

Oracle Utilities Customer Care and Billing

Database Changes Guide

Release 2.8.0.0.0

F38889-01

April 2021

Copyright © 2017, 2021 Oracle and/or its affiliates. All rights reserved.

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish, or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

If this is software or related documentation that is delivered to the U.S. Government or anyone licensing it on behalf of the U.S. Government, then the following notice is applicable:

U.S. GOVERNMENT END USERS: Oracle programs (including any operating system, integrated software, any programs embedded, installed or activated on delivered hardware, and modifications of such programs) and Oracle computer documentation or other Oracle data delivered to or accessed by U.S. Government end users are "commercial computer software" or "commercial computer software documentation" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, the use, reproduction, duplication, release, display, disclosure, modification, preparation of derivative works, and/or adaptation of i) Oracle programs (including any operating system, integrated software, any programs embedded, installed or activated on delivered hardware, and modifications of such programs), ii) Oracle computer documentation and/or iii) other Oracle data, is subject to the rights and limitations specified in the license contained in the applicable contract. The terms governing the U.S. Government's use of Oracle cloud services are defined by the applicable contract for such services. No other rights are granted to the U.S. Government.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate fail-safe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

Intel and Intel Inside are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. AMD, Epyc, and the AMD logo are trademarks or registered trademarks of Advanced Micro Devices. UNIX is a registered trademark of The Open Group.

This software or hardware and documentation may provide access to or information about content, products, and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services unless otherwise set forth in an applicable agreement between you and Oracle. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services, except as set forth in an applicable agreement between you and Oracle.

Contents

Preface	i
Audience	ii
Related Documents	ii
Updates to this Documentation	ii
Conventions.....	ii
Acronyms	iii
Documentation Accessibility	iii
Chapter 1	
Introduction	1-1
Chapter 2	
Oracle Utilities Customer Care and Billing Database Changes	2-1
New Tables	2-1
New Indexes.....	2-2
Modified Indexes	2-4
New Views.....	2-4
New Columns.....	2-5
Column Format Changes	2-18
Other Database Changes.....	2-19
Chapter 3	
Oracle Utilities Application Framework Database Changes	3-1
New Tables	3-1
New Indexes.....	3-2
Modified Indexes	3-3
New Columns.....	3-3
New Views.....	3-4
Database Parameter Changes.....	3-4

Preface

Welcome to the Oracle Utilities Customer Care and Billing Database Changes Guide.

This guide provides the list of database changes in the following:

- Oracle Utilities Customer Care and Billing V2.8.0.0.0
- Oracle Utilities Application Framework from V4.4.0.2.0 to V4.4.0.3.0

The preface includes the following:

- [Audience](#)
- [Related Documents](#)
- [Updates to this Documentation](#)
- [Conventions](#)
- [Acronyms](#)
- [Documentation Accessibility](#)

Audience

This guide is intended for database administrators who will be installing and maintaining the database for Oracle Utilities Customer Care and Billing.

Related Documents

For more information, refer to these Oracle documents:

Installation Guides and Release Notes

- *Oracle Utilities Customer Care and Billing Release Notes*
- *Oracle Utilities Customer Care and Billing Quick Install Guide*
- *Oracle Utilities Customer Care and Billing Installation Guide*
- *Oracle Utilities Customer Care and Billing Database Administrator's Guide*
- *Oracle Utilities Customer Care and Billing Database Changes Guide*
- *Oracle Utilities Customer Care and Billing Optional Products Installation Guide*
- *Oracle Utilities Customer Care and Billing Licensing Information User Manual*

Administrative and Business User Guides

- *Oracle Utilities Customer Care and Billing Administrative User Guide*
- *Oracle Utilities Customer Care and Billing Business User Guide*

Supplemental Documents

- *Oracle Utilities Customer Care and Billing Server Administration Guide*
- *Oracle Utilities Customer Care and Billing Security Guide*

Updates to this Documentation

This documentation is provided with the version of the product indicated. Additional and updated information about the operations and configuration of the product is available from the Knowledge Base section of My Oracle Support (<http://support.oracle.com>). Please refer to My Oracle Support for more information.

Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.

Convention	Meaning
<i>italic</i>	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

Acronyms

The following terms are used in this document:

Term	Expanded form
CCB	Oracle Utilities Customer Care and Billing
OUIAF	Oracle Utilities Application Framework

Documentation Accessibility

For information about configuring and using accessibility features for Oracle Utilities Analytics, see the documentation at http://docs.oracle.com/cd/E23943_01/bi.1111/e10544/appaccess.htm#BIEUG2756.

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at <http://www.oracle.com/us/corporate/accessibility/index.html>.

Access to Oracle Support

Oracle customers have access to electronic support through My Oracle Support. For more information, visit: <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info> or <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs> if you are hearing impaired.

Chapter 1

Introduction

This document describes changes in the Oracle Utilities Customer Care and Billing database for this release. This includes:

- [Oracle Utilities Customer Care and Billing Database Changes](#)
- [Oracle Utilities Application Framework Database Changes](#)

Chapter 2

Oracle Utilities Customer Care and Billing Database Changes

This chapter provides lists of database changes in the 2.8.0.0.0 release of Oracle Utilities Customer Care and Billing. This includes:

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

New Tables

Table_Name

C1_BI_SA_SNAPSHOT

C1_CS_REQ_SA

C1_CS_REQ_SA_CHAR

C1_CS_REQ_SA_CONTERM

C1_CS_REQ_SA_CONT_QTY

C1_CS_REQ_SA_COP

C1_CS_REQ_SA_COP_OVRD

C1_CS_REQ_SA_K

C1_CS_REQ_SA_LOG

C1_CS_REQ_SA_LOG_PARM

Table_Name
C1_CS_REQ_SA_MSG
C1_CS_REQ_SA_RCHG
C1_CS_REQ_SA_RS
C1_CS_REQ_SA_SP
C1_CS_REQ_SA_SP_CHAR
C1_CS_REQ_SA_SP_FA
C1_CS_REQ_SA_SP_K
C1_CS_REQ_SA_TOU_CONT_VAL
C1_CS_REQ_TYPE_ALG
C1_CS_REQ_TYPE_ALG_CUST_CL
C1_CS_REQ_TYPE_ALG_PER_BUS
C1_CS_REQ_TYPE_CUST_CL
C1_CS_REQ_TYPE_PER_BUS
C1_MKT_PROV_CONFIG_OPT
C1_MKT_PROV_CONFIG_OPT_L
C1_PROV_CONFIG_OPT
C1_PROV_CONFIG_OPT_L
C1_PROV_CONFIG_SATY
C1_PROV_CONFIG_SATY_OVRD
C1_SPR_MKT_OPT
C1_SPR_MKT_OPT_SA
CI_SPR_CHAR

New Indexes

Table_Name	Index_Name
C1_BI_SA_SNAPSHOT	C1M020P0
C1_BI_SA_SNAPSHOT	C1M020S1
C1_BI_SA_SNAPSHOT	C1M020S2
C1_BI_SA_SNAPSHOT	C1M020S3
C1_BI_SA_SNAPSHOT	C1M020S4

Table_Name	Index_Name
CI_BCHG_UP_READ	XT270S1
C1_CS_REQ_SA	C1T141P0
C1_CS_REQ_SA	C1T141S1
C1_CS_REQ_SA_CHAR	C1T143P0
C1_CS_REQ_SA_CHAR	C1T143S1
C1_CS_REQ_SA_CONTERM	C1T151P0
C1_CS_REQ_SA_CONT_QTY	C1T149P0
C1_CS_REQ_SA_COP	C1T153P0
C1_CS_REQ_SA_COP_OVRD	C1T154P0
C1_CS_REQ_SA_K	C1T142P0
C1_CS_REQ_SA_LOG	C1T156P0
C1_CS_REQ_SA_LOG	C1T156S1
C1_CS_REQ_SA_LOG	C1T156S2
C1_CS_REQ_SA_LOG_PARM	C1T157P0
C1_CS_REQ_SA_MSG	C1T155P0
C1_CS_REQ_SA_RCHG	C1T150P0
C1_CS_REQ_SA_RS	C1T148P0
C1_CS_REQ_SA_SP	C1T144P0
C1_CS_REQ_SA_SP_CHAR	C1T147P0
C1_CS_REQ_SA_SP_FA	C1T146P0
C1_CS_REQ_SA_SP_K	C1T145P0
C1_CS_REQ_SA_TOU_CONT_VAL	C1T152P0
C1_CS_REQ_TYPE_ALG	C1C126P0
C1_CS_REQ_TYPE_ALG_CUST_CL	C1C136P0
C1_CS_REQ_TYPE_ALG_PER_BUS	C1C135P0
C1_CS_REQ_TYPE_CUST_CL	C1C138P0
C1_CS_REQ_TYPE_PER_BUS	C1C137P0
C1_MKT_PROV_CONFIG_OPT	C1C129P0
C1_MKT_PROV_CONFIG_OPT	C1C129S1
C1_MKT_PROV_CONFIG_OPT_L	C1C130P0
C1_PROV_CONFIG_OPT	C1C127P0
C1_PROV_CONFIG_OPT	C1C127S1
C1_PROV_CONFIG_OPT_L	C1C128P0

Table_Name	Index_Name
C1_PROV_CONFIG_SATY	C1C132P0
C1_PROV_CONFIG_SATY_OVRD	C1C133P0
C1_SPR_MKT_OPT	C1C131P0
C1_SPR_MKT_OPT	C1C131S1
C1_SPR_MKT_OPT_SA	C1C134P0
CI_SPR_CHAR	XC311P0
CI_SPR_CHAR	XC311S1
CI_SATY_SARELTY	XC345S1
CI_SPR	XC339S2
CI_TNDR_CTL	XT251S4

Modified Indexes

Table_Name	Index_Name
CI_SA_REL	XM158S3

New Views

View
C1_BI_BILLED_USAGE_VW
C1_BI_BILL_DAY_IN_WIN_VW
C1_BI_BILL_VW
C1_BI_DAYS_B4_WIN_CLOSES_VW
C1_BI_COLLECTTYPE_VW
C1_BI_COLLPROC_VW
C1_BI_FTGL_VW
C1_BI_FT_VW
C1_BI_SEVPROC_VW
X1_BI_DVC_INFO_VW

View

X1_BI_USG_EXCEPTION_VW

X1_BI_VEE_EXCEPTION_VW

New Columns

Table_Name	Column_Name	Data Type	Data Length
C1_BI_COLLEVTYPE_VW	COLLECTIBLE_EVT_TYPE_CD	CHAR	12
C1_BI_COLLEVTYPE_VW	DESCR	VARCHAR2	60
C1_BI_COLLPROC_VW	ACCT_ID	CHAR	10
C1_BI_COLLPROC_VW	ACTIVE_COLL_PROC_CNT	NUMBER	
C1_BI_COLLPROC_VW	ACTIVE_SEV_PROC_CNT	NUMBER	
C1_BI_COLLPROC_VW	ARS_AT_END_AMT	NUMBER	15,2
C1_BI_COLLPROC_VW	ARS_AT_START_AMT	NUMBER	15,2
C1_BI_COLLPROC_VW	ARS_DIFF_AMT	NUMBER	15,2
C1_BI_COLLPROC_VW	CANCL_SYS_COLL_PROC_CNT	NUMBER	
C1_BI_COLLPROC_VW	CANCL_USER_COLL_PROC_CNT	NUMBER	
C1_BI_COLLPROC_VW	COLLECTIBLE_ARS_AT_END_AMT	NUMBER	15,2
C1_BI_COLLPROC_VW	COLLECTIBLE_ARS_DIFF_AMT	NUMBER	15,2
C1_BI_COLLPROC_VW	COLLECTIBLE_DURATION	NUMBER	5,0
C1_BI_COLLPROC_VW	COLLECTIBLE_PROC_COMPL_DT	DATE	7
C1_BI_COLLPROC_VW	COLL_ARS_DT	DATE	7
C1_BI_COLLPROC_VW	COLL_CAT_PRIO_FLG	CHAR	2
C1_BI_COLLPROC_VW	COLL_CL_CNTL_CD	CHAR	20
C1_BI_COLLPROC_VW	COLL_PROC_CNT	NUMBER	
C1_BI_COLLPROC_VW	COLL_PROC_COMPL_DT	DATE	7
C1_BI_COLLPROC_VW	COLL_PROC_DURATION	NUMBER	5,0
C1_BI_COLLPROC_VW	COLL_PROC_ID	CHAR	10
C1_BI_COLLPROC_VW	COLL_PROC_TMPL_CD	CHAR	12
C1_BI_COLLPROC_VW	COLL_STATUS_FLG	CHAR	2
C1_BI_COLLPROC_VW	COLL_STAT_RSN_FLG	CHAR	2
C1_BI_COLLPROC_VW	COMMENTS	VARCHAR2	254

Table_Name	Column_Name	Data Type	Data Length
C1_BI_COLLPROC_VW	COMPL_COLL_PROC_CNT	NUMBER	
C1_BI_COLLPROC_VW	CRE_DTTM	DATE	7
C1_BI_COLLPROC_VW	CRIT_PRIO_FLG	CHAR	2
C1_BI_COLLPROC_VW	CURRENCY_CD	CHAR	3
C1_BI_COLLPROC_VW	CURR_ARS_AMT	NUMBER	15,2
C1_BI_COLLPROC_VW	CURR_COLLECTIBLE_EVT_TYPE_CD	CHAR	12
C1_BI_COLLPROC_VW	CURR_COLL_EVT_TYP_CD	CHAR	12
C1_BI_COLLPROC_VW	CURR_SEV_EVT_TYPE_CD	CHAR	12
C1_BI_COLLPROC_VW	EFF_COLLECTIBLE_EVT_TYPE_CD	CHAR	12
C1_BI_COLLPROC_VW	EFF_COLL_EVT_TYP_CD	CHAR	12
C1_BI_COLLPROC_VW	EFF_SEV_EVT_TYPE_CD	CHAR	12
C1_BI_COLLPROC_VW	INACTIVE_COLLECTIBLE_CNT	NUMBER	
C1_BI_COLLPROC_VW	INACTIVE_COLL_PROC_CNT	NUMBER	
C1_BI_COLLPROC_VW	INACTIVE_SEV_PROC_CNT	NUMBER	
C1_BI_COLLPROC_VW	OVERALL_ACTIVE_COLL_CNT	NUMBER	
C1_BI_COLLPROC_VW	OVERALL_COLLECTIBLE_STAT_FLG	CHAR	4
C1_BI_COLLPROC_VW	OVERALL_EFF_COLL_CNT	NUMBER	
C1_BI_COLLPROC_VW	OVERALL_INEFF_COLL_CNT	NUMBER	
C1_BI_COLLPROC_VW	PER_ID	CHAR	10
C1_BI_COLLPROC_VW	SEV_PROC_CNT	NUMBER	
C1_BI_SA_SNAPSHOT	ACCT_ID	CHAR	10
C1_BI_SA_SNAPSHOT	ARS_AMT1	NUMBER	15,2
C1_BI_SA_SNAPSHOT	ARS_AMT10	NUMBER	15,2
C1_BI_SA_SNAPSHOT	ARS_AMT2	NUMBER	15,2
C1_BI_SA_SNAPSHOT	ARS_AMT3	NUMBER	15,2
C1_BI_SA_SNAPSHOT	ARS_AMT4	NUMBER	15,2
C1_BI_SA_SNAPSHOT	ARS_AMT5	NUMBER	15,2
C1_BI_SA_SNAPSHOT	ARS_AMT6	NUMBER	15,2
C1_BI_SA_SNAPSHOT	ARS_AMT7	NUMBER	15,2
C1_BI_SA_SNAPSHOT	ARS_AMT8	NUMBER	15,2
C1_BI_SA_SNAPSHOT	ARS_AMT9	NUMBER	15,2
C1_BI_SA_SNAPSHOT	C1_SNAPSHOT_DT	DATE	7

Table_Name	Column_Name	Data Type	Data Length
C1_BI_SA_SNAPSHOT	C1_SNAPSHOT_TYPE_FLG	CHAR	4
C1_BI_SA_SNAPSHOT	CURRENCY_CD	CHAR	3
C1_BI_SA_SNAPSHOT	CUR_BAL	NUMBER	15,2
C1_BI_SA_SNAPSHOT	ILM_ARCH_SW	CHAR	1
C1_BI_SA_SNAPSHOT	ILM_DT	DATE	7
C1_BI_SA_SNAPSHOT	NEW_CHG_BAL	NUMBER	15,2
C1_BI_SA_SNAPSHOT	PER_ID	CHAR	10
C1_BI_SA_SNAPSHOT	SA_ID	CHAR	10
C1_BI_SA_SNAPSHOT	SA_SNAPSHOT_CNT	NUMBER	
C1_BI_SA_SNAPSHOT	TOT_BAL	NUMBER	15,2
C1_BI_SA_SNAPSHOT	VERSION	NUMBER	5,0
C1_BI_SEVPROC_VW	ACCT_ID	CHAR	10
C1_BI_SEVPROC_VW	ACTIVE_SEV_PROC_CNT	NUMBER	
C1_BI_SEVPROC_VW	ARS_AT_END_AMT	NUMBER	
C1_BI_SEVPROC_VW	ARS_AT_START_AMT	NUMBER	
C1_BI_SEVPROC_VW	ARS_DIFF_AMT	NUMBER	
C1_BI_SEVPROC_VW	CANCL_SYS_SEV_PROC_CNT	NUMBER	
C1_BI_SEVPROC_VW	CANCL_USER_SEV_PROC_CNT	NUMBER	
C1_BI_SEVPROC_VW	COLL_PROC_ID	CHAR	10
C1_BI_SEVPROC_VW	COMMENTS	VARCHAR2	254
C1_BI_SEVPROC_VW	COMPLETED_SEV_PROC_CNT	NUMBER	
C1_BI_SEVPROC_VW	COMPLETE_DT	DATE	7
C1_BI_SEVPROC_VW	CRE_DTTM	DATE	7
C1_BI_SEVPROC_VW	CURRENCY_CD	CHAR	3
C1_BI_SEVPROC_VW	CURR_ARS_AMT	NUMBER	
C1_BI_SEVPROC_VW	CURR_SEV_EVT_TYPE_CD	VARCHAR2	12
C1_BI_SEVPROC_VW	DISCONN_CNT	NUMBER	
C1_BI_SEVPROC_VW	DISCONN_WARN_CNT	NUMBER	
C1_BI_SEVPROC_VW	DISCONN_WARN_DT	DATE	7
C1_BI_SEVPROC_VW	EFF_SEV_EVT_TYPE_CD	VARCHAR2	12
C1_BI_SEVPROC_VW	EVT_SEQ	NUMBER	3,0
C1_BI_SEVPROC_VW	INACTIVE_SEV_PROC_CNT	NUMBER	

Table_Name	Column_Name	Data Type	Data Length
C1_BI_SEVPROC_VW	MESSAGE_CAT_NBR	NUMBER	5,0
C1_BI_SEVPROC_VW	MESSAGE_NBR	NUMBER	5,0
C1_BI_SEVPROC_VW	PER_ID	CHAR	10
C1_BI_SEVPROC_VW	PREM_ID	VARCHAR2	10
C1_BI_SEVPROC_VW	RECONN_CNT	NUMBER	
C1_BI_SEVPROC_VW	SA_ID	CHAR	10
C1_BI_SEVPROC_VW	SEV_ARS_DT	DATE	7
C1_BI_SEVPROC_VW	SEV_PROC_CNT	NUMBER	
C1_BI_SEVPROC_VW	SEV_PROC_DURATION	NUMBER	
C1_BI_SEVPROC_VW	SEV_PROC_ID	CHAR	10
C1_BI_SEVPROC_VW	SEV_PROC_TMPL_CD	CHAR	12
C1_BI_SEVPROC_VW	SEV_STATUS_FLG	CHAR	2
C1_BI_SEVPROC_VW	SEV_STAT_RSN_FLG	CHAR	2
C1_BI_SEVPROC_VW	SVC_DISCONN_DT	DATE	7
C1_BI_SEVPROC_VW	SVC_RECONN_DT	DATE	7
C1_CS_REQ_SA	ACCT_ID	CHAR	10
C1_CS_REQ_SA	ALLOW_EST_SW	CHAR	1
C1_CS_REQ_SA	BO_STATUS_CD	CHAR	12
C1_CS_REQ_SA	BO_STATUS_REASON_CD	VARCHAR	30
C1_CS_REQ_SA	BO_XML_DATA_AREA	XML	1073741824
C1_CS_REQ_SA	BUS_ACTIVITY_DESC	VARCHAR	250
C1_CS_REQ_SA	BUS_OBJ_CD	CHAR	30
C1_CS_REQ_SA	CHAR_PREM_ID	CHAR	10
C1_CS_REQ_SA	CIAC_REVIEW_DT	DATE	10
C1_CS_REQ_SA	CIS_DIVISION	CHAR	5
C1_CS_REQ_SA	CRE_DATE	DATE	26
C1_CS_REQ_SA	CS_REQ_ACCT_ID	CHAR	14
C1_CS_REQ_SA	CS_REQ_ERR_HNDL_FLG	CHAR	4
C1_CS_REQ_SA	CS_REQ_ID	CHAR	14
C1_CS_REQ_SA	CS_REQ_SA_ACT_FLG	CHAR	4
C1_CS_REQ_SA	CS_REQ_SA_ID	CHAR	14
C1_CS_REQ_SA	CURRENCY_CD	CHAR	3

Table_Name	Column_Name	Data Type	Data Length
C1_CS_REQ_SA	CUST_READ_FLG	CHAR	2
C1_CS_REQ_SA	END_DT	DATE	10
C1_CS_REQ_SA	ENRL_ID	CHAR	12
C1_CS_REQ_SA	EXPIRE_DT	DATE	10
C1_CS_REQ_SA	HIGH_BILL_AMT	NUMBER	15
C1_CS_REQ_SA	ILM_ARCH_SW	CHAR	1
C1_CS_REQ_SA	ILM_DT	DATE	10
C1_CS_REQ_SA	INT_CALC_DT	DATE	10
C1_CS_REQ_SA	NBR_PYMNT_PERIODS	NUMBER	3
C1_CS_REQ_SA	NB_APAY_FLG	CHAR	4
C1_CS_REQ_SA	NB_RULE_CD	CHAR	8
C1_CS_REQ_SA	OLD_ACCT_ID	VARCHAR	36
C1_CS_REQ_SA	RENEWAL_DT	DATE	10
C1_CS_REQ_SA	SA_DATA_AREA	CLOB	9999
C1_CS_REQ_SA	SA_ID	CHAR	10
C1_CS_REQ_SA	SA_REL_ID	CHAR	10
C1_CS_REQ_SA	SA_TYPE_CD	CHAR	8
C1_CS_REQ_SA	SA_VERSION	NUMBER	5
C1_CS_REQ_SA	SIC_CD	CHAR	8
C1_CS_REQ_SA	START_DT	DATE	10
C1_CS_REQ_SA	START_OPT_CD	CHAR	12
C1_CS_REQ_SA	STATUS_UPD_DATE	DATE	26
C1_CS_REQ_SA	STOP_REQED_BY	VARCHAR	50
C1_CS_REQ_SA	STOP_RSN_FLG	CHAR	4
C1_CS_REQ_SA	STRT_REQED_BY	VARCHAR	50
C1_CS_REQ_SA	STRT_RSN_FLG	CHAR	4
C1_CS_REQ_SA	TOT_TO_BILL_AMT	NUMBER	15
C1_CS_REQ_SA	VERSION	NUMBER	5
C1_CS_REQ_SA_CHAR	ADHOC_CHAR_VAL	VARCHAR	254
C1_CS_REQ_SA_CHAR	CHAR_TYPE_CD	CHAR	8
C1_CS_REQ_SA_CHAR	CHAR_VAL	CHAR	16
C1_CS_REQ_SA_CHAR	CHAR_VAL_FK1	VARCHAR	50

Table_Name	Column_Name	Data Type	Data Length
C1_CS_REQ_SA_CHAR	CHAR_VAL_FK2	VARCHAR	50
C1_CS_REQ_SA_CHAR	CHAR_VAL_FK3	VARCHAR	50
C1_CS_REQ_SA_CHAR	CHAR_VAL_FK4	VARCHAR	50
C1_CS_REQ_SA_CHAR	CHAR_VAL_FK5	VARCHAR	50
C1_CS_REQ_SA_CHAR	CS_REQ_SA_ID	CHAR	14
C1_CS_REQ_SA_CHAR	CS_REQ_SEQ_NUM	NUMBER	3
C1_CS_REQ_SA_CHAR	EFFDT	DATE	10
C1_CS_REQ_SA_CHAR	SRCH_CHAR_VAL	VARCHAR	50
C1_CS_REQ_SA_CHAR	VERSION	NUMBER	5
C1_CS_REQ_SA_CONTERM	BF_CD	CHAR	8
C1_CS_REQ_SA_CONTERM	CONTERM_TYPE_FLG	CHAR	2
C1_CS_REQ_SA_CONTERM	CS_REQ_SA_ID	CHAR	14
C1_CS_REQ_SA_CONTERM	CS_REQ_SEQ_NUM	NUMBER	3
C1_CS_REQ_SA_CONTERM	END_DT	DATE	10
C1_CS_REQ_SA_CONTERM	PCT_EXEMPT	NUMBER	7
C1_CS_REQ_SA_CONTERM	START_DT	DATE	10
C1_CS_REQ_SA_CONTERM	TAX_CERT	VARCHAR	35
C1_CS_REQ_SA_CONTERM	TAX_EX_TYPE_CD	CHAR	8
C1_CS_REQ_SA_CONTERM	TOU_GRP_CD	VARCHAR	30
C1_CS_REQ_SA_CONTERM	VAL	NUMBER	19
C1_CS_REQ_SA_CONTERM	VERSION	NUMBER	5
C1_CS_REQ_SA_CONT_QTY	CONT_QTY	NUMBER	17
C1_CS_REQ_SA_CONT_QTY	CONT_QTY_TYPE_CD	CHAR	8
C1_CS_REQ_SA_CONT_QTY	CS_REQ_SA_ID	CHAR	14
C1_CS_REQ_SA_CONT_QTY	CS_REQ_SEQ_NUM	NUMBER	3
C1_CS_REQ_SA_CONT_QTY	EFFDT	DATE	10
C1_CS_REQ_SA_CONT_QTY	VERSION	NUMBER	5
C1_CS_REQ_SA_COP	CONT_OPT_ID	CHAR	12
C1_CS_REQ_SA_COP	CS_REQ_SA_ID	CHAR	14
C1_CS_REQ_SA_COP	CS_REQ_SEQ_NUM	NUMBER	3
C1_CS_REQ_SA_COP	EFF_DATE	DATE	26
C1_CS_REQ_SA_COP	EXPIRE_DATE	DATE	26

Table_Name	Column_Name	Data Type	Data Length
C1_CS_REQ_SA_COP	SA_CONT_OPT_ID	CHAR	12
C1_CS_REQ_SA_COP	SA_COP_VERSION	NUMBER	5
C1_CS_REQ_SA_COP	VERSION	NUMBER	5
C1_CS_REQ_SA_COP_OVRD	CONT_OPT_EVT_ID	CHAR	12
C1_CS_REQ_SA_COP_OVRD	CS_REQ_SA_ID	CHAR	14
C1_CS_REQ_SA_COP_OVRD	CS_REQ_SEQ_NUM	NUMBER	3
C1_CS_REQ_SA_COP_OVRD	EFF_STATUS	CHAR	1
C1_CS_REQ_SA_COP_OVRD	OVRD_DATE	DATE	26
C1_CS_REQ_SA_COP_OVRD	SA_CONT_OPT_ID	CHAR	12
C1_CS_REQ_SA_COP_OVRD	SEQ_NUM	NUMBER	3
C1_CS_REQ_SA_COP_OVRD	VERSION	NUMBER	5
C1_CS_REQ_SA_K	CS_REQ_SA_ID	CHAR	14
C1_CS_REQ_SA_K	ENV_ID	NUMBER	6
C1_CS_REQ_SA_LOG	ADHOC_CHAR_VAL	VARCHAR	254
C1_CS_REQ_SA_LOG	BO_STATUS_CD	CHAR	12
C1_CS_REQ_SA_LOG	BO_STATUS_REASON_CD	VARCHAR	30
C1_CS_REQ_SA_LOG	CHAR_TYPE_CD	CHAR	8
C1_CS_REQ_SA_LOG	CHAR_VAL	CHAR	16
C1_CS_REQ_SA_LOG	CHAR_VAL_FK1	VARCHAR	50
C1_CS_REQ_SA_LOG	CHAR_VAL_FK2	VARCHAR	50
C1_CS_REQ_SA_LOG	CHAR_VAL_FK3	VARCHAR	50
C1_CS_REQ_SA_LOG	CHAR_VAL_FK4	VARCHAR	50
C1_CS_REQ_SA_LOG	CHAR_VAL_FK5	VARCHAR	50
C1_CS_REQ_SA_LOG	CS_REQ_SA_ID	CHAR	14
C1_CS_REQ_SA_LOG	DESCRLONG	VARCHAR	4000
C1_CS_REQ_SA_LOG	LOG_DATE	DATE	26
C1_CS_REQ_SA_LOG	LOG_ENTRY_TYPE_FLG	CHAR	4
C1_CS_REQ_SA_LOG	MESSAGE_CAT_NBR	NUMBER	5
C1_CS_REQ_SA_LOG	MESSAGE_NBR	NUMBER	5
C1_CS_REQ_SA_LOG	SEQNO	NUMBER	5
C1_CS_REQ_SA_LOG	USER_ID	CHAR	8
C1_CS_REQ_SA_LOG	VERSION	NUMBER	5

Table_Name	Column_Name	Data Type	Data Length
C1_CS_REQ_SA_LOG_PARM	CS_REQ_SA_ID	CHAR	14
C1_CS_REQ_SA_LOG_PARM	MSG_PARM_TYP_FLG	CHAR	4
C1_CS_REQ_SA_LOG_PARM	MSG_PARM_VAL	VARCHAR	2000
C1_CS_REQ_SA_LOG_PARM	PARM_SEQ	NUMBER	3
C1_CS_REQ_SA_LOG_PARM	SEQNO	NUMBER	5
C1_CS_REQ_SA_LOG_PARM	VERSION	NUMBER	5
C1_CS_REQ_SA_MSG	BILL_MSG_CD	CHAR	4
C1_CS_REQ_SA_MSG	BILL_MSG_TYPE_FLG	CHAR	2
C1_CS_REQ_SA_MSG	CS_REQ_SA_ID	CHAR	14
C1_CS_REQ_SA_MSG	CS_REQ_SEQ_NUM	NUMBER	3
C1_CS_REQ_SA_MSG	VERSION	NUMBER	5
C1_CS_REQ_SA_RCHG	CS_REQ_SA_ID	CHAR	14
C1_CS_REQ_SA_RCHG	CS_REQ_SEQ_NUM	NUMBER	3
C1_CS_REQ_SA_RCHG	CURRENCY_CD	CHAR	3
C1_CS_REQ_SA_RCHG	EFFDT	DATE	10
C1_CS_REQ_SA_RCHG	RCR_CHG_AMT	NUMBER	15
C1_CS_REQ_SA_RCHG	VERSION	NUMBER	5
C1_CS_REQ_SA_RS	CS_REQ_SA_ID	CHAR	14
C1_CS_REQ_SA_RS	CS_REQ_SEQ_NUM	NUMBER	3
C1_CS_REQ_SA_RS	EFFDT	DATE	10
C1_CS_REQ_SA_RS	RS_CD	CHAR	8
C1_CS_REQ_SA_RS	VERSION	NUMBER	5
C1_CS_REQ_SA_SP	CS_REQ_SA_ID	CHAR	14
C1_CS_REQ_SA_SP	CS_REQ_SA_SP_ID	CHAR	14
C1_CS_REQ_SA_SP	SA_ID	CHAR	10
C1_CS_REQ_SA_SP	SA_SP_VERSION	NUMBER	5
C1_CS_REQ_SA_SP	SP_ID	CHAR	10
C1_CS_REQ_SA_SP	START_DATE	DATE	26
C1_CS_REQ_SA_SP	START_MR_ID	CHAR	12
C1_CS_REQ_SA_SP	STOP_DATE	DATE	26
C1_CS_REQ_SA_SP	STOP_MR_ID	CHAR	12
C1_CS_REQ_SA_SP	USAGE_FLG	CHAR	2

Table_Name	Column_Name	Data Type	Data Length
C1_CS_REQ_SA_SP	USE_PCT	NUMBER	3
C1_CS_REQ_SA_SP	VERSION	NUMBER	5
C1_CS_REQ_SA_SP_CHAR	ADHOC_CHAR_VAL	VARCHAR	254
C1_CS_REQ_SA_SP_CHAR	CHAR_TYPE_CD	CHAR	8
C1_CS_REQ_SA_SP_CHAR	CHAR_VAL	CHAR	16
C1_CS_REQ_SA_SP_CHAR	CHAR_VAL_FK1	VARCHAR	50
C1_CS_REQ_SA_SP_CHAR	CHAR_VAL_FK2	VARCHAR	50
C1_CS_REQ_SA_SP_CHAR	CHAR_VAL_FK3	VARCHAR	50
C1_CS_REQ_SA_SP_CHAR	CHAR_VAL_FK4	VARCHAR	50
C1_CS_REQ_SA_SP_CHAR	CHAR_VAL_FK5	VARCHAR	50
C1_CS_REQ_SA_SP_CHAR	CS_REQ_SA_SP_ID	CHAR	14
C1_CS_REQ_SA_SP_CHAR	CS_REQ_SEQ_NUM	NUMBER	3
C1_CS_REQ_SA_SP_CHAR	EFFDT	DATE	10
C1_CS_REQ_SA_SP_CHAR	VERSION	NUMBER	5
C1_CS_REQ_SA_SP_FA	CS_REQ_SA_SP_ID	CHAR	14
C1_CS_REQ_SA_SP_FA	CS_REQ_SEQ_NUM	NUMBER	3
C1_CS_REQ_SA_SP_FA	FA_ID	CHAR	10
C1_CS_REQ_SA_SP_FA	SA_ID	CHAR	10
C1_CS_REQ_SA_SP_FA	SA_SP_FA_TYPE_FLG	CHAR	2
C1_CS_REQ_SA_SP_FA	SP_ID	CHAR	10
C1_CS_REQ_SA_SP_FA	VERSION	NUMBER	5
C1_CS_REQ_SA_SP_K	CS_REQ_SA_SP_ID	CHAR	14
C1_CS_REQ_SA_SP_K	ENV_ID	NUMBER	6
C1_CS_REQ_SA_TOU_CONT_VAL	BF_CD	CHAR	8
C1_CS_REQ_SA_TOU_CONT_VAL	CONTERM_TYPE_FLG	CHAR	2
C1_CS_REQ_SA_TOU_CONT_VAL	CS_REQ_SA_ID	CHAR	14
C1_CS_REQ_SA_TOU_CONT_VAL	CS_REQ_SEQ_NUM	NUMBER	3
C1_CS_REQ_SA_TOU_CONT_VAL	SEQ_NUM	NUMBER	3
C1_CS_REQ_SA_TOU_CONT_VAL	START_DT	DATE	10
C1_CS_REQ_SA_TOU_CONT_VAL	TOU_CD	VARCHAR	30
C1_CS_REQ_SA_TOU_CONT_VAL	TOU_GRP_CD	VARCHAR	30
C1_CS_REQ_SA_TOU_CONT_VAL	VAL	NUMBER	19

Table_Name	Column_Name	Data Type	Data Length
C1_CS_REQ_SA_TOU_CONT_VAL	VERSION	NUMBER	5
C1_CS_REQ_TYPE	CS_REQ_SA_BUS_OBJ_CD	CHAR	30
C1_CS_REQ_TYPE	CS_REQ_SA2_BUS_OBJ_CD	CHAR	30
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
C1_CS_REQ_TYPE_ALG_CUST_CL	ALG_CD	CHAR	12
C1_CS_REQ_TYPE_ALG_CUST_CL	CS_REQ_ALG_ENTITY_FLG	CHAR	4
C1_CS_REQ_TYPE_ALG_CUST_CL	CS_REQ_TYPE_CD	VARC	30
C1_CS_REQ_TYPE_ALG_CUST_CL	CUST_CL_CD	CHAR	8
C1_CS_REQ_TYPE_ALG_CUST_CL	SEQ_NUM	NUMB	3
C1_CS_REQ_TYPE_ALG_CUST_CL	VERSION	NUMB	5
C1_CS_REQ_TYPE_ALG_PER_BUS	ALG_CD	CHAR	12
C1_CS_REQ_TYPE_ALG_PER_BUS	CS_REQ_ALG_ENTITY_FLG	CHAR	4
C1_CS_REQ_TYPE_ALG_PER_BUS	CS_REQ_TYPE_CD	VARC	30
C1_CS_REQ_TYPE_ALG_PER_BUS	PER_OR_BUS_FLG	CHAR	2
C1_CS_REQ_TYPE_ALG_PER_BUS	SEQ_NUM	NUMB	3
C1_CS_REQ_TYPE_ALG_PER_BUS	VERSION	NUMB	5
C1_CS_REQ_TYPE_CUST_CL	BO_XML_DATA_AREA	XML	1073741824
C1_CS_REQ_TYPE_CUST_CL	CS_REQ_TYPE_CD	VARC	30
C1_CS_REQ_TYPE_CUST_CL	CUST_CL_CD	CHAR	8
C1_CS_REQ_TYPE_CUST_CL	VERSION	NUMB	5
C1_CS_REQ_TYPE_PER_BUS	BO_XML_DATA_AREA	XML	1073741824
C1_CS_REQ_TYPE_PER_BUS	CS_REQ_TYPE_CD	VARC	30
C1_CS_REQ_TYPE_PER_BUS	PER_OR_BUS_FLG	CHAR	2
C1_CS_REQ_TYPE_PER_BUS	VERSION	NUMB	5
C1_MKT_PROV_CONFIG_OPT	BO_XML_DATA_AREA	XML	1073741824
C1_MKT_PROV_CONFIG_OPT	BUS_OBJ_CD	CHAR	30
C1_MKT_PROV_CONFIG_OPT	C1_MKT_CD	VARCHAR	30
C1_MKT_PROV_CONFIG_OPT	C1_MKT_REL_TYPE_FLG	CHAR	4

Table_Name	Column_Name	Data Type	Data Length
C1_MKT_PROV_CONFIG_OPT	CIS_DIVISION	CHAR	5
C1_MKT_PROV_CONFIG_OPT	MKT_SPR_CD	CHAR	0
C1_MKT_PROV_CONFIG_OPT	NT_XID_CD	CHAR	30
C1_MKT_PROV_CONFIG_OPT	PROV_CONFIG_OPT_CD	VARCHAR	30
C1_MKT_PROV_CONFIG_OPT	SA_REL_TYPE_CD	CHAR	8
C1_MKT_PROV_CONFIG_OPT	VERSION	NUMBER	5
C1_MKT_PROV_CONFIG_OPT_L	C1_MKT_CD	VARCHAR	30
C1_MKT_PROV_CONFIG_OPT_L	DESCR100	VARCHAR	100
C1_MKT_PROV_CONFIG_OPT_L	LANGUAGE_CD	CHAR	3
C1_MKT_PROV_CONFIG_OPT_L	MKT_SPR_CD	CHAR	0
C1_MKT_PROV_CONFIG_OPT_L	PROV_CONFIG_OPT_CD	VARCHAR	30
C1_MKT_PROV_CONFIG_OPT_L	SA_REL_TYPE_CD	CHAR	8
C1_MKT_PROV_CONFIG_OPT_L	VERSION	NUMBER	5
C1_PROV_CONFIG_OPT	BILL_REL_FLG	CHAR	4
C1_PROV_CONFIG_OPT	BO_XML_DATA_AREA	XML	1073741824
C1_PROV_CONFIG_OPT	BUS_OBJ_CD	CHAR	30
C1_PROV_CONFIG_OPT	CHGS_BATCH_CD	CHAR	8
C1_PROV_CONFIG_OPT	CNSMP_BATCH_CD	CHAR	8
C1_PROV_CONFIG_OPT	PAY_REL_FLG	CHAR	4
C1_PROV_CONFIG_OPT	PAY_SPR_ALG_CD	CHAR	12
C1_PROV_CONFIG_OPT	PROV_CONFIG_OPT_CD	VARCHAR	30
C1_PROV_CONFIG_OPT	VERSION	NUMBER	5
C1_PROV_CONFIG_OPT	XFER_AR_ALG_CD	CHAR	12
C1_PROV_CONFIG_OPT_L	DESCR100	VARCHAR	100
C1_PROV_CONFIG_OPT_L	DESCRLONG	VARCHAR	4000
C1_PROV_CONFIG_OPT_L	LANGUAGE_CD	CHAR	3
C1_PROV_CONFIG_OPT_L	PROV_CONFIG_OPT_CD	VARCHAR	30
C1_PROV_CONFIG_OPT_L	VERSION	NUMBER	5
C1_PROV_CONFIG_SATY	CIS_DIVISION	CHAR	5
C1_PROV_CONFIG_SATY	INITIAL_SATY_SW	CHAR	1
C1_PROV_CONFIG_SATY	PROV_CONFIG_OPT_CD	VARCHAR	30
C1_PROV_CONFIG_SATY	SA_REL_TYPE_CD	CHAR	8

Table_Name	Column_Name	Data Type	Data Length
C1_PROV_CONFIG_SATY	SA_TYPE_CD	CHAR	8
C1_PROV_CONFIG_SATY	START_OPT_CD	CHAR	12
C1_PROV_CONFIG_SATY	SUBSA_CIS_DIVISION	CHAR	5
C1_PROV_CONFIG_SATY	SUBSA_SA_TYPE_CD	CHAR	8
C1_PROV_CONFIG_SATY	VERSION	NUMBER	5
C1_PROV_CONFIG_SATY_OVRD	CIS_DIVISION	CHAR	5
C1_PROV_CONFIG_SATY_OVRD	INITIAL_SATY_SW	CHAR	1
C1_PROV_CONFIG_SATY_OVRD	OVRD_SUBSA_CIS_DIVISION	CHAR	0
C1_PROV_CONFIG_SATY_OVRD	OVRD_SUBSA_SA_TYPE_CD	CHAR	0
C1_PROV_CONFIG_SATY_OVRD	PROV_CONFIG_OPT_CD	VARCHAR	30
C1_PROV_CONFIG_SATY_OVRD	SA_REL_TYPE_CD	CHAR	8
C1_PROV_CONFIG_SATY_OVRD	SA_TYPE_CD	CHAR	8
C1_PROV_CONFIG_SATY_OVRD	SPR_CD	CHAR	12
C1_PROV_CONFIG_SATY_OVRD	START_OPT_CD	CHAR	12
C1_PROV_CONFIG_SATY_OVRD	VERSION	NUMBER	5
CI_SA_TYPE	USE_ALT_PA_CRE_SW	CHAR	1
C1_SPR_MKT_OPT	BO_XML_DATA_AREA	XML	1073741824
C1_SPR_MKT_OPT	BUS_OBJ_CD	CHAR	30
C1_SPR_MKT_OPT	C1_MKT_CD	VARCHAR	30
C1_SPR_MKT_OPT	END_DT	DATE	10
C1_SPR_MKT_OPT	MKT_SPR_CD	CHAR	0
C1_SPR_MKT_OPT	PROV_CONFIG_OPT_CD	VARCHAR	30
C1_SPR_MKT_OPT	SA_REL_TYPE_CD	CHAR	8
C1_SPR_MKT_OPT	SPR_CD	CHAR	12
C1_SPR_MKT_OPT	SPR_MKT_OPT_DEFAULT_SW	CHAR	1
C1_SPR_MKT_OPT	SPR_MKT_OPT_STATUS_FLG	CHAR	4
C1_SPR_MKT_OPT	START_DT	DATE	10
C1_SPR_MKT_OPT	VERSION	NUMBER	5
C1_SPR_MKT_OPT_SA	C1_MKT_CD	VARCHAR	30
C1_SPR_MKT_OPT_SA	MKT_SPR_CD	CHAR	0
C1_SPR_MKT_OPT_SA	PROV_CONFIG_OPT_CD	VARCHAR	30
C1_SPR_MKT_OPT_SA	SA_ID	CHAR	10

Table_Name	Column_Name	Data Type	Data Length
CI_SPR_MKT_OPT_SA	SA_REL_TYPE_CD	CHAR	8
CI_SPR_MKT_OPT_SA	SPR_CD	CHAR	12
CI_SPR_MKT_OPT_SA	SPR_MKT_OPT_SA_ROLE_FLG	CHAR	4
CI_SPR_MKT_OPT_SA	VERSION	NUMBER	5
CI_CHAR_TYPE	FLD_NAME	CHAR	30
CI_ID_TYPE	ALLOW_PRIMARY_FLG	CHAR	4
CI_ID_TYPE	BO_DATA_AREA	CLOB	4000
CI_ID_TYPE	BUS_OBJ_CD	CHAR	30
CI_ID_TYPE	DELIMITER	CHAR	1
CI_ID_TYPE	FIELD_NAME	CHAR	30
CI_ID_TYPE	ID_PREFIX_FLG	CHAR	4
CI_INSTALLATION	NAME_SEPARATOR	CHAR	1
CI_INSTALLATION	USE_NAME_SEPARATOR_SW	CHAR	1
CI_SATY_SARELTY	BO_DATA_AREA	CLOB	1073741824
CI_SATY_SARELTY	BUS_OBJ_CD	CHAR	30
CI_SA_REL	CI_MKT_CD	VARCHAR	30
CI_SA_REL	MKT_SPR_CD	CHAR	0
CI_SA_REL	PROV_CONFIG_OPT_CD	VARCHAR	30
CI_SA_REL_TYPE	SPR_MODEL_FLG	CHAR	4
CI_SPR	BO_DATA_AREA	CLOB	1073741824
CI_SPR	BUS_OBJ_CD	CHAR	30
CI_SPR	SPR_EXT_ID	VARCHAR	30
CI_SPR_CHAR	ADHOC_CHAR_VAL	VARCHAR	254
CI_SPR_CHAR	CHAR_TYPE_CD	CHAR	8
CI_SPR_CHAR	CHAR_VAL	CHAR	16
CI_SPR_CHAR	CHAR_VAL_FK1	VARCHAR	50
CI_SPR_CHAR	CHAR_VAL_FK2	VARCHAR	50
CI_SPR_CHAR	CHAR_VAL_FK3	VARCHAR	50
CI_SPR_CHAR	CHAR_VAL_FK4	VARCHAR	50
CI_SPR_CHAR	CHAR_VAL_FK5	VARCHAR	50
CI_SPR_CHAR	EFFDT	DATE	10
CI_SPR_CHAR	SPR_CD	CHAR	12

Table_Name	Column_Name	Data Type	Data Length
CI_SPR_CHAR	SRCH_CHAR_VAL	VARCHAR	50
CI_SPR_CHAR	VERSION	NUMBER	5
CI_SS_OPT_L	DESCRLONG	VARCHAR	4000
CI_TNDR_SRCE	PRINTER_IP_ADDRESS	VARCHAR2	60
CI_TNDR_SRCE	PRINTER_PORT	VARCHAR2	6
X1_BI_ACTIVITY_VW	ILM_DATE	DATE	7
X1_BI_USG_EXCEPTION_VW	ILM_DT	DATE	7
C0_INSTALLATION	NAME_SEPARATOR	CHAR	1
C0_INSTALLATION	USE_NAME_SEPARATOR_SW	CHAR	1

Column Format Changes

Table_Name	Column_Name	Old Data Type and Data Length	New Data Type and Data Length
C1_CS_REQ_TYPE	CIS_DIVISION	NOT NULLABLE	NULLABLE
C1_MKT_RP	MKT_JURIS	CHAR 30	VARCHAR2 30
C1_MKT_RP	MKT_ORG	CHAR 10	VARCHAR2 30
C1_MKT_RP	MKT_REG_NBR	CHAR 30	VARCHAR2 30
C1_MKT_RP	MKT_SVC_TYPE	CHAR 30	VARCHAR2 30
C1_MKTMSG_USG	MKTMSG_ID	NOT NULLABLE	NULLABLE
C1_MKTMSG_PAY	MKTMSG_ID	NOT NULLABLE	NULLABLE
C1_MKTMSG_CHG	MKTMSG_ID	NOT NULLABLE	NULLABLE
CI_SA_REL	C1_MKT_CD	CHAR 30	VARCHAR2 30
CI_SA_REL	PROV_CONFIG_OPT_CD	CHAR 30	VARCHAR2 30

Other Database Changes

This release of Oracle Utilities Customer Care and Billing also includes the following database changes:

- [Oracle Utilities Application Framework Database Changes](#)

Chapter 3

Oracle Utilities Application Framework Database Changes

This chapter provides lists of database changes in Oracle Utilities Application Framework v4.4.0.3.0 included with the 2.8.0.0.0 release of Oracle Utilities Customer Care and Billing. This includes:

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

New Tables

Table_Name
CI_ACC_GRP_ROLE
F1_ACTION_METHOD
F1_ACTION_METHOD_L
F1_ACTION_METHOD_CHAR
F1_COLOR_OPT
F1_COLOR_OPT_ITEM
F1_COLOR_OPT_L
F1_DATA_EXPORT_CTRL
F1_DATA_EXPORT_CTRL_LOG
F1_DATA_EXPORT_CTRL_LOG_PARM

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_INSIGHT_GRP
F1_INSIGHT_GRP_L
F1_INSIGHT_GRP_TYPE
F1_INSIGHT_GRP_VISUAL_STR
F1_INSIGHT_GRP_CHAR
F1_INSIGHT_TYPE
F1_INSIGHT_TYPE_ALG
F1_INSIGHT_TYPE_CHAR
F1_INSIGHT_TYPE_L
F1_INSIGHT_TYPE_USER_ACT
F1_INSIGHT_TYPE_USER_ACT_ALG
F1_INSIGHT_TYPE_VISUAL_SETTING
F1_MD_BI_TBL
F1_MD_BI_TBL_L
F1_MD_BI_TBL_FLD
F1_MO_UPD
F1_TREE
F1_TREE_L
F1_TREE_NODE
F1_TREE_NODE_L
F1_TREE_NODE_ALG

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_BATCH_INST	END_DTTM	Date/Time	26
CI_BATCH_INST	FILE_DETAILS	CLOB	
CI_BATCH_INST	START_DTTM	Date/Time	26
CI_BATCH_JOB	SUBMIT_METH_FLG	CHAR	4
CI_BATCH_JOB	SUBMIT_USER_ID	CHAR	8
CI_CHAR_TYPE	FLD_NAME	CHAR	30
CI_MD_FLD_L	CONTEXT_LABEL_TYPE1	CHAR	4
CI_MD_FLD_L	CONTEXT_LABEL_TYPE2	CHAR	4
CI_MD_FLD_L	CONTEXT_LABEL_TYPE3	CHAR	4
CI_MD_FLD_L	CONTEXT_LABEL1	VARCHAR2	60
CI_MD_FLD_L	CONTEXT_LABEL2	VARCHAR2	60
CI_MD_FLD_L	CONTEXT_LABEL3	VARCHAR2	60
CI_MD_FLD_L	OVRD_CONTEXT_LABEL1	VARCHAR2	60
CI_MD_FLD_L	OVRD_CONTEXT_LABEL2	VARCHAR2	60
CI_MD_FLD_L	OVRD_CONTEXT_LABEL3	VARCHAR2	60
CI_MD_TBL	KEY_PREFIX_FLD_NAME	CHAR	30
F1_IWS_SVC	IWS_REST_VER_FLG	CHAR	4
F1_LGCY_OBJ*	LGCY_CAT_FLG	CHAR	4
F1_LGCY_OBJ*	CHANGE_REF_NAME	VARCHAR2	30
F1_MD_BI_TBL	F1_BI_HIER_DEFN	VARCHAR2	4000
F1_MD_BI_TBL	F1_BI_NAME	VARCHAR2	100
F1_MD_BI_TBL_ FLD	LOGICAL_DM_NAME	VARCHAR2	60

Table_Name	Column_Name	Data Type	Data Length
F1_MIGR_DATA_ST_TBL	RECORD_COUNT	NUMBER	9
SC_USER	DASHBOARD_LOC_FLG	CHAR	4
SC_USER	DASHBOARD_STATE_FLG	CHAR	4

*Table used by internal processes.

New Views

View
F1_CAL_WEEK_D
F1_CAL_MONTH_D
F1_CAL_QUARTER_D
F1_CAL_YEAR_D
F1_CAL_FISC_PERIOD_D
F1_CAL_FISC_QUARTER_D
F1_CAL_FISC_YEAR_D

Database Parameter Changes

The **max_string_size** database initialization parameter was changed from **STANDARD** to **EXTENDED** to support 32k bytes for VARCHAR2 data types.