_CHAR	ADHOC_CHAR_VAL	VARCHAR2	254
W1_ADJUSTMENT_TYPE_CHAR	ADJUSTMENT_TYPE_CD	VARCHAR2	30
W1_ADJUSTMENT_TYPE_CHAR	CHAR_TYPE_CD	CHAR	8
W1_ADJUSTMENT_TYPE_CHAR	CHAR_VAL	CHAR	16
W1_ADJUSTMENT_TYPE_CHAR	CHAR_VAL_FK1	VARCHAR2	50
W1_ADJUSTMENT_TYPE_CHAR	CHAR_VAL_FK2	VARCHAR2	50
W1_ADJUSTMENT_TYPE_CHAR	CHAR_VAL_FK3	VARCHAR2	50
W1_ADJUSTMENT_TYPE_CHAR	CHAR_VAL_FK4	VARCHAR2	50
W1_ADJUSTMENT_TYPE_CHAR	CHAR_VAL_FK5	VARCHAR2	50
W1_ADJUSTMENT_TYPE_CHAR	SEQ_NUM	NUMBER	22
W1_ADJUSTMENT_TYPE_CHAR	SRCH_CHAR_VAL	VARCHAR2	22
W1_ADJUSTMENT_TYPE_CHAR	VERSION	NUMBER	22
W1_ADJUSTMENT_TYPE_L	ADJUSTMENT_TYPE_CD	VARCHAR2	30
W1_ADJUSTMENT_TYPE_L	DESCR100	VARCHAR2	100
W1_ADJUSTMENT_TYPE_L	LANGUAGE_CD	CHAR	3
W1_ADJUSTMENT_TYPE_L	VERSION	NUMBER	22

W1_FT	ADJUSTMENT_ID	CHAR	14
W1_SHIPPING_LINE	BO_DATA_AREA	CLOB	4000
W1_SHIPPING_LINE	BUS_OBJ_CD	CHAR	30
W1_SHIPPING_LINE	DESCR100	VARCHAR2	100
W1_SHIPPING_LINE	MAT_ISS_LINE_ID	CHAR	14
W1_SHIPPING_LINE	PO_ITEM_NUM	NUMBER	22
W1_SHIPPING_LINE	RESRC_TYPE_ID	CHAR	12
W1_SHIPPING_LINE	RESRC_UOM_CD	VARCHAR2	30
W1_SHIPPING_LINE	RTN_LINE_ID	CHAR	14
W1_SHIPPING_LINE	SHIPPING_LINE_ID	CHAR	14
W1_SHIPPING_LINE	SHIPPING_MEMO_ID	CHAR	14
W1_SHIPPING_LINE	VERSION	NUMBER	22
W1_SHIPPING_LINE	W1_QUANTITY	NUMBER	22
W1_SHIPPING_LINE_ASSET	ASSET_ID	CHAR	12
W1_SHIPPING_LINE_ASSET	MAT_ISS_LINE_ID	CHAR	14
W1_SHIPPING_LINE_ASSET	SHIPPING_LINE_ID	CHAR	14
W1_SHIPPING_LINE_ASSET	VERSION	NUMBER	22
W1_SHIPPING_LINE_CHAR	ADHOC_CHAR_VAL	VARCHAR2	254
W1_SHIPPING_LINE_CHAR	CHAR_TYPE_CD	CHAR	8
W1_SHIPPING_LINE_CHAR	CHAR_VAL	CHAR	16
W1_SHIPPING_LINE_CHAR	CHAR_VAL_FK1	VARCHAR2	50
W1_SHIPPING_LINE_CHAR	CHAR_VAL_FK2	VARCHAR2	50
W1_SHIPPING_LINE_CHAR	CHAR_VAL_FK3	VARCHAR2	50
W1_SHIPPING_LINE_CHAR	CHAR_VAL_FK4	VARCHAR2	50
W1_SHIPPING_LINE_CHAR	CHAR_VAL_FK5	VARCHAR2	50
W1_SHIPPING_LINE_CHAR	SEQ_NUM	NUMBER	22
W1_SHIPPING_LINE_CHAR	SHIPPING_LINE_ID	CHAR	14
W1_SHIPPING_LINE_CHAR	SRCH_CHAR_VAL	VARCHAR2	50
W1_SHIPPING_LINE_CHAR	VERSION	NUMBER	22
W1_SHIPPING_LINE_K	ENV_ID	NUMBER	22
W1_SHIPPING_LINE_K	SHIPPING_LINE_ID	CHAR	14
W1_SHIPPING_LINE_LOT	LOT_ID	VARCHAR2	100
W1_SHIPPING_LINE_LOT	MAT_ISS_LINE_ID	CHAR	14
W1_SHIPPING_LINE_LOT	SHIPPING_LINE_ID	CHAR	14



W1_SHIPPING_LINE_LOT	VERSION	NUMBER	22
W1_SHIPPING_LINE_LOT	W1_QUANTITY	NUMBER	22
W1_SHIPPING_MEMO	ADDRESS1	VARCHAR2	254
W1_SHIPPING_MEMO	ADDRESS2	VARCHAR2	254
W1_SHIPPING_MEMO	ADDRESS3	VARCHAR2	254
W1_SHIPPING_MEMO	ADDRESS4	VARCHAR	254
W1_SHIPPING_MEMO	BO_DATA_AREA	CLOB	4000
W1_SHIPPING_MEMO	BO_STATUS_CD	CHAR	12
W1_SHIPPING_MEMO	BO_STATUS_REASON_CD	VARCHAR2	30
W1_SHIPPING_MEMO	BUS_OBJ_CD	CHAR	30
W1_SHIPPING_MEMO	CITY	VARCHAR2	90
W1_SHIPPING_MEMO	COUNTRY	CHAR	3
W1_SHIPPING_MEMO	COUNTY	VARCHAR2	90
W1_SHIPPING_MEMO	CRE_DTTM	DATE	7
W1_SHIPPING_MEMO	DESCR100	VARCHAR2	100
W1_SHIPPING_MEMO	FINAL_DTTM	DATE	7
W1_SHIPPING_MEMO	GEO_CODE	CHAR	11
W1_SHIPPING_MEMO	HOUSE_TYPE	CHAR	2
W1_SHIPPING_MEMO	IN_CITY_LIMIT	CHAR	1
W1_SHIPPING_MEMO	MAT_REQ_HEADER_ID	CHAR	14
W1_SHIPPING_MEMO	NUM1	CHAR	6
W1_SHIPPING_MEMO	NUM2	CHAR	4
W1_SHIPPING_MEMO	POSTAL	CHAR	12
W1_SHIPPING_MEMO	PO_HEADER_ID	CHAR	14
W1_SHIPPING_MEMO	RMA_NUM	VARCHAR2	30
W1_SHIPPING_MEMO	SHIPPED_DT	DATE	7
W1_SHIPPING_MEMO	SHIPPING_MEMO_CAT_FLG	CHAR	4
W1_SHIPPING_MEMO	SHIPPING_MEMO_ID	CHAR	14
W1_SHIPPING_MEMO	SHIPPING_MEMO_NUM	VARCHAR2	14
W1_SHIPPING_MEMO	STATE	CHAR	6
W1_SHIPPING_MEMO	STATUS_UPD_DTTM	DATE	7
W1_SHIPPING_MEMO	TRACKING_NUM	VARCHAR2	30
W1_SHIPPING_MEMO	USER_ID	CHAR	8
W1_SHIPPING_MEMO	VENDOR_LOC_ID	CHAR	12

W1_SHIPPING_MEMO	VERSION	NUMBER	22
W1_SHIPPING_MEMO	W1_CONTACT_EMAIL	VARCHAR2	70
W1_SHIPPING_MEMO	W1_CONTACT_NAME	VARCHAR2	254
W1_SHIPPING_MEMO	W1_DESCR100_UPR	VARCHAR2	100
W1_SHIPPING_MEMO	W1_PHONE	VARCHAR2	24
W1_SHIPPING_MEMO_CHAR	ADHOC_CHAR_VAL	VARCHAR2	254
W1_SHIPPING_MEMO_CHAR	CHAR_TYPE_CD	CHAR	8
W1_SHIPPING_MEMO_CHAR	CHAR_VAL	CHAR	16
W1_SHIPPING_MEMO_CHAR	CHAR_VAL_FK1	VARCHAR2	50
W1_SHIPPING_MEMO_CHAR	CHAR_VAL_FK2	VARCHAR2	50
W1_SHIPPING_MEMO_CHAR	CHAR_VAL_FK3	VARCHAR2	50
W1_SHIPPING_MEMO_CHAR	CHAR_VAL_FK4	VARCHAR2	50
W1_SHIPPING_MEMO_CHAR	CHAR_VAL_FK5	VARCHAR2	50
W1_SHIPPING_MEMO_CHAR	SEQ_NUM	NUMBER	22
W1_SHIPPING_MEMO_CHAR	SHIPPING_MEMO_ID	CHAR	14
W1_SHIPPING_MEMO_CHAR	SRCH_CHAR_VAL	VARCHAR2	50
W1_SHIPPING_MEMO_CHAR	VERSION	NUMBER	22
W1_SHIPPING_MEMO_DOCUMENT	ATTACHMENT_ID	CHAR	14
W1_SHIPPING_MEMO_DOCUMENT	CRE_DTTM	DATE	7
W1_SHIPPING_MEMO_DOCUMENT	DOCUMENT_ID	CHAR	12
W1_SHIPPING_MEMO_DOCUMENT	SHIPPING_MEMO_ID	CHAR	14
W1_SHIPPING_MEMO_DOCUMENT	USER_ID	CHAR	8
W1_SHIPPING_MEMO_DOCUMENT	VERSION	NUMBER	22
W1_SHIPPING_MEMO_IDENTIFIER	SHIPPING_MEMO_ID	CHAR	14
W1_SHIPPING_MEMO_IDENTIFIER	SHIPPING_MEMO_ID_TYPE_FLG	CHAR	4
W1_SHIPPING_MEMO_IDENTIFIER	VERSION	NUMBER	22
W1_SHIPPING_MEMO_IDENTIFIER	W1_ID_VALUE	VARCHAR2	60
W1_SHIPPING_MEMO_K	ENV_ID	NUMBER	22

W1_SHIPPING_MEMO_K	SHIPPING_MEMO_ID	CHAR	14
W1_SHIPPING_MEMO_LOG	ADHOC_CHAR_VAL	VARCHAR2	254
W1_SHIPPING_MEMO_LOG	BO_STATUS_CD	CHAR	12
W1_SHIPPING_MEMO_LOG	BO_STATUS_REASON_CD	VARCHAR2	30
W1_SHIPPING_MEMO_LOG	CHAR_TYPE_CD	CHAR	8
W1_SHIPPING_MEMO_LOG	CHAR_VAL	CHAR	16
W1_SHIPPING_MEMO_LOG	CHAR_VAL_FK1	VARCHAR2	50
W1_SHIPPING_MEMO_LOG	CHAR_VAL_FK2	VARCHAR2	50
W1_SHIPPING_MEMO_LOG	CHAR_VAL_FK3	VARCHAR2	50
W1_SHIPPING_MEMO_LOG	CHAR_VAL_FK4	VARCHAR2	50
W1_SHIPPING_MEMO_LOG	CHAR_VAL_FK5	VARCHAR2	50
W1_SHIPPING_MEMO_LOG	DESCRLONG	VARCHAR2	4000
W1_SHIPPING_MEMO_LOG	LOG_DTTM	DATE	7
W1_SHIPPING_MEMO_LOG	LOG_ENTRY_TYPE_FLG	CHAR	4
W1_SHIPPING_MEMO_LOG	MESSAGE_CAT_NBR	NUMBER	22
W1_SHIPPING_MEMO_LOG	MESSAGE_NBR	NUMBER	22
W1_SHIPPING_MEMO_LOG	SEQNO	NUMBER	22
W1_SHIPPING_MEMO_LOG	SHIPPING_MEMO_ID	CHAR	14
W1_SHIPPING_MEMO_LOG	USER_ID	CHAR	8
W1_SHIPPING_MEMO_LOG	VERSION	NUMBER	22
W1_SHIPPING_MEMO_LOG_PARM	F1_MSG_PARM_VLONG	VARCHAR2	2000
W1_SHIPPING_MEMO_LOG_PARM	MSG_PARM_TYP_FLG	CHAR	4
W1_SHIPPING_MEMO_LOG_PARM	PARAM_SEQ	NUMBER	22
W1_SHIPPING_MEMO_LOG_PARM	SEQNO	NUMBER	22
W1_SHIPPING_MEMO_LOG_PARM	SHIPPING_MEMO_ID	CHAR	14
W1_SHIPPING_MEMO_LOG_PARM	VERSION	NUMBER	22
W1_SHIPPING_MEMO_NOTE	NOTE_DTTM	DATE	7
W1_SHIPPING_MEMO_NOTE	NOTE_TYPE_FLG	CHAR	4
W1_SHIPPING_MEMO_NOTE	NOTE_VALUE	VARCHAR2	4000
W1_SHIPPING_MEMO_NOTE	SEQNO	NUMBER	22

W1_SHIPPING_MEMO_NOTE	SHIPPING_MEMO_ID	CHAR	14
W1_SHIPPING_MEMO_NOTE	USER_ID	CHAR	8
W1_SHIPPING_MEMO_NOTE	VERSION	NUMBER	22
W1_TMPL_ACT	BACK_LOG_GRP_FLG	CHAR	4
W1_TMPL_ACT	OUTAGE_TYPE_FLG	CHAR	4
W1_TMPL_ACT	WORK_PRIORITY_FLG	CHAR	4
W1_TMPL_WO	W1_CREW_ID	CHAR	12

## Modified Columns

Table_Name	Column_Name	Data Type	Data Length
W1_BI_ASTAVAILWO_VW	ECONOMIC_REMAIN_LIFE_YRS	VARCHAR2	40
W1_BI_ASTAVAILWO_VW	REMAIN_LIFE_YRS	VARCHAR2	40

## Dropped Columns

Table_Name	Column_Name
W1_BI_ASSETCOST_VW	ACQUISITION_COST
W1_BI_ASSETCOST_VW	BOOK_VALUE
W1_BI_ASSETCOST_VW	CORE_CHRG
W1_BI_ASSETCOST_VW	DISPOSAL_COST
W1_BI_ASSETCOST_VW	HOURLY_OUT_COST
W1_BI_ASSETCOST_VW	REPLACEMENT_COST
W1_BI_ASSETCOST_VW	SALVAGE_COST
W1_BI_ASTAVAILWO_VW	CREATE_DTTM
W1_TMPL_WO	WORK_CATEGORY_FLG
W1_TMPL_WO	WORK_CLASS_FLG
W1_WO	WORK_CATEGORY_FLG
W1_WO	WORK_CLASS_FLG

## Other Database Changes

This release of Oracle Utilities Work and Asset Cloud Service also includes the following database changes:

- [Application Framework Database Changes](#)

# Chapter 5

## Application Framework Database Changes

This chapter provides lists of database changes in Oracle Utilities Application Framework included with the 20A release of Oracle Utilities cloud services. This includes:

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

### New Tables

Table_Name
F1_FILE_INT_REC
F1_FILE_INT_REC_L
F1_FILE_INT_REC_ALG
F1_FILE_INT_TYPE
F1_FILE_INT_TYPE_L
F1_MD_BI_TBL
F1_MD_BI_TBL_L
F1_MD_BI_TBL_FLD
F1_MO_UPD
F1_DATA_EXPORT_CTRL
F1_DATA_EXPORT_CTRL_LOG
F1_DATA_EXPORT_CTRL_LOG_PARM

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## New Indexes

Table_Name	Index_Name
F1_ATTACHMENT	F1T819S3

## Modified Indexes

Table_Name	Index_Name
F1_ATTACHMENT	F1T819S1

## New Columns

Table_Name	Column_Name	Data Type	Data Length
CI_MD_TBL	KEY_PREFIX_FLD_NAME	CHAR	30