



DATABASE REFERENCE

(ADMINISTRATION TABLES,

VOL. 1) A-I

KBP-11.5-DRA1-2003-08-31



KENAN®/BP

Note: Kenan/BP and Kenan/OM are the products formerly known as Arbor/BP and Arbor/OM.

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Notational Conventions

Note	Important notes appear in this format.
Caution	Indicates possible danger to data, software, or hardware.
Warning!	Indicates serious risk of damage to data, software, or hardware.

Table 1 Notational Conventions

Notation	Explanation of Convention
<i>References to printed documents</i>	<i>Helvetica italic</i> Example: See <i>Database Reference Volume 2</i> .
<KEYS>	UPPERCASE HELVETICA, in angle brackets Example: Press <CTRL><Q><SHIFT><P> to create an em dash.
<i>Buttons and icon names</i>	<i>Helvetica italic</i> Example: Click OK to apply the chosen action.
User-entered text	Courier bold Example: Enter Total Charges in the field.
<i>Placeholders for user-determined text</i>	<i>Courier italic</i> , in angle brackets Example: Enter your <password>.
Code samples, TABLE_NAMES, field_names, file and directory names, file contents, user names, passwords, UNIX ENVIRONMENT_VARIABLES	Courier
<i>Placeholders for system-generated text</i>	<i>Helvetica italic</i> Example: Messages appear in this form: <i>timestamp messageID >> text</i> .
Menu items	Helvetica bold Example: Choose Reports from the main menu.

Additional Documentation

The Kenan/BP documentation set for release 11.5 consists of the following manuals:

- *ARCH Guide*
ARCH-1.2-AG-2003-08-31
Instructions for using the Archiver module to archive, restore, count, and delete data from Kenan/BP database tables.
- *Database Reference (Administration Tables, Vol. 1) A-I*
KBP-11.5-DRA1-2003-08-31
Database Reference (Administration Tables, Vol. 2 A-Z)
KBP-11.5-DRA2-2003-08-31
Detailed description of fields and tables in the Admin database.
- *Database Reference (Catalog and Customer Tables)*
KBP-11.5-DRCC-2003-08-31
Detailed description of fields and tables in the Catalog and Customer databases.
- *Kenan/BP Highlights*
KBP-11.0-Highlights-2003-08-31
Overview of Kenan/BP functionality
- *Order Services Guide*
KBP-OSG-1.0-2003-08-31
Instructions for using the Orders Services component for the generation, management, and fulfillment of orders and suborders.
- *Software Documentation Update*
KBP-11.5-SDU-2003-08-31
Detailed description of the enhancements in the current release of Kenan/BP.
- *System Administrator Guide*
KBP-11.5-SAG-2003-08-31
Installation, configuration, and maintenance instructions for the Kenan/BP system.

The Kenan/BP documentation set for release 11.0 consists of the following manuals:

- *Billing Operations Guide*
KBP-11.0-BOG-2002-10-30
Operation and maintenance instructions for modules.
- *Advanced Collections Guide*
KBP-11.0-ACG-2002-10-30
Instructions on using the Advanced Collections module to identify and aid in the collection of delinquent debts.
- *Common Configuration Tasks*
KBP-11.0-CCT-2002-10-30
Detailed instructions for configuring data model entities.
- *Documentation Overview*
KBP-11.0-DO-2002-10-30
Describes the documentation for Kenan/BP.
- *Guide to Products, Rates, and Discounts*
KBP-11.0-GPRD-2002-10-30
Overview of data model entities (such as products and rate schedules).
- *Journals Guide*
KBP-11.0-JG-2002-10-30
Detailed description of Journals module functionality.
- *Module Configuration Guide*
KBP-11.0-MCG-2002-10-30
Detailed instructions for configuring modules.
- *Reports and File Layouts*
KBP-11.0-RFL-2002-10-30
Detailed descriptions of control reports, summary and detail reports, and input and output file formats.
- *Software Documentation Update*
KBP-11.0-SDU-2002-10-30
Details changes in this release.
- *Technical Reference*
KBP-11.0-TR-2002-10-30
Detailed descriptions of inputs, outputs, and processing flow of all modules.

Additionally, *Release Notes* may be available for your deployment, containing additional information not covered in other documents.

You may also need to refer to documentation for other products, such as operating systems, database management systems, tax packages, and third-party software integrated with Kenan/BP.

1 Introduction

Welcome to the *Database Reference*. This document contains a description of every table used by Kenan/BP, with descriptions of fields, rules, triggers, indexes, and related information.

This is a reference document intended for use by individuals who are already familiar with the architecture and data model for the Kenan/BP billing system.

This document is published in three volumes:

- *Database Reference (Administration Tables, Vol. 1) A-I*
- *Database Reference (Administration Tables, Vol. 2) J-Z*
- *Database Reference (Catalog and Customer Tables)*

An index of fields and a master index of tables appear at the end of each volume.

What's New in This Manual

If you are familiar with the *Database Reference* for release 11.0, you may find the following list of changes useful. This is not a complete list of improvements and alterations made to this document or the product; rather, it is an overview of major changes in the database and in document organization. For information about product changes, see the *Software Documentation Update*.

For a detailed list of changes to the database schema, see the *Software Documentation Update*.

General Changes

The CDR family of tables has been restructured. See “Restructuring of Large Call Data Record and Billing Tables” below for more information on this change.

See “Multiview Data Model” on page 5 for more information on the new data model. Some important tables were renamed in the conversion:

- The PRODUCT family of tables replaces the EMF_PRODUCT and CMF_PRODUCT families.
- The SERVICE family of tables replaces the remaining EMF family of tables.
- Service external IDs are now in the multiview model, with the addition of KEY and VIEW tables for both CUSTOMER_ID_EQUIP_MAP and EXTERNAL_ID_EQUIP_MAP.
- NRC is now expanded into a multiview family of tables.
- CUSTOMER_CONTRACTS is now expanded into a multiview family of tables.
- Many tables with plural names now have singular names, such as CUSTOMER_CONTRACT and CMF_COMPONENT_ELEMENT.

Other changes include:

- replicate.pl, the script used to replicate tables, has been replaced by replicate.ksh.
- The COMMAND_CENTER module has been removed.
- The tables associated with the archive module, ARCH, are now documented with the main Kenan/BP tables.

The *Software Documentation Update* describes these changes in further detail.

Restructuring of Large Call Data Record and Billing Tables

The tables CDR_DATA and BILL_EQUIP_DETAIL have been heavily restructured and broken down into a family of smaller tables in Kenan/BP 11.5. This has been done to eliminate duplication of information between the two large tables, make database maintenance

easier and improve performance, and enable the use of partition keys for database maintenance in Oracle installations.

CDR_* Tables

The new CDR family of customer tables contains call data record information on all usage events, before and after they have been billed. It takes the place of the old CDR_DATA and BILL_EQUIP_DETAIL tables. It consists of CDR_BILLED, CDR_DATA, CDR_RERATED, and CDR_UNBILLED.

CDR_DATA contains most of the information on a CDR after it has been guided and rated by MPS. The other tables contain keys pointing to CDR_DATA rows, with additional information depending on the table. Instead of moving records from one table to another (CDR_DATA to BILL_INVOICE_DETAIL when a CDR is used by BIP in the generation of an invoice) or overwriting them (CDR_DATA when a CDR is rerated by RAP), Kenan/BP modules modify the three pointer tables. The original CDR is inserted once and never updated. The pointer tables use a number of fields as keys, notably the new field `cdr_data_partition_key` (see “New Field: `cdr_data_partition_key`” on page 4).

CDR_UNBILLED contains pointers to unbilled CDRs. When CAP runs in PROC mode, it rates the CDR, creates a database record for it, and stores the record in CDR_DATA, CDR_FREE, CDR_OUTCOLLECTS, or CDR_DATA_WORK as appropriate, as in previous versions of Kenan/BP. Additionally, CAP creates a record in CDR_UNBILLED containing keys pointing to the record in CDR_DATA.

CDR_RERATED contains pointers to rerated CDRs. When RAP runs, it does not delete the old usage record in CDR_DATA as in previous versions of Kenan/BP. Instead, it deletes the CDR’s entry in CDR_UNBILLED and creates fresh entries in CDR_DATA, CDR_UNBILLED, and CDR_RERATED. The entry in CDR_RERATED contains the `msg_id` for the old CDR as well as for the new rerated one. This ensures that there is an audit trail for rerated usage, no matter how many times it is rerated. If the CDR has been rerated already, RAP deletes its entries in CDR_UNBILLED and in CDR_RERATED and creates fresh entries in the three tables as above. To ensure uniqueness on the tables, RAP uses a different sequence than CAP does for `msg_id` and `msg_id2` values from SEQ_NUM.

CDR_BILLED contains pointers to billed CDRs for an account from a join between CDR_DATA and CDR_UNBILLED. When BIP runs, it collects usage charges for an account from CDR_UNBILLED and processes them, calculating the `billed_amount`, `units_credited`, `discount`, and other additional fields for each CDR as it did for CDRs from CDR_DATA in previous versions of Kenan/BP. However, instead of writing the CDR with additional fields to the table BILL_EQUIP_DETAIL, BIP writes the additional fields and pointers to the original CDR in CDR_DATA to CDR_BILLED. BIP then deletes the row in CDR_UNBILLED in the COMMIT phase of its process flow.

Note If BIP is running in Pro Forma mode, it operates the same as in Production mode, with the exception that it does not delete any CDR_UNBILLED rows. If BIP is running in Backout mode, it creates rows in CDR_UNBILLED based on the CDR_BILLED rows which were generated by the invoice which is being backed out. BIP does not delete CDR_BILLED rows in any mode, including Backout mode.

There can be at most one production-mode, never-backed-out, successful invoice associated with each CDR_DATA row. However, there may be multiple CDR_BILLED rows, each representing a separate invoice, that map to the same CDR_DATA row. This can occur in any of the following situations:

- one or more of the invoices was generated in Pro Forma mode
- one or more of the invoices was backed out
- one or more of the invoices was in error

New Field: `cdr_data_partition_key`

A new field, `cdr_data_partition_key`, in the four CDR_* tables makes database maintenance simpler in Oracle installations. Most users archive and delete usage records sometime after the usage is billed, generally three to six months later, though your installation may vary. Oracle partitions allow entire blocks of records to be dropped at once instead of deleting individual records, which makes deletion after archiving much faster.

The `cdr_data_partition_key` field functions as a primary key for all four `CDR_*` tables. It is the expected billing date for a CDR at the time that it is rated, `CMF.prep_date` for the customer account to which it was guided. The CDR is not necessarily billed on this date, but it provides a useful approximate date range for usage records.

Note Do not treat `cdr_data_partition_key` as an indicator of actual billing date.

Set up ARCH to archive old invoices with `cdr_data_partition_key` some fixed time in the past in archive/no delete mode. After archiving, make certain that the partition does not contain any unbilled rows (such as late usage that was overlooked) by querying `CDR_UNBILLED` for rows with the `cdr_data_partition_key` to be dropped. `CDR_UNBILLED` is the only table not to be purged by dropping partitions because BIP deletes its rows as it bills their associated records. If there are no unbilled rows, drop the partition.

Multiview Data Model

In previous versions of Kenan/BP, products and services were represented at a single moment in time. The new data model enables not only storage of current information on a product or service's status, but also of information on its past status and pending changes. This changing picture over time is made possible by splitting single "entity" tables into three related tables: entity tables, key tables, and view tables.

Entity Tables

Entity tables, of the form `<entity_table_name>`, are the most like their old Kenan/BP table counterparts. An Entity table always stores the current view of a product. However, CSRs and Kenan/BP processes do not modify information in an Entity table directly. Instead, they modify the corresponding View table, and triggers on the View table push information to the Entity table.

Entity tables are linked to their corresponding View tables by the `view_id` field and to their corresponding Key tables by the `entity_key` field.

View Tables

View tables, of the form `<entity_table_name>_VIEW`, contain multiple views of the same product or service over time. For example, a View table may contain two rows for an entity with `view_effective_dt` in the past and an additional row for the entity with `view_effective_dt` in the future, representing the previous state of the entity (older past `view_effective_dt`), its current state (later past `view_effective_dt`), and a scheduled pending state (future `view_effective_dt`).

In addition to the fields that describe a product or service and are replicated in the Entity table, View tables contain the following fields describing the view:

Table 1 Specific Fields in *_VIEW tables

Field	Description
<code>view_id</code>	Primary key, used to uniquely identify the view
<code>entity_key</code>	Unique identifier of the entity, from Entity table
<code>view_status</code>	Status of the view: 1 – Pending (only one Pending view allowed per entity) 2 – Current (only one Current view allowed per entity) 3 – Old 4 – Cancelled (former Pending view that was changed before taking effect)
<code>view_create_dt</code>	Date view was created
<code>view_effective_dt</code>	Date view took effect (<code>view_status</code> was set to 2) or is intended to take effect. At view creation, matches <code>intended_view_effective_dt</code>
<code>intended_view_effective_dt</code>	Date view was scheduled to take effect at the time of its creation; may or may not match <code>view_effective_dt</code>
<code>prev_view_id</code>	<code>view_id</code> of the previous Current view for this entity, if any

Entries in a View table can be created with `view_status` = 1 (pending) or 2 (current). When a view's `view_status` becomes 2, either by being created with `view_status` 2, the system date reaching `intended_view_effective_dt` (for a view with `view_status` = 1), or some other action by a process or a CSR sets it to 2, the following events happen:

- information from the new current view is copied to the Entity table, including the view's `view_id`

- `view_effective_dt` of the new current view is set to the system date
- `view_status` of the old current view for this `entity_key` is set to 3 (old)
- `prev_view_id` of the new current view is set to the `view_id` of the old current view

Key Tables

Key tables, of the form `<entity_table_name>_KEY`, contain fields that do not require keeping a change history. For example, Key tables contain the field `create_dt` for the date that the entity was created. Some fields are common to all Key tables, but others are specific to different entities. By default, any field that does not need a change history appears in the Key table.

Tables Added and Removed

For a detailed list of changes to the database schema, see the *Software Documentation Update*.

Table 2 lists the tables added to the Admin database in Release 11.5.

Table 2 Added Admin Tables — Release 11.5

ARCH_MODE_REF	MOBILE_ZONE_REF
ARCH_MODE_VALUES	MOBILE_ZONE_TYPE_REF
ARCH_TABLE_DEPENDS_REF	MOBILE_ZONE_TYPE_VALUES
ARCH_TYPE_REF	MOBILE_ZONE_VALUES
ARCH_TYPE_VALUES	OPEN_ITEM_PRIORITY_MAP
BALANCE_XFER_DIFF_REF	PARAM_DEF
BALANCE_XFER_DIFF_VALUES	RPAC_CLUSTER_DEFINITIONS
BAM_ERROR_CODE_REF	RPAC_DEFINITIONS
BAM_ERROR_CODE_VALUES	STATUS_REASON_MAP
BP_SERVER_TO_RPAC_MAP	STATUS_REASON_REF
CDR_ADJ_ERROR_REF	STATUS_REASON_VALUES
CDR_ADJ_ERROR_VALUES	STATUS_REF
ENUMERATION_DEF	STATUS_TYPE_MAP
EPR_BATCH_WORK	STATUS_TYPE_REF
EPR_ERROR	STATUS_TYPE_VALUES
EXT_PARAM_TYPE_ASSOC	STATUS_VALUES
GENERIC_ENUMERATION_REF	UI_CHARGE_DISPLAY_FORMAT
GENERIC_ENUMERATION_VALUES	UNIT_CR_RATE_LIMIT
MCC_COUNTRY_CODES	UNIT_CR_RATE_LIMIT_KEYS
MOBILE_GLOBAL_CELL_ID	USAGE_TYPES_FEATURES

Table 3 lists the tables removed from the Admin database for Release 11.5.

Table 3 Removed Admin Tables — Release 11.5

PRODUCT_ELEMENT_RELATIONS	
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2 Admin Tables

This chapter contains a detailed description of every table in the Kenan/BP Admin database, in alphabetical order. Each table description includes the following information:

- table name and brief description of table
- list of Kenan/BP modules that use the table
- list of tables that depend on the table
- descriptions of triggers, check constraints, foreign keys, and indexes defined on the table
- descriptions of every field in the table

Each field description includes the following information:

- field name
- data type and size (see below)
- comments — brief field description
- values — rules that constrain field values (preceded by R:) and default values for the field (preceded by D:)
- null — indicates whether a Null value is allowed in the field

The data type associated with each field depends on the relational database (RDB) system your deployment uses. For example, the `is_default` field in `ACCESS_REGION_REF` is a Number (1) field in an Oracle database and a bit field in a Sybase database.

Note Oracle deployments have rules restricting the domain of Number fields (in Admin tables) to the range of the equivalent Sybase data type, as listed in table 4.

Note When you insert data, including a single quote ('') in a text string can cause an error.

Every field description in this document contains a single documented data type. Table 4, “Field Types,” on page 10 lists the valid documented data types and their corresponding RDB data types for Oracle and Sybase.

Table 4 Field Types

Documented Type	Oracle Type	Sybase Type	Minimum Value	Maximum Value
bit	Number(1,0)	bit (1 byte)	0	1
char[N]	char(N)	char[N]	N characters	N characters
Fixed-length string, padded with blanks if smaller than N. N cannot exceed 255.				
datetime	date	datetime (8 bytes)	varies	varies
For Oracle, stores date/time between January 1, 4712 B.C. and December 31, 4712. For Sybase, stores date/time between January 1, 1753 and December 31, 9999.				
image	blob	image (16 bytes)	—	—
For Oracle, stores variable-length binary data up to 2 GB. For Sybase, stores a pointer to a memory space allocated in multiples of 2 KB that cannot exceed 2 GB.				
int	Number(10,0)	int (4 bytes)	-2,147,483,648 (-2 ³¹)	2,147,483,647 (2 ³¹ - 1)
numeric	Number(18,0)	numeric (10) (8 bytes)	-999,999,999,999,999,999	999,999,999,999,999,999
smalldt	date	smalldatetime (4 bytes)	varies	varies
For Oracle, stores date/time between January 1, 4712 (B.C.) and December 31, 4712. For Sybase, stores date/time between January 1, 1900 and June 6, 2079.				
smallint	Number(6,0)	smallint (2 bytes)	-32,768 (-2 ¹⁵)	32,767 (2 ¹⁵ - 1)
text	varchar2(4000)	text (16 bytes)	—	—
For Oracle, stores variable-length character data up to 4000 bytes. For Sybase, stores a pointer to a memory space allocated in multiples of 2 KB that cannot exceed 2 GB.				
tinyint	Number(3,0)	tinyint (1 byte)	0	255
varchar[N]	varchar2(N)	varchar[N]	0 characters	N characters
Variable-length string. N cannot exceed 255.				

Table 4 also includes minimum and maximum values for each documented type. These are not necessarily the minimum and maximum supported by your database; rather, they are the minimum and maximum values supported by Kenan/BP for fields of this type. Therefore, you should not enter field values that exceed the minimum

or maximum values documented here, even if the corresponding RDB data type allows those values.

The data type column for char and varchar fields can display two values:

- the character limit
- the physical size

The value on the right is the character limit of the field. The character limit of the field indicates the maximum number of characters the field can hold.

Warning! Do not enter values with sizes larger than the character limit listed. Doing so may result in corrupt data.

The value in parentheses is the physical size of the field. The physical size of the field is the number of bytes needed to store a field.

In the example below, the character limit for short_display is 5 characters and the physical size of the field is 15 bytes.

Field Name	Data Type	Comments	Values	Null
short_display	varchar (15)	5 Short text description for ABI source.		Null

ABI_SOURCE_RECORD_TYPES

Configurable. Reserved for future use. Admin table. Read-only copy exists on Customer database.

Used by the following modules: ABI

Triggers: target_type has a valid type code that corresponds to the value of target_table.

Indexes: unique on target_table, target_type
primary-key on source_id, abi_source_record_type

Field Name	Data Type	Comments	Values	Null
source_id	int	Data source ID, from ABI_SOURCE_REF.		
abi_source_record_type	tinyint	Type of record from source biller: 1 = credit invoice record 2 = debit invoice 3 = postbill adjustment 4 = non-recurring charge	(R: 1, 2, 3, 4)	
target_table	tinyint	Table to which Kenan/BP should write record based on record type: 1 = ADJ 2 = NRC 3 = BMF	(R: 1, 2, 3)	
target_type	smallint	Corresponding type code for the NRC, ADJ, or BMF record.		

ABI_SOURCE_REF

Configurable. Reserved for future use. Describes valid billing sources. Admin table. Read-only copy exists on Customer database.

Used by the following modules: ABI

Dependents: ABI_SOURCE_VALUES, CMF_ABI_SOURCES

Triggers: Only one row can have `is_default = 1`.

Indexes: primary-key on `source_id`

Field Name	Data Type	Comments	Values	Null
source_id	int	Unique internal ID for ABI source.		
missed_bill_code	tinyint	Indicates behavior if records from this billing source are missing at billing time: 1 = create bill showing zero due for source 2 = create bill omitting section associated with source 3 = hold the bill until data received	(R: 1, 2, 3)	
revenue_owner	tinyint	Defines who owns the revenue associated with this billing source: 1 = Kenan/BP 2 = someone else	(R: 1, 2)	
is_default	bit	Is this value default? (1 = yes) Only one row can be default.	(D: 0)	
is_internal	bit	If 1, Kenan/BP modules require this record; do not delete or modify.	(D: 0)	

ABI_SOURCE_VALUES

Configurable. Reserved for future use. Describes billing sources defined in `ABI_SOURCE_REF`. Admin table. Read-only copy exists on Customer database.

Used by the following modules: ABI

Indexes: primary-key on `source_id`, `language_code`

Foreign Keys: (`language_code`) must exist in `LANGUAGE_CODE_REF(language_code)`
 (`source_id`) must exist in `ABI_SOURCE_REF(source_id)`

Field Name	Data Type	Comments	Values	Null
<code>source_id</code>	int	Source ID, from <code>ABI_SOURCE_REF</code> .		
<code>language_code</code>	smallint	Language code, from <code>LANGUAGE_CODE_REF</code> .		
<code>short_display</code>	varchar (15)	5 Short text description for ABI source.		Null
<code>display_value</code>	varchar (240)	80 Text description to display on screen.		

ACCESS_REGION_REF

Static. Defines valid access regions for vertical and horizontal rating. Populated via the LOAD_USG PTS utility. Admin table. Read-only copy exists on Customer database.

Dependents: ACCESS_REGION_VALUES, DISTANCE_BANDS

Triggers: Only one row can have is_default = 1.

Indexes: primary-key on access_region

Field Name	Data Type	Comments	Values	Null
access_region	char (15)	Unique identifier of an access region (LATA).		
is_default	bit	Is this value default? (1 = yes) Only one row can be default.	(D: 0)	
is_internal	bit	If 1, Kenan/BP modules require this record; do not delete or modify.	(D: 0)	

ACCESS_REGION_VALUES

Configurable. Describes access regions defined in ACCESS_REGION_REF. Admin table. Read-only copy exists on Customer database.

Indexes: primary-key on access_region, language_code

Foreign Keys: (language_code) must exist in LANGUAGE_CODE_REF(language_code)
 (access_region) must exist in ACCESS_REGION_REF(access_region)

Field Name	Data Type	Comments	Values	Null
access_region	char (15)	Access region, from ACCESS_REGION_REF.		
language_code	smallint	Language code, from LANGUAGE_CODE_REF.		
short_display	varchar (15)	Abbreviated version of the display value.		Null
display_value	varchar (240)	Text description to display on screen.		

ACCOUNT_CATEGORY_REF

Configurable. Defines all account categories (for example, business or residential) for this deployment. Admin table.
Read-only copy exists on Customer database.

Used by the following modules: CUSTINFO

Dependents: ACCOUNT_CATEGORY_VALUES, CMF, COMPONENT_CMF_ELIGIBILITY, LATE_FEE_ASSIGNMENT,
PACKAGE_CMF_ELIGIBILITY, RE_CHARGE_MODIFIER, TAX_ASSIGNMENTS

Triggers: Only one row can have `is_default = 1`.

Indexes: This table has no indexes.

Field Name	Data Type	Comments	Values	Null
account_category	tinyint	Unique identifier of an account category.	(R: != 255)	
is_default	bit	Is this value default? (1 = yes) Only one row can be default.	(D: 0)	
is_internal	bit	If 1, Kenan/BP modules require this record; do not delete or modify.	(D: 0)	
is_reseller	bit	Are accounts of this category resellers? (1=yes)		
is_business	tinyint	Is the account a business (1) or residential (0) account? This is only used by Kenan/BP in CommTax or CTM taxation.		

Field Name	Data Type	Comments	Values	Null
interim_due_days	smallint	Number of days after interim_bill_date to set ppdd_date for interim bills for accounts of this category. If -1 (default), use ppdd_date from customer's next bill cycle.	(D: -1) (R: >= -1)	
consolidate_usage	bit	Does the account category allow CAP to summarize usage? (1 = yes)	(D: 0)	
is_prepaid	tinyint	Identifies whether account is prepaid: 0 = Does not allow prepaid (postpaid only) 1 = Only allows prepaid 2 = Allows either prepaid or postpaid or both 3 = Anonymous prepaid	(D: 0) (R: 0, 1, 2, 3)	

ACCOUNT_CATEGORY_VALUES

Configurable. Describes account categories defined in ACCOUNT_CATEGORY_REF. Admin table. Read-only copy exists on Customer database.

Used by the following modules: CUSTINFO

Indexes: primary-key on account_category, language_code

Foreign Keys: (account_category) must exist in ACCOUNT_CATEGORY_REF(account_category)
 (language_code) must exist in LANGUAGE_CODE_REF(language_code)

Field Name	Data Type	Comments			Values	Null
account_category	tinyint	Account category identifier, from ACCOUNT_CATEGORY_REF.				
language_code	smallint	Language code, from LANGUAGE_CODE_REF.				
short_display	varchar (15)	Abbreviated version of the display value.				Null
display_value	varchar (240)	80	Text description to display on screen.			

ACCOUNT_MOVE_TABLES

Configurable. Contains information about what data in which tables needs to be moved. Admin table. Read-only copy exists on Customer database.

Used by the following modules: AMP

Indexes: This table has no indexes.

Field Name	Data Type		Comments	Values	Null
table_name	varchar	30	Name of the table.		
table_alias	varchar (30)	10	Alias for the table name. It can be Null if no aliases are used in from_tables.		Null
from_tables	varchar	255	The FROM clause of the SQL query used to find the information to move.		
where_clause	varchar	255	The WHERE conditions of the SQL query used to find the information to move.		
run_order	smallint		Order in the execution sequence for insert. Tables with lower order will be inserted first. If Null, the order is not important.		Null
delete_order	smallint		Order in the execution sequence for delete. Normally the same as run_order. Tables with higher order will be deleted first. If Null, the order is not important.		Null
distinct_flag	bit		Indicates that only distinct values are copied.		

ACCT_SEG_MAP

Configurable. Maps customer segments to other branding fields. Admin table. Read-only copy exists on Customer database.

Indexes: primary-key on acct_seg_id

Field Name	Data Type	Comments	Values	Null
acct_seg_id	int	Account segment ID, from ACCT_SEG_REF.		
mkt_code	smallint	Market code, from MKT_CODE_REF.		
franchise_code	smallint	Franchise code, from FRANCHISE_CODE_REF.		
rev_rcv_cost_ctr	smallint	Revenue receivable cost center ID, from REV_RCV_COST_CENTER_REF.		
remit_service_center	smallint	Remittance service center ID, from SERVICE_CENTERS.		
billing_service_center	smallint	Billing service center ID, from SERVICE_CENTERS.		
service_inquiry_center	smallint	Inquiry service center ID, from SERVICE_CENTERS.		
collections_center	smallint	Collections service center ID, from SERVICE_CENTERS.		
msg_grp_id	smallint	Message group ID, from MSG_GRP_ID_REF.		
insert_grp_id	smallint	Insert group ID, from INSERT_GRP_ID_REF.		
vip_code	tinyint	VIP code, from VIP_CODE_REF.		
rate_class	smallint	Rate class, from RATE_CLASS_DESCR.		

ACCT_SEG_REF

Configurable. Describes customer account segments. Run the `replicate.ksh` script after modifying this table if the database is in an Oracle multiserver environment. See the *System Administrator Guide* for more information about `replicate.ksh`. Admin table. Read-only copy exists on Catalog database. Read-only copy exists on Customer database.

Used by the following modules: CUSTINFO, API

Dependents: ACCT_SEG_VALUES, CMF

Triggers: No row can have `is_default = 1`.

Indexes: primary-key on `acct_seg_id`

Field Name	Data Type	Comments	Values	Null
acct_seg_id	int	Unique internal ID for a segment of accounts.	(R: >= 0)	
is_default	bit	Must be 0.	(D: 0)	
is_internal	bit	If 1, Kenan/BP modules require this record; do not delete or modify.	(D: 0)	

ACCT_SEG_VALUES

Configurable. Describes account segments defined in ACCT_SEG_REF. Run the replicate.ksh script after modifying this table if the database is in an Oracle multiserver environment. See the *System Administrator Guide* for more information about replicate.ksh. Admin table. Read-only copy exists on Catalog database. Read-only copy exists on Customer database.

Used by the following modules: CUSTINFO, API

Indexes: primary-key on acct_seg_id, language_code

Foreign Keys: (language_code) must exist in LANGUAGE_CODE_REF(language_code)
(acct_seg_id) must exist in ACCT_SEG_REF(acct_seg_id)

Field Name	Data Type	Comments	Values	Null
acct_seg_id	int	Account segment ID, from ACCT_SEG_REF.		
language_code	smallint	Language code, from LANGUAGE_CODE_REF.		
short_display	varchar(15)	Short text description for account segment.		Null
display_value	varchar(240)	Text description to display on screen.		

ADJ_REASON_CODE_REF

Configurable. Defines valid adjustment reasons, which are included in pop-up selection lists in the GUI and used for booking adjustments. Admin table. Read-only copy exists on Customer database.

Used by the following modules: CUSTINFO, JNL

Dependents: ADJ, ADJ_REASON_CODE_VALUES

Triggers: Only one row can have `is_default = 1`.

Indexes: primary-key on `adj_reason_code`

Field Name	Data Type	Comments	Values	Null
adj_reason_code	smallint	Unique internal identifier of a reason for an adjustment: -2 = bill backout -1 = service termination		
journal_code	smallint	Indicates the classification of the revenue. Use this to book to the proper journal account.		
is_default	bit	Is this value default? (1 = yes) Only one row can be default.	(D: 0)	
is_internal	bit	If 1, Kenan/BP modules require this record; do not delete or modify.	(D: 0)	

ADJ_REASON_CODE_VALUES

Configurable. Describes adjustment reason codes defined in ADJ_REASON_CODE_REF. Admin table. Read-only copy exists on Customer database.

Used by the following modules: CUSTINFO

Indexes: primary-key on adj_reason_code, language_code

Foreign Keys: (language_code) must exist in LANGUAGE_CODE_REF(language_code)
 (adj_reason_code) must exist in ADJ_REASON_CODE_REF(adj_reason_code)

Field Name	Data Type		Comments	Values	Null
adj_reason_code	smallint		Adjustment reason code, from ADJ_REASON_CODE_REF.		
language_code	smallint		Language code, from LANGUAGE_CODE_REF.		
short_display	varchar (15)	5	Abbreviated version of the display value.		Null
display_value	varchar (240)	80	Text description to display on screen.		

ADJ_TRANS_DESCR

Configurable. Defines valid adjustment types. Admin table. Read-only copy exists on Customer database.

Used by the following modules: CUSTINFO, BIP, BIF, JNL

Dependents: ADJ

Triggers: If `trans_target_id` is not zero, it must exist in `PRODUCT_ELEMENTS`, `NRC_TRANS_DESCR`, `USAGE_TYPES`, `OPEN_ITEM_ID_REF`, or `PRODUCT_LINES` tables. Its value is determined by `trans_target_type`.

System parameter `PREPAID_OPEN_ITEM_THRESHOLD` must be set and must be less than `trans_target_id` if `trans_target_type = 4` and `trans_target_id` is not in `OPEN_ITEM_ID_REF.open_item_id`. `description_code` must exist in `DESCRIPTIONS`.

If `is_refinance = 1`, `trans_target_type` must be 4 (misc. adjustment).

If `tax_on_invoice = 1`, `billing_category` must be 3.

If `adj_trans_category = 1` and `trans_sign = -1`, `billing_category` must be 2 or 3 (credit adjustments to post-billed charges go against past charges or credit notes).

If `adj_trans_category = 1` and `trans_sign = 1`, `billing_category` must be 1 (Debit adjustments to post-billed charges go against current charges).

If `adj_trans_category = 5`, `trans_target_type` must be 3 and `billing_category` must be 1 (ensure category 5 can only be used only for prebilled usage adjs).

Only one row can have `trans_target_type = 9` and `trans_sign = 1`.

Only one row can have `trans_target_type = 9` and `trans_sign = -1`.

Reversal adjustments (`adj_trans_category = 6` or `7`) can only be applied to past charges or credit note reversals (`billing_category = 2` or `4`).

On insert or update of `tax_class`, either `tax_class` exists in `TAX_RATES_VAT` or is = -1, -2, or Null.

Two rows with `is_negative_bill_adj = 1` cannot have the same `trans_target_id`.

`is_journalable` must be 0 when `trans_category` is 6 or 7.

`billing_level` must be 0 if `trans_target_type` is 4 and `adj_trans_category` is 1.

If `is_negative_bill_adj = 1`, `trans_target_type` must be 4, `adj_trans_category`, `trans_sign`, and `billing_category` must be 1, and `billing_level` must be 0.

Indexes: primary-key on `adj_trans_code`

Field Name	Data Type	Comments	Values	Null
adj_trans_code	int	Unique internal identifier of an adjustment type.		
trans_target_type	smallint	<p>Transaction target type:</p> <ul style="list-style-type: none"> 1 = recurring charge for a product defined in PRODUCT_ELEMENTS 2 = non-recurring charge defined in NRC_TRANS_DESCR 3 = usage charge defined in USAGE_TYPES 4 = open item ID, defined in OPEN_ITEM_ID_REF 5 = recurring charge for product line, from PRODUCT_LINE 6 = taxes 9 = system-generated reversal, in other words, not in a specific table. 	(R: 1, 2, 3, 4, 5, 6, 9)	
trans_target_id	int	Identifier of transaction target type. This is to cross-reference the appropriate table. For transaction type 9 this field is zero. Otherwise, it should be a valid open_item_id.		
adj_trans_category	tinyint	Category of adjustment transaction:	(R: 1, 5, 6, 7)	
		<ul style="list-style-type: none"> 1 = prerated 5 = prebilled usage adjustment 6 = adj backout for new charges 7 = backout for adjustments 		
trans_sign	smallint	Indicates whether adjustment is a debit or a credit: 1 = debit -1 = credit	(R: -1, 1)	
billing_category	smallint	Category for billing:	(R: 1, 2, 3, 4)	
		<ul style="list-style-type: none"> 1 = apply to current charges 2 = apply to past charges 3 = apply to credit note 4 = apply to credit note reversals. Non-balance affecting, usually generated during invoice backout. 		
billing_level	smallint	Billing level: 0 = account level 1 = service instance level	(R: 0, 1)	

Field Name	Data Type	Comments	Values	Null
description_code	int	Description from DESCRIPTIONS table.		
tax_class	int	Tax class from TAX_RATES_VAT, or -1 = exempt -2 = outside scope of law Null = the deployment does not require VAT or Vertex Quantum taxation. Set this field to -3 if and only if the universal tax has only one active rate available.		Null
is_viewable	bit	Is the adjustment type viewable through the GUI? (1 = yes)	(D: 1)	
is_modifiable	bit	Is the adjustment type modifiable through the GUI? (1 = yes)	(D: 1)	
is_adjustable	bit	Can the adjustment type be adjusted? (1 = yes)	(D: 1)	
is_journalable	bit	Should the adjustment type be booked? (1 = yes) Set to 1 unless booked by another system.	(D: 1)	
is_displayed_onbill	bit	Is the adjustment type displayed on the bill? (1 = yes)	(D: 1)	
is_disconnect_credit	bit	Is this adjustment type a disconnect credit? (1 = yes)	(D: 0)	
is_refinance	bit	Is this adjustment a refinancing adjustment? (1 = yes)	(D: 0)	
annotation_type	tinyint	Defines which adjustment description will be shown on the invoice. 1 = use ADJ.annotation 2 = use ADJ.description_code 3 = use "Credit" and PRODUCT_ELEMENTS.description_code (used for disconnect credits)	(R: 1, 2, 3)	Null
tax_on_invoice	bit	Is the tax on this adjustment type is calculated on the next invoice? (1 = yes)	(D: 0)	

Field Name	Data Type	Comments	Values	Null
is_late_fee_exempt	bit	Is this adjustment exempt from late fees? (1 = yes)	(D: 0)	
allow_interim_bill	bit	Can this adjustment be applied to an interim bill? (1 = no)	(D: 0)	
is_negative_bill_adj	bit	Is this an adjustment on a negative invoice? (1 = yes)	(D: 0)	

AGGR_USAGE_DEFINITIONS_REF

Configurable. Defines aggregate usage rate structures. Admin table. Read-only copy exists on Customer database.

Used by the following modules: CAP, BIP, CUSTINFO

Dependents: AGGR_USAGE_DEFINITIONS_VALUES, AGGR_USAGE_RESTRICTIONS, RATE_AGGR_USAGE

Triggers: active_dt cannot be updated.

If def_order is Null, it defaults to aggr_usage_id.

Indexes: primary-key on aggr_usage_id

Check Constraints: active_dt <= inactive_dt

Field Name	Data Type	Comments	Values	Null
aggr_usage_id	int	Unique ID of an aggregate usage rate structure. Should be greater than 0.	(R: > 0)	
aggr_usage_type	tinyint	Specifies the type of aggregate usage rate: 2 = incremental 6 = bulk	(R: 2, 6)	
aggr_usage_level	tinyint	Specifies hierarchy-related span of aggregation: 1 = Equipment level 2 = Billed to account 3 = Subscription owning account within billed to account	(R: 1, 2, 3)	
aggr_threshold_quantum	tinyint	Specifies quantum of rate thresholds in RATE_AGGR_USAGE: 2 = Units 3 = Items	(R: 2, 3)	
def_order	int	Application order when multiple rates apply to the same usage event. Defaults to aggr_usage_id value.	(R: > 0)	Null
active_dt	smalldt	Date the rate structure becomes active.		
inactive_dt	smalldt	Date the rate structure becomes inactive.		Null

Field Name	Data Type	Comments	Values	Null
create_dt	smalldt	Date the rate structure was defined.		
is_default	bit	Is this value default? (1 = yes) Only one row can be default.	(D: 0)	
is_internal	bit	If 1, Kenan/BP modules require this record; do not delete or modify.	(D: 0)	

AGGR_USAGE_DEFINITIONS_VALUES

Configurable. Describes aggregate usage definitions defined in AGGR_USAGE_DEFINITIONS_REF. Admin table. Read-only copy exists on Customer database.

Used by the following modules: BIF, CUSTINFO

Indexes: primary-key on aggr_usage_id, language_code

Foreign Keys: (language_code) must exist in LANGUAGE_CODE_REF(language_code)
 (aggr_usage_id) must exist in AGGR_USAGE_DEFINITIONS_REF(aggr_usage_id)

Field Name	Data Type	Comments		Values	Null
aggr_usage_id	int	Aggregate rate ID, from AGGR_USAGE_DEFINITIONS_REF.	(R: > 0)		
language_code	smallint	Language code, from LANGUAGE_CODE_REF.			
short_display	varchar (15)	Abbreviated version of the display value.		Null	
display_value	varchar (240)	Text description to display on screen.			

AGGR_USAGE_RESTRICTIONS

Configurable. Controls which entities have their usage aggregated by each aggregate usage rate structure. Admin table.
Read-only copy exists on Customer database.

Used by the following modules: CAP

Triggers: `restricted_id` exists in appropriate table, based on `restriction_type` (see below).

Each row with `restriction_type = 2` must have a corresponding row with `restriction_type = 5`.

Rows with the same `aggr_usage_id` and `restriction_type` should have the same `is_exclusion` value.

Indexes: non-unique on `aggr_usage_id`

unique on `aggr_usage_id, restriction_type, restricted_id`

Foreign Keys: (`aggr_usage_id`) must exist in `AGGR_USAGE_DEFINITIONS_REF(aggr_usage_id)`

Field Name	Data Type	Comments	Values	Null
<code>aggr_usage_id</code>	int	Aggregate rate ID, from <code>AGGR_USAGE_DEFINITIONS_REF</code> .	(R: > 0)	
<code>restriction_type</code>	tinyint	Specified the type of restriction: 2 = product 4 = service_provider 5 = usage type 6 = jurisdiction 7 = rate period 8 = rate class 9 = bill class 10 = point class origin 11 = point class target 12 = equip type code 13 = equip class code 14 = class of service code	(R: 2, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14)	

Field Name	Data Type	Comments	Values	Null
restricted_id	int	<pre>If restriction_type = 2, PRODUCT_ELEMENTS.element_id. If restriction_type = 4, SERVICE_PROVIDERS_REF.provider_id If restriction_type = 5, USAGE_TYPES.type_id_usg. If restriction_type = 6, JURISDICTIONS.jurisdiction If restriction_type = 7, RATE_PERIODS.seq_num If restriction_type = 8, RATE_CLASS_DESCR.rate_class If restriction_type = 9, BILL_CLASS_REF.bill_class If restriction_type = 10 or 11, POINT_CLASS_REF.point_class If restriction_type = 12, EQUIP_TYPE_CODE_REF.equip_type_code If restriction_type = 13, EQUIP_CLASS_CODE_REF.equip_class_code If restriction_type = 14, CLASS_OF_SERVICE_CODE_REF.class_of_service_code</pre>		Null
is_exclusion	bit	<p>0 = apply the aggregate rate only to the restricted entity.</p> <p>1 = apply the aggregate rate to everything except the restricted entity.</p>		

AMP_MODE_REF

Configurable. Defines different AMP modes. Admin table. Read-only copy exists on Customer database.

Dependents: AMP_MODE_VALUES

Triggers: Only one row can have `is_default = 1`.

Indexes: primary-key on `amp_mode_id`

Field Name	Data Type	Comments	Values	Null
amp_mode_id	smallint	AMP mode ID. 0 = Full move 1 = Move only 2 = Delete only		
is_internal	bit	Is this value default? (1 = yes) Only one row can be default.	(D: 0)	
is_default	bit	If 1, Kenan/BP modules require this record; do not delete or modify.	(D: 0)	

AMP_MODE_VALUES

Configurable. Describes values defined in AMP_MODE_REF. Admin table. Read-only copy exists on Customer database.

Indexes: primary-key on amp_mode_id, language_code

Foreign Keys: (amp_mode_id) must exist in AMP_MODE_REF(amp_mode_id)
 (language_code) must exist in LANGUAGE_CODE_REF(language_code)

Field Name	Data Type	Comments		Values	Null
amp_mode_id	smallint		AMP mode ID, from AMP_MODE_REF.		
language_code	smallint		Language code, from LANGUAGE_CODE_REF.		
short_display	varchar (15)	5	Abbreviated version of the display value.		
display_value	varchar (240)	80	Text description to display on screen.		

ARB_TAB_DEPENDS

Dynamic. Lists table constraints in the database. Populated by scripts that require dropping and reapplying constraints in the database. Run the `replicate.ksh` script after modifying this table if the database is in an Oracle multiserver environment. See the *System Administrator Guide* for more information about `replicate.ksh`. Admin table. Read-only copy exists on Catalog database. Read-only copy exists on Customer database.

Used by the following modules: DBA

Indexes: primary-key on depend_id

Field Name	Data Type	Comments	Values	Null
depend_id	smallint	Unique identifier of constraint.		
key_nm	varchar	255 Name of key.		
parent_nm	varchar	255 Name of the parent table.		
child_nm	varchar	255 Name of the child table.		
parent_cols	varchar	255 Columns referenced in the parent table.		
child_cols	varchar	255 Columns restrained in the child table.		

ARCH_MODE_REF

Static. Defines valid archive modes. Admin table. Read-only copy on customer. Admin table. Read-only copy on customer.

Dependents: ARCH_MODE_VALUES

Triggers: Only one row can have `is_default = 1`.

Indexes: primary-key on `arch_mode_id`

Field Name	Data Type	Comments	Values	Null
arch_mode_id	smallint	Unique archive mode ID: 1 = Count only 2 = Archive and delete 3 = Delete only 4 = Full archive restore 5 = Individual-level restore		
is_internal	bit	If 1, Kenan/BP modules require this record; do not delete or modify.	(D: 0)	
is_default	bit	Is this value default? (1 = yes) Only one row can be default.	(D: 0)	

ARCH_MODE_VALUES

Configurable. Describes archive modes. Admin table. Read-only copy on customer. Admin table. Read-only copy on customer.

Used by the following modules: ARCH

Indexes: primary-key on arch_mode_id, language_code

Foreign Keys: (language_code) must exist in LANGUAGE_CODE_REF(language_code)
 (arch_mode_id) must exist in ARCH_MODE_REF(arch_mode_id)

Field Name	Data Type	Comments	Values	Null
arch_mode_id	smallint	Archive mode ID, from ARCH_MODE_REF		
language_code	smallint	Language code, from LANGUAGE_CODE_REF		
short_display	varchar (15)	5 Short text description		
display_value	varchar (240)	80 Text description to display on screen		

ARCH_TABLE_DEPENDS_REF

Static. Identifies the tables associated with each archive type. Admin table. Read-only copy on customer. Admin table. Read-only copy on customer.

Used by the following modules: ARCH

Dependents: ARCH_FILE_LOG, ARCH_TABLE_STAT

Indexes: primary-key on arch_table_id

Foreign Keys: (arch_type_id) must exist in ARCH_TYPE_REF(arch_type_id)

Field Name	Data Type	Comments	Values	Null
arch_table_id	smallint	Unique table ID		
arch_type_id	smallint	Archive type used to archive this table, from ARCH_TYPE_REF. A given table can only be archived by one archive type.		
is_master	bit	Is this the master table? (1 = yes, 0 = no) Only one master table is allowed per archive type.	(D: 0)	
is_deletable	bit	Delete records from this table after archiving? (1 = yes, 0 = no)	(D: 0)	
arch_table_nm	varchar	255 Table name		
arch_key_fld_nm	varchar	64 Key field for this table (for example, index_bill_ref for BILL_INVOICE)		
arch_key_resets_fld_nm	varchar	64 Key resets field for this table (for example, index_bill_ref_resets for BILL_INVOICE)		
is_active	bit	Indicates if the table is loaded into the database.		

ARCH_TYPE_REF

Static. Defines valid archive types. Admin table. Read-only copy on customer. Admin table. Read-only copy on customer.

Used by the following modules: ARCH

Dependents: ARCH_TABLE_DEPENDS_REF, ARCH_TYPE_VALUES

Triggers: Only one row can have `is_default = 1`.

Indexes: primary-key on `arch_type_id`

Field Name	Data Type	Comments	Values	Null
arch_type_id	smallint	Archive type: 1 = Archive old invoices (BILL_INVOICE table) 2 = Archive bill images (BILL_IMAGE table) 4 = Archive JNL detail (JNL_RUNS_STATUS table) 5 = Archive JNL writeoff (JNL_WRITEOFF table) 6 = Archive 'evaluated' contribution for an invoice (HISTORIC_CONTRIBUTION table)		
is_internal	bit	If 1, Kenan/BP modules require this record; do not delete or modify.	(D: 0)	
is_default	bit	Is this value default? (1 = yes) Only one row can be default.	(D: 0)	

ARCH_TYPE_VALUES

Configurable. Describes archive types. Admin table. Read-only copy on customer. Admin table. Read-only copy on customer.

Used by the following modules: ARCH

Indexes: primary-key on arch_type_id, language_code

Foreign Keys: (language_code) must exist in LANGUAGE_CODE_REF(language_code)
 (arch_type_id) must exist in ARCH_TYPE_REF(arch_type_id)

Field Name	Data Type	Comments		Values	Null
arch_type_id	smallint		Archive type ID, from ARCH_TYPE_REF		
language_code	smallint		Language code, from LANGUAGE_CODE_REF		
short_display	varchar (15)	5	Short text description		
display_value	varchar (240)	80	Text description to display on screen		

ATM_CUSTOM_TABLE_DEF

Configurable. Identifies deployment-specific tables for inclusion in the ACE interface. Admin table.

Used by the following modules: ACE

Indexes: primary-key on table_name

Field Name	Data Type	Comments	Values	Null
table_name	char	Name of deployment-specific table.		
server_type	tinyint	Type of server on which the table resides.	(R: 1, 2, 3)	Null

ATM_FIELD_DEF

Configurable, static. Defines field information used by ACE. Edit this table for custom tables defined in ATM_CUSTOM_TABLE_DEF; otherwise, do not edit. This table cannot be modified through ACE. Admin table.

Used by the following modules: ACE

Indexes: primary-key on table_name, field_name

Field Name	Data Type	Comments		Values	Null
table_name	varchar	30	Table in whose maintenance windows a pop-up list exists.		
field_name	varchar	30	Field name in the given table for which the pop-up list exists.		
field_type	tinyint		Reserved for future use; leave Null.		Null
cross_table_name	varchar	30	Table from which pop-up list values come.		Null
cross_field_name	varchar	30	Field from which pop-up list values come.		Null
poplist_type	tinyint		Indicates where cross_field_name is described: 1 = cross_field_name is described in DESCRIPTIONS. 2 = cross_field_name is described in a *_VALUES table. 3 = cross_field_name is not described in the database.		Null

ATM_POPLIST_REF

Static, configurable. Holds values for certain pop-up selection lists in ATM. Edit this table for custom tables defined in `ATM_CUSTOM_TABLE_DEF`; otherwise, do not edit. This table cannot be modified through ACE. Admin table.

Used by the following modules: ACE

Triggers: Only one row per table/field group can have `is_default = 1`.

Indexes: clustered, unique on `table_name, field_name, int_value, char_value`

Field Name	Data Type	Comments	Values	Null
<code>table_name</code>	<code>varchar</code>	32 Table in whose maintenance windows a pop-up list exists.		
<code>field_name</code>	<code>varchar</code>	32 Field name in the given table for which the pop-up list exists.		
<code>int_value</code>	<code>int</code>	Field value (if int, smallint, tinyint or numeric).		Null
<code>char_value</code>	<code>varchar</code>	30 Field value (if char or varchar).		Null
<code>is_default</code>	<code>bit</code>	Is this value default? (1 = yes) Only one row can be default.	(D: 0)	
<code>is_internal</code>	<code>bit</code>	If 1, Kenan/BP modules require this record; do not delete or modify.	(D: 0)	

ATM_POPLIST_VALUES

Configurable. Describes values defined in ATM_POPLIST_REF. Admin table.

Triggers: table_name, field_name, char_value, and int_value must exist in ATM_POPLIST_REF. int_value and char_value can be Null instead.

Indexes: clustered, unique on table_name, field_name, language_code, char_value, int_value

Foreign Keys: (language_code) must exist in LANGUAGE_CODE_REF(language_code)

Field Name	Data Type		Comments	Values	Null
table_name	varchar	30	Table in whose maintenance windows a pop-up list exists.		
field_name	varchar	30	Field name in the given table for which the pop-up list exists.		
int_value	int		Field value (if int, smallint, tinyint or numeric).		Null
char_value	varchar	30	Field value (if char or varchar).		Null
language_code	smallint		Language code, from LANGUAGE_CODE_REF.		
short_display	varchar (15)	5	Leave blank.		Null
display_value	varchar (240)	80	Text description to display on screen.		

BALANCE_XFER_DIFF_REF

Configurable. Describes reasons the BAM module transferred a different amount than requested between prepaid balances. Admin table. Read-only copy exists on Customer database.

Dependents: BALANCE_XFER_DIFF_VALUES

Indexes: primary-key on balance_xfer_diff

Field Name	Data Type	Comments	Values	Null
balance_xfer_diff	tinyint	Transfer difference code: 0 = Requested amount transferred 1 = All available amount transferred 2 = Less than available amount transferred, target at maximum allowed balance 3 = Requested amount exceeds available amount 4 = Requested amount exceeds available amount, but less than available transferred, target at maximum allowed balance		
is_default	bit	Is this value default? (1 = yes) Only one row can be default.		
is_internal	bit	If 1, Kenan/BP modules require this record; do not delete or modify.		

BALANCE_XFER_DIFF_VALUES

Configurable. Describes transfer differentials defined in BALANCE_XFER_DIFF_REF. Admin table. Read-only copy exists on Customer database.

Indexes: primary-key on balance_xfer_diff, language_code

Foreign Keys: (balance_xfer_diff) must exist in BALANCE_XFER_DIFF_REF(balance_xfer_diff)
 (language_code) must exist in LANGUAGE_CODE_REF(language_code)

Field Name	Data Type		Comments	Values	Null
balance_xfer_diff	tinyint		Transfer difference code, from BALANCE_XFER_DIFF_REF		
language_code	smallint		Language code, from LANGUAGE_CODE_REF.		
short_display	varchar (15)		Abbreviated version of the display value.		Null
display_value	varchar (240)		Text description to display on screen.		

BAM_ERROR_CODE_REF

Configurable. Describes the valid error codes used by the BAM module. Admin table. Read-only copy exists on Customer database.

Dependents: BAM_ERROR_CODE_VALUES

Indexes: primary-key on bam_error_code

Field Name	Data Type	Comments	Values	Null
bam_error_code	int	Unique ID for BAM error code.		
is_default	bit	Is this value default? (1 = yes) Only one row can be default.		
is_internal	bit	If 1, Kenan/BP modules require this record; do not delete or modify.		

BAM_ERROR_CODE_VALUES

Configurable. Describes BAM error codes defined in `BAM_ERROR_CODE_REF`. Admin table. Read-only copy exists on Customer database.

Indexes: primary-key on `bam_error_code`, `language_code`

Foreign Keys: (`language_code`) must exist in `LANGUAGE_CODE_REF(language_code)`
(`bam_error_code`) must exist in `BAM_ERROR_CODE_REF(bam_error_code)`

Field Name	Data Type		Comments	Values	Null
<code>bam_error_code</code>	int		Error code, from <code>BAM_ERROR_CODE_REF</code> .		
<code>language_code</code>	smallint		Language code, from <code>LANGUAGE_CODE_REF</code> .		
<code>short_display</code>	varchar (15)		Abbreviated version of the display value.		Null
<code>display_value</code>	varchar (240)		Text description to display on screen.		

BILLING_FREQUENCY_REF

Configurable. Describes the valid billing frequencies (daily, monthly, and so on). Admin table. Read-only copy exists on Customer database.

Used by the following modules: CUSTINFO, BIP

Dependents: BILLING_FREQUENCY_VALUES, BILL_CYCLE, CMF, RATE_DISCOUNT, RATE_LATE_FEE,
RATE_RC, RATE_UNIT_CR, TAX_RATES_VAT

Triggers: Only one row can have `is_default = 1`.

Indexes: primary-key on `billing_frequency`

Field Name	Data Type	Comments	Values	Null
<code>billing_frequency</code>	tinyint	Billing frequency code: 1 = daily 2 = weekly 3 = monthly 4 = quarterly 6 = annually		
<code>is_default</code>	bit	Is this value default? (1 = yes) Only one row can be default.	(D: 0)	
<code>is_internal</code>	bit	If 1, Kenan/BP modules require this record; do not delete or modify.	(D: 0)	

BILLING_FREQUENCY_VALUES

Configurable. Describes billing frequencies defined in BILLING_FREQUENCY_REF. Admin table. Read-only copy exists on Customer database.

Indexes: primary-key on billing_frequency, language_code

Foreign Keys: (language_code) must exist in LANGUAGE_CODE_REF(language_code)
 (billing_frequency) must exist in BILLING_FREQUENCY_REF(billing_frequency)

Field Name	Data Type	Comments			Values	Null
billing_frequency	tinyint	Billing frequency, from BILLING_FREQUENCY_REF.				
language_code	smallint	Language code, from LANGUAGE_CODE_REF.				
short_display	varchar (15)	5	Abbreviated version of the display value.			Null
display_value	varchar (240)	80	Text description to display on screen.			

BILL_ADDRESS

Configurable. Provides support for deployment-specific bill formatting for front-page address. Admin table. Read-only copy exists on Customer database.

Used by the following modules: BIF

Triggers: Only one row can have `is_default = 1`.

Indexes: primary-key on `bill_fmt_opt, country_code, address_field`
unique on `bill_fmt_opt, country_code, address_line, address_line_order`

Foreign Keys: (`country_code`) must exist in `COUNTRY_CODE_REF(country_code)`
(`bill_fmt_opt`) must exist in `BILL_FMT_OPT_REF(bill_fmt_opt)`

Field Name	Data Type	Comments	Values	Null
<code>bill_fmt_opt</code>	int	Bill format option, from <code>BILL_FMT_OPT_REF</code> .		
<code>country_code</code>	smallint	Country code, from <code>COUNTRY_CODE_REF</code> .		
<code>address_field</code>	smallint	Specifies for which field this record specifies formatting: 1 = prefix 6 = title 11 = city 2 = first name 7 = company 12 = county 3 = middle initial 8 = address (line 1) 13 = state 4 = last name 9 = address (line 2) 14 = zip 5 = suffix 10 = address (line 3) 15 = <code>COUNTRY_CODE_VALUES.display_value</code>	(R: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15)	
<code>address_line</code>	tinyint	Line of address on which this field appears.	(R: 1, 2, 3, 4, 5, 6)	

Field Name	Data Type	Comments	Values	Null
address_line_order	tinyint	Order within the address line where this field falls.	(R: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15)	
field_status	tinyint	Status of this address field: 1 = required 2 = optional 3 = ignored	(R: 1, 2, 3)	
is_default	bit	Is this value default? (1 = yes) Only one row can be default.		

BILL_CLASS_REF

Configurable. Associates usage record types with each bill class (for example, priority or grade of service). Admin table.
Read-only copy exists on Customer database.

Used by the following modules: CAP, RAP, MIU, BIP

Dependents: BILL_CLASS_VALUES, RATE_PERIODS, UNIT_CR_RATE_LIMIT

Triggers: Only one row can have `is_default = 1`.

Indexes: primary-key on `bill_class`

Field Name	Data Type	Comments	Values	Null
<code>bill_class</code>	smallint	Unique internal identifier of the bill class, priority, or grade of service.	(R: != 0)	
<code>bill_class_type</code>	tinyint	Defines the overall type of the usage record: 0 = normal; record to be guided and rated normally 1 = free; record will not be guided or rated. Record started in CDR_FREE instead of CDR_DATA.	(R: 0, 1)	
<code>is_default</code>	bit	Is this value default? (1 = yes) Only one row can be default.	(D: 0)	
<code>is_internal</code>	bit	If 1, Kenan/BP modules require this record; do not delete or modify.	(D: 0)	

BILL_CLASS_VALUES

Configurable. Describes bill classes defined in BILL_CLASS_REF. Admin table. Read-only copy exists on Customer database.

Indexes: primary-key on bill_class, language_code

Foreign Keys: (bill_class) must exist in BILL_CLASS_REF(bill_class)
 (language_code) must exist in LANGUAGE_CODE_REF(language_code)

Field Name	Data Type	Comments			Values	Null
bill_class	smallint		Bill class, priority, or grade of service identifier, from BILL_CLASS_REF.			
language_code	smallint		Language code, from LANGUAGE_CODE_REF.			
short_display	varchar (15)	5	Abbreviated version of the display value.			Null
display_value	varchar (240)	80	Text description to display on screen.			

BILL_CYCLE

Configurable. Defines the dates and cycles when bills should be prepared, formatted, and dispatched. Contains one row for each defined billing cycle. Admin table. Read-only copy exists on Customer database.

Used by the following modules: CUSTINFO, BIP

Triggers: bill_period must not end with 00.

Only one value for billing_frequency exists for a given bill_period value.

Automatically set ppdd_date equal to next_ppdd_date of previous record.

Automatically set prep_date to cutoff_date + prep_delay /24(in hours).

Indexes: unique on bill_period, cutoff_date

primary-key on bill_period, ppdd_date

Foreign Keys: (billing_frequency) must exist in BILLING_FREQUENCY_REF(billing_frequency)

(bill_period) must exist in BILL_PERIOD_REF(bill_period)

Check Constraints: ppdd_date <= next_ppdd_date

Field Name	Data Type	Comments	Values	Null
bill_period	varchar	3	Bill cycle identifier, from BILL_PERIOD_REF.	
billing_frequency	tinyint		Billing frequency code, from BILLING_FREQUENCY_REF.	
ppdd_date	datetime		Date on which the payment is due for this cycle.	
next_ppdd_date	datetime		Date on which payment is due for the following cycle.	
statement_date	datetime		Statement date to print on the bill for this cycle.	
cutoff_date	datetime		Cutoff date for transactions appearing on the bill.	
prep_delay	smallint		Number of hours BIP delays after cutoff time before processing invoices for this cycle. Used to ensure that all usage for the cycle is able to be processed.	
prep_date	datetime		Modified cutoff date, calculated by: cutoff_date + (prep_delay/24).	Null

BILL_DISP_METH_REF

Configurable. Defines valid bill dispatch methods, which are included in pop-up selection lists in CUSTINFO. Admin table. Read-only copy exists on Customer database.

Used by the following modules: CUSTINFO, BIF, BID

Dependents: BILL_DISP_METH_VALUES, CMF

Triggers: Only one row can have `is_default = 1`.

Indexes: primary-key on `bill_disp_meth`

Field Name	Data Type	Comments	Values	Null
bill_disp_meth	smallint	Internal identifier of bill dispatch methods: 0 = no dispatching 1 = print on paper (P) (Individual deployments may support additional values.)	(R: >= 0)	
is_default	bit	Is this value default? (1 = yes) Only one row can be default.	(D: 0)	
is_internal	bit	If 1, Kenan/BP modules require this record; do not delete or modify.	(D: 0)	

BILL_DISP_METH_VALUES

Configurable. Describes bill dispatch methods defined in BILL_DISP_METH_REF. Admin table. Read-only copy exists on Customer database.

Indexes: primary-key on bill_disp_meth, language_code

Foreign Keys: (bill_disp_meth) must exist in BILL_DISP_METH_REF(bill_disp_meth)
 (language_code) must exist in LANGUAGE_CODE_REF(language_code)

Field Name	Data Type	Comments			Values	Null
bill_disp_meth	smallint		Bill dispatch method, from BILL_DISP_METH_REF.			
language_code	smallint		Language code, from LANGUAGE_CODE_REF.			
short_display	varchar (15)	5	Abbreviated version of the display value.			Null
display_value	varchar (240)	80	Text description to display on screen.			

BILL_FMT_OPT_REF

Configurable. Lists valid bill format options (for example, summary or detail). Admin table. Read-only copy exists on Customer database.

Used by the following modules: CUSTINFO, BIF

Dependents: BILL_ADDRESS, BILL_FMT_OPT_VALUES, BILL_SECTIONS, BILL_SIZE, CMF

Triggers: Only one row can have `is_default = 1`.

Indexes: primary-key on `bill_fmt_opt`

Field Name	Data Type	Comments	Values	Null
bill_fmt_opt	int	External bill format option ID.		
format_code	int	Internal bill format option ID, defined and used by BIF. Deployment-specific.	(R: 1, 2)	
is_default	bit	Is this value default? (1 = yes) Only one row can be default.	(D: 0)	
is_internal	bit	If 1, Kenan/BP modules require this record; do not delete or modify.	(D: 0)	

BILL_FMT_OPT_VALUES

Configurable. Describes bill format options defined in BILL_FMT_OPT_REF. Admin table. Read-only copy exists on Customer database.

Indexes: primary-key on bill_fmt_opt, language_code

Foreign Keys: (bill_fmt_opt) must exist in BILL_FMT_OPT_REF(bill_fmt_opt)
 (language_code) must exist in LANGUAGE_CODE_REF(language_code)

Field Name	Data Type	Comments	Values	Null
bill_fmt_opt	int	Bill format option identifier, from BILL_FMT_OPT_REF.		
language_code	smallint	Language code, from LANGUAGE_CODE_REF.		
short_display	varchar (15)	Abbreviated version of the display value.		Null
display_value	varchar (240)	Text description to display on screen.		

BILL_FMT_SECTION_EXCL_REF

Configurable. Defines valid bill sections. Admin table. Read-only copy exists on Customer database.

Used by the following modules: BIF

Dependents: BILL_FMT_SECTION_EXCL_VALUES, BILL_SECTIONS

Triggers: Only one row can have is_default = 1.

Indexes: primary-key on section_exclude

Field Name	Data Type	Comments	Values	Null
section_exclude	int	Unique bill section ID. Some standard values include: 1 = Balance brought forward section 5 = Usage charges detail section 7 = Remittance coupon section 10 = All charges detail section 11 = Charges detail by owning account Additional values may be available; see client-specific bill format documentation for more information.		
is_default	bit	Is this value default? (1 = yes) Only one row can be default.	(D: 0)	
is_internal	bit	If 1, Kenan/BP modules require this record; do not delete or modify.	(D: 0)	

BILL_FMT_SECTION_EXCL_VALUES

Configurable. Describes bill section IDs. Admin table. Read-only copy exists on Customer database.

Indexes: primary-key on section_exclude, language_code

Foreign Keys: (section_exclude) must exist in BILL_FMT_SECTION_EXCL_REF(section_exclude)
(language_code) must exist in LANGUAGE_CODE_REF(language_code)

Field Name	Data Type	Comments		Values	Null
section_exclude	int	Bill section ID, from BILL_FMT_SECTION_EXCL_REF.			
language_code	smallint	Language code, from LANGUAGE_CODE_REF.		(D: 1)	
short_display	varchar (15)	5	Short text description of the bill section.		Null
display_value	varchar (240)	80	Text description to display on screen.		

BILL_FMT_SECTION_TYPE_REF

Configurable. Defines valid bill section types. Admin table. Read-only copy exists on Customer database.

Used by the following modules: BIF

Dependents: BILL_FMT_SECTION_TYPE_VALUES, BILL_FORMAT_TEMPLATE

Triggers: Only one row can have is_default = 1.

Indexes: primary-key on section_type

Field Name	Data Type	Comments	Values	Null
section_type	tinyint	Unique bill section type ID. Some standard values include: 1 = Usage charges detail 2 = Recurring charges detail Additional values may be available; see client-specific bill format documentation for more information.		
is_default	bit	Is this value default? (1 = yes) Only one row can be default.	(D: 0)	
is_internal	bit	If 1, Kenan/BP modules require this record; do not delete or modify.	(D: 0)	

BILL_FMT_SECTION_TYPE_VALUES

Configurable. Describes bill section type IDs. Admin table. Read-only copy exists on Customer database.

Indexes: primary-key on section_type, language_code

Foreign Keys: (section_type) must exist in BILL_FMT_SECTION_TYPE_REF(section_type)
 (language_code) must exist in LANGUAGE_CODE_REF(language_code)

Field Name	Data Type	Comments		Values	Null
section_type	tinyint	Bill section type ID, from BILL_FMT_SECTION_TYPE_REF.			
language_code	smallint	Language code, from LANGUAGE_CODE_REF.		(D: 1)	
short_display	varchar (15)	5	Short text description of the bill section type.		Null
display_value	varchar (240)	80	Text description to display on screen.		

BILL_FMT_TEMPLATE_CODE_REF

Configurable. Defines valid bill format templates. Admin table. Read-only copy exists on Customer database.

Used by the following modules: BIF

Dependents: BILL_FMT_TEMPLATE_CODE_VALUES, BILL_FORMAT_TEMPLATE

Triggers: Only one row can have is_default = 1.

Indexes: primary-key on template_code

Field Name	Data Type	Comments	Values	Null
template_code	smallint	Unique template ID. Some standard values include: 16 = Usage charges detail 17 = Recurring charges detail 18 = Recurring charges detail for leased line circuits 19 = Recurring charges detail in multiple currencies 20 = Usage charge detail in multiple currencies Additional values may be available; see client-specific bill format documentation for more information.		
is_default	bit	Is this value default? (1 = yes) Only one row can be default.	(D: 0)	
is_internal	bit	If 1, Kenan/BP modules require this record; do not delete or modify.	(D: 0)	

BILL_FMT_TEMPLATE_CODE_VALUES

Configurable. Describes template IDs. Admin table. Read-only copy exists on Customer database.

Indexes: primary-key on template_code, language_code

Foreign Keys: (language_code) must exist in LANGUAGE_CODE_REF(language_code)
 (template_code) must exist in BILL_FMT_TEMPLATE_CODE_REF(template_code)

Field Name	Data Type	Comments	Values	Null
template_code	smallint	Template ID, from BILL_FMT_TEMPLATE_CODE_REF.		
language_code	smallint	Language code, from LANGUAGE_CODE_REF.	(D: 1)	
short_display	varchar (15)	5 Short text description of the template.		Null
display_value	varchar (240)	80 Text description to display on screen.		

BILL_FORMAT_CODE_TYPE_REF

Configurable. Defines valid bill format code type IDs. Admin table. Read-only copy exists on Customer database.

Used by the following modules: BIF

Dependents: BILL_FORMAT_CODE_TYPE_VALUES, BILL_FORMAT_TEMPLATE

Triggers: Only one row can have is_default = 1.

Indexes: primary-key on code_type

Field Name	Data Type	Comments	Values	Null
code_type	tinyint	Unique code type ID. Some standard values include: 1 = product line (PRODUCT_LINES.product_line_id). 2 = usage type (USAGE_TYPES.type_id_usg). 7 = jurisdiction (JURISDICTIONS.jurisdiction). Additional values may be available; see client-specific bill format documentation for more information.		
is_default	bit	Is this value default? (1 = yes) Only one row can be default.	(D: 0)	
is_internal	bit	If 1, Kenan/BP modules require this record; do not delete or modify.	(D: 0)	

BILL_FORMAT_CODE_TYPE_VALUES

Configurable. Describes format code type IDs. Admin table. Read-only copy exists on Customer database.

Indexes: primary-key on code_type, language_code

Foreign Keys: (code_type) must exist in BILL_FORMAT_CODE_TYPE_REF(code_type)
(language_code) must exist in LANGUAGE_CODE_REF(language_code)

Field Name	Data Type	Comments		Values	Null
code_type	tinyint	Code type ID, from BILL_FORMAT_CODE_TYPE_REF.			
language_code	smallint	Language code, from LANGUAGE_CODE_REF.		(D: 1)	
short_display	varchar (15)	5	Short text description of the code type.		Null
display_value	varchar (240)	80	Text description to display on screen.		

BILL_FORMAT_DISPLAY_TYPES

Configurable. Contains invoice display information for specific charge types. Admin table. Read-only copy exists on Customer database.

Used by the following modules: BIF

Indexes: primary-key on format_code, type_code, subtype_code, billing_category, billing_level

Field Name	Data Type	Comments	Values	Null
format_code	int	Format ID, from BILL_FMT_OPT_REF.		
type_code	smallint	Charge type identifier. If positive, matches BILL_INVOICE_DETAIL.type_code. Otherwise, can be -4 (discount summary) or -5 (taxation summary) to match BILL_INVOICE_DETAIL.subtype_code.		
subtype_code	int	If type_code is positive, this field matches BILL_INVOICE_DETAIL.subtype_code. Otherwise, this field matches the BILL_INVOICE_DETAIL.tracking_id.		
billing_category	smallint	Does this record apply to current, past, or all charges? 1 = current charges 2 = past charges 3 = credit notes 4 = no charges 100 = all charges.		
billing_level	smallint	Does this record apply to account-level or subscription-level charges? 0 = account charges 1 = subscription charges 100 = all charges		
display_type	tinyint	How should the charge be displayed? 1 = Display charge normally. 2 = Display charge as a fixed string (default is "Free") if amount is zero.	(R: 1, 2)	

BILL_FORMAT_PRODUCTS

Configurable. Contains bill formatting information for each product line. Admin table. Read-only copy exists on Customer database.

Used by the following modules: BIF

Triggers: format_code exists in BILL_FMT_OPT_REF.
msg_trigger_id exists in BILL_MESSAGE_GROUPS, if not Null.

Indexes: unique on sort_priority, format_code
primary-key on product_line_id, format_code

Foreign Keys: (product_line_id) must exist in PRODUCT_LINES(product_line_id)

Field Name	Data Type	Comments	Values	Null
format_code	int	Format option, from BILL_FMT_OPT_REF.		
product_line_id	smallint	Product line ID, from PRODUCT_LINES.		
msg_trigger_id	smallint	Bill message ID for message displayed on bill (from BILL_MESSAGES).		Null
printer_text	varchar(120)	Resource name for logo or icon printed on bill.		Null
sort_priority	smallint	Sort order of product line on bill.		
alt_printer_text	varchar(120)	Resource name for alternate logo or icon printed on bill.		Null

BILL_FORMAT_TEMPLATE

Configurable. Specifies a formatting template for each charge type area on a bill. Admin table. Read-only copy exists on Customer database.

Used by the following modules: BIF

Triggers: code_type is unique for every combination of format_code and section_type.

If code_type = 1, code_value exists as PRODUCT_LINES.product_line_id; if code_type = 2, code_value exists as USAGE_TYPES.type_id_usg; if code_type = 7, jurisdiction exists in JURISDICTIONS.

Indexes: primary-key on sort_priority, section_type, code_value, format_code
clustered, unique on section_type, code_value, equip_type_code, format_code

Foreign Keys: (template_code) must exist in BILL_FMT_TEMPLATE_CODE_REF(template_code)
(section_type) must exist in BILL_FMT_SECTION_TYPE_REF(section_type)
(element_id) must exist in PRODUCT_ELEMENTS(element_id)
(provider_id) must exist in SERVICE_PROVIDERS_REF(provider_id)
(jurisdiction) must exist in JURISDICTIONS(jurisdiction)
(code_type) must exist in BILL_FORMAT_CODE_TYPE_REF(code_type)
(equip_type_code) must exist in EQUIP_TYPE_CODE_REF(equip_type_code)
(equip_class_code) must exist in EQUIP_CLASS_CODE_REF(equip_class_code)
(class_of_service_code) must exist in CLASS_OF_SERVICE_CODE_REF(class_of_service_code)

Field Name	Data Type	Comments	Values	Null
format_code	int	Format option, from BILL_FMT_OPT_REF.		
section_type	tinyint	Invoice section, from BILL_FMT_SECTION_TYPE_REF.		
code_type	tinyint	Charge domain included in section, from BILL_FORMAT_CODE_TYPE_REF.		
code_value	smallint	Specific charge type (product, usage type, and so on), based on code_type.		

Field Name	Data Type	Comments	Values	Null
equip_type_code	smallint	Service instance type, from EQUIP_TYPE_CODE_REF.		Null
template_code	smallint	Invoice template code, from BILL_FMT_TEMPLATE_CODE_REF.		
sort_priority	smallint	Sort order of product lines and usage information on bill.		
equip_class_code	smallint	Service instance class, from EQUIP_CLASS_CODE_REF.		Null
class_of_service_code	smallint	Equipment service class identifier, from CLASS_OF_SERVICE_CODE_REF.		Null
provider_id	int	Service provider identifier, from SERVICE_PROVIDERS_REF.		Null
jurisdiction	int	Territorial division, from JURISDICTIONS.		Null
element_id	int	Product identifier from PRODUCT_ELEMENTS.		Null
table_order	smallint	Order in which sections appear if they have the same template_code.		
format_display	varchar(240)	Text description for bill format display.		

BILL_INSERTS

Configurable. Defines the characteristics of a specific bill insert. Admin table. Read-only copy exists on Customer database.

Used by the following modules: BIF

Indexes: primary-key on insert_id, language_code

Field Name	Data Type	Comments	Values	Null
insert_id	smallint	Unique internal ID of a specific bill insert. The insert code is translated into OMR marks to be printed on the bill.		
insert_pages	tinyint	Indicates the number of bill pages that are equivalent to the weight of the bill insert. BIF uses this data in order to calculate the weight of the invoice.		
language_code	smallint	Language code, from LANGUAGE_CODE_REF.		
description	varchar(120)	Description of bill insert (for example, envelope, special promotion, and so on).		

BILL_INSERT_GROUPS

Configurable. Defines the bill inserts to be received by each customer group. Admin table. Read-only copy exists on Customer database.

Used by the following modules: BIF

Triggers: insert_id exists in BILL_INSERTS.

There can be no overlapping active_dt and inactive_dt ranges.

Indexes: unique on insert_grp_id, insert_bin_num

primary-key on insert_grp_id, insert_id, geo_key, mkt_code

unique on insert_grp_id, insert_id, priority, active_dt, geo_key, mkt_code

Foreign Keys: (mkt_code) must exist in MKT_CODE_REF(mkt_code)

(insert_foreign_key) must exist in INSERT_FOREIGN_KEY_REF(insert_foreign_key)

(insert_grp_id) must exist in INSERT_GRP_ID_REF(insert_grp_id)

Check Constraints: active_dt <= inactive_dt

Field Name	Data Type	Comments	Values	Null
insert_grp_id	smallint	Customer group ID, from INSERT_GRP_ID_REF, to receive insert.		
insert_id	smallint	Bill insert ID from BILL_INSERTS, to be printed as OMR marks on the bill.		
insert_trigger_id	smallint	Used for selection of event-driven bill inserts.		
insert_bin_num	tinyint	Position of OMR mark on printed bill. It tells the insert machine which inserts to pull.	(R: 3, 4, 5, 6, 7, 8, 9, 11, 12, 13, 14, 15, 16, 17, 19, 20, 21, 22, 23, 24, 25)	
geo_key	char	8 Internal Kenan/BP code representing geographical region, for grouping insert recipients, composed of 2-character state abbreviation plus zip code. "00000" indicates all regions.		

Field Name	Data Type	Comments	Values	Null
mkt_code	smallint	Market code identifier, from MKT_CODE_REF, of market segment to receive insert.		
is_required	bit	Set to 1 if the insert is required, set to 0 if it is not required or INSERT_GRP_ID_REF.max_inserts is set to Null.		
priority	smallint	Priority of the insert within the group when the account qualifies for more than the maximum number of inserts. Set to Null if INSERT_GRP_ID_REF.max_inserts is set to Null.		Null
active_dt	smalldt	Date when the insert becomes applicable.		
inactive_dt	smalldt	Date when the insert is no longer applicable.		Null
insert_foreign_key	int	Client-specific key value, from INSERT_FOREIGN_KEY_REF.	(D: 0)	

BILL_MESSAGES

Configurable. Defines text messages that can appear in bill images. CMF.msg_grp_id and CMF.mkt_code determine which messages appear on the customer bill. Admin table. Read-only copy exists on Customer database.

Used by the following modules: BIF

Indexes: primary-key on message_id, line_num, language_code

Field Name	Data Type	Comments	Values	Null
message_id	smallint	Unique identifier for bill message.		
line_num	smallint	Line number for non-word wrapped messages.		
language_code	smallint	Language code, from LANGUAGE_CODE_REF.		
message_text	text	Message text.		

BILL_MESSAGE_GROUPS

Configurable. Maps message groups to bill messages and other customer segment information. Admin table. Read-only copy exists on Customer database.

Triggers: There can be no overlapping active_dt and inactive_dt ranges.

mkt_code and message_id exist in appropriate tables (see below) or are 0.

Indexes: clustered, unique on msg_grp_id, message_id, msg_sequence_num, active_dt, geo_key, mkt_code, service_center_id, msg_foreign_key

Foreign Keys: (msg_grp_id) must exist in MSG_GRP_ID_REF(msg_grp_id)

(msg_trigger_id) must exist in MSG_TRIGGER_ID_REF(msg_trigger_id)

Check Constraints: active_dt <= inactive_dt

Field Name	Data Type	Comments		Values	Null
msg_grp_id	smallint	Bill message group ID, from MSG_GRP_ID_REF.			
message_id	smallint	Message ID, from BILL_MESSAGES.			
msg_trigger_id	smallint	Message trigger ID, from MSG_TRIGGER_ID_REF.			
msg_sequence_num	smallint	Priority of the message within the group when account qualifies for more than one message for the same message_trigger_id.	(R: > 0)		
geo_key	char	Initial non-zero digits of a zip code to match the corresponding initial digits of CMF.bill_zip, or 00000000 for all regions.			
mkt_code	smallint	Market code, from MKT_CODE_REF, for group to receive message (or 0).			
active_dt	smalldt	Date on which the message can first appear.			
inactive_dt	smalldt	Date on which the message can no longer appear.		Null	
service_center_id	smallint	Bill message service center ID, from SERVICE_CENTERS.		Null	
msg_foreign_key	int	Deployment-specific key field.		Null	

BILL_PERIOD_REF

Configurable. Defines valid bill periods. Admin table. Read-only copy exists on Customer database.

Used by the following modules: BIP, CUSTINFO

Dependents: BILL_CYCLE, BILL_PERIOD_VALUES, CMF, CONTRACT_TYPES, CUSTOMER_CONTRACT,
CUSTOMER_CONTRACT_VIEW, PRODUCT, PRODUCT_CHARGE_MAP, PRODUCT_VIEW

Triggers: Only one row can have `is_default = 1`.

Indexes: primary-key on `bill_period`

Field Name	Data Type		Comments	Values	Null
bill_period	varchar	3	Identifier of a bill cycle.		
contract_use_code	tinyint		Indicates whether the bill period can be used in a contract: 0 = provision directly or through contract 1 = provision only through contract 2 = cannot provision through contract	(D: 0)	
is_default	bit		Is this value default? (1 = yes) Only one row can be default.	(D: 0)	
is_internal	bit		If 1, Kenan/BP modules require this record; do not delete or modify.	(D: 0)	

BILL_PERIOD_VALUES

Configurable. Describes bill periods defined in BILL_PERIOD_REF. Admin table. Read-only copy exists on Customer database.

Indexes: primary-key on bill_period, language_code

Foreign Keys: (bill_period) must exist in BILL_PERIOD_REF(bill_period)
 (language_code) must exist in LANGUAGE_CODE_REF(language_code)

Field Name	Data Type	Comments	Values	Null
bill_period	varchar	3	Bill period, from BILL_PERIOD_REF.	
language_code	smallint		Language code, from LANGUAGE_CODE_REF.	
short_display	varchar (15)	5	Abbreviated version of the display value.	Null
display_value	varchar (240)	80	Text description to display on screen.	

BILL_REF_NO_MASTER

Dynamic. Used to allocate groups of unique invoice identifiers to each server. Should always have exactly 1 row. Admin table.

Used by the following modules: BIP

Indexes: primary-key on bill_ref_no,bill_ref_resets

Field Name	Data Type	Comments	Values	Null
bill_ref_no	int	Invoice identifier.		
bill_ref_resets	tinyint	Reset counter value for bill_ref_no.		

BILL_SECTIONS

Configurable. Associates sections of a bill with existing bill formats. Admin table. Read-only copy exists on Customer database.

Used by the following modules: BIF

Indexes: primary-key on bill_fmt_opt, section_exclude

Foreign Keys: (section_exclude) must exist in BILL_FMT_SECTION_EXCL_REF(section_exclude)
 (bill_fmt_opt) must exist in BILL_FMT_OPT_REF(bill_fmt_opt)

Field Name	Data Type	Comments	Values	Null
bill_fmt_opt	int	Bill format code, from BILL_FMT_OPT_REF.		
section_exclude	int	Section (from BILL_FMT_SECTION_EXCL_REF) to exclude from bills with a given bill_fmt_opt.		

BILL_SIZE

Configurable. Specifies paper size for various bill formats. Admin table. Read-only copy exists on Customer database.

Used by the following modules: BIF, ACE

Triggers: Only one row can have `is_default = 1`.

Indexes: primary-key on `bill_fmt_opt, paper_size`

Foreign Keys: (`bill_fmt_opt`) must exist in `BILL_FMT_OPT_REF(bill_fmt_opt)`

Field Name	Data Type	Comments	Values	Null
<code>bill_fmt_opt</code>	int	Identifier of bill format option, from <code>BILL_FMT_OPT_REF</code> .		
<code>paper_size</code>	smallint	Indicates paper size: 0 = US Letter Size 1 = A4	(R: 0, 1)	
<code>is_default</code>	bit	Is this value default? (1 = yes) Only one row can be default.		

BMF_TRANS_DESCR

Configurable. Describes valid payment and refund types for BMF and REFUND. Admin table. Read-only copy exists on Customer database.

Used by the following modules: BIP, CUSTINFO, JNL, CPM, LBX, EFT

Dependents: BMF, CCARD_TRANS, LBX_PAYMENT_TYPES

Triggers: description_code exists in DESCRIPTIONS.

If bmf_trans_category = 12, ensure that billing_category, allow_suspend_acnt, and allow_autotransfer are 1, and allow_manual_entry, is_displayed_onbill, and is_journalable are 0.

Indexes: primary-key on bmf_trans_type

Field Name	Data Type	Comments	Values	Null																																
bmf_trans_type	int	Type of transaction (client-defined transaction types have negative values): <table> <tbody> <tr><td>1 = payment</td><td>27 = refund</td></tr> <tr><td>2 = prepayment</td><td>28 = refund reversal</td></tr> <tr><td>3 = correction payment</td><td>29 = IDB credit/payment</td></tr> <tr><td>4 = OCA payment</td><td>30 = refund by check</td></tr> <tr><td>11 = payment reversal</td><td>31 = refund by credit card</td></tr> <tr><td>12 = prepayment reversal</td><td>32 = refund by electronic funds transfer</td></tr> <tr><td>13 = correction reversal</td><td>33 = negative balance payment</td></tr> <tr><td>14 = OCA payment reversal</td><td>40 = writeoff payment</td></tr> <tr><td>15 = dishonored check reversal</td><td>41 = writeoff payment reversal</td></tr> <tr><td>16 = Tax portion of prepayment reversal (credit)</td><td>51 = backout payment</td></tr> <tr><td>21 = deposit payment</td><td>52 = backout payment (debit)</td></tr> <tr><td>22 = deposit interest adjustment</td><td>53 = currency rounding</td></tr> <tr><td>23 = tax liability</td><td>54 = credit note payment</td></tr> <tr><td>24 = deposit payment reversal</td><td>80 = system payment</td></tr> <tr><td>25 = deposit interest reversal</td><td>90 = system payment reversal</td></tr> <tr><td>26 = tax liability reversal</td><td></td></tr> </tbody> </table>	1 = payment	27 = refund	2 = prepayment	28 = refund reversal	3 = correction payment	29 = IDB credit/payment	4 = OCA payment	30 = refund by check	11 = payment reversal	31 = refund by credit card	12 = prepayment reversal	32 = refund by electronic funds transfer	13 = correction reversal	33 = negative balance payment	14 = OCA payment reversal	40 = writeoff payment	15 = dishonored check reversal	41 = writeoff payment reversal	16 = Tax portion of prepayment reversal (credit)	51 = backout payment	21 = deposit payment	52 = backout payment (debit)	22 = deposit interest adjustment	53 = currency rounding	23 = tax liability	54 = credit note payment	24 = deposit payment reversal	80 = system payment	25 = deposit interest reversal	90 = system payment reversal	26 = tax liability reversal			
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24 = deposit payment reversal	80 = system payment																																			
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26 = tax liability reversal																																				

Field Name	Data Type	Comments	Values	Null
bmf_trans_category	tinyint	Transaction category: 1 = payment 2 = adjustment (reversal) 3 = payment (A/R but not invoice item) 4 = deposit 5 = deposit refund 6 = bill backout 9 = system generated payments 11 = credit note 12 = rounding payment	(R: 1, 2, 3, 4, 5, 6, 9, 11, 12)	
trans_sign	smallint	Sign of the transaction: 1 = debit -1 = credit	(R: -1, 1)	
billing_category	smallint	Category for billing: 1 = apply to current charges 2 = apply to past charges, credit notes 3,4 = not used	(R: 1, 2, 3, 4)	
description_code	int	Description from DESCRIPTIONS.		
allow_manual_entry	bit	Can payments of this type be entered manually? (1 = yes)		
allow_suspense_acnt	bit	Can payments of this type be applied to the suspense account (invoice 0)? (1 = yes). Should be 1 for prepayments.		
is_displayed_onbill	bit	Is the record displayed on the bill? (1 = yes)	(D: 1)	
is_journalable	bit	Should the transaction be booked? (1 = yes)	(D: 1)	
allow_autotransfer	bit	Can a payment of this type be allocated to an invoice other than the one specified? (1 = yes)	(D: 1)	

BONUS_POINT_ID_REF

Configurable. Defines bonus points. Admin table. Read-only copy exists on Customer database.

Used by the following modules: BIP

Dependents: BONUS_POINT_ID_VALUES, CMF_BONUS_POINT, CONTRACT_TYPES

Triggers: Both use_by and use_by_units must have values or both must be Null.

Cannot populate use_by, use_by_units, and use_by_date in one record.

Only one row can have is_default = 1.

Indexes: primary-key on bonus_point_id

Field Name	Data Type	Comments	Values	Null
bonus_point_id	smallint	Bonus point identifier.		
rounding_method	tinyint	Rounding method for the bonus points. 0 = no rounding method (in other words truncate) 1 = always round to the next lowest value 2 = round to next highest value 3 = round to nearest value (round up if exactly half) 4 = round to nearest value (round down if exactly half)	(D: 3) (R: 0, 1, 2, 3, 4)	
use_by	smallint	Interval after which the bonus points expire if not used, measured in use_by_units, figured from date of provisioning. Populate this or use_by_date, but not both.		Null
use_by_units	smallint	Units in which use_by is measured: -1=none 140 = days 150 = weeks 160 = months 170 = quarters 180 = years	(D: -1) (R: 140, 150, 160, 170, 180, -1)	

Field Name	Data Type	Comments	Values	Null
use_by_date	datetime	Date by which the bonus points must be used. Populate this or use_by, but not both.		Null
is_default	bit	Is this value default? (1 = yes) Only one row can be default.	(D: 0)	
is_internal	bit	If 1, Kenan/BP modules require this record; do not delete or modify.	(D: 0)	

BONUS_POINT_ID_VALUES

Configurable. Describes bonus points defined in BONUS_POINT_ID_REF. Admin table. Read-only copy exists on Customer database.

Used by the following modules: BIP

Indexes: primary-key on bonus_point_id, language_code

Foreign Keys: (bonus_point_id) must exist in BONUS_POINT_ID_REF(bonus_point_id)
 (language_code) must exist in LANGUAGE_CODE_REF(language_code)

Field Name	Data Type	Comments		Values	Null
bonus_point_id	smallint		Bonus point identifier, from BONUS_POINT_ID_REF.		
language_code	smallint		Language code, from LANGUAGE_CODE_REF.		
short_display	varchar (15)	5	Abbreviated version of the display value.		Null
display_value	varchar (240)	80	Text description to display on screen.		

BONUS_POINT_TRANS_TYPE_REF

Configurable. Defines bonus point transaction types. Admin table. Read-only copy exists on Customer database.

Used by the following modules: BIP

Dependents: BONUS_POINT_TRANS_TYPE_VALUES, CMF_BONUS_POINT

Triggers: Cannot update trans_sign.

There can be only one row where bonus_point_trans_category is 1, trans_sign is -1, and is_system_generated is 1.

There can be only one row where bonus_point_trans_category is 3, trans_sign is -1, and is_system_generated is 1.

There can be only one row where bonus_point_trans_category is 3, trans_sign is 1, and is_system_generated is 1.

Indexes: primary-key on bonus_point_trans_type

Field Name	Data Type	Comments	Values	Null
bonus_point_trans_type	smallint	Bonus point transaction type identifier.		
bonus_point_trans_category	smallint	Bonus point transaction category: 1 = Earnings / earnings adjustment 2 = Spending / spending adjustment 3 = Transfer in / out	(R: 1, 2, 3)	
trans_sign	smallint	Transaction sign: -1 = credit 0 = warning / non-balance affecting transaction 1 = debit	(R: -1, 0, 1)	
is_displayed_onbill	bit	Is the record displayed on the bill? (1 = yes)	(D: 1)	
is_viewable_on_gui	bit	Can this bonus point transaction type be viewed with a customer care interface? (1 = yes) This field applies only to custom-built interfaces.	(D: 0)	

Field Name	Data Type	Comments	Values	Null
is_external	bit	Was this bonus point transaction created outside Kenan/BP? (1 = yes)		
is_system_generated	bit	Was this bonus point transaction created by Kenan/BP? (1 = yes)		
is_default	bit	Is this value default? (1 = yes) Only one row can be default.	(D: 0)	
is_internal	bit	If 1, Kenan/BP modules require this record; do not delete or modify.	(D: 0)	

BONUS_POINT_TRANS_TYPE_VALUES

Configurable. Describes bonus point transaction types defined in BONUS_POINT_TRANS_TYPE_REF. Admin table. Read-only copy exists on Customer database.

Used by the following modules: BIP

Indexes: primary-key on bonus_point_trans_type, language_code

Foreign Keys: (language_code) must exist in LANGUAGE_CODE_REF(language_code)
 (bonus_point_trans_type) must exist in
 BONUS_POINT_TRANS_TYPE_REF(bonus_point_trans_type)

Field Name	Data Type	Comments		Values	Null
bonus_point_trans_type	smallint		Bonus point transaction type, from BONUS_POINT_TRANS_TYPE_REF.		
language_code	smallint		Language code, from LANGUAGE_CODE_REF.		
short_display	varchar(15)	5	Abbreviated version of the display value.		Null
display_value	varchar(240)	80	Text description to display on screen.		

BP_SERVER_TO_RPAC_MAP

Configurable. Maps Kenan/BP servers to Datablitz servers. Admin table. Read-only copy on Customer.

Triggers: Each customer server may have only one prepay and only one ETUC cluster.

Indexes: primary-key on server_id, rpac_cluster_id

Foreign Keys: (rpac_cluster_id) must exist in RPAC_CLUSTER_DEFINITIONS(rpac_cluster_id)
 (server_id) must exist in SERVER_DEFINITION(server_id)

Field Name	Data Type	Comments	Values	Null
server_id	tinyint	Server ID, from SERVER_DEFINITION.		
rpac_cluster_id	int	RPAC cluster ID, from RPAC_CLUSTER_DEFINITIONS.		

CCARD_AVN_RESPONSE_CODES

Static. Holds Address Verification Processing response codes and their descriptions. Admin table. Read-only copy exists on Customer database.

Used by the following modules: CPM, CCIU

Triggers: ccard_carrier exists in CCARD_TYPE_CODE_REF.

Indexes: primary-key on clearing_house_id, ccard_carrier, avs_response_code

Foreign Keys: (clearing_house_id) must exist in CLEARING_HOUSE_ID_REF(clearing_house_id)

Field Name	Data Type		Comments	Values	Null
clearing_house_id	char	3	Clearinghouse ID, from CLEARING_HOUSE_ID_REF.		
ccard_carrier	char (12)	4	Type of credit care, from CCARD_TYPE_CODE_REF.		
avs_response_code	char	4	Return code from the credit card clearinghouse.		
response_code_descr	varchar (120)	40	Description of the AVS response.		

CCARD_RESPONSE_CODE_REF

Static, configurable if necessary. Describes and categorizes known credit card clearinghouse response codes. Admin table. Read-only copy exists on Customer database.

Used by the following modules: CPM, CCIU

Dependents: CCARD_RESPONSE_CODE_VALUES

Triggers: Only one row can have `is_default = 1`.

Indexes: primary-key on `clearing_house_id, response_code`

Field Name	Data Type	Comments	Values	Null
response_code	char (12) 4	Return code from the clearinghouse.		
response_category	tinyint	Category of the transaction failure: 0 = success 5 = data error 1 = comm 6 = forced deposit 2 = hard decline 7 = call company 3 = soft decline 8 = do not use, treated as soft decline 4 = referral	(R: 0, 1, 2, 3, 4, 5, 6, 7)	
clearing_house_id	char	3	Clearinghouse ID, from CLEARING_HOUSE_ID_REF.	
treatment_ind	smallint	Treatment indicator: 0 = do not disconnect account 2 = suspend account	(D: 0) (R: 0, 2)	
resend_delay	tinyint	If non-zero, number of days to delay resending this transaction if errored.		Null
is_default	bit	Is this value default? (1 = yes) Only one row can be default.	(D: 0)	
is_internal	bit	If 1, Kenan/BP modules require this record; do not delete or modify.	(D: 0)	

CCARD_RESPONSE_CODE_VALUES

Configurable. Describes clearinghouse response codes defined in CCARD_RESPONSE_CODE_REF. Admin table. Read-only copy exists on Customer database.

Indexes: primary-key on clearing_house_id, response_code, language_code

Foreign Keys: (clearing_house_id, response_code) must exist in
CCARD_RESPONSE_CODE_REF(clearing_house_id, response_code)
(language_code) must exist in LANGUAGE_CODE_REF(language_code)

Field Name	Data Type		Comments	Values	Null
clearing_house_id	char	3	Clearinghouse ID, from CCARD_RESPONSE_CODE_REF.		
response_code	char (12)	4	Credit card clearinghouse return code, from CCARD_RESPONSE_CODE_REF.		
language_code	smallint		Language code, from LANGUAGE_CODE_REF.		
short_display	varchar (15)	5	Abbreviated version of the display value.		Null
display_value	varchar (240)	80	Text description to display on screen.		

CCARD_TYPE_CODE_RANGE

Configurable. Defines ranges of valid account numbers for each credit card type. Admin table. Read-only copy exists on Customer database.

Triggers: maximum_range_value must be greater than minimum_range_value and cannot overlap.

Indexes: unique on ccard_type_code, minimum_range_value
primary-key on minimum_range_value

Foreign Keys: (ccard_type_code) must exist in CCARD_TYPE_CODE_REF(ccard_type_code)

Field Name	Data Type	Comments		Values	Null
ccard_type_code	tinyint	Valid initial digit of credit card, from CCARD_TYPE_CODE_REF.			
minimum_range_value	char	22	Lowest number in the range.		
maximum_range_value	char	22	Highest number in the range.		

CCARD_TYPE_CODE_REF

Static. Defines valid credit card types. Admin table. Read-only copy exists on Customer database.

Used by the following modules: CPM, CCIU

Dependents: CCARD_TYPE_CODE_RANGE, CCARD_TYPE_CODE_VALUES

Triggers: Only one row can have is_default = 1.

Indexes: primary-key on ccard_type_code
unique on ccard_carrier

Field Name	Data Type	Comments	Values	Null
ccard_carrier	char (12) 4	Credit card carrier.		
ccard_type_code	tinyint	Credit card type ID, typically first digit of credit card number. For example: 3 = American Express 4 = Visa 5 = MasterCard 6 = Discover 7 = Diners Club	(R: not in 99, 255)	
is_default	bit	Is this value default? (1 = yes) Only one row can be default.	(D: 0)	
is_internal	bit	If 1, Kenan/BP modules require this record; do not delete or modify.	(D: 0)	
check_digit_alg	tinyint	Defines which checksum algorithm is used to validate credit card numbers. 0 = no check 1 = modulus 10 2 = AMEX 3 = Diners Club	(R: 0, 1, 2, 3)	

CCARD_TYPE_CODE_VALUES

Configurable. Describes credit cards defined in CCARD_TYPE_CODE_REF. Admin table. Read-only copy exists on Customer database.

Indexes: primary-key on ccard_type_code, language_code

Foreign Keys: (language_code) must exist in LANGUAGE_CODE_REF(language_code)
 (ccard_type_code) must exist in CCARD_TYPE_CODE_REF(ccard_type_code)

Field Name	Data Type		Comments	Values	Null
ccard_type_code	tinyint		Valid initial digit of credit card, from CCARD_TYPE_CODE_REF.		
language_code	smallint		Language code, from LANGUAGE_CODE_REF.		
short_display	varchar (15)		Abbreviated version of the display value.		Null
display_value	varchar (240)		Full name of credit card type (for example, American Express).		

CC_BALANCE

Dynamic. Lists batch totals transmitted to and received from credit card clearinghouses. This table is no longer supported. Admin table.

Used by the following modules: CPM, LBX, CCIU

Indexes: primary-key on file_name

Field Name	Data Type		Comments	Values	Null
clearing_house	char	10	Name of the credit card clearinghouse.		
sent_receive	char	1	Identifies if the record was sent (S) or received (R).		
transaction_date	smalldt		Date of transaction.		
file_name	char	15	UNIX file name transmitted.		
visa_total	numeric	18	VISA total sent/received.		
msc_total	numeric	18	MasterCard total sent/received.		
amex_total	numeric	18	American Express total sent/received.		
disc_total	numeric	18	Discover total sent/received.		
batch_total	numeric	18	Total of all credit card transactions sent/received.		
clearing_house_id	char	3	Clearinghouse ID, from CLEARING_HOUSE_ID_REF.		

CDR_ADJ_ERROR_REF

Configurable. Describes adjustment errors on unit credit adjustments. Admin table. Read-only copy exists on Customer database.

Dependents: CDR_ADJ_ERROR_VALUES

Indexes: primary-key on cdr_adj_error

Field Name	Data Type	Comments	Values	Null
cdr_adj_error	int	Unique internal identifier of adjustment error.		
is_default	bit	Is this value default? (1 = yes) Only one row can be default.		
is_internal	bit	If 1, Kenan/BP modules require this record; do not delete or modify.		

CDR_ADJ_ERROR_VALUES

Configurable. Describes adjustment errors defined in CDR_ADJ_ERROR_REF. Admin table. Read-only copy exists on Customer database.

Indexes: primary-key on cdr_adj_error, language_code

Foreign Keys: (language_code) must exist in LANGUAGE_CODE_REF(language_code)
 (cdr_adj_error) must exist in CDR_ADJ_ERROR_REF(cdr_adj_error)

Field Name	Data Type		Comments	Values	Null
cdr_adj_error	int		Adjustment error ID, from CDR_ADJ_ERROR_REF.		
language_code	smallint		Language code, from LANGUAGE_CODE_REF.		
short_display	varchar(15)		Abbreviated version of the display value.		Null
display_value	varchar(240)		Text description to display on screen.		

CDR_CHECK_SUM_1

Dynamic. Stores duplication checking information from January for CDR files. Admin table.

Used by the following modules: MCAP

Indexes: primary-key on check_sum1, check_sum2

Field Name	Data Type	Comments	Values	Null
file_id	int	Unique identifier for a CDR file.		
file_id_serv	tinyint	Server ID to uniquely identify file_id.		
check_sum1	int	The value of the forward checksum for this CDR file.		
check_sum2	int	The value of the backward checksum for this CDR file.		
usage_file_seqnum	int	The sequence number from the usage file. A usage_file_seqnum value of 249 means that this record is the 249th record in the usage file.		

CDR_CHECK_SUM_10

Dynamic. Stores duplication checking information from October for CDR files. Admin table.

Used by the following modules: MCAP

Indexes: primary-key on check_sum1, check_sum2

Field Name	Data Type	Comments	Values	Null
file_id	int	Unique identifier for a CDR file.		
file_id_serv	tinyint	Server ID to uniquely identify file_id.		
check_sum1	int	The value of the forward checksum for this CDR file.		
check_sum2	int	The value of the backward checksum for this CDR file.		
usage_file_seqnum	int	The sequence number from the usage file. A usage_file_seqnum value of 249 means that this record is the 249th record in the usage file.		

CDR_CHECK_SUM_11

Dynamic. Stores duplication checking information from November for CDR files. Admin table.

Used by the following modules: MCAP

Indexes: primary-key on check_sum1, check_sum2

Field Name	Data Type	Comments	Values	Null
file_id	int	Unique identifier for a CDR file.		
file_id_serv	tinyint	Server ID to uniquely identify file_id.		
check_sum1	int	The value of the forward checksum for this CDR file.		
check_sum2	int	The value of the backward checksum for this CDR file.		
usage_file_seqnum	int	The sequence number from the usage file. A usage_file_seqnum value of 249 means that this record is the 249th record in the usage file.		

CDR_CHECK_SUM_12

Dynamic. Stores duplication checking information from December for CDR files. Admin table.

Used by the following modules: MCAP

Indexes: primary-key on check_sum1, check_sum2

Field Name	Data Type	Comments	Values	Null
file_id	int	Unique identifier for a CDR file.		
file_id_serv	tinyint	Server ID to uniquely identify file_id.		
check_sum1	int	The value of the forward checksum for this CDR file.		
check_sum2	int	The value of the backward checksum for this CDR file.		
usage_file_seqnum	int	The sequence number from the usage file. A usage_file_seqnum value of 249 means that this record is the 249th record in the usage file.		

CDR_CHECK_SUM_2

Dynamic. Stores duplication checking information from February for CDR files. Admin table.

Used by the following modules: MCAP

Indexes: primary-key on check_sum1, check_sum2

Field Name	Data Type	Comments	Values	Null
file_id	int	Unique identifier for a CDR file.		
file_id_serv	tinyint	Server ID to uniquely identify file_id.		
check_sum1	int	The value of the forward checksum for this CDR file.		
check_sum2	int	The value of the backward checksum for this CDR file.		
usage_file_seqnum	int	The sequence number from the usage file. A usage_file_seqnum value of 249 means that this record is the 249th record in the usage file.		

CDR_CHECK_SUM_3

Dynamic. Stores duplication checking information from March for CDR files. Admin table.

Used by the following modules: MCAP

Indexes: primary-key on check_sum1, check_sum2

Field Name	Data Type	Comments	Values	Null
file_id	int	Unique identifier for a CDR file.		
file_id_serv	tinyint	Server ID to uniquely identify file_id.		
check_sum1	int	The value of the forward checksum for this CDR file.		
check_sum2	int	The value of the backward checksum for this CDR file.		
usage_file_seqnum	int	The sequence number from the usage file. A usage_file_seqnum value of 249 means that this record is the 249th record in the usage file.		

CDR_CHECK_SUM_4

Dynamic. Stores duplication checking information from April for CDR files. Admin table.

Used by the following modules: MCAP

Indexes: primary-key on check_sum1, check_sum2

Field Name	Data Type	Comments	Values	Null
file_id	int	Unique identifier for a CDR file.		
file_id_serv	tinyint	Server ID to uniquely identify file_id.		
check_sum1	int	The value of the forward checksum for this CDR file.		
check_sum2	int	The value of the backward checksum for this CDR file.		
usage_file_seqnum	int	The sequence number from the usage file. A usage_file_seqnum value of 249 means that this record is the 249th record in the usage file.		

CDR_CHECK_SUM_5

Dynamic. Stores duplication checking information from May for CDR files. Admin table.

Used by the following modules: MCAP

Indexes: primary-key on check_sum1, check_sum2

Field Name	Data Type	Comments	Values	Null
file_id	int	Unique identifier for a CDR file.		
file_id_serv	tinyint	Server ID to uniquely identify file_id.		
check_sum1	int	The value of the forward checksum for this CDR file.		
check_sum2	int	The value of the backward checksum for this CDR file.		
usage_file_seqnum	int	The sequence number from the usage file. A usage_file_seqnum value of 249 means that this record is the 249th record in the usage file.		

CDR_CHECK_SUM_6

Dynamic. Stores duplication checking information from June for CDR files. Admin table.

Used by the following modules: MCAP

Indexes: primary-key on check_sum1, check_sum2

Field Name	Data Type	Comments	Values	Null
file_id	int	Unique identifier for a CDR file.		
file_id_serv	tinyint	Server ID to uniquely identify file_id.		
check_sum1	int	The value of the forward checksum for this CDR file.		
check_sum2	int	The value of the backward checksum for this CDR file.		
usage_file_seqnum	int	The sequence number from the usage file. A usage_file_seqnum value of 249 means that this record is the 249th record in the usage file.		

CDR_CHECK_SUM_7

Dynamic. Stores duplication checking information from July for CDR files. Admin table.

Used by the following modules: MCAP

Indexes: primary-key on check_sum1, check_sum2

Field Name	Data Type	Comments	Values	Null
file_id	int	Unique identifier for a CDR file.		
file_id_serv	tinyint	Server ID to uniquely identify file_id.		
check_sum1	int	The value of the forward checksum for this CDR file.		
check_sum2	int	The value of the backward checksum for this CDR file.		
usage_file_seqnum	int	The sequence number from the usage file. A usage_file_seqnum value of 249 means that this record is the 249th record in the usage file.		

CDR_CHECK_SUM_8

Dynamic. Stores duplication checking information from August for CDR files. Admin table.

Used by the following modules: MCAP

Indexes: primary-key on check_sum1, check_sum2

Field Name	Data Type	Comments	Values	Null
file_id	int	Unique identifier for a CDR file.		
file_id_serv	tinyint	Server ID to uniquely identify file_id.		
check_sum1	int	The value of the forward checksum for this CDR file.		
check_sum2	int	The value of the backward checksum for this CDR file.		
usage_file_seqnum	int	The sequence number from the usage file. A usage_file_seqnum value of 249 means that this record is the 249th record in the usage file.		

CDR_CHECK_SUM_9

Dynamic. Stores duplication checking information from September for CDR files. Admin table.

Used by the following modules: MCAP

Indexes: primary-key on check_sum1, check_sum2

Field Name	Data Type	Comments	Values	Null
file_id	int	Unique identifier for a CDR file.		
file_id_serv	tinyint	Server ID to uniquely identify file_id.		
check_sum1	int	The value of the forward checksum for this CDR file.		
check_sum2	int	The value of the backward checksum for this CDR file.		
usage_file_seqnum	int	The sequence number from the usage file. A usage_file_seqnum value of 249 means that this record is the 249th record in the usage file.		

CDR_COMP_STATUS_REF

Configurable. Defines all valid completion status values that can be provided on input usage records. Admin table.
Read-only copy exists on Customer database.

Used by the following modules: CAP, RAP, MIU

Dependents: CDR_COMP_STATUS_VALUES

Triggers: Only one row can have `is_default = 1`.

Indexes: primary-key on `comp_status`

Field Name	Data Type	Comments	Values	Null
comp_status	tinyint	Internal identifier used by other tables to uniquely reference a completion status.	(R: < 255)	
comp_status_type	tinyint	Completion status types: 0 = Should be processed normally; will be put into CDR_DATA 1 = FREE; pass-thru; will be put into CDR_FREE 2 = External error; will be put into CDR_DATA_WORK 3 = FREE and discard. Nonbillable, not saved.	(R: 0, 1, 2, 3)	
guide_flag	bit	Should the usage be guided and rated? (0 = no) Useful for free comp_status_type.		
is_default	bit	Is this value default? (1 = yes) Only one row can be default.	(D: 0)	
is_internal	bit	If 1, Kenan/BP modules require this record; do not delete or modify.	(D: 0)	

CDR_COMP_STATUS_VALUES

Configurable. Describes completion status defined in CDR_COMP_STATUS_REF. Admin table. Read-only copy exists on Customer database.

Indexes: primary-key on comp_status, language_code

Foreign Keys: (language_code) must exist in LANGUAGE_CODE_REF(language_code)
 (comp_status) must exist in CDR_COMP_STATUS_REF(comp_status)

Field Name	Data Type	Comments			Values	Null
comp_status	tinyint	Completion status identifier, from CDR_COMP_STATUS_REF.				
language_code	smallint	Language code, from LANGUAGE_CODE_REF.				
short_display	varchar (15)	Abbreviated version of the display value.				Null
display_value	varchar (240)	Text description to display on screen.				

CDR_CONsolidation_Keys

Configurable. Indicates by which fields charges will be consolidated. Admin table. Read-only copy exists on Customer database.

Used by the following modules: CAP, BIP

Triggers: Disallow rows with `is_consolidation_key = 1` and `is_empty = 1`.

```
field_name must be one of the following from CDR_DATA: msg_id, msg_id2, msg_id_serv,  
ext_tracking_id, trans_id, element_id, type_id_usg, rate_class, bill_class,  
provider_id, jurisdiction, rate_currency_code, account_no, subscr_no,  
subscr_no_resets, external_id, external_id_type, point_origin, country_code_origin,  
country_dial_code_origin, point_id_origin, point_tax_code_origin,  
point_tax_code_type_origin, point_target, country_code_target, point_id_target,  
point_tax_code_target, point_tax_code_type_target, base_amt, rate_dt, trans_dt,  
second_dt, timezone, primary_units, second_units, third_units, units_currency_code,  
billing_units_type, ccard_id, ccard_id_serv, federal_tax, state_tax, county_tax,  
city_tax, other_tax, annotation, customer_tag, rated_units, amount, foreign_amount,  
rate_period, no_bill, comp_status, cdr_status, bill_ref_no, bill_ref_resets, file_id,  
file_id_serv, rev_rcv_cost_ctr, arch_flag, unrounded_amount, corridor_plan_id,  
cell_id_origin, split_row_num, orig_type_id_usg, access_region_origin,  
access_region_target, open_item_id, num_records, amount_reduction,  
amount_reduction_id.
```

Disallow rows in which `is_consolidation_key = 1` and `field_name` is one of the following from CDR_DATA: bill_class, country_code_origin, country_code_target, jurisdiction, point_id_target, point_id_origin, point_tax_code_origin, point_tax_code_target, point_tax_code_type_origin, point_tax_code_type_target, provider_id, rate_class, rate_currency_code, rate_dt, rate_period.

Disallow rows in which `is_empty = 1` and `field_name` is one of the following from CDR_DATA: annotation, bill_class, cell_id_origin, country_code_origin, country_code_target, country_dial_code_origin, customer_tag, external_id, external_id_type, ext_tracking_id, jurisdiction, point_origin, point_target, point_tax_code_origin,

point_tax_code_target, point_tax_code_type_origin, point_tax_code_type_target,
provider_id, rate_class, rate_period, timezone, trans_id.

Indexes: primary-key on field_name

Field Name	Data Type	Comments		Values	Null
field_name	varchar	30	One of a group of selected field names from CDR_DATA.		
is_consolidation_key	bit		Indicates whether a field is a consolidation key.		
is_empty	bit		Indicates whether a field will be emptied and consolidated.		

CDR_DATA_WORK

Dynamic. Holds usage detail records flagged for manual correction. Can contain multiple rows per transaction, as records are corrected or marked uncorrectable. Fields marked with an asterisk (*) come directly from the input usage record, are derived, or are not populated, depending on the MPS configuration and the usage record format. Other fields are derived or not populated. Admin table.

Used by the following modules: CAP, MIU, JNL, RAP

Indexes: non-unique on subscr_no, subscr_no_resets, trans_dt
 non-unique on external_id
 non-unique on msg_id, msg_id2, msg_id_serv

Field Name	Data Type	Comments		Values	Null
msg_id	int		Unique internal record ID.		
msg_id2	tinyint		Alternate unique internal record ID.		
msg_id_serv	tinyint		Server ID, to uniquely identify msg_id.		
ext_tracking_id *	varchar (96)	32	Audit trail tracking ID for record.		Null
trans_id *	varchar	20	Optional network transaction ID.		
element_id *	int		Product identifier, defined in PRODUCT_ELEMENTS.		
type_id_usg *	int		Usage type identifier, defined in USAGE_TYPES.		
rate_class *	smallint		Rate class, defined in RATE_CLASS_DESCR.		
bill_class *	smallint		Bill class ID, defined in BILL_CLASS_REF.		Null
provider_id *	int		Service provider, defined in SERVICE_PROVIDERS_REF.		Null
jurisdiction *	int		Territorial range of usage, defined in JURISDICTIONS.		Null
rate_currency_code *	smallint		Currency code for usage charge, defined in RATE_CURRENCY_REF.		

Field Name	Data Type		Comments	Values	Null
account_no *	int		Kenan/BP account number, from CMF.		
account_category	tinyint		Account category identifier, from ACCOUNT_CATEGORY_REF.		Null
subscr_no	int		Service instance mapped to external_id in EXTERNAL_ID_EQUIP_MAP.		
subscr_no_resets	smallint		Reset counter value for subscr_no.		
external_id *	varchar	144	External ID of subscription.		Null
external_id_type *	smallint		Type of external_id, defined in EXTERNAL_ID_TYPE_REF.		Null
point_origin *	varchar (72)	24	Origin point or prefix, defined in USAGE_POINTS. Often identical to, or determined from, subscr_no.		Null
mkt_code	smallint		Market code, from MKT_CODE_REF.		Null
country_code_origin	smallint		Identifier of origin point country, from COUNTRY_CODE_REF.		Null
country_dial_code_origin *	varchar	6	International dialing code for country_code_origin, defined in COUNTRY_DIAL_CODES.		Null
point_id_origin	int		Point ID, from USAGE_POINTS, for point_origin.		Null
point_tax_code_origin *	varchar	15	Taxing authorities for point_origin, defined in TAX_ELEM_DEFAULT_LOC, or Null (non-taxable).		Null
point_tax_code_type_origin *	tinyint		Identifies type of point_tax_code_origin. 3 = Vertex® geocode 4 = Custom tax package geocode		Null
point_target *	varchar (72)	24	Target point or prefix, defined in USAGE_POINTS.		Null
country_code_target	smallint		Identifier of target point country, from COUNTRY_CODE_REF.		Null
country_dial_code_target	varchar	6	International dialing code for country_code_target, defined in COUNTRY_DIAL_CODES.		Null
point_id_target	int		Point ID for point_target, from USAGE_POINTS.		Null

Field Name	Data Type		Comments	Values	Null
point_tax_code_target *	varchar	15	Taxing authorities for point_target, defined in TAX_ELEM_DEFAULT_LOC, or Null (non-taxable).		Null
point_tax_code_type_target *	tinyint		Identifies type of point_tax_code_target: 3 = Vertex geocode 4 = Custom tax package geocode		Null
base_amt *	numeric	18	Usage charge without time of day discounts applied.		
rate_dt *	char	20	Date and time the record was rated.		
trans_dt *	char	20	Date and time the usage event (transaction) took place.		
second_dt *	varchar	20	Optional date and time for reports. Not used for billing.		Null
timezone *	tinyint		Time zone identifier, defined in TIMEZONE_REF.		
primary_units *	int		Number of raw units to be rated.		
second_units *	int		Optional number of units for reports. Not used for billing.		Null
third_units *	int		Optional number of units for reports. Not used for billing.		Null
units_currency_code *	smallint		Currency code, defined in RATE_CURRENCY_REF, for prerated usage.		Null
billing_units_type	smallint		Billing units type, from USAGE_TYPES_UNITS for type_id_usg.		Null
ccard_id	int		Credit card ID from CCARD_LIST, for prerated usage.		Null
ccard_id_serv	tinyint		Server ID, to uniquely identify ccard_id.		Null
miu_ccard_account	varchar(66)	22	Credit card account number, from CCARD_LIST.		Null
miu_ccard_carrier_code	tinyint		CCARD_TYPE_CODE_REF.ccard_type_code for credit card.		Null
miu_ccard_ownr_name	varchar(120)	40	Name of the credit card owner.		Null
miu_ccard_expire	varchar	4	Date the credit card expires.		Null
federal_tax *	numeric	18	Federal tax amount, for prerated usage only.		Null

Field Name	Data Type		Comments	Values	Null
state_tax *	numeric	18	State tax amount, for prerated usage only.		Null
county_tax *	numeric	18	County tax amount for prerated usage only.		Null
city_tax *	numeric	18	City tax amount, for prerated usage only.		Null
other_tax *	numeric	18	Other tax amount, for prerated usage only.		Null
annotation *	varchar	255	Free form comments. Not used for billing.		Null
customer_tag *	varchar (240)	80	Optional customer supplied data. Not used for billing.		Null
rated_units	int		Number of rated units.		
amount *	numeric	18	Amount of the transaction, must be positive.		
foreign_amount	numeric	18	Prerated GSM roaming usage amount based on rating currency and SDR amount in usage record.		
rate_period *	char	1	Rate period identifier, defined in RATE_PERIOD_REF, for the period the usage event occurred in, or "+" (multiple periods).		
no_bill *	bit		Is this record billable? (1 = no)		
comp_status *	tinyint		Completion status, defined in CDR_COMP_STATUS_REF.		
cdr_status *	tinyint		Indicates the current processing status for this record: 0 = unguided, unrated 4 = do not rate 1 = guided, unrated 5 = aggregate rated by BIP 2 = prerated, unguided 8 = processed 3 = guided and rated 9 = processed by prepaid 12, 13, 15 — like 2, 3, and 5, but included in reseller feed file.	(R: 0, 1, 2, 3, 4, 5, 8, 9, 12, 13, 15)	
file_id	int		File ID of usage file, from FILE_STATUS.		
file_id_serv	tinyint		Server ID, to uniquely identify file_id.		Null

Field Name	Data Type		Comments	Values	Null
rev_rcv_cost_ctr	smallint		Revenue receiving cost center ID, from REV_RCV_COST_CENTER_REF.		
arch_flag	bit		Was this record archived? (1 = yes)	(D: 0)	
miu_error_code1	smallint		Error causing guiding/rating failure, from SYSTEM_MESSAGES.		
miu_error_code2	smallint		Error causing guiding/rating failure, from SYSTEM_MESSAGES.		
miu_error_code3	smallint		Error causing guiding/rating failure, from SYSTEM_MESSAGES.		
mps_miu_dt	datetime		Date and time MIU processed the usage.		Null
miu_investigator	varchar	16	Kenan/BP login of the user who last modified the record.		Null
miu_queue	varchar	16	Kenan/BP login of the user assigned to investigate record.		Null
miu_disp_status	tinyint		Has MIU completed this record? 0 = Complete; the record is no longer available for review. 1 = Incomplete; visible in MIU. No more than one incomplete record exists for a given msg_id, msg_id2, msg_id_serv combination.	(R: 0, 1, 2, 3)	Null
miu_disp_code	tinyint		MIU display code: 0 = new record 1 = attempted to correct but failed processing 2 = released for processing, after successful correction (miu_disp_status = 0) 3 = written off (deleted) (miu_disp_status = 0) 4 = put in hold queue 5 = put in work queue	(R: 0, 1, 2, 3, 4, 5)	Null
miu_locked_by	varchar	30	Username or process ID locking this record for processing.		Null
miu_notes	varchar	255	Free form text or comment.		Null
unrounded_amount *	numeric	18	Rated amount or charge for usage event, before rounding.	(D: 0)	

Field Name	Data Type		Comments	Values	Null
corridor_plan_id	int		Corridor plan ID, from CORRIDOR_PLAN_ID_REF.		Null
cell_id_origin	smallint		Originating cell ID, defined in CELL_ID_REF.		Null
cell_name_origin *	varchar	15	Alphanumeric name for the originating cell_id for the mobile telephone call.		Null
split_row_num	tinyint		Distinguishes this row from other rows split from the same usage event. 0 indicates no split usage.	(D: 0)	
orig_type_id_usg	int		Original usage type, for split usage only.		
access_region_origin	varchar (15)	5	Origin access region, from CDR_DATA.		Null
access_region_target	varchar (15)	5	Target access region, from CDR_DATA.		Null
amount_reduction	numeric	18	Amount reduced off call due to corridor plan.		
amount_reduction_id	int		Corridor discount plan ID of plan that reduces call amount, from CDR_DATA. Defined in CORRIDOR_PLAN_ID_REF.	(D: 0)	
open_item_id	int		Open item ID, from OPEN_ITEM_ID_REF.		
raw_rec_id	smallint		Identifier of raw usage record in CDR_RAW_USAGE.		Null
raw_rec_size	smallint		Size of raw usage record in CDR_RAW_USAGE.		Null
roaming_detail	varchar	255	Free form comments. Not used for billing. Passed unchanged to Roaming module.		Null

CDR_DUP_CHECK_FIELDS

Configurable. Defines the fields in a CDR to be used for duplication checks. Admin table.

Used by the following modules: MCAP

Indexes: primary-key on type_id_usg, field_name

Field Name	Data Type	Comments	Values	Null
type_id_usg	int	Type of usage to check for duplication, from USAGE_TYPES. If type_id_usg = 0, the value of field_name is used in duplication checking.		
field_name	char	30	The name of a field in a CDR to be used in duplication checking. For example, "external_id."	
field_order	tinyint		The order in which field_name is included in the duplication checking. You can associate multiple field names with a value of type_id_usg. Changing the order of fields in duplication checking invalidates the check.	

CDR_OUTCOLLECTS

Dynamic. Holds usage detail records for local roaming usage. Fields marked with an asterisk (*) come directly from the input usage record, are derived, or are not populated, depending on the MPS configuration and the usage record format. Other fields are derived or not populated. Admin table.

Used by the following modules: CAP, TIP, TOP, MIU

Indexes: non-unique on operator_id, cdr_status
primary-key on msg_id, msg_id2, msg_id_serv, split_row_num

Field Name	Data Type		Comments	Values	Null
msg_id	int		Unique internal record ID.		
msg_id2	tinyint		Alternate unique internal record ID.		
msg_id_serv	tinyint		Server ID, to uniquely identify msg_id.		
split_row_num	tinyint		Distinguishes this row from other rows split from the same usage event. 0 indicates no split usage.	(D: 0)	
ext_tracking_id *	varchar	32	Audit trail tracking ID for record.		Null
trans_id *	varchar	20	Optional network transaction ID.		
element_id *	int		Product identifier, defined in PRODUCT_ELEMENTS.		
type_id_usg *	int		Usage type ID, defined in USAGE_TYPES.		
orig_type_id_usg	int		Original usage type, for split usage only.		
rate_class *	smallint		Rate class, defined in RATE_CLASS_DESCR.		
bill_class *	smallint		Bill class ID, defined in BILL_CLASS_REF.		Null
provider_id *	int		Service provider, defined in SERVICE_PROVIDERS_REF.		
jurisdiction *	int		Territorial range of usage, defined in JURISDICTIONS.		Null
rate_currency_code *	smallint		Currency code for usage charge, defined in RATE_CURRENCY_REF.		

Field Name	Data Type		Comments	Values	Null
account_no *	int		Kenan/BP account number, from CMF.		
subscr_no	int		Service instance mapped to external_id in EXTERNAL_ID_EQUIP_MAP.		
subscr_no_resets	smallint		Reset counter value for subscr_no.		
external_id *	varchar	144	External ID of subscription.		Null
external_id_type *	smallint		Type of external_id, defined in EXTERNAL_ID_TYPE_REF.		Null
point_origin *	varchar (72)	24	Origin point or prefix, defined in USAGE_POINTS. Often identical to, or determined from, subscr_no.		Null
country_code_origin	smallint		Identifier of origin point country, from COUNTRY_CODE_REF.		Null
country_dial_code_origin *	varchar	6	International dialing code for country_code_origin, defined in COUNTRY_DIAL_CODES.		Null
point_id_origin	int		Point ID, from USAGE_POINTS, for point_origin.		Null
point_tax_code_origin *	varchar	15	Taxing authorities for point_origin, defined in TAX_ELEM_DEFAULT_LOC, or Null (non-taxable).		Null
point_tax_code_type_origin *	tinyint		Identifies type of point_tax_code_origin: 3 = Vertex geocode 4 = Custom tax package geocode		Null
point_target *	varchar (72)	24	Target point or prefix, defined in USAGE_POINTS.		Null
country_code_target	smallint		Identifier of target point country, from COUNTRY_CODE_REF.		Null
point_id_target	int		Point ID, from USAGE_POINTS, for point_target.		Null
point_tax_code_target *	varchar	15	Taxing authorities for point_target, defined in TAX_ELEM_DEFAULT_LOC, or Null (non-taxable).		Null
point_tax_code_type_target *	tinyint		Identifies type of point_tax_code_target: 3 = Vertex geocode 4 = Custom tax package geocode		Null

Field Name	Data Type		Comments	Values	Null
base_amt *	numeric	18	Usage charge without time of day discounts applied.		
rate_dt *	smalldt		Date and time the record was rated.		
trans_dt *	datetime		Date and time the usage event (transaction) took place.		
second_dt *	datetime		Optional date and time for reports. Not used for billing.		Null
timezone *	tinyint		Time zone identifier, defined in TIMEZONE_REF.		
primary_units *	int		Number of raw units to be rated.		
second_units *	int		Optional number of units for reports. Not used for billing.		Null
third_units *	int		Optional number of units for reports. Not used for billing.		Null
units_currency_code *	smallint		Currency code defined in RATE_CURRENCY_REF, for prerated usage.		Null
billing_units_type	smallint		Billing units type, from USAGE_TYPES_UNITS for type_id_usg.		Null
ccard_id	int		Credit card ID from CCARD_LIST, for prerated usage.		Null
ccard_id_serv	tinyint		Server ID, to uniquely identify ccard_id.		Null
federal_tax *	numeric	18	Federal tax amount, for prerated usage only.		Null
state_tax *	numeric	18	State tax amount, for prerated usage only.		Null
county_tax *	numeric	18	County tax amount for prerated usage only.		Null
city_tax *	numeric	18	City tax amount, for prerated usage only.		Null
other_tax *	numeric	18	Other tax amount, for prerated usage only.		Null
annotation *	varchar	255	Must begin with 20 or 30.		Null
customer_tag *	varchar	80 (240)	Optional customer supplied data. Not used for billing.		Null
rated_units	int		Number of rated units.		
amount *	numeric	18	Amount of the transaction, must be positive.		

Field Name	Data Type	Comments	Values	Null
rate_period *	char	1 Rate period identifier, defined in RATE_PERIOD_REF, for the period the usage event occurred in, or "+" (multiple periods).		
no_bill *	bit	Is this record billable? (1 = no).		
comp_status *	tinyint	Completion status, defined in CDR_COMP_STATUS_REF.		
cdr_status *	tinyint	Indicates the current processing status for this record: 0 = unguided, unrated 4 = do not rate 1 = guided, unrated 5 = aggregate rated by BIP 2 = prerated, unguided 8 = processed 3 = guided and rated 9 = processed by prepaid 12, 13, 15 — like 2, 3, and 5, but included in reseller feed file.	(R: 0, 1, 2, 3, 4, 5, 8, 9, 12, 13, 15)	
file_id	int	File ID of usage file, from FILE_STATUS.		
file_id_serv	tinyint	Server ID, to uniquely identify file_id.		
rev_rcv_cost_ctr	smallint	Revenue receiving cost center ID, from REV_RCV_COST_CENTER_REF.		
arch_flag	bit	Was this record archived? (1 = yes)	(D: 0)	
unrounded_amount *	numeric	18 Rated amount or charge for usage event, before rounding.	(D: 0)	
corridor_plan_id	int	Corridor plan ID, from CORRIDOR_PLAN_ID_REF.		Null
cell_id_origin	smallint	Originating cell ID, defined in CELL_ID_REF.		Null
raw_rec_id	smallint	ID of raw usage record in CDR_RAW_USAGE.		Null
raw_rec_size	smallint	Size of raw usage record in CDR_RAW_USAGE.		Null
operator_id	int	Roaming operator ID, from ROAMING_OPERATOR_REF.		
home_sid_bid	varchar	5 Home market (CIBER SID or BID) for the roaming subscriber.		Null

Field Name	Data Type		Comments	Values	Null
serving_sid_bid	varchar	5	Serving market (CIBER SID or BID) for the roaming subscriber.		Null
seq_num	int		Unique file transfer ID.		Null
roaming_detail	varchar	255	Free form comments. Not used for billing. Passed unchanged to Roaming module.		Null

CDR_RAW_USAGE

Dynamic. Reserved for future use. Admin table.

Indexes: non-unique on msg_id, msg_id2, msg_id_serv

Field Name	Data Type		Comments	Values	Null
msg_id	int		Reserved for future use.		
msg_id2	tinyint		Reserved for future use.		
msg_id_serv	tinyint		Reserved for future use.		
row_count	tinyint		Reserved for future use.		
raw_rec	varbinary	255	Reserved for future use.		

CELL_ID_REF

Configurable. Defines valid cell IDs. Admin table. Read-only copy exists on Customer database.

Used by the following modules: CAP, RAP, CUSTINFO

Dependents: CELL_ID_VALUES, CELL_ID_ZONE_ID_MAP

Triggers: Only one row can have is_default = 1.

Indexes: unique on cell_name
primary-key on cell_id

Field Name	Data Type	Comments		Values	Null
cell_id	smallint	Unique cell ID.			
cell_name	varchar	15	Description of the cell_id.		Null
ciber_sid_bid	varchar	5	Market (CIBER SID or BID) where the cell is located.		Null
is_default	bit		Is this value default? (1 = yes) Only one row can be default.	(D: 0)	
is_internal	bit		If 1, Kenan/BP modules require this record; do not delete or modify.	(D: 0)	

CELL_ID_VALUES

Configurable. Describes cell IDs defined in CELL_ID_REF. Admin table. Read-only copy exists on Customer database.

Indexes: primary-key on cell_id, language_code

Foreign Keys: (language_code) must exist in LANGUAGE_CODE_REF(language_code)
 (cell_id) must exist in CELL_ID_REF(cell_id)

Field Name	Data Type	Comments		Values	Null
cell_id	smallint	Cell ID, from CELL_ID_REF.			
language_code	smallint	Language code, from LANGUAGE_CODE_REF.			
short_display	varchar (15)	5	Abbreviated version of the display value.		Null
display_value	varchar (240)	80	Text description to display on screen.		

CELL_ID_ZONE_ID_MAP

Configurable. Correlates cells to zones and zone classes. Admin table. Read-only copy exists on Customer database.

Used by the following modules: CAP, RAP, CUSTINFO

Triggers: Each zone_id belongs to one and only one zone_class.

Indexes: primary-key on cell_id, zone_id

Foreign Keys:

- (cell_id) must exist in CELL_ID_REF(cell_id)
- (zone_class) must exist in ZONE_CLASS_REF(zone_class)
- (zone_id) must exist in ZONE_REF(zone_id)

Field Name	Data Type	Comments	Values	Null
cell_id	smallint	Cell ID, from CELL_ID_REF.		
zone_id	smallint	Zone ID, from ZONE_REF.		
zone_class	tinyint	Zone class identifier, from ZONE_CLASS_REF.	(R: >= 0)	

CIBER_ARBOR_USAGE_TYPE_XREF

Configurable. Stores the mapping direction between a Kenan/BP field and a CIBER record field. Admin table.

Used by the following modules: CAP, MCAP, TOP

Indexes: unique on serving_sid_bid, orig_cell_id, ciber_call_direction
primary-key on type_id_usg

Field Name	Data Type	Comments		Values	Null
serving_sid_bid	varchar	5	Identifier for the serving SID or BID, from CIBER_SID_BID_DEF. Leave blank to match all SIDs or BIDs.		
orig_cell_id	varchar	3	Initial cell site from the incollect CIBER record. Leave blank to match all cell sites for the SID or BID.		
ciber_call_direction	varchar	1	Call direction from the incollect CIBER record. Leave blank to match all call directions.		
ciber_rec_type	varchar	2	CIBER record type.		Null
type_id_usg	int		Usage type ID, from USAGE_TYPES.		
priority	int		Priority used to determine which usage type to use when more than one is valid.		Null
mapping_direction	tinyint		Direction for mapping this cross-reference: 0 = type_id_usg to ciber_record_no (Kenan/BP to CIBER) 1 = ciber_record_no to Kenan/BP type_id_usg (CIBER to Kenan/BP) Use both cross references to map from CIBER to Kenan/BP.		

CIBER_FLD_ERROR_CODES

Configurable. Stores CIBER error codes that identify why a CIBER field fails a CIBER edit. Admin table.

Used by the following modules: CAP, MCAP, TOP

Indexes: primary-key on field_name, reason_code

Field Name	Data Type	Comments	Values	Null
field_name	varchar	64 CIBER field name.		
error_code	int	CIBER error code.		
reason_code	int	Code that identifies the reason the CIBER edit on this field failed.		

CIBER_INCOLLECTS

Dynamic. Not currently used. Contains wireless usage messages destined for the CIBER clearinghouse. Typically these messages have been generated by customers of another wireless carrier. Admin table.

Used by the following modules: MCAP, CAP, TOP

Indexes: primary-key on msg_id, msg_id2, msg_id_serv

Field Name	Data Type	Comments	Values	Null
msg_id	int	Unique internal ID of a message.		
msg_id2	tinyint	Second unique internal ID of a message.		
msg_id_serv	tinyint	Server ID, to uniquely identify msg_id.		
home_carrier_sid_bid	int	System ID (SID) or CiberNet billing ID (BID) for the wireless carrier this message will be routed to, from CIBER_SID_BID.		
point_origin	varchar (72)	Usage point or usage point prefix, from USAGE_POINTS. Usually same as, or determined from, subscr_no.		
point_origin_len	tinyint	Actual length of the number stored in point_origin.		
ext_tracking_id	varchar	32 Audit trail tracking ID for usage message, supplied by client.		
trans_dt	datetime	Date and time event took place, from usage record.		
federal_tax	numeric	18 Federal tax amount for prerated usage only.		
state_tax	numeric	18 State tax amount for prerated usage only.		
county_tax	numeric	18 County tax amount for prerated usage only.		
city_tax	numeric	18 City tax amount for prerated usage only.		
other_tax	numeric	18 Other tax amount for prerated usage only.		

Field Name	Data Type	Comments	Values	Null
call_direction	tinyint	Call direction: 1 = call originated from mobile roamer 2 = call terminated at mobile roamer 3 = mobile roamer call forward 4 = mobile roamer to mobile 6 = call originated from mobile home unit 7 = call terminated at mobile home unit 8 = mobile home call forward 9 = mobile home to mobile		
comp_status	tinyint	Completion status of call: 1 = incomplete 2 = called party answered 3 = call completed but midnight passed before called party answered		
term_status	tinyint	Termination status of call: 1 = abnormal 2 = normal 3 = unknown		
point_target	varchar (72)	Target usage point or prefix, from USAGE_POINTS.		
point_target_len	tinyint	Actual length of the number stored in point_target.		
temp_local_dir_num	varchar (10)	Temporary local directory number assigned to roamer by local carrier.		Null
rate_currency_code	smallint	Currency code of currency in which the transaction is rated, from RATE_CURRENCY_REF.		
initial_cell_site	smallint	Initial cell site of the call.		
timezone	tinyint	Time zone identifier, from TIMEZONE_REF.		

Field Name	Data Type	Comments		Values	Null
daylight_savings	bit	Is it currently daylight savings time in timezone? (0 = yes)			
msg_acct_digits	varchar	10	End-user specific accounting codes.		Null
rated_units	int	Units for amount, from USAGE_TYPES_UNITS.			
rate_period	char	1	Rate period identifier, from RATE_PERIOD_REF, for the period the usage event occurred in, or "+" (multiple rate periods).		
base_amt	numeric	18	Usage charge without time of day discounts applied.		
amount	numeric	18	Amount of the transaction, must be positive.		
misc_surcharge	numeric	18	Miscellaneous surcharge imposed on this call.		
misc_surcharge_desc	char	1	Code that describes the purpose of the surcharge: 0 = no surcharge 1 or A = airtime 4 = other charges imposed by the carrier 5 = voice mail — retrieve 6 = feature activate/deactivate via cellular networking 7 = national/regional roam network call U = call forward V = 3-way call W = call waiting X = speed calling Y = fax Z = voice mail — record		
printed_call	varchar	15	The number called, or, in some cases, a text string that is shown on the bill in place of the number called.		Null

Field Name	Data Type	Comments	Values	Null
fraud_ind	char	2 Indicates whether the usage event might be fraudulent. Values of 01-99 are assigned based on prior agreements between carriers. 00 or " " = no fraud involved 01-33 = indicators assigned by the serving carrier 34-66 = indicators assigned by the home carrier 67-99 = inter-carrier indicators		
fraud_sub_ind	char	1 Indicates that the record was fraudulent.		
special_features	char	5 Indicates what special feature was used: 0 = none A = operator assisted 1 = call forward B = other 2 = 3-way call C = activate/deactivate feature 3 = call waiting D = international call 4 = speed dialing E = national/regional roam network call 5 = switch-to-switch F = no airtime charge 6 = fax G = satellite voice service 7 = data H = satellite data transmission 8 = record voicemail I = satellite fax 9 = retrieve voicemail		
called_place	char	10 Geographic point (usually city) that is the call's destination. Contains the country name if this was an international call.		
called_state_prov	char	2 State or province of the call's destination.		
serving_place	char	10 Geographic point (usually city) where the call originated.		
serving_state_prov	char	2 State or province where the call originated.		
type_id_usg	int	Usage type ID, from USAGE_TYPES.		
rate_class	smallint	Rating component for the service instance.		
bill_class	smallint	Bill class ID, from BILL_CLASS_REF.		
provider_id	int	Service provider identifier, from SERVICE_PROVIDERS_REF.		

Field Name	Data Type	Comments	Values	Null
jurisdiction	int	Territorial range of usage, from JURISDICTIONS.		
country_code_origin	smallint	Identifier of usage origin point, from COUNTRY_CODE_REF.		
country_dial_code_origin	varchar	International dialing code for origin country, from COUNTRY_DIAL_CODES.		Null
country_code_target	smallint	Identifier of usage target point, from COUNTRY_CODE_REF.		
primary_units	int	Units to be billed, from USAGE_TYPES_UNITS and input usage record.		
second_units	int	Additional units for ad hoc reports. Not used for billing.		
third_units	int	Additional units for ad hoc reports. Not used for billing.		
point_id_origin	int	Origin point ID, from USAGE_POINTS.		
point_id_target	int	Target point ID, from USAGE_POINTS.		
rate_dt	datetime	Date and time the record was rated.		
file_id_in	int	File ID, from FILE_STATUS, of input usage file.		
file_id_serv_in	tinyint	Server ID, to uniquely identify file_id_in.		
file_id_out	int	File ID, from FILE_STATUS, of output usage file.		Null
file_id_serv_out	tinyint	Server ID, to uniquely identify file_id_out.		Null
arch_flag	bit	Was this record archived? (1 = yes)		
process_status	bit	Was this message processed? (1 = yes)		
chg_dt	datetime	Date and time that this record was last modified.		Null
chg_who	varchar	The username or process ID (for example; cap01) of the user/process that last modified this record.		Null

CIBER_INCOLLECTS_ERROR

Dynamic. This table is not used. Contains wireless usage messages flagged for manual correction. Can hold multiple rows per transaction, as records are corrected or marked uncorrectable. Admin table.

Used by the following modules: MCAP, CAP, MIU

Indexes: This table has no indexes.

Field Name	Data Type		Comments	Values	Null
msg_id	int		Unique internal ID of a message.		
msg_id2	tinyint		Second unique internal ID of a message.		
msg_id_serv	tinyint		Server ID, to uniquely identify msg_id.		
home_carrier_sid_bid	int		System ID (SID) or CiberNet billing ID (BID) for the wireless carrier that this message will be routed to, from CIBER_SID_BID.		
point_origin	varchar (72)	24	Usage point or usage point prefix, from USAGE_POINTS. Usually same as, or determined from, subscr_no.		
point_origin_len	tinyint		Actual length of the number stored in point_origin.		
ext_tracking_id	varchar	32	Audit trail tracking ID for usage message, supplied by client.		
trans_dt	datetime		Date and time the usage event (transaction) took place. From the input usage record.		
federal_tax	numeric	18	Federal tax amount for prerated usage only.		
state_tax	numeric	18	State tax amount for prerated usage only.		
county_tax	numeric	18	County tax amount for prerated usage only.		
city_tax	numeric	18	City tax amount for prerated usage only.		
other_tax	numeric	18	Other tax amount for prerated usage only.		

Field Name	Data Type	Comments	Values	Null
call_direction	tinyint	Call direction: 1 = call originated from mobile roamer 2 = call terminated at mobile roamer 3 = mobile roamer call forward 4 = mobile roamer to mobile 6 = call originated from mobile home unit 7 = call terminated at mobile home unit 8 = mobile home call forward 9 = mobile home to mobile		
comp_status	tinyint	Completion status of call: 1 = incomplete 2 = called party answered 3 = call completed but midnight passed before called party answered		
term_status	tinyint	Termination status of call: 1 = abnormal 2 = normal 3 = unknown		
point_target	varchar (72)	Target usage point or prefix, from USAGE_POINTS.		
point_target_len	tinyint	Actual length of the number stored in point_target.		
temp_local_dir_num	varchar (10)	Temporary local directory number assigned to a roamer by the local carrier.		Null
rate_currency_code	smallint	Currency code of currency in which to rate the transaction, from RATE_CURRENCY_REF.		
initial_cell_site	smallint	Initial cell site of the call.		
timezone	tinyint	Time zone identifier, from TIMEZONE_REF.		

Field Name	Data Type	Comments		Values	Null
daylight_savings	bit		Is it currently daylight savings time in timezone? (0 = yes)		
msg_acct_digits	varchar	10	End-user specific accounting codes.		Null
rated_units	int		Units for amount, from USAGE_TYPES_UNITS.		
rate_period	char	1	Rate period identifier, from RATE_PERIOD_REF, for the period the usage event occurred in, or "+" (multiple rate periods).		
base_amt	numeric	18	Rated amount or charge of the usage event without time of day discounts applied.		
amount	numeric	18	Amount of the transaction, must be positive.		
misc_surcharge	numeric	18	Miscellaneous surcharge imposed on this call.		
misc_surcharge_desc	char	1	Code that describes the purpose of the surcharge. Values for this field are the same as those in CIBER_INCOLLECTS.		
printed_call	varchar	15	The number called, or, in some cases, a text string that is shown on the bill in place of the number called.		Null
fraud_ind	char	2	Indicates whether the usage event might be fraudulent. Values of 01-99 are assigned based on prior agreements between carriers. 00 or " " = no fraud involved 01-33 = indicators assigned by the serving carrier 34-66 = indicators assigned by the home carrier 67-99 = inter-carrier indicators		
fraud_sub_ind	char	1	Indicates what action should be taken for fraudulent messages: 0 or " " = no fraud involved 1 = reporting purposes only 2 = other action		
special_features	char	5	Special features used. Values for this field are the same as those in CIBER_INCOLLECTS.		

Field Name	Data Type	Comments	Values	Null
called_place	char	Geographic point (usually city) that is the call's destination. Contains the country name if this was an international call.		
called_state_prov	char	State or province of the call's destination.		
serving_place	char	Geographic point (usually city) where the call originated.		
serving_state_prov	char	State or province where the call originated.		
type_id_usg	int	Usage type ID, from USAGE_TYPES.		
rate_class	smallint	Account-level rating component for the service instance, from SERVICE.rate_class_default.		
bill_class	smallint	Bill class, priority, or grade of service identifier, from BILL_CLASS_REF.		
provider_id	int	Service provider identifier, from SERVICE_PROVIDERS_REF.		
jurisdiction	int	Territorial range of usage, from JURISDICTIONS.		
country_code_origin	smallint	Identifier of usage origin point, from COUNTRY_CODE_REF.		
country_dial_code_origin	varchar	International dialing code for origin country, from COUNTRY_DIAL_CODES.		Null
country_code_target	smallint	Identifier of usage target point, from COUNTRY_CODE_REF.		
primary_units	int	Units to be billed, from USAGE_TYPES_UNITS and input usage record.		
second_units	int	Additional units for ad hoc reports. Not used for billing.		
third_units	int	Additional units for ad hoc reports. Not used for billing.		
point_id_origin	int	Origin point identifier, from USAGE_POINTS.		
point_id_target	int	Target point identifier, from USAGE_POINTS.		
rate_dt	datetime	Date and time the record was rated.		
file_id_in	int	File ID of input usage file, from FILE_STATUS.		

Field Name	Data Type	Comments	Values	Null
file_id_serv_in	tinyint	Server ID, uniquely identifies file_id_in.		
file_id_out	int	File ID of output usage file, from FILE_STATUS.		Null
file_id_serv_out	tinyint	Server ID, uniquely identifies file_id_out.		Null
arch_flag	bit	Was this record archived? (1 = yes)		
process_status	bit	Was this message processed? (1 = yes)		
chg_dt	datetime	Date and time that this record was last modified.		Null
chg_who	varchar	30 The username or process ID (for example; cap01) of the user/process that last modified this record.		Null
error_code1	smallint	Error causing failure, from SYSTEM_MESSAGES.		
error_code2	smallint	Error causing failure, from SYSTEM_MESSAGES.		
error_code3	smallint	Error causing failure, from SYSTEM_MESSAGES.		
disp_status	tinyint	Indicates the record's disposition status: 0 = the correction is completed. 1 = correction is incomplete, ready for disposition.		
disp_code	tinyint	Display code: 0 = new record 1 = attempted to correct but failed processing 2 = released for processing, after successful correction 3 = written off (deleted) 4 = put on hold 5 = placed in work queue		
notes	varchar	255 Free form text or comments.		Null
investigator	varchar	16 Kenan/BP login of the user who last modified the record.		Null

CIBER_LINE_RANGES

Configurable. MPS uses this table to check the “home” versus “roam” status of usage records. Primarily for cellular mobile telephony. Admin table. Read-only copy exists on Customer database.

Used by the following modules: CAP, MCAP, TOP

Indexes: primary-key on npa, nxx, line_range_low, active_dt
non-unique on npa, nxx, line_range_low, sid_bid

Field Name	Data Type	Comments	Values	Null
sid_bid	varchar	5	SID or BID number, from CIBER_SID_BID_DEF.	
npa	smallint	NPA number (area code) for this line range, for North America deployments, or the analogous value in deployments outside North America.		
nxx	smallint	NXN number (office code) for this line range, for North America deployments, or the analogous value in deployments outside North America.		
line_range_low	smallint	Lowest number in this number range.		
line_range_high	smallint	Highest number in this line range.		
market_name	varchar	80	Geographical location for this number range.	Null
state	varchar	2	Two-character abbreviation for the state or province for this number range.	Null
carrier_code	smallint		CIBER carrier code as listed in Chapter 12-3A of the CIBER manual. Optional.	Null

Field Name	Data Type	Comments	Values	Null
arp	smallint	Designated authorized receipt point for this range, from CIBER tables. Optional.		Null
active_dt	smalldt	Date that this number range was assigned to the SID or BID.		
inactive_dt	smalldt	Date on which this number range is no longer assigned to the SID or BID.		Null

CIBER_OPERATOR_SID_BID

Configurable. Maps CIBER roaming operators to SID or BID numbers. Admin table. Read-only copy exists on Customer database.

Used by the following modules: CAP, MCAP, TOP

Indexes: primary-key on sid_bid

Field Name	Data Type		Comments	Values	Null
operator_id	int		operator_id for the roaming operator for this SID or BID, from ROAMING_OPERATOR_REF.		
sid_bid	varchar	5	SID or BID number to map to this roaming operator.		
version_in	tinyint		CIBER file version number for incoming files from this roaming operator.		Null
version_out	tinyint		CIBER file version number for outgoing files to this roaming operator.		Null
max_days_in	smallint		Number of days after call date by which call data must be received by this roaming operator. Two months (~60 days) is typical.		Null
max_days_out	smallint		Number of days after call date by which call data must be sent to this roaming operator. Two months (~60 days) is typical.		Null
seq_num_in	int		Unique file transfer ID for incoming files from this roaming operator.		Null
seq_num_out	int		Unique file transfer ID for outgoing files to this roaming operator.		Null
last_file_in	smalldt		Time stamp when the last file was received.		Null
last_file_out	smalldt		Time stamp when the last file was sent out.		Null
ext_contact_id_in	int		ext_contact_id for the roaming operator sending incollect records.		Null

Field Name	Data Type	Comments	Values	Null
ext_contact_id_out	int	ext_contact_id for the roaming operator receiving outcollect records.		Null
active_dt	smalldt	Date the relationship between the roaming operator and SID or BID becomes active.		
inactive_dt	smalldt	Date the relationship between the roaming operator and SID or BID is no longer active.		Null

CIBER_ROAMING AGREEMENT

Configurable. Stores contact information and roaming agreement details for mobile carriers and roaming clearinghouses that use the CIBER record standard. Admin table. Read-only copy exists on Customer database.

Used by the following modules: CAP, MCAP, TOP

Indexes: primary-key on operator_id
non-unique on active_dt

Foreign Keys: (operator_id) must exist in ROAMING_OPERATOR_REF(operator_id)

Field Name	Data Type	Comments	Values	Null
operator_id	int	Roaming operator ID, from ROAMING_OPERATOR_REF.		
rate_key_id	smallint	Roaming rate key ID, from ROAMING_RATE_KEYS.		
ciber_operator_type	tinyint	Type of CIBER operator. Valid values are: 1 = Home operator 2 = Other CIBER operator 3 = Clearinghouse		
operator_address_1	varchar	75 Operator's address line 1.		Null
operator_address_2	varchar	75 Operator's address line 2.		Null
operator_address_3	varchar	75 Operator's address line 3.		Null
operator_city	varchar	35 Operator's city.		Null
operator_state	varchar	28 Operator's state.		Null
operator_county	varchar	28 Operator's county.		Null
operator_zip	varchar	16 Operator's Zip or Postal Code.		Null
operator_contact_name	varchar	60 Operator's contact name.		Null
operator_contact_phone	varchar	20 Operator's contact phone.		Null
operator_contact_faxno	varchar	20 Operator's fax telephone number.		Null

Field Name	Data Type	Comments	Values	Null
operator_description	varchar	80	Descriptive name for this operator.	Null
rate	numeric	18	Recurring charge rate for this operator. Uses RATE_CURRENCY_REF.implied_decimals for the relevant value of currency_code.	Null
rc_charge_type	tinyint		Recurring charge type for this operator.	Null
country_code	smallint		Operator country code, from COUNTRY_CODE_REF.	Null
currency_code	smallint		Operator currency code, from RATE_CURRENCY_REF. Required if ciber_operator_type is 1 (Home operator).	Null
ext_contact_id_in	smallint		External data source ID for clearinghouse (ciber_operator_type is 3), from EXT_CONTACTS, used for incollect records.	Null
ext_contact_id_out	smallint		External data source ID for clearinghouse (ciber_operator_type is 3), from EXT_CONTACTS, used for outcollect records.	Null
active_dt	smalldt		Date that this roaming agreement becomes active.	
inactive_dt	smalldt		Date that this roaming agreement becomes inactive.	Null

CIBER_SID_BID_DEF

Configurable. For mobile telephony, specifically cellular. Stores all SID and BID numbers for CIBER data exchange.
Admin table. Read-only copy exists on Customer database.

Used by the following modules: CAP, MCAP, TOP

Indexes: primary-key on sid_bid

Field Name	Data Type		Comments	Values	Null
sid_bid	varchar	5	SID or BID number.		
band	varchar	2	Band in which this SID or BID operates. Valid values are: A, B, C, D, E, F.		
carrier	varchar	80	Name of the carrier from the CIBER table 12-4.		

CIBER_SID_BID_MARKET

Configurable. Stores one or more market names for each SID or BID in CIBER_SID_BID_DEF. Admin table.

Used by the following modules: CAP, MCAP, TOP

Indexes: non-unique on sid_bid

Field Name	Data Type		Comments	Values	Null
sid_bid	varchar	5	SID or BID number, as defined in CIBER_SID_BID_DEF.		
market_city	varchar	35	City name for the SID's or BID's market.		
market_state_abbr	varchar	2	State name for the SID's or BID's market.		
market_country_code	smallint		country_code from COUNTRY_CODE_REF.		

CLASS_OF_SERVICE_CODE_REF

Configurable. Defines valid service instance classes of service (for example grades of data lines). Admin table. Read-only copy exists on Customer database.

Used by the following modules: CUSTINFO, BIP, BIF, JNL

Dependents: BILL_FORMAT_TEMPLATE, CLASS_OF_SERVICE_CODE_VALUES, COMPONENT_EMF_ELIGIBILITY, RATE_PERIODS, SERVICE_BILLING

Triggers: Only one row can have is_default = 1.

Indexes: primary-key on class_of_service_code

Field Name	Data Type	Comments		Values	Null
class_of_service_code	smallint	Unique internal identifier of a specific class of service.			
class_of_service_value	int	Reserved for future use.			
service_group	varchar	6	Reserved for future use.		Null
foreign_code	varchar (30)	10	Reserved for future use.		
is_default	bit	Is this value default? (1 = yes) Only one row can be default.		(D: 0)	
is_internal	bit	If 1, Kenan/BP modules require this record; do not delete or modify.		(D: 0)	

CLASS_OF_SERVICE_CODE_VALUES

Configurable. Describes classes of service defined in CLASS_OF_SERVICE_CODE_REF. Admin table. Read-only copy exists on Customer database.

Indexes: primary-key on class_of_service_code, language_code

Foreign Keys: (class_of_service_code) must exist in
 CLASS_OF_SERVICE_CODE_REF(class_of_service_code)
 (language_code) must exist in LANGUAGE_CODE_REF(language_code)

Field Name	Data Type	Comments		Values	Null
class_of_service_code	smallint	Class of service identifier, from CLASS_OF_SERVICE_CODE_REF.			
language_code	smallint	Language code, from LANGUAGE_CODE_REF.			
short_display	varchar (15)	5	Abbreviated version of the display value.		Null
display_value	varchar (240)	80	Text description to display on screen.		

CLEARING_HOUSE_CONTACTS

Configurable. Defines the external contacts associated with each clearinghouse. Used by CPM and EFT to determine where outgoing files for clearinghouses should go and to determine which incoming files are intended for them. Admin table. Read-only copy exists on Customer database.

Used by the following modules: CPM, EFT

Triggers: credit_trans_type must exist in BMF_TRANS_DESCR.bmf_trans_type, where trans_sign is 1, or be 0.
debit_trans_type must exist in BMF_TRANS_DESCR.bmf_trans_type, where trans_sign is -1, or be 0.

Indexes: unique on clearing_house_id, module, is_send
primary-key on ext_contact_id

Foreign Keys: (ext_contact_id) must exist in EXT_CONTACTS(ext_contact_id)
(clearing_house_id) must exist in CLEARING_HOUSE_ID_REF(clearing_house_id)

Field Name	Data Type	Comments	Values	Null
clearing_house_id	char	3	Clearinghouse ID, from CLEARING_HOUSE_ID_REF.	
module	char	4	Module name, from SYSTEM_MODULES (such as CPM).	
ext_contact_id	smallint		External contact ID, from EXT_CONTACTS.	
is_send	tinyint		Is this a send contact point (1) or a receive contact point (0)?	
ch_format_type	tinyint		Clearinghouse file format type. Values are: 1 = CheckFree (CKF) 2 = Kenan Systems (KNN) 3 = First USA (FUS) 4 = Standard French clearinghouse (FRN) 5 = First Data Merchant Services/NaBANCO (FDM) 6 = Toronto Dominion Bank (DOM) 7 = First USA 96-Byte (F96) 8 = CheckFree (NACHA)	(R: 1, 2, 3, 4, 5, 6, 7, 8)

Field Name	Data Type	Comments	Values	Null
credit_trans_type	int	BMF_TRANS_DESCR.bmf_trans_type for credit payments, or 0 if not used.		
debit_trans_type	int	BMF_TRANS_DESCR.bmf_trans_type for debit payments, or 0 if not used.		
allow_auto_post	bit	Should automatic posting be allowed to this clearinghouse? (1 = yes, 0 = no)		
auto_post_delay	tinyint	Days to wait before automatic posting, if allow_auto_post = 1.		
chgb_resubmit_delay	tinyint	Days to wait before resubmitting a chargeback.		
collection_delay	smallint	Depends on the value of the PAYMENT_DATE_DELAY (CPM or EFT) system parameter. The number of days to wait after generating charges before contacting this clearinghouse, or the number of days to wait after the payment due date before contacting this clearinghouse. If a negative value, the number of days before the payment due date that the clearinghouse should be contacted.		
suppress_prenotes	bit	Suppress EFT prenotes for this clearinghouse? (1 = yes, 0 = no)	(D: 0)	

CLEARING_HOUSE_DIVISION

Configurable. Defines division number codes, to support transactions in multiple currencies, and to enable service provider identification. Admin table. Read-only copy exists on Customer database.

Used by the following modules: CPM

Indexes: primary-key on clearing_house_id, currency_code, rev_rcv_cost_ctr

Foreign Keys: (clearing_house_id) must exist in CLEARING_HOUSE_ID_REF(clearing_house_id)
 (currency_code) must exist in RATE_CURRENCY_REF(currency_code)
 (rev_rcv_cost_ctr) must exist in REV_RCV_COST_CENTER_REF(rev_rcv_cost_ctr)

Field Name	Data Type		Comments	Values	Null
clearing_house_id	char	3	Clearinghouse ID ("CKF", "FUS", and so on) from CLEARING_HOUSE_ID_REF.		
currency_code	smallint		Internal currency ID, from RATE_CURRENCY_REF.		
rev_rcv_cost_ctr	smallint		Revenue receiving cost center ID, from REV_RCV_COST_CENTER_REF.		
division_number	char (36)	12	Unique division number.		

CLEARING_HOUSE_ID_REF

Configurable. Describes the clearinghouses supported for credit card and EFT transactions. Admin table. Read-only copy exists on Customer database.

Used by the following modules: CUSTINFO

Dependents: CCARD_AVN_RESPONSE_CODES, CLEARING_HOUSE_CONTACTS, CLEARING_HOUSE_DIVISION,
CLEARING_HOUSE_ID_VALUES, CMF, EFT_RESPONSE_CODE_REF

Triggers: Only one row can have `is_default = 1`.

Indexes: primary-key on `clearing_house_id`

Field Name	Data Type		Comments	Values	Null
clearing_house_id	char		Clearinghouse ID ("CKF", "FUS", and so on).		
is_default	bit		Is this value default? (1 = yes) Only one row can be default.	(D: 0)	
is_internal	bit		If 1, Kenan/BP modules require this record; do not delete or modify.	(D: 0)	

CLEARING_HOUSE_ID_VALUES

Configurable. Describes clearinghouses defined in CLEARING_HOUSE_ID_REF. Admin table. Read-only copy exists on Customer database.

Indexes: primary-key on clearing_house_id, language_code

Foreign Keys: (clearing_house_id) must exist in CLEARING_HOUSE_ID_REF(clearing_house_id)
 (language_code) must exist in LANGUAGE_CODE_REF(language_code)

Field Name	Data Type		Comments	Values	Null
clearing_house_id	char	3	Clearinghouse ID, from CLEARING_HOUSE_ID_REF.		
language_code	smallint		Language code, from LANGUAGE_CODE_REF.		
short_display	varchar (15)	5	Abbreviated version of the display value.		Null
display_value	varchar (240)	80	Text description to display on screen.		

CLEARING_HOUSE_INFO

Configurable. Stores clearinghouse-specific information for clearinghouse IDs defined in CLEARING_HOUSE_ID_REF Admin table. Read-only copy exists on Customer database.

Used by the following modules: CPM, EFT

Triggers: clearing_house_id exists in CLEARING_HOUSE_CONTACTS for the module.

Indexes: primary-key on clearing_house_id, module

Field Name	Data Type	Comments	Values	Null
clearing_house_id	char	3	Clearinghouse ID, from CLEARING_HOUSE_ID_REF.	
module	char	4	Payment module using this clearinghouse.	
ckf_client_id	varchar	10	CheckFree client ID.	Null
ckf_var_descriptor	char (120)	40	CheckFree variable descriptor, which appears on the customer's credit card bill.	Null
knn_merchant_acct	varchar	12	Internal merchant account number.	Null
knn_merchant_id	varchar	4	Internal merchant ID.	Null
fus_pres_id	varchar	6	Presenter ID.	Null
fus_pres_pass	varchar	8	Presenter password.	Null
fus_sub_id	varchar	6	Submitter ID.	Null
fus_sub_pass	varchar	8	Submitter password.	Null
fus_avs_type	tinyint		First USA address verification code.	Null
frn_unique_dates	bit		Send only transactions with the same ppdd_date? (0 = no, 1 = yes)	
frn_fast_mode	bit		Use fast mode? (0 = no, 1 = yes)	
frn_norm_op_id	varchar	2	Normal mode operation ID (Normal Direct Debit).	Null

Field Name	Data Type	Comments	Values	Null
frn_norm_post_delay	tinyint	Normal mode posting date delay (for example, 7 days).		Null
frn_fast_op_id	varchar	Fast mode operation ID (Accelerated Direct Debit).		Null
frn_fast_post_delay	tinyint	Fast mode posting date delay (for example, 3 days).		Null
frn_national_num	varchar	6 Sender national number.		Null
frn_company_name	varchar	24 Company name of sender.		Null
frn_agency_code	varchar	5 Bank agency code to be credited.		Null
frn_account_num	varchar	11 Bank account to be credited.		Null
frn_bank_code	varchar	5 Bank code to be credited.		Null
fdm_merchant_name	varchar	16 FDMS/NaBANCO merchant name.		Null
fdm_merchant_number	varchar	11 FDMS/NaBANCO merchant ID.		Null
fdm_avs_type	tinyint	FDMS/NaBANCO address verification code.		Null
dom_rcon_number	varchar	15 Reserved for future use.		Null
dom_mailbox_id	varchar	8 Reserved for future use.		Null
dom_fund_orig	varchar	10 Reserved for future use.		Null
dom_fund_dest	varchar	5 Reserved for future use.		Null
dom_visa_orig	varchar	10 Reserved for future use.		Null
dom_visa_dest	varchar	5 Reserved for future use.		Null
dom_msc_orig	varchar	10 Reserved for future use.		Null
dom_msc_dest	varchar	5 Reserved for future use.		Null
dom_amex_process_id	varchar	3 Reserved for future use.		Null
dom_amex_receiver_id	varchar	3 Reserved for future use.		Null
dom_amex_format_code	varchar	2 Reserved for future use.		Null

Field Name	Data Type	Comments	Values	Null
dom_phone_dest	varchar	5	Reserved for future use.	Null
dom_currency_ind	varchar	3	Reserved for future use.	Null
dom_fund_inst_id	varchar	9	Reserved for future use.	Null
dom_fund_acct_num	varchar	12	Reserved for future use.	Null
dom_batch_limit	int		Reserved for future use.	Null
dom_visa_merchant	varchar	8	Reserved for future use.	Null
dom_msc_merchant	varchar	8	Reserved for future use.	Null
dom_amex_merchant	varchar	10	Reserved for future use.	Null

CMF_STATUS_CHG_REASON_REF

Configurable. Describes the valid reasons that can be given for changes in account status within CMF_STATUS_HISTORY. Admin table. Read-only copy exists on Customer database.

Used by the following modules: CUSTINFO

Dependents: CMF_STATUS_CHG_REASON_VALUES, CMF_STATUS_HISTORY

Triggers: Only one row can have is_default = 1.

Indexes: primary-key on cmf_status_chg_reason

Field Name	Data Type	Comments	Values	Null
cmf_status_chg_reason	smallint	Unique reason identifier for the status change. 97 = Disconnect requested.		
is_default	bit	Is this value default? (1 = yes) Only one row can be default.	(D: 0)	
is_internal	bit	If 1, Kenan/BP modules require this record; do not delete or modify.	(D: 0)	

CMF_STATUS_CHG_REASON_VALUES

Configurable. Describes account status change reasons defined in CMF_STATUS_CHG_REASON_REF. Admin table. Read-only copy exists on Customer database.

Indexes: primary-key on cmf_status_chg_reason, language_code

Foreign Keys: (language_code) must exist in LANGUAGE_CODE_REF(language_code)
 (cmf_status_chg_reason) must exist in
 CMF_STATUS_CHG_REASON_REF(cmf_status_chg_reason)

Field Name	Data Type	Comments		Values	Null
cmf_status_chg_reason	smallint	Reason for account status change, from CMF_STATUS_CHG_REASON_REF.			
language_code	smallint	Language code, from LANGUAGE_CODE_REF.		(D: 1)	
short_display	varchar (30)	10	Abbreviated version of the display value.		
display_value	varchar (240)	80	Text description to display on screen.		

CMF_STATUS_REF

Static. Describes the account status (suspend, active, new, and so on) that can be included in CMF_STATUS_HISTORY. Admin table. Read-only copy exists on Customer database.

Used by the following modules: CUSTINFO

Dependents: CMF_STATUS_HISTORY, CMF_STATUS_VALUES

Triggers: Only one row can have is_default = 1.

Indexes: primary-key on cmf_status

Field Name	Data Type	Comments	Values	Null
cmf_status	smallint	Account status: 20 = active (the default) 21 = suspended 22 = terminated 23 = disconnect requested 24 = closed Individual deployments may support additional values.		
is_default	bit	Is this value default? (1 = yes) Only one row can be default.	(D: 0)	
is_internal	bit	If 1, Kenan/BP modules require this record; do not delete or modify.	(D: 0)	

CMF_STATUS_VALUES

Configurable. Describes account status defined in CMF_STATUS_REF. Admin table. Read-only copy exists on Customer database.

Indexes: primary-key on cmf_status, language_code

Foreign Keys: (language_code) must exist in LANGUAGE_CODE_REF(language_code)
 (cmf_status) must exist in CMF_STATUS_REF(cmf_status)

Field Name	Data Type	Comments		Values	Null
cmf_status	smallint	Account status, from CMF_STATUS_REF.			
language_code	smallint	Language code, from LANGUAGE_CODE_REF.		(D: 1)	
short_display	varchar (30)	10	Abbreviated version of the display value.		
display_value	varchar (240)	80	Text description to display on screen.		

COMPONENT_CMF_ELIGIBILITY

Configurable. Associates each account-level product package component with rating keys that determine whether it can be provisioned to a particular account. Admin table. Read-only copy exists on Customer database.

Used by the following modules: CUSTINFO

Triggers: component_level = 1 in COMPONENT_DEFINITION_REF.

Indexes: unique on component_id, mkt_code, rate_class, account_category

Foreign Keys: (account_category) must exist in ACCOUNT_CATEGORY_REF(account_category)
 (mkt_code) must exist in MKT_CODE_REF(mkt_code)
 (rate_class) must exist in RATE_CLASS_DESCR(rate_class)
 (component_id) must exist in COMPONENT_DEFINITION_REF(component_id)

Field Name	Data Type	Comments	Values	Null
component_id	int	Component ID, from COMPONENT_DEFINITION_REF.		
mkt_code	smallint	Value to be matched against CMF.mkt_code, or Null.		Null
rate_class	smallint	Value to be matched against CMF.rate_class_default, or Null.		Null
account_category	tinyint	Value to be matched against CMF.account_category, or Null.		Null

COMPONENT_DEFINITION_REF

Configurable. Describes each product package component. Admin table. Read-only copy exists on Customer database.

Used by the following modules: CUSTINFO

Dependents: CMF_COMPONENT_ELEMENT, CMF_PACKAGE_COMPONENT, COMPONENT_CMF_ELIGIBILITY,
 COMPONENT_DEFINITION_VALUES, COMPONENT_EMF_ELIGIBILITY, COMPONENT_NRCS,
 PACKAGE_COMPONENTS, PRODUCT, PRODUCT_VIEW, UNIT_CR_RATE_LIMIT

Triggers: Only one row can have `is_default = 1`.

Indexes: primary-key on `component_id`

Check Constraints: `active_dt <= inactive_dt`

Field Name	Data Type	Comments	Values	Null
component_id	int	Unique ID for component.		
component_level	tinyint	Identifies type of package component: 1 = Account-level component. Requires entry in COMPONENT_CMF_ELIGIBILITY for this component_id. 2 = Service-instance-level component. Requires entry in COMPONENT_EMF_ELIGIBILITY for this component_id.	(R: 1, 2)	
active_dt	smalldt	Date component becomes available for provisioning.		
inactive_dt	smalldt	Date component becomes unavailable for provisioning.		Null
is_default	bit	Is this value default? (1 = yes) Only one row can be default.	(D: 0)	
is_internal	bit	If 1, Kenan/BP modules require this record; do not delete or modify.	(D: 0)	

COMPONENT_DEFINITION_VALUES

Configurable. Describes product package components defined in COMPONENT_DEFINITION_REF. Admin table. Read-only copy exists on Customer database.

Indexes: primary-key on component_id, language_code

Foreign Keys: (language_code) must exist in LANGUAGE_CODE_REF(language_code)
 (component_id) must exist in COMPONENT_DEFINITION_REF(component_id)

Field Name	Data Type	Comments		Values	Null
component_id	int	Component ID, from COMPONENT_DEFINITION_REF.			
language_code	smallint	Language code, from LANGUAGE_CODE_REF.			
short_display	varchar (15)	5	Abbreviated version of the display value.		Null
display_value	varchar (240)	80	Text description to display on screen.		

COMPONENT_EMF_ELIGIBILITY

Configurable. Associates each service-instance-level product package component with rating keys that determine whether the component can be provisioned to a particular service instance. Admin table. Read-only copy exists on Customer database.

Used by the following modules: CUSTINFO

Triggers: component_level = 2 in COMPONENT_DEFINITION_REF.

Indexes: unique on component_id, equip_type_code, equip_class_code, class_of_service_code, rate_class

Foreign Keys: (class_of_service_code) must exist in
 CLASS_OF_SERVICE_CODE_REF(class_of_service_code)
 (component_id) must exist in COMPONENT_DEFINITION_REF(component_id)
 (equip_type_code) must exist in EQUIP_TYPE_CODE_REF(equip_type_code)
 (equip_class_code) must exist in EQUIP_CLASS_CODE_REF(equip_class_code)
 (rate_class) must exist in RATE_CLASS_DESCR(rate_class)

Field Name	Data Type	Comments	Values	Null
component_id	int	Component ID, from COMPONENT_DEFINITION_REF.		
equip_type_code	smallint	Equipment type (from EQUIP_TYPE_CODE_REF) for which this component is valid, or Null (all).		Null
equip_class_code	smallint	Service instance class (from EQUIP_CLASS_CODE_REF) for which this component is valid, or Null (all).		Null
class_of_service_code	smallint	Class of service (from CLASS_OF_SERVICE_CODE_REF) for which this component is valid, or Null (all).		Null
rate_class	smallint	Rate class (from RATE_CLASS_DESCR) for which this component is valid, or Null (all).		Null

COMPONENT_NRCS

Reserved for future use. Admin table. Read-only copy exists on Customer database.

Indexes: primary-key on component_id,action_code,type_id_nrc,active_dt

Foreign Keys: (type_id_nrc) must exist in NRC_TRANS_DESCR(type_id_nrc)
 (component_id) must exist in COMPONENT_DEFINITION_REF(component_id)

Field Name	Data Type	Comments	Values	Null
component_id	int	Reserved for future use.		
action_code	smallint	Reserved for future use.	(R: 0, 1, 2)	
type_id_nrc	int	Reserved for future use.		
active_dt	smalldt	Reserved for future use.		
inactive_dt	smalldt	Reserved for future use.		Null

CONNECT_REASON_CODES_REF

Configurable. Describes each connect code reason. Used by Kenan/OM. Admin table. Read-only copy exists on Customer database.

Used by the following modules: CUSTINFO

Dependents: CMF_COMPONENT_ELEMENT, CMF_PACKAGE, CMF_PACKAGE_COMPONENT,
CONNECT_REASON_CODES_VALUES, PRODUCT, PRODUCT_VIEW

Triggers: Only one row can have `is_default` is 1.

Indexes: primary-key on `connect_reason`

Field Name	Data Type	Comments	Values	Null
connect_reason	smallint	Used by Kenan/OM. The reason for the service connection.		
is_default	bit	Used by Kenan/OM. Is this value default? (1 = yes) Only one row can be default.	(D: 0)	
is_internal	bit	Used by Kenan/OM. If 1, Kenan/BP modules require this record; do not delete or modify.	(D: 0)	

CONNECT_REASON_CODES_VALUES

Configurable. Describes each connect code reason defined in CONNECT_REASON_CODES_VALUES. Used by Kenan/OM Admin table. Read-only copy exists on Customer database.

Used by the following modules: CUSTINFO

Indexes: primary-key on connect_reason, language_code

Foreign Keys: (language_code) must exist in LANGUAGE_CODE_REF(language_code)
 (connect_reason) must exist in CONNECT_REASON_CODES_REF(connect_reason)

Field Name	Data Type	Comments	Values	Null
connect_reason	smallint	Used by Kenan/OM. The reason for the service connection.		
language_code	smallint	Used by Kenan/OM. Language code, from LANGUAGE_CODE_REF.		
short_display	varchar (15)	Used by Kenan/OM. Abbreviated version of the display value.		Null
display_value	varchar (240)	Used by Kenan/OM. Text description to display on screen.		

CONTRACT_TYPES

Configurable. Identifies all valid contract types. Admin table. Read-only copy exists on Customer database.

Used by the following modules: CUSTINFO, BIF

Dependents: CUSTOMER_CONTRACT, CUSTOMER_CONTRACT_VIEW

Triggers: If bonus_point_id is not Null, allow_serv_inst and allow_si_group must both be 0.

The product must be provisionable by contract: PRODUCT_ELEMENTS.contract_use_code must not be 2 for the appropriate element_id.

If contract_category is 7, element_id and commitment_reference cannot both be Null.
allow_acct_group and allow_si_group must both be Null.

If contract_category is not 6 or 11, bonus_point_id must be Null.

If contract_category is 13, rollover_order and rollover_grouping cannot be Null.

If contract_type is 9, the associated DISCOUNT_DEFINITIONS.discount_level must not be 2, plan_id_discount must not be Null, and DISCOUNT_DEFINITIONS.discount_quantum must not be 2, 3, or 4, and DISCOUNT_DEFINITIONS.discount_level must be 2. allow_serv_inst, allow_acct_group, and allow_si_group must be Null and allow_account must be 1.

If contract_type is 11, allow_account, allow_serv_inst, allow_acct_group, allow_si_group, element_id, plan_id_credit, activation_type_id_nrc, termination_type_id_nrc, start_by, and commitment_type_id_nrc must be Null, and duration_units must not be -2 or -3.

If contract_type is 12 or 14, DISCOUNT_DEFINITIONS.discount_type must be 6, apply_during_suspend must be 1, and bill_period cannot be Null.

If bill_period is not Null, bill_period must be in BILL_PERIOD_REF where contract_use_code = 0 or 1.

If contract_type is 14 or 10, allow_serv_inst and allow_si_group must not equal 1.

If either element_id or commitment_reference exist and either allow_acct_group or allow_si_group is not 0, contract_category must be 15 or 16.

If contract_category is 8, 13, 15, or 16, allow_acct_group must be 0.

If contract_category is 15 or 16, element_id and plan_id_credit must exist, and PRODUCT_ELEMENTS.bill_in_arrears must not be 0.

If commitment_reference is Null, commitment_type_id_nrc must be Null.

commitment_type_id_nrc and the product it represents must use the same currency code for rating. Thus,

their rate_currency_location must be identical in NRC_TRANS_DESCR and PRODUCT_ELEMENTS. If they are both 9, the currency_code from the corresponding NRC_TRANS_DESCR and PRODUCT_ELEMENTS rows must be the same.

commitment_type_id_nrc must exist in NRC_TRANS_DESCR.type_id_nrc or be Null.

If element_id, commitment_reference, activation_type_id_nrc, termination_type_id_nrc, or commitment_type_id_nrc exist, both allow_acct_group and allow_si_group must be Null.
start_by can only be Null if start_by_units is -1.

contract_type, contract_category, element_id, commitment_reference, duration, duration_units, plan_id_discount, plan_id_credit, activation_type_id_nrc, termination_type_id_nrc, and is_promotion cannot be updated.
description_code must be in DESCRIPTIONS.

min_duration can be Null only if min_duration_units is -1.

min_notice_delay can only be Null when min_notice_units = -1.

min_duration, min_duration_units, min_notice_delay, and min_notice_units must have their default values unless contract_category is 12 or 14.

If duration_units is -2 or -3, termination_type_id_nrc must be Null.

If system parameter CUSTOM_DISCOUNT_RATE is 1 and contract_category is 12 or 14, is_custom must be 1. If CUSTOM_DISCOUNT_RATE is not 1, or contract_category is not 12 or 14, is_custom must be 0.

On insert, if when_applied is 1 or 2: commitment_reference, plan_id_discount, start_by, commitment_type_id_nrc, discount_base_period, bonus_point_id, bill_period, min_duration, min_notice_delay, activation_type_id_nrc, termination_type_id_nrc must be Null. prorate_interim_bill, prorate_account_start, prorate_account_end, allow_account, allow_acct_group, allow_si_group and is_custom must be 0.

start_by_units, min_duration_units and min_notice_units must be -1. allow_serv_inst and apply_during_suspend must be 1. plan_id_credit must not be Null. contract_category must be 6, 8, or 13.

Rate time unit credit contracts cannot have money UC credits order before unit UC credits.

Indexes: This table has no indexes.

Foreign Keys: (commitment_reference) must exist in PRODUCT_ELEMENTS(element_id)
(bonus_point_id) must exist in BONUS_POINT_ID_REF(bonus_point_id)
(plan_id_credit) must exist in PLAN_ID_CREDIT_REF(plan_id_credit)
(element_id) must exist in PRODUCT_ELEMENTS(element_id)

(bill_period) must exist in BILL_PERIOD_REF(bill_period)
 (plan_id_discount) must exist in PLAN_ID_DISCOUNT_REF(plan_id_discount)
 (activation_type_id_nrc) must exist in NRC_TRANS_DESCR(type_id_nrc)
 (termination_type_id_nrc) must exist in NRC_TRANS_DESCR(type_id_nrc)
 (commitment_type_id_nrc) must exist in NRC_TRANS_DESCR(type_id_nrc)

Check Constraints: fixed_start_date <= fixed_end_date
 active_date <= inactive_date
 active_date <= fixed_start_date

Field Name	Data Type	Comments	Values	Null
contract_type	int	Unique internal identifier of a specific type of contract.		
contract_category	smallint	Indicates the category of the contract type: 6 = standard promotion 7 = commitment 8 = free usage contract 9 = HQ discount contract 10 = hierarchy branch discount 11 = global contract (all accounts) 12 = historic discount contract 13 = rollover contract 14 = historic payback contract 15 = pay-as-you-go unit credit contract 16 = pay-as-you-go rollover UC contract	(R: 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16)	
element_id	int	Used to associate a recurring charge with a contract. Product identifier, from PRODUCT_ELEMENTS, or Null if no recurring charge is to be associated with this contract.		Null
commitment_reference	int	If contract_category = 7, contains product whose recurring charge is used as the commitment fee. Otherwise Null.		Null

Field Name	Data Type	Comments	Values	Null
duration_units	smallint	Defines the units of the contract duration: 140 = days 150 = weeks 160 = months 170 = quarters 180 = years -1 = unspecified duration (no time limit) -2 = terminate on first charge reduction (obsolete) -3 = bill cycles in which contract was used	(R: 140, 150, 160, 170, 180, - 1, -2, -3)	
duration	smallint	Duration of the contract in the specified duration_units, or -1 for contracts with infinite duration or unspecified units.		
plan_id_discount	int	Discount plan ID, from PLAN_ID_DISCOUNT_REF.		Null
plan_id_credit	int	Unit credit plan ID, from PLAN_ID_CREDIT_REF.		Null
activation_type_id_nrc	int	NRC type of activation charge, from NRC_TRANS_DESCR.type_id_nrc.		Null
termination_type_id_nrc	int	NRC type of early termination charge, from NRC_TRANS_DESCR.type_id_nrc.		Null
is_promotion	bit	Reserved for future use.	(R: = 1)	
description_code	int	Description from DESCRIPTIONS table.		
foreign_code	varchar (30)	An external system's identifier of a contract type.		Null
start_by_units	smallint	Units in which start_by is measured: 140 = days 150 = weeks 160 = months 170 = quarters 180 = years -1 = none	(D: -1) (R: 140, 150, 160, 170, 180, -1)	
start_by	smallint	Interval after which the contract will expire if not started, measured in start_by_units, figured from date of provisioning.		Null
active_date	smalldt	Date this contract type becomes available for provisioning.		Null
inactive_date	smalldt	Date this contract type is no longer available for provisioning.		Null
fixed_start_date	smalldt	Date on which instances of this contract begin.		Null

Field Name	Data Type	Comments	Values	Null
fixed_end_date	smalldt	Date on which instances of this contract terminate.		Null
partial_period	bit	Reserved for future use.	(D: 0)	
commitment_type_id_nrc	int	Commitment amount/type, from NRC_TRANS_DESCR.type_id_nrc.		Null
discount_base_period	smallint	Period to use for discounts: 1 = use bill_period 2 = use 365/12 (average month length)	(D: 1) (R: 1, 2)	Null
rollover_order	tinyint	The order in which rollover credits are applied. 1 = use rolled over credits from oldest date forward 2 = use rolled over credits from newest date backward	(R: 1, 2)	Null
rollover_grouping	tinyint	Configures how rolled over credit interacts with earned credits. Apply rolled over credit: 1 = before any periodic earned credits 2 = after any periodic earned credits 3 = just before applying periodic earned credit for the same unit_cr_id value within the contract 4 = just after applying periodic earned credit for the same unit_cr_id value within the contract 5 = before the current portion of this unit_cr_id	(R: 1, 2, 3, 4, 5)	Null
bonus_point_id	smallint	Bonus point identifier, from BONUS_POINT_ID_REF.		Null
prorate_contract_start	bit	Is this contract prorated by contract start date? (1 = yes)	(D: 0)	
prorate_contract_end	bit	Is this contract prorated by contract end date? (1 = yes)	(D: 0)	
prorate_interim_bill	bit	Is this contract prorated if an interim bill is issued? (1 = yes) This also triggers proration on the next bill issued AFTER this prorated bill.	(D: 0)	
prorate_period_change	bit	Is this contract prorated if the billing period changes? (1 = yes) This also triggers proration on suppressed bills.	(D: 0)	

Field Name	Data Type	Comments	Values	Null
prorate_account_start	bit	Is this contract prorated by account start date? (1 = yes)	(D: 0)	
prorate_account_end	bit	Is this contract prorated by account end date? (1 = yes)	(D: 0)	
prorate_target_threshold	bit	Are charges prorated to determine the quantum for discounts under this contract? (1 = yes) This also triggers threshold proration on multi-tiered unit credits.	(D: 0)	
prorate_target_rebates	bit	Are rebates issued under this contract prorated? (1 = yes)	(D: 0)	
allow_account	tinyint	Indicates if the contract can be provisioned to an account.	(D: 1)	
allow_serv_inst	tinyint	Indicates if the contract can be provisioned to a service instance.	(D: 1)	
allow_acct_group	tinyint	Indicates if the contract can be provisioned to an account group.	(D: 0)	
allow_si_group	tinyint	Indicates if the contract can be provisioned to a service instance group.	(D: 0)	
bill_period	varchar	Bill cycle identifier, defined in BILL_PERIOD_REF. Ignored if the contract is not a historic contract.		Null
min_duration_units	smallint	Units in which min_duration is measured: 140 = days 150 = weeks 160 = months 170 = quarters 180 = years -1 = none	(D: -1) (R: IN (-1, 140, 150, 160, 170, 180))	
min_duration	smallint	Minimum duration contract must be to get some historic discounts.		Null
min_notice_units	smallint	Units in which min_notice_delay is measured: 140 = days 150 = weeks 160 = months 170 = quarters 180 = years -1 = none	(D: -1) (R: IN (-1, 140, 150, 160, 170, 180))	
min_notice_delay	smallint	Minimum amount of notice that must be given to qualify for some historic discounts		Null

Field Name	Data Type	Comments	Values	Null
is_custom	tinyint	Indicates that the contract should be processed by the historic contract custom algorithm. Must be 0 unless system parameter CUSTOM_DISCOUNT_RATE is set.	(R: 0, 1)	Null
when_applied	tinyint	Determines when the contract is applied. 0 = bill time 1 = rate time postpaid 2 = rate time prepaid	(D: 0) (R: 0, 1, 2)	
apply_during_suspend	tinyint	Should contract apply to charges that are generated during the suspended period. 0 = do not apply 1 = apply	(R: 0, 1)	

CORRIDOR_PLAN_GROUPS

Configurable. Associates corridor plans with displayable corridor characteristics. See also CUSTOMER_CORRIDORS Admin table. Read-only copy exists on Customer database.

Triggers: point_origin and point_target must exist in USAGE_POINTS.point or be Null.

Indexes: unique on point_origin, origin_is_xact, country_code_origin, point_target, target_is_xact, country_code_target, point_category, access_region_target, access_region_origin, corridor_plan_id
non-unique on corridor_plan_id

Foreign Keys: (country_code_origin) must exist in COUNTRY_CODE_REF(country_code)
(country_code_target) must exist in COUNTRY_CODE_REF(country_code)
(corridor_plan_id) must exist in CORRIDOR_PLAN_ID_REF(corridor_plan_id)
(point_category) must exist in POINT_CATEGORY_REF(point_category)

Field Name	Data Type	Comments			Values	Null
corridor_plan_id	int		Corridor plan ID, from CORRIDOR_PLAN_ID_REF.			
point_origin	varchar(72)	24	Usage point or usage point prefix of origin, from USAGE_POINTS.			Null
point_category	smallint		Point category, from POINT_CATEGORY_REF.	(D: 0)		
origin_is_xact	tinyint		0 indicates that point_origin is a prefix 1 indicates that point_origin is exact	(R: 0, 1)		Null
country_code_origin	smallint		Origin country, from COUNTRY_CODE_REF.			Null
point_target	varchar(72)	24	Usage point or usage point prefix of target, from USAGE_POINTS.			Null
target_is_xact	tinyint		0 indicates that point_target is a prefix 1 indicates that point_target is exact	(R: 0, 1)		Null

Field Name	Data Type		Comments	Values	Null
country_code_target	smallint		Target country, from COUNTRY_CODE_REF.		Null
access_region_origin	varchar (15)	5	Origin access region, from ACCESS_REGION_REF.		Null
access_region_target	varchar (15)	5	Target access region, from ACCESS_REGION_REF.		Null

CORRIDOR_PLAN_ID_REF

Configurable and dynamic. Defines valid corridor rate plans. Run the `replicate.ksh` script after modifying this table if the database is in an Oracle multiserver environment. See the *System Administrator Guide* for more information about `replicate.ksh`. Admin table. Read-only copy exists on Customer database.

Used by the following modules: CUSTINFO

Dependents: CORRIDOR_PLAN_GROUPS, CORRIDOR_PLAN_ID_VALUES, CUSTOMER_CORRIDORS,
RATE_USAGE_OVERRIDES

Triggers: Only one row can have `is_default = 1`.

`discount_id` must be Null if `plan_type` is not equal to 4.

`discount_id` cannot be Null if `plan_type = 4`.

`discount_id` cannot be in DISCOUNT_PLANS.

`corridor_plan_id` cannot be updated.

Indexes: primary-key on `corridor_plan_id`

Field Name	Data Type	Comments	Values	Null
corridor_plan_id	int	Unique internal ID of the corridor plan.	(R: > 0)	
is_icb_corridor	bit	Is this corridor plan an Individual Case Basis plan? (1 = yes)		
plan_type	tinyint	Plan type: 1 = normal corridor rating plan (default) 2 = special corridor discounting plan 3 = special double rating corridor plan 4 = double-rated, booked as discount	(R: 1, 2, 3, 4, 5)	
plan_level	tinyint	Plan level: 1 = account-level 2 = service-instance-level	(R: 1, 2)	Null

Field Name	Data Type	Comments	Values	Null
origin_restriction	tinyint	Origin restriction: 1 = no restriction 2 = restricted to external_ids from EXTERNAL_ID_EQUIP_MAP 3 = restricted to usage points 4 = restricted to countries 5 = restricted to access regions	(R: 1, 2, 3, 4, 5)	
target_restriction	tinyint	Target restriction: 1 = no restriction 2 = restricted to external_ids from EXTERNAL_ID_EQUIP_MAP 3 = restricted to usage points 4 = restricted to countries 5 = restricted to access regions	(R: 1, 2, 3, 4, 5)	
discount_id	int	Unique internal ID of discount, from DISCOUNT_DEFINITIONS. Only populated if plan_type = 4.		Null
max_corridors	smallint	The maximum number of corridors of a specific type allowed in this corridor.	(R: > 0)	Null
is_default	bit	Is this value default? (1 = yes) Only one row can be default.	(D: 0)	
is_internal	bit	If 1, Kenan/BP modules require this record; do not delete or modify.	(D: 0)	

CORRIDOR_PLAN_ID_VALUES

Configurable. Describes corridor plans defined in CORRIDOR_PLAN_ID_REF. Admin table. Read-only copy exists on Customer database.

Indexes: primary-key on corridor_plan_id, language_code

Foreign Keys: (corridor_plan_id) must exist in CORRIDOR_PLAN_ID_REF(corridor_plan_id)
 (language_code) must exist in LANGUAGE_CODE_REF(language_code)

Field Name	Data Type	Comments		Values	Null
corridor_plan_id	int	Corridor plan ID, from CORRIDOR_PLAN_ID_REF.			
language_code	smallint	Language code, from LANGUAGE_CODE_REF.			
short_display	varchar (15)	Abbreviated version of the display value.			Null
display_value	varchar (240)	Text description to display on screen.			

COUNTRY_CODE_REF

Configurable. Associates country code numbers with country names. Admin table. Read-only copy exists on Customer database.

Used by the following modules: CUSTINFO, BIF, CAP, RAP, MIU

Dependents: ADDRESS, BILL_ADDRESS, CMF, CORRIDOR_PLAN_GROUPS, COUNTRY_CODE_VALUES, COUNTRY_DIAL_CODES, COUNTRY_JURISDICTION, CSR_INFORMATION, CUSTOMER_CORRIDORS, GSM_ROAMING AGREEMENT, LATE_FEE_ASSIGNMENT, PROVIDER_ADDRESS, REFUND, SERVICE, SERVICE_BILLING, SERVICE_CENTERS, SERVICE_VIEW, STATE_REF, TAX_ASSIGNMENTS

Triggers: Only one row can have is_default = 1.

Indexes: primary-key on country_code

Foreign Keys: (default_currency_code) must exist in RATE_CURRENCY_REF(currency_code)

Field Name	Data Type	Comments	Values	Null
country_code	smallint	Unique country identifier (840 = U.S.).	(D: 840) (R: between 0 and 999)	
tax_identifier	int	Identifies special tax features for country. This value is a special internal country ID (US=1, Mexico=2, Canada=3, Luxembourg=254, additional identifiers may be supported by your deployment) plus one or more of the following additional values: If covered by Vertex Quantum, add 256. If covered by Vertex CommTax, add 512. If covered by Custom tax, add 1024. If country is in the EU, add 2048.		Null
default_currency_code	smallint	Currency code, from RATE_CURRENCY_REF.		
is_default	bit	Is this value default? (1 = yes) Only one row can be default.	(D: 0)	
is_internal	bit	If 1, Kenan/BP modules require this record; do not delete or modify.	(D: 0)	

COUNTRY_CODE_VALUES

Configurable. Describes country codes defined in COUNTRY_CODE_REF. Admin table. Read-only copy exists on Customer database.

Indexes: primary-key on country_code, language_code

Foreign Keys: (language_code) must exist in LANGUAGE_CODE_REF(language_code)
 (country_code) must exist in COUNTRY_CODE_REF(country_code)

Field Name	Data Type	Comments			Values	Null
country_code	smallint		Country code, from COUNTRY_CODE_REF.	(D: 840)		
language_code	smallint		Language code, from LANGUAGE_CODE_REF.			
short_display	varchar (15)	5	Abbreviated version of the display value.		Null	
display_value	varchar (240)	80	Text description to display on screen.			

COUNTRY_DIAL_CODES

Configurable. Defines international dialing codes for countries. Enables the message-processing system to determine if a call is international, and enables different countries to use different mechanisms for international access. Admin table. Read-only copy exists on Customer database.

Used by the following modules: CAP, RAP, MIU

Indexes: non-unique on country_code, country_dial_code
primary-key on country_dial_code, country_code

Foreign Keys: (country_code) must exist in COUNTRY_CODE_REF(country_code)

Field Name	Data Type	Comments		Values	Null
country_code	smallint	Country code, from COUNTRY_CODE_REF.			
country_dial_code	char	6	Dialing code for country (for example; "44" for U.K.).		
intl_dial_code	varchar	6	This field indicates whether the intl_dial_access field is a prefix used to make an international call. If the intl_dial_code = 1 and the CDR begins with the value of intl_dial_access, then the call is international.		Null
intl_dial_access	char	6	Prefix that must be dialed within country to access international service (for example, "011" for U.S.).		

COUNTRY_JURISDICTION

Configurable. Used to assign jurisdiction to a usage event based on the source and target countries. Admin table. Read-only copy exists on Customer database.

Used by the following modules: CAP, RAP, MIU

Indexes: primary-key on country_code_origin, country_code_target

Foreign Keys: (country_code_target) must exist in COUNTRY_CODE_REF(country_code)
 (country_code_origin) must exist in COUNTRY_CODE_REF(country_code)
 (jurisdiction) must exist in JURISDICTIONS(jurisdiction)

Field Name	Data Type	Comments	Values	Null
country_code_origin	smallint	Country code, from COUNTRY_CODE_REF, for origin country.		
country_code_target	smallint	Country code, from COUNTRY_CODE_REF, for target country.		
jurisdiction	int	Territorial range of usage, from JURISDICTIONS.		

CSR_ACCT_SEG

Configurable. Specifies which account segments (defined in ACCT_SEG_REF) are viewable by the specified CSR. Run the replicate.ksh script after modifying this table if the database is in an Oracle multiserver environment. See the *System Administrator Guide* for more information about replicate.ksh. Admin table. Read-only copy exists on Catalog database. Read-only copy exists on Customer database.

Used by the following modules: CUSTINFO, API

Triggers: acct_seg_id exists in ACCT_SEG_REF, and cannot be zero.

For a given csr_name, only one row can have is_csr_default = 1.

Indexes: primary-key on csr_name, acct_seg_id

Field Name	Data Type	Comments		Values	Null
csr_name	varchar (90)	30	CSR username.		
acct_seg_id	int		ID of customer account segment. From ACCT_SEG_REF.		
is_csr_default	bit		Use this record as the default for a given CSR? (1 = yes)	(D: 0)	

CSR_INFORMATION

Configurable. Stores extended contact information for CSRs. Admin table. Read-only copy exists on Customer database.

Used by the following modules: CUSTINFO

Triggers: user_name and supervisor_name must exist in SYBASE table, sysusers or Oracle table, ALL_USERS.
Active date ranges cannot overlap for a single user_name .

Indexes: primary-key on user_name, date_active

Foreign Keys: (csr_country_code) must exist in COUNTRY_CODE_REF(country_code)

Field Name	Data Type		Comments	Values	Null
user_name	char	30	CSR username.		
supervisor_name	char (90)	30	CSR supervisor's username.		Null
csr_lname	varchar (168)	56	CSR last name.		
csr_fname	varchar (168)	56	CSR first name.		
csr_minit	varchar (90)	30	CSR middle initial.		Null
csr_title	varchar (120)	40	CSR job title.		Null
csr_phone	char	20	CSR telephone number.		
csr_email	varchar	60	CSR electronic mail address.		Null
csr_address1	varchar (225)	75	CSR postal address, line 1.		
csr_address2	varchar (225)	75	CSR postal address, line 2.		Null

Field Name	Data Type		Comments	Values	Null
csr_address3	varchar (225)	75	CSR postal address, line 3.		Null
csr_city	varchar (105)	35	CSR city or municipality.		
csr_state	varchar (84)	28	CSR state or province.		Null
csr_zip	varchar	16	CSR Zip or postal code.		Null
csr_country_code	smallint		CSR country code.		
csr_county	varchar (84)	28	CSR county.		Null
date_active	smalldt		Date this record becomes active.		
date_inactive	smalldt		Date this record becomes inactive.		Null

CSR_SUPERVISORS

Reserved for future use. Admin table. Read-only copy exists on Customer database.

Triggers: Supervisor must be able to access all account segments (in CSR_ACCT_SEG) accessible by associated users.

Indexes: primary-key on supervisor_name, user_name

Field Name	Data Type	Comments		Values	Null
supervisor_name	varchar (90)	Supervisor name.			
user_name	varchar	User name.			

CURRENCY_TYPE_REF

Configurable. Describes valid types of currencies used in RATE_CURRENCY_REF (for example, hard or soft currencies). Admin table. Read-only copy exists on Customer database.

Dependents: CURRENCY_TYPE_VALUES, RATE_CURRENCY_REF

Triggers: Only one row can have is_default = 1.

Indexes: primary-key on currency_type

Field Name	Data Type		Comments	Values	Null
currency_type	char	1	Type of currency. (H = Hard currency)		
is_default	bit		Is this value default? (1 = yes) Only one row can be default.	(D: 0)	
is_internal	bit		If 1, Kenan/BP modules require this record; do not delete or modify.	(D: 0)	

CURRENCY_TYPE_VALUES

Configurable. Describes currency types defined in CURRENCY_TYPE_REF. Admin table. Read-only copy exists on Customer database.

Indexes: primary-key on currency_type, language_code

Foreign Keys: (language_code) must exist in LANGUAGE_CODE_REF(language_code)
 (currency_type) must exist in CURRENCY_TYPE_REF(currency_type)

Field Name	Data Type		Comments	Values	Null
currency_type	char	1	Currency type, from CURRENCY_TYPE_REF.		
language_code	smallint		Language code, from LANGUAGE_CODE_REF.		
short_display	varchar (15)	5	Abbreviated version of the display screen.		Null
display_value	varchar (240)	80	Text description to display on screen.		

DB_MESSAGES

Static. Holds messages included in database interactions (for example, trigger warning messages). Admin table. Read-only copy exists on Customer database.

Used by the following modules: ACE, CUSTINFO

Indexes: primary-key on msgno, language_code

Foreign Keys: (language_code) must exist in LANGUAGE_CODE_REF(language_code)

Field Name	Data Type	Comments	Values	Null
msgno	int	Message number; must be greater than 20,000.		
language_code	smallint	Language code, from LANGUAGE_CODE_REF.		
msg	varchar	255 Text of the message to display.		

DENIAL_REASON_REF

Configurable. Defines valid denial reasons used by supervisors. Admin table. Read-only copy exists on Customer database.

Used by the following modules: CUSTINFO

Dependents: DENIAL_REASON_VALUES

Triggers: Only one row can have `is_default = 1`.

Indexes: primary-key on denial_reason

Field Name	Data Type	Comments	Values	Null
denial_reason	smallint	Reason for the supervisor denial.		
is_default	bit	Is this value default? (1 = yes) Only one row can be default.	(D: 0)	
is_internal	bit	If 1, Kenan/BP modules require this record; do not delete or modify.	(D: 0)	

DENIAL_REASON_VALUES

Configurable. Describes denial reasons defined in DENIAL_REASON_REF. Admin table. Read-only copy exists on Customer database.

Indexes: primary-key on denial_reason, language_code

Foreign Keys: (language_code) must exist in LANGUAGE_CODE_REF(language_code)
 (denial_reason) must exist in DENIAL_REASON_REF(denial_reason)

Field Name	Data Type	Comments			Values	Null
denial_reason	smallint		Denial reason, from DENIAL_REASON_REF.			
language_code	smallint		Language code, from LANGUAGE_CODE_REF.			
short_display	varchar (15)	5	Abbreviated version of the display value.			Null
display_value	varchar (240)	80	Text description to display on screen.			

DEPOSIT_TYPE_REF

Configurable. Defines valid deposit types. Admin table. Read-only copy exists on Customer database.

Used by the following modules: CUSTINFO, JNL

Dependents: DEPOSIT, DEPOSIT_TYPE_VALUES

Triggers: Only one row can have `is_default = 1`.

Indexes: primary-key on `deposit_type`

Field Name	Data Type	Comments	Values	Null
deposit_type	smallint	Type of the deposit: 1 = general deposit		
is_default	bit	Is this value default? (1 = yes) Only one row can be default.	(D: 0)	
is_internal	bit	If 1, Kenan/BP modules require this record; do not delete or modify.	(D: 0)	

DEPOSIT_TYPE_VALUES

Configurable. Describes deposit types defined in DEPOSIT_TYPE_REF. Admin table. Read-only copy exists on Customer database.

Indexes: primary-key on deposit_type, language_code

Foreign Keys: (deposit_type) must exist in DEPOSIT_TYPE_REF(deposit_type)
 (language_code) must exist in LANGUAGE_CODE_REF(language_code)

Field Name	Data Type	Comments			Values	Null
deposit_type	smallint		Deposit type, from DEPOSIT_TYPE_REF.			
language_code	smallint		Language code, from LANGUAGE_CODE_REF.			
short_display	varchar (15)	5	Abbreviated version of the display value.			Null
display_value	varchar (240)	80	Text description to display on screen.			

DESCRIPTIONS

Configurable. Describes products, services, charge types, and so on. Admin table. Read-only copy exists on Customer database.

Used by the following modules: CUSTINFO, BIF

Indexes: primary-key on description_code, language_code

Foreign Keys: (language_code) must exist in LANGUAGE_CODE_REF(language_code)

Field Name	Data Type		Comments	Values	Null
description_code	int		Internal identifier of a description.		
language_code	smallint		Language code, from LANGUAGE_CODE_REF.		
description_group	smallint		Used to group like descriptions (not currently supported).		
description_text	varchar (240)	80	Description text for display.		
short_description_text	char (15)	5	Brief description text for the same entity.		Null

DEVICES

Configurable, dynamic. Describes each UNIX device (in other words, actual device name) used by Kenan/BP and controls access to those devices to avoid deadlocks. (See also `IO_DEVICES`.) Run the `replicate.ksh` script after modifying this table if the database is in an Oracle multiserver environment. See the *System Administrator Guide* for more information about `replicate.ksh`. Admin table. Read-only copy exists on Customer database.

Used by the following modules: BID

Indexes: non-unique on `usage_type`
 primary-key on `server_id, device_id`
 non-unique on `task_id`

Field Name	Data Type	Comments		Values	Null
<code>server_id</code>	<code>tinyint</code>		Server ID, to uniquely identify <code>device_id</code> .		
<code>device_id</code>	<code>char</code>	32	Internal device ID for printers and the UNIX device name for other devices.		
<code>ndevice_id</code>	<code>varchar</code>	32	Non-rewinding device name for some devices.		Null
<code>device_name</code>	<code>char</code>	32	UNIX device name for printers, and a description for other devices.		
<code>device_type</code>	<code>smallint</code>		Type of device is 1 for tape and ignored for other devices.		
<code>usage_type</code>	<code>char</code>	1	Usage type code is P for printers and ignored for other devices.		
<code>device_class</code>	<code>varchar</code>	16	A device class description for non-printer devices.		Null
<code>oper_assist</code>	<code>bit</code>		Is operator assistance required? (1 = yes)		
<code>task_id</code>	<code>varchar</code>	8	Task that has locked this device.		Null
<code>start_time</code>	<code>datetime</code>		Date/time <code>task_id</code> took control of device.		
<code>end_time</code>	<code>datetime</code>		Date/time device was last used by a Kenan/BP task.		Null

DISCONNECT_REASON_REF

Configurable. Defines valid reason codes for disconnecting accounts, service instances, and products. Admin table.
Read-only copy exists on Customer database.

Used by the following modules: CUSTINFO, CPM

Dependents: DISCONNECT_REASON_VALUES, PRODUCT, PRODUCT_VIEW

Triggers: Only one row can have `is_default = 1`.

Indexes: primary-key on `disconnect_reason`

Field Name	Data Type	Comments	Values	Null
disconnect_reason	smallint	Unique internal identifier of a disconnect reason: -88 = account termination (used by CUSTINFO) -99 = product disconnected by CPM		
is_default	bit	Is this value default? (1 = yes) Only one row can be default.	(D: 0)	
is_internal	bit	If 1, Kenan/BP modules require this record; do not delete or modify.	(D: 0)	

DISCONNECT_REASON_VALUES

Configurable. Describes disconnect reasons defined in DISCONNECT_REASON_REF. Admin table. Read-only copy exists on Customer database.

Indexes: primary-key on disconnect_reason, language_code

Foreign Keys: (disconnect_reason) must exist in DISCONNECT_REASON_REF(disconnect_reason)
 (language_code) must exist in LANGUAGE_CODE_REF(language_code)

Field Name	Data Type		Comments	Values	Null
disconnect_reason	smallint		Disconnect reason identifier, from DISCONNECT_REASON_REF.		
language_code	smallint		Language code, from LANGUAGE_CODE_REF.		
short_display	varchar (15)	5	Abbreviated version of the display value.		Null
display_value	varchar (240)	80	Text description to display on screen.		

DISCOUNT_DEFINITIONS

Configurable. For each discount, defines which products or services it affects and how it reduces their cost. Admin table. Read-only copy exists on Customer database.

Used by the following modules: BIP, BIF, JNL

Dependents: DISCOUNT_PLANS, DISCOUNT_RESTRICTIONS, DISCOUNT_TARGETS, HISTORIC_THRESHOLDS, RATE_DISCOUNT

Triggers: element_id, format_code, domain_id, provider_id, corridor_plan_id, and description_code exist in the appropriate tables (see below) or are Null.

Rows with discount_type = 5 (in other words, 4-digit usage rounding) apply only to rows where discount_domain = 3 (usage charges).

domain_id exists in PRODUCT_ELEMENTS.element_id if discount_domain = 1.

domain_id exists in NRC_TRANS_DESCR.type_id_nrc if discount_domain = 2.

domain_id exists in USAGE_TYPES.type_id_usg if discount_domain = 3.

An incremental discount cannot be applied on units or items with more than one charge domain, that is, when a row is inserted or updated having discount_type of 2, discount_quantum of 2 or 3, and discount_domain is not 1, 2, or 3.

If discount_quantum is not Null and discount_domain = 3, discount_quantum exists in USAGE_TYPES.type_id_usg.

discount_quantum = 1 if discount_type = 5 or 8.

When element_id is specified, product_line_id is automatically filled in. The only exception is, if element_id is set to Null, product_line_id is not automatically updated to Null.

date_created cannot be updated

Indexes: primary-key on discount_id

Foreign Keys: (rate_period) must exist in RATE_PERIOD_REF(rate_period)
(product_line_id) must exist in PRODUCT_LINES(product_line_id)
(jurisdiction) must exist in JURISDICTIONS(jurisdiction)
(element_id) must exist in PRODUCT_ELEMENTS(element_id)

Check Constraints: date_active <= date_inactive

Field Name	Data Type	Comments	Values	Null
discount_id	int	Unique internal ID of a discount.	(R: > 0)	
discount_level	smallint	Specifies the level at which the discount is valid: 1 = service instance 2 = account	(R: 1, 2)	
discount_domain	smallint	Indicates the category of charges the discount is applied against: 1 = recurring charges 3 = usage charges 2 = non-recurring charges 4 = all categories of charges	(R: 1, 2, 3, 4)	Null
discount_quantum	smallint	Item to be aggregated and compared to discount thresholds: 1 = charge amounts (money) 2 = items (usage, NRC, and RC) 3 = rated units 4 = secondary units	(R: 1, 2, 3, 4)	Null
discount_type	smallint	Type of discount calculation that will be performed: 2 = incremental 3 = minimum-price discount (bulk/tiered) 4 = minimum-price discount (incremental/tapered) 5 = 4-digit usage rounding 6 = bulk 7 = guaranteed minimum discount ("customer wins" discount) 8 = incremental cross-product discount. If you enter this value, discount quantum must be 1.	(R: 2, 3, 4, 5, 6, 7, 8)	
element_id	int	Discount restricted to charges associated with this product, from PRODUCT_ELEMENTS. Leave Null for all products.		Null
product_line_id	smallint	Discount restricted to charges associated with this product line, from PRODUCT_LINES. Leave Null for all product lines.		Null
format_code	tinyint	Format option, from BILL_FMT_OPT_REF.		Null

Field Name	Data Type	Comments	Values	Null
domain_id	int	<p>ID of particular charge or usage type to discount, or Null (all).</p> <p>If discount_domain = 1, PRODUCT_ELEMENTS.element_id or Null (all).</p> <p>If discount_domain = 2, NRC_TRANS_DESCR.type_id_nrc or Null (all).</p> <p>If discount_domain = 3, USAGE_TYPES.type_id_usg or Null (all).</p> <p>Otherwise Null (all).</p>		Null
provider_id	int	Identifier, from SERVICE_PROVIDERS_REF, for the provider whose charges should be discounted; or Null or 0 (all).		Null
date_active	smalldt	Date and time the discount becomes available for provisioning.		
date_inactive	smalldt	System date and time when the discount is no longer available for provisioning.		Null
date_created	smalldt	System date and time when the record was created.		
description_code	int	Description from DESCRIPTIONS table.		
save_detail	bit	Should details be saved? 0 = discount is aggregated. 1 = discount is detailed.	(D: 0)	
rate_period	char	1 Rate period identifier, from RATE_PERIOD_REF.		Null
jurisdiction	int	Jurisdiction identifier, from JURISDICTIONS.		Null
is_gross	bit	Calculate discount based on net charge, including previously applied discounts, or gross charge amount, excluding discounts? (1 = gross, 0 = net)	(D: 0)	

Field Name	Data Type	Comments	Values	Null
is_exclusive	bit	1 = Once applied to a charge, another exclusive discount cannot be applied.	(D: 0)	
corridor_plan_id	int	Corridor ID, from CORRIDOR_PLAN_ID_REF, or 0 (no plan).	(D: 0)	
icb_allow	bit	Indicates if account specific discounts are permitted. (0 = no)	(D: 0)	

DISCOUNT_PLANS

Configurable. Defines discount plans, which consist of one or more discounts from DISCOUNT_DEFINITIONS. Admin table. Read-only copy exists on Customer database.

Used by the following modules: BIP, BIF, JNL

Triggers: discount_id exists in RATE_DISCOUNT.

discount_id cannot exist in CORRIDOR_PLAN_ID_REF.

plan_id_discount cannot be updated.

If not otherwise set, plan_order is set to plan_id_discount and def_order to discount_id.

All values of plan_order must be the same for a given plan_id_discount.

Indexes: primary-key on plan_id_discount, discount_id

non-unique on discount_id

unique on plan_order, def_order

Foreign Keys: (plan_id_discount) must exist in PLAN_ID_DISCOUNT_REF(plan_id_discount)

(discount_id) must exist in DISCOUNT_DEFINITIONS(discount_id)

Field Name	Data Type	Comments	Values	Null
plan_id_discount	int	Discount plan ID, from PLAN_ID_DISCOUNT_REF.		
discount_id	int	Discount ID, from DISCOUNT_DEFINITIONS.		
plan_order	int	Application order for discount plan. Defaults to plan_id_discount value.	(R: > 0)	Null
def_order	int	Application order for discount within the plan. Defaults to discount_id value.	(R: > 0)	Null

DISCOUNT_RESTRICTIONS

Configurable. Associates a given discount with one or more restriction parameters, each of which defines a restriction or exclusion within a particular domain (for example, usage charges) for a particular entity receiving the discount. Admin table. Read-only copy exists on Customer database.

Used by the following modules: BIP, BIF, JNL

Triggers: restricted_id exists in the appropriate table (see below) or is Null.

If restriction_type is 1 or 5, restricted_domain must be 1, 2, or 3; otherwise, it must be Null.

If restriction_type is 1 and restricted_domain is 1, 2, or 3, restricted_id must be Null and cannot be updated.

restricted_id2 must be NULL unless restriction_type is 9 or 12.

is_exclusion must be constant for a single discount type.

Verify that the following DISCOUNT_DEFINITIONS fields are Null according to restriction_type: if 1, discount_domain; if 2, element_id; if 3, product_line_id; if 4, provider_id; if 5, domain_id; if 6, jurisdiction; if 7, rate_period.

If restriction_type = 6, restricted_id is in JURISDICTIONS.jurisdiction. If 7, it is in RATE_PERIOD_REF.rate_period.

If restriction_type = 8, restricted_id must be Null or from CONTRACT_TYPES.contract_type with CONTRACT_TYPES.contract_category = 14. If restriction_type = 8, is_exclusion must be 0 and restricted_domain must be Null.

If restriction_type = 9, restricted_domain must be 1 and restricted_id2 must come from UNITS_TYPE_REF.units_type. If restriction_type = 10, restricted_domain must be 3 and restricted_id must come from BILL_CLASS_REF.bill_class. If restriction_type = 11, restricted_domain must be 3 and restricted_id must come from ZONE_CLASS_REF.zone_class.

If restriction_type = 12, restricted_domain must be 3, restricted_id2 must come from USAGE_TYPES.type_id_usg, and restricted_id must come from PRODUCT_ELEMENT.element_id. Cannot update discount_id, restriction_type, or is_exclusion.

Indexes: clustered, unique on discount_id, restriction_type, restricted_domain, restricted_id, restricted_id2

Foreign Keys: (discount_id) must exist in DISCOUNT_DEFINITIONS(discount_id)

Field Name	Data Type	Comments	Values	Null
discount_id	int	Discount ID, from DISCOUNT_DEFINITIONS.		
restriction_type	tinyint	Identifies the restriction parameter type: 1 = charge domain 2 = product 3 = product line 4 = service provider 5 = charge type 6 = jurisdiction 7 = rate period 8 = historic payback 9 = units/units_type 10 = bill_class 11 = zone_class 12 = restricted on usage by element_id	(R: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12)	
restricted_domain	tinyint	Identifies the charge domain if restriction_type is 1 or 5. 1 = recurring charge 2 = non-recurring charge 3 = usage charge		Null

Field Name	Data Type	Comments	Values	Null
restricted_id	int	<p>Restriction entity, based on restriction_type:</p> <p>If restriction_type = 1, leave Null.</p> <p>If restriction_type = 2, PRODUCT_ELEMENTS.element_id.</p> <p>If restriction_type = 3, PRODUCT_LINES.product_line_id.</p> <p>If restriction_type = 4, SERVICE_PROVIDERS_REF.provider_id.</p> <p>If restriction_type = 5, depends on restriction_domain:</p> <ul style="list-style-type: none"> If restriction_domain = 1, PRODUCT_ELEMENTS.element_id. If restriction_domain = 2, NRC_TRANS_DESCR.type_id_nrc. If restriction_domain = 3, USAGE_TYPES.type_id_usg. <p>If restriction_type = 6, JURISDICTIONS.jurisdiction.</p> <p>If restriction_type = 7, ASCII equivalent of RATE_PERIOD_REF.rate_period.</p> <p>If restriction_type = 7, ASCII equivalent of RATE_PERIOD_REF.rate_period. The type_id_usg associated with this restriction must have USAGE_TYPES.bill_aggr_level = 255.</p>		Null
is_exclusion	bit	If 0, discount_id is applied only to the restriction entity. If 1, it is applied to everything but the restriction entity.		
restricted_id2	int	USAGE_TYPES.type_id_usg of usage event, if restriction_type is 12. Null indicates all usage.		Null

DISCOUNT_TARGETS

Configurable. Associates cross-product discounts, defined in DISCOUNT_DEFINITIONS, with the charges to which they are applied. Admin table. Read-only copy exists on Customer database.

Used by the following modules: BIP, BIF, JNL

Triggers:

- If target_type is 1 or 5, target_domain must be 1, 2, or 3; otherwise Null.
- If target_type is 1 and target_domain is 1, 2, or 3, target_id must be Null.
- If target_type is 9, target_domain must be 1 and target_id2 must be from UNITS_TYPE_REF.units_type.
- If target_type is 10, target_domain must be 3 and target_id must be from BILL_CLASS_REF.bill_class.
- If target_type is 11, target_domain must be 3 and target_id must be from ZONE_CLASS_REF.zone_class.
- If target_type is 12, target_domain must be 3, and either (1) target_id2 is Null or matches USAGE_TYPES.type_id_usg or (2) target_id is from PRODUCT_ELEMENTS.element_id. target_id must exist in the appropriate table.

is_exclusion must be constant for a given discount type.

If target_type = 6, target_id is in JURISDICTIONS.jurisdictions. If 7, it is in RATE_PERIOD_REF.rate_period.

target_domain can be updated only for target_type = 1, 5 or 6.

target_id2 must be NULL unless target_type is 9 or 12.

Cannot update discount_id, target_type, or is_exclusion.

Indexes: clustered, unique on discount_id, target_type, target_domain, target_id, target_id2

Foreign Keys: (discount_id) must exist in DISCOUNT_DEFINITIONS(discount_id)

Field Name	Data Type	Comments	Values	Null
discount_id	int	Cross-product discount ID, from DISCOUNT_DEFINITIONS.		
target_type	tinyint	Identifies the target parameter type: 1 = charge domain 2 = product 3 = product line 4 = service provider 5 = charge type 6 = jurisdiction 7 = rate period 9 = units/units_type 10 = bill_class 11 = zone_class 12 = restricted on usage by element_id	(R: 1, 2, 3, 4, 5, 6, 7, 9, 10, 11, 12)	
target_domain	smallint	Identifies the charge domain of the target, if target_type is 1 or 5. 1 = recurring charge 2 = non-recurring charge 3 = usage charge	(R: 1, 2, 3)	Null

Field Name	Data Type	Comments	Values	Null
target_id	int	<p>Target entity, based on target_type:</p> <p>If target_type = 1, leave Null.</p> <p>If target_type = 2, PRODUCT_ELEMENTS.element_id.</p> <p>If target_type = 3, PRODUCT_LINES.product_line_id.</p> <p>If target_type = 4, SERVICE_PROVIDERS_REF.provider_id.</p> <p>If target_type = 5, depends on restriction_domain:</p> <p>If target_domain = 1, PRODUCT_ELEMENTS.element_id.</p> <p>If target_domain = 2, NRC_TRANS_DESCR.type_id_nrc.</p> <p>If target_domain = 3, USAGE_TYPES.type_id_usg.</p> <p>If target_type = 6, JURISDICTIONS.jurisdiction.</p> <p>If target_type = 7, ASCII equivalent of RATE_PERIOD_REF.rate_period.</p>		Null
is_exclusion	bit	If 0, discount_id is applied only to the target entity. If 1, it is applied to everything but the target entity.		
target_id2	int	USAGE_TYPES.type_id_usg of usage event, if target_type is 12. Null indicates all usage.		Null

DISCOUNT_THRESH_TIER_ID_REF

Configurable. Describes multiple threshold discount plans. Admin table.

Used by the following modules: BIP

Dependents: DISCOUNT_THRESH_TIER_ID_VALUES

Triggers: Only one row can have `is_default = 1`.

Indexes: primary-key on `discount_threshold_tier_id`

Field Name	Data Type	Comments	Values	Null
<code>discount_threshold_tier_id</code>	smallint	Unique identifier for a threshold tier discount.		
<code>is_default</code>	bit	Is this value default? (1 = yes) Only one row can be default.		
<code>is_internal</code>	bit	If 1, Kenan/BP modules require this record; do not delete or modify.		

DISCOUNT_THRESH_TIER_ID_VALUES

Configurable. Describes multiple threshold discount plans defined in DISCOUNT_THRESH_TIER_ID_REF. Admin table.

Used by the following modules: BIP

Indexes: primary-key on discount_threshold_tier_id, language_code

Foreign Keys: (discount_threshold_tier_id) must exist in

DISCOUNT_THRESH_TIER_ID_REF(discount_threshold_tier_id)
(language_code) must exist in LANGUAGE_CODE_REF(language_code)

Field Name	Data Type	Comments			Values	Null
discount_threshold_tier_id	smallint		Unique identifier for a threshold tier discount, from DISCOUNT_THRESH_TIER_ID_REF.			
language_code	smallint		Language code, from LANGUAGE_CODE_REF.			
short_display	varchar (15)	5	Abbreviated version of the display value.			Null
display_value	varchar (240)	80	Text description to display on screen.			

DISTANCE_BANDS

Configurable. Defines distance ranges (or bands) to be used in vertical and horizontal rating. Admin table. Read-only copy exists on Customer database.

Triggers: jurisdiction exists in JURISDICTIONS or is Null or 0.

Rows with a given set of type_id_usg, jurisdiction, and access_region_origin values must have contiguous, non-overlapping max_distance/min_distance bands.

Indexes: clustered, unique on type_id_usg, access_region_origin, min_distance, jurisdiction, element_id

Foreign Keys: (element_id) must exist in PRODUCT_ELEMENTS(element_id)

(type_id_usg) must exist in USAGE_TYPES(type_id_usg)

(access_region_origin) must exist in ACCESS_REGION_REF(access_region)

(distance_band_id) must exist in DISTANCE_BANDS_ID_REF(distance_band_id)

Check Constraints: min_distance <= max_distance

Field Name	Data Type		Comments	Values	Null
distance_band_id	tinyint		ID for this distance band, from DISTANCE_BANDS_ID_REF.		
type_id_usg	int		Usage type ID, from USAGE_TYPES.		
jurisdiction	int		Jurisdiction identifier, from JURISDICTIONS.		Null
access_region_origin	char (15)		Access region of the origin point, from ACCESS_REGION_REF.		Null
min_distance	int		Minimum distance for this band.		
max_distance	int		Maximum distance for this band. Null if this distance band is open-ended.		Null
element_id	int		Product element ID, from PRODUCT_ELEMENTS.		Null

DISTANCE_BANDS_ID_REF

Configurable. Defines distance band identifiers. Admin table. Read-only copy exists on Customer database.

Dependents: DISTANCE_BANDS, DISTANCE_BANDS_ID_VALUES

Triggers: Only one row can have `is_default = 1`.

Indexes: primary-key on `distance_band_id`

Field Name	Data Type	Comments	Values	Null
distance_band_id	tinyint	Unique ID for this distance band.	(R: > 0)	
is_default	bit	Is this value default? (1 = yes) Only one row can be default.	(D: 0)	
is_internal	bit	If 1, Kenan/BP modules require this record; do not delete or modify.	(D: 0)	

DISTANCE_BANDS_ID_VALUES

Configurable. Describes distance bands defined in DISTANCE_BANDS_ID_REF. Admin table. Read-only copy exists on Customer database.

Indexes: primary-key on distance_band_id, language_code

Foreign Keys: (distance_band_id) must exist in DISTANCE_BANDS_ID_REF(distance_band_id)
 (language_code) must exist in LANGUAGE_CODE_REF(language_code)

Field Name	Data Type		Comments	Values	Null
distance_band_id	tinyint		Distance band ID, from DISTANCE_BANDS_ID_REF.		
language_code	smallint		Language code, from LANGUAGE_CODE_REF.		
short_display	varchar (15)		Abbreviated version of the display value.		Null
display_value	varchar (240)		Text description to display on screen.		

EFT_CONTROL

Dynamic. Reserved for future use. Holds information about the client bank. Run the `replicate.ksh` script after modifying this table if the database is in an Oracle multiserver environment. See the *System Administrator Guide* for more information about `replicate.ksh`. Admin table. Read-only copy exists on Customer database.

Used by the following modules: EFT

Indexes: primary-key on `xfer_user_id`

Field Name	Data Type	Comments	Values	Null
<code>xfer_user_id</code>	char	10	Bank sort code.	
<code>xfer_sort_code</code>	varchar	6	Reserved for future use.	Null
<code>xfer_acnt_id</code>	varchar	8	Reserved for future use.	Null
<code>xfer_acnt_type</code>	smallint		Reserved for future use.	Null
<code>xfer_acnt_name</code>	varchar	18	Reserved for future use.	Null
<code>xfer_acnt_limit</code>	numeric	18	Reserved for future use.	Null
<code>xfer_acnt_limit_cycle</code>	varchar	2	Reserved for future use.	Null
<code>xfer_transact_limit</code>	numeric	18	Reserved for future use.	Null
<code>xfer_transact_delay</code>	smallint		Reserved for future use.	Null
<code>xfer_prenote_status_delay</code>	smallint		Reserved for future use.	Null
<code>expiration_date</code>	smallint		Reserved for future use.	Null

EFT_RESPONSE_CODE_REF

Configurable. Defines valid EFT response codes. Admin table. Read-only copy exists on Customer database.

Used by the following modules: EFT, ARM

Dependents: EFT_RESPONSE_CODE_VALUES, EFT_TRANS

Triggers: Only one row can have is_default = 1.

reversal_trans_type limited to values in BMF_TRANS_DESCR.bmf_trans_type.

Indexes: primary-key on clearing_house_id, response_code

Foreign Keys: (clearing_house_id) must exist in CLEARING_HOUSE_ID_REF(clearing_house_id)

Field Name	Data Type		Comments	Values	Null
response_code	char (12)	4	Return code from the clearinghouse.		
response_category	int		Category of the transaction failure: 0 = success 5 = data error 1 = comm 6 = forced deposit 2 = hard decline 7 = call company 3 = soft decline 8 = chargeback resubmit 4 = referral	(R: 0, 1, 2, 3, 4, 5, 6, 7, 8)	
clearing_house_id	char	3	Clearinghouse ID, from CLEARING_HOUSE_ID_REF.		
treatment_ind	smallint		Treatment indicator: 0 = no disconnect 2 = suspend account	(R: 0, 2)	
reversal_trans_type	int		BMF_TRANS_DESCR.bmf_trans_type for payment reversal via EFT.		Null

Field Name	Data Type	Comments	Values	Null
is_default	bit	Is this value default? (1 = yes) Only one row can be default.	(D: 0)	
is_internal	bit	If 1, Kenan/BP modules require this record; do not delete or modify.	(D: 0)	
eft_event_type	smallint	Indicates to the ARM module the response code for a type of payment.		Null

EFT_RESPONSE_CODE_VALUES

Configurable. Describes response codes defined in EFT_RESPONSE_CODE_REF. Admin table. Read-only copy exists on Customer database.

Indexes: primary-key on clearing_house_id, response_code, language_code

Foreign Keys: (clearing_house_id, response_code) must exist in
 EFT_RESPONSE_CODE_REF(clearing_house_id, response_code)
 (language_code) must exist in LANGUAGE_CODE_REF(language_code)

Field Name	Data Type	Comments	Values	Null
response_code	char (12)	Response code, from EFT_RESPONSE_CODE_REF.		
clearing_house_id	char	Clearinghouse ID, from CLEARING_HOUSE_ID_REF.		
language_code	smallint	Language code, from LANGUAGE_CODE_REF.		
display_value	varchar (240)	Text description to display on screen.		
short_display	varchar (15)	Abbreviated version of the display value.		Null

EMF_CONFIGURATION

Configurable. Defines configurations that can be assigned to service instances. Admin table. Read-only copy exists on Customer database.

Used by the following modules: CUSTINFO

Dependents: SERVICE, SERVICE_VIEW, XFER_NRC

Triggers: equip_type_code, equip_class_code, and class_of_service_code exist in the appropriate tables (see below) or are 0.

Indexes: primary-key on emf_config_id

Foreign Keys: (emf_config_id) must exist in EMF_CONFIG_ID_REF(emf_config_id)
 (industry_type) must exist in INDUSTRY_TYPE_REF(industry_type)
 (rate_class) must exist in RATE_CLASS_DESCR(rate_class)
 (emf_book_id) must exist in JNL_EMF_BOOK_REF(emf_book_id)

Field Name	Data Type	Comments	Values	Null
emf_config_id	smallint	Service type configuration ID, from EMF_CONFIG_ID_REF.		
emf_type	smallint	Type of service: 0 = standard service (1 service address and no circuit ID required) 1 = optional service (1 service address and circuit ID required) 2 = circuit/leased-line (2 service addresses and circuit ID required) 3 = B-end address enabled, circuit ID, description, and distance disabled	(R: 0, 1, 2, 3)	
equip_type_code	smallint	Service instance type, from EQUIP_TYPE_CODE_REF.		
equip_class_code	smallint	Service instance class, from EQUIP_CLASS_CODE_REF.		
class_of_service_code	smallint	Class of service, from CLASS_OF_SERVICE_CODE_REF.		
rate_class	smallint	Rating class, from RATE_CLASS_DESCR.		Null

Field Name	Data Type	Comments	Values	Null
active_dt	smalldt	Date configuration becomes available.		
inactive_dt	smalldt	Date configuration becomes unavailable.		Null
emf_book_id	smallint	Service instance journalizing ID, from JNL_EMF_BOOK_REF.	(D: 0)	
industry_type	smallint	Kenan/OM only.		Null

EMF_CONFIG_ID_REF

Configurable. Describes the set of configurations that are available to be assigned to a given service instance. Admin table. Read-only copy exists on Customer database.

Used by the following modules: CUSTINFO

Dependents: EMF_CONFIGURATION, EMF_CONFIG_ID_VALUES

Triggers: Only one row can have `is_default = 1`.

`default_external_id_type` must correspond to an `EXTERNAL_ID_TYPE_REF.external_id_type` that has `EXTERNAL_ID_TYPE_REF.is_viewable = 1`.

Indexes: primary-key on `emf_config_id`

Field Name	Data Type	Comments	Values	Null
<code>emf_config_id</code>	smallint	Service type configuration ID.	(R: != 0)	
<code>default_external_id_type</code>	smallint	External ID type (from <code>EXTERNAL_ID_TYPE_REF</code>) used to display subscriptions of this type in CUSTINFO.		
<code>is_default</code>	bit	Is this value default? (1 = yes) Only one row can be default.	(D: 0)	
<code>is_internal</code>	bit	If 1, Kenan/BP modules require this record; do not delete or modify.	(D: 0)	

EMF_CONFIG_ID_VALUES

Configurable. Describes service instance configurations defined in EMF_CONFIG_ID_REF. Admin table. Read-only copy exists on Customer database.

Indexes: primary-key on emf_config_id, language_code

Foreign Keys: (language_code) must exist in LANGUAGE_CODE_REF(language_code)
 (emf_config_id) must exist in EMF_CONFIG_ID_REF(emf_config_id)

Field Name	Data Type	Comments		Values	Null
emf_config_id	smallint	Service type configuration ID, from EMF_CONFIG_ID_REF.			
language_code	smallint	Language code, from LANGUAGE_CODE_REF.			
short_display	varchar (15)	Abbreviated version of the display value.			Null
display_value	varchar (240)	Text description to display on screen.			
format_display	varchar (240)	Text description for bill format display.			Null

EMF_STATUS_CHG_REASON_REF

Configurable. Defines reasons for changing service instance status. Admin table. Read-only copy exists on Customer database.

Used by the following modules: CUSTINFO

Dependents: EMF_STATUS_CHG_REASON_VALUES

Triggers: Only one row can have `is_default = 1`.

Indexes: primary-key on emf_status_chg_reason

Field Name	Data Type	Comments	Values	Null
emf_status_chg_reason	smallint	Unique identifier of a reason for changing service instance status: 1 = Customer request 2 = Customer in collections 3 = Customer violated service terms 4 = Network out of service 5 = Network back in service 97 = Disconnect requested (used by BIP) -99 = Account suspended (used by BIP)		
is_default	bit	Is this value default? (1 = yes) Only one row can be default.	(D: 0)	
is_internal	bit	If 1, Kenan/BP modules require this record; do not delete or modify.	(D: 0)	

EMF_STATUS_CHG_REASON_VALUES

Configurable. Describes service instance status change reasons defined in EMF_STATUS_CHG_REASON_REF. Admin table. Read-only copy exists on Customer database.

Used by the following modules: CUSTINFO

Indexes: primary-key on emf_status_chg_reason, language_code

Foreign Keys: (emf_status_chg_reason) must exist in
 EMF_STATUS_CHG_REASON_REF(emf_status_chg_reason)
 (language_code) must exist in LANGUAGE_CODE_REF(language_code)

Field Name	Data Type	Comments		Values	Null
emf_status_chg_reason	smallint	Service instance status change reason, from EMF_STATUS_CHG_REASON_REF.			
language_code	smallint	Language code, from LANGUAGE_CODE_REF.			
short_display	varchar (30)	10	Abbreviated version of the display value.		
display_value	varchar (240)	80	Text description to display on screen.		

EMF_STATUS_REF

Configurable. Defines all service instance statuses supported in this deployment. Admin table. Read-only copy exists on Customer database.

Used by the following modules: CUSTINFO

Dependents: EMF_STATUS_VALUES

Triggers: Only one row can have `is_default = 1`.

Indexes: primary-key on emf_status

Field Name	Data Type	Comments	Values	Null
emf_status	smallint	Unique identifier of a service instance status: 10 = 30 days overdue 11 = 60 days overdue 12 = 90 days overdue 13 = 120 days overdue 14 = In collections 20 = Active 21 = Suspended 22 = Terminated 23 = Disconnect requested 24 = Account closed 25 = Account pending		
is_default	bit	Is this value default? (1 = yes) Only one row can be default.	(D: 0)	
is_internal	bit	If 1, Kenan/BP modules require this record; do not delete or modify.	(D: 0)	

EMF_STATUS_VALUES

Configurable. Describes service instance statuses defined in EMF_STATUS_REF. Admin table. Read-only copy exists on Customer database.

Used by the following modules: CUSTINFO

Indexes: primary-key on emf_status, language_code

Foreign Keys: (language_code) must exist in LANGUAGE_CODE_REF(language_code)
 (emf_status) must exist in EMF_STATUS_REF(emf_status)

Field Name	Data Type	Comments		Values	Null
emf_status	smallint	Service instance status identifier, from EMF_STATUS_REF.			
language_code	smallint	Language code, from LANGUAGE_CODE_REF.			
short_display	varchar (30)	10	Abbreviated version of the display value.		
display_value	varchar (240)	80	Text description to display on screen.		

EMF_SUSPENSION_REASON_REF

Configurable. Lists suspension reasons. Admin table. Read-only copy exists on Customer database.

Used by the following modules: CUSTINFO

Dependents: EMF_SUSPENSION_REASON_VALUES

Indexes: primary-key on emf_suspension_reason

Field Name	Data Type	Comments	Values	Null
emf_suspension_reason	smallint	Reason for suspension.		
is_default	bit	Is this value default? (1 = yes) Only one row can be default.	(D: 0)	
is_internal	bit	If 1, Kenan/BP modules require this record; do not delete or modify.	(D: 0)	

EMF_SUSPENSION_REASON_VALUES

Configurable. Describes suspension reasons. Admin table. Read-only copy exists on Customer database.

Used by the following modules: CUSTINFO

Indexes: primary-key on emf_suspension_reason, language_code

Foreign Keys: (language_code) must exist in LANGUAGE_CODE_REF(language_code)
 (emf_suspension_reason) must exist in
 EMF_SUSPENSION_REASON_REF(emf_suspension_reason)

Field Name	Data Type	Comments		Values	Null
emf_suspension_reason	smallint	Reason for suspension.			
language_code	smallint	Language code, from LANGUAGE_CODE_REF.			
short_display	varchar (30)	10	Abbreviated version of the display value.		Null
display_value	varchar (240)	80	Text description to display on screen.		

ENUMERATION_DEF

Configurable. Allows an extended field to be tied to an enumeration. Admin table.

Dependents: PARAM_DEF

Indexes: non-unique on enumeration_name
primary-key on enumeration_id

Field Name	Data Type		Comments	Values	Null
enumeration_id	int		Unique ID to identify this enumeration.		
enumeration_name	varchar	32	Unique name to identify this enumeration.		
enumeration_key	varchar	32	Name of the field that serves as an identifier for the values for this enumeration.		
ref_table_name	varchar	30	Name of an external enumeration that is associated to this enumeration.		Null

EPR_BATCH_WORK

Specifies the names of Kenan/BP tables to be replicated to the Kenan Prepaid database. Admin table. Read-only copy on catalog. Read-only copy on customer.

Indexes: primary-key on table_name

Field Name	Data Type		Comments	Values	Null
table_name	varchar 30		Names of tables to be replicated to Kenan Prepaid.		
replicate_order	smallint		Specifies in what order the tables will be replicated. Tables with smaller values are replicated first. Should be greater than zero. Admin tables must have a value smaller than 1000 and customer tables must have a value greater than or equal to 1000.		
status	tinyint		Reflects the current state of the replication process. 0 = not replicated 1 = replicated		
chg_dt	datetime		Date/time when this entry was last created/updated (date/time replicated).		

EPR_ERROR

Configurable. Stores information on messages that KPR fails to process so that the messages can be reprocessed. Admin table.

Used by the following modules: Prepaid

Indexes: primary-key on seqnum

Field Name	Data Type		Comments	Values	Null
seqnum	int		Unique row ID.		
server_id	tinyint		Server ID, from SERVER_DEFINITION.		
msg_str	varchar		Text of the message.		
error_code	int		Reason for message processing failure: 1000 = invalid message type 1001 = parsing message error 1002 = socket error 1003 = no memory available 1004 = connecting BAM error 1005 = updating BAM error 1006 = initializing BAM error		
status	smallint		Current message processing status: 0 = new 1 = successfully processed		
in_use	varchar		Indicates if the message is locked by a process.		Null
chg_dt	datetime		Date/time this entry last created / updated (date/time replicated).		

EQUIP_CLASS_CODE_REF

Configurable. Lists valid classes (for example, rating zones) used to specify service instances. Admin table. Read-only copy exists on Customer database.

Used by the following modules: CUSTINFO, BIP, BIF, JNL

Dependents: BILL_FORMAT_TEMPLATE, COMPONENT_EMF_ELIGIBILITY, EQUIP_CLASS_CODE_VALUES,
RATE_PERIODS, SERVICE_BILLING, UNIT_CR_RATE_LIMIT

Triggers: Only one row can have is_default = 1.

Indexes: primary-key on equip_class_code

Field Name	Data Type	Comments	Values	Null
equip_class_code	smallint	Unique identifier of a service instance class, used in other tables.		
is_default	bit	Is this value default? (1 = yes) Only one row can be default.	(D: 0)	
is_internal	bit	If 1, Kenan/BP modules require this record; do not delete or modify.	(D: 0)	

EQUIP_CLASS_CODE_VALUES

Configurable. Describes service instance classes defined in EQUIP_CLASS_CODE_REF. Admin table. Read-only copy exists on Customer database.

Indexes: primary-key on equip_class_code, language_code

Foreign Keys: (equip_class_code) must exist in EQUIP_CLASS_CODE_REF(equip_class_code)
 (language_code) must exist in LANGUAGE_CODE_REF(language_code)

Field Name	Data Type		Comments	Values	Null
equip_class_code	smallint		Service instance class identifier, from EQUIP_CLASS_CODE_REF.		
language_code	smallint		Language code, from LANGUAGE_CODE_REF.		
short_display	varchar (15)	5	Abbreviated version of the display value.		Null
display_value	varchar (240)	80	Text description to display on screen.		

EQUIP_TYPE_CODE_REF

Configurable. Lists all valid service instance types (for example, electronic mail account or telephone number). Admin table. Read-only copy exists on Customer database.

Used by the following modules: CUSTINFO, BIP, BIF, JNL

Dependents: BILL_FORMAT_TEMPLATE, COMPONENT_EMF_ELIGIBILITY, EQUIP_TYPE_CODE_VALUES,
RATE_PERIODS, SERVICE_BILLING

Triggers: Only one row can have is_default = 1.

Indexes: primary-key on equip_type_code

Field Name	Data Type		Comments	Values	Null
equip_type_code	smallint		Unique internal identifier of a specific type of service instance, used in other tables.		
foreign_code	varchar (30)	10	Reserved for future use.		
is_default	bit		Is this value default? (1 = yes) Only one row can be default.	(D: 0)	
is_internal	bit		If 1, Kenan/BP modules require this record; do not delete or modify.	(D: 0)	

EQUIP_TYPE_CODE_VALUES

Configurable. Describes service instance types defined in EQUIP_TYPE_CODE_REF. Admin table. Read-only copy exists on Customer database.

Indexes: primary-key on equip_type_code, language_code

Foreign Keys: (equip_type_code) must exist in EQUIP_TYPE_CODE_REF(equip_type_code)
 (language_code) must exist in LANGUAGE_CODE_REF(language_code)

Field Name	Data Type		Comments	Values	Null
equip_type_code	smallint		Service instance type code, from EQUIP_TYPE_CODE_REF.		
language_code	smallint		Language code, from LANGUAGE_CODE_REF.		
short_display	varchar (15)	5	Abbreviated version of the display value.		Null
display_value	varchar (240)	80	Text description to display on screen.		

ERROR_SEVERITIES

Static, for internal use only. Defines severities of messages that appear in batch process logs. Admin table. Read-only copy exists on Customer database.

Indexes: primary-key on message_language, message_severity

Field Name	Data Type		Comments	Values	Null
message_language	varchar (60)	20	Language of the severity, for example, English.		
message_severity	char (30)	10	Severity of the error.		
code	int		Coded value of severity.		

EXRATE_CLASS_REF

Configurable. Defines valid exchange rate classes. Admin table. Read-only copy exists on Customer database.

Dependents: EXRATE_CLASS_VALUES, RATE_CURRENCY, SERVICE, SERVICE_BILLING, SERVICE_VIEW

Triggers: Only one row can have `is_default = 1`.

Indexes: primary-key on `exrate_class`

Field Name	Data Type	Comments	Values	Null
exrate_class	smallint	Unique exchange rate class ID.		
conversion_date	tinyint	Use which exchange rate? 1 = Use exchange rate transaction effective date. 2 = Use exchange rate for invoice statement date.		
is_default	bit	Is this value default? (1 = yes) Only one row can be default.	(D: 0)	
is_internal	bit	If 1, Kenan/BP modules require this record; do not delete or modify.	(D: 0)	

EXRATE_CLASS_VALUES

Configurable. Describes exchange rate classes defined in EXRATE_CLASS_REF. Admin table. Read-only copy exists on Customer database.

Indexes: primary-key on exrate_class, language_code

Foreign Keys: (language_code) must exist in LANGUAGE_CODE_REF(language_code)
(exrate_class) must exist in EXRATE_CLASS_REF(exrate_class)

Field Name	Data Type	Comments		Values	Null
exrate_class	smallint	Exchange rate class ID, from EXRATE_CLASS_REF.			
language_code	smallint	Language code, from LANGUAGE_CODE_REF.			
short_display	varchar (15)	5	Short text description of the exchange rate class.		Null
display_value	varchar (240)	80	Text description to display on screen.		

EXTERNAL_ID_TYPE_REF

Configurable. Defines external ID types. Run the `replicate.ksh` script after modifying this table if the database is in an Oracle multiserver environment. See the *System Administrator Guide* for more information about `replicate.ksh`. Admin table. Read-only copy exists on Catalog database. Read-only copy exists on Customer database.

Used by the following modules: CUSTINFO

Dependents: `CUSTOMER_ID_ACCT_MAP`, `CUSTOMER_ID_EQUIP_MAP`, `CUSTOMER_ID_EQUIP_MAP_KEY`,
`CUSTOMER_ID_EQUIP_MAP_VIEW`, `CUSTOMER_ID_GROUP_MAP`, `EXTERNAL_ID_ACCT_MAP`,
`EXTERNAL_ID_EQUIP_MAP`, `EXTERNAL_ID_EQUIP_MAP_KEY`, `EXTERNAL_ID_EQUIP_MAP_VIEW`,
`EXTERNAL_ID_GROUP_MAP`, `EXTERNAL_ID_TYPE_VALUES`, `SERVICE`, `SERVICE_VIEW`

Triggers: Only one row can have `is_default = 1`.
`is_viewable` cannot be updated to 0.
Rows with `is_default` set to 1 cannot have `uniqueness_type` set to 0.

Indexes: primary-key on `external_id_type`

Check Constraints: `is_default != 1 or is_viewable = 1`

Field Name	Data Type	Comments	Values	Null
<code>external_id_type</code>	<code>smallint</code>	External ID type ID associated with source.	(R: != 0)	
<code>uniqueness_type</code>	<code>tinyint</code>	How are <code>external_id</code> fields of this type mapped to internal IDs? 0 = one external ID is mapped to many internal IDs (one-to-many). 1 = unique; one external ID is mapped to one internal ID (one-to-one). 2 = more than one external ID is mapped to one internal ID (many-to-one).	(R: 0, 1, 2)	

Field Name	Data Type	Comments	Values	Null
is_default	bit	Is this value default? (1 = yes) Only one row can be default.	(D: 0)	
is_internal	bit	If 1, Kenan/BP modules require this record; do not delete or modify.	(D: 0)	
is_viewable	bit	Is this value viewable? (1 = yes) This field must be set to 1 when is_default = 1.	(D: 1)	

EXTERNAL_ID_TYPE_VALUES

Configurable. Describes external ID types defined in EXTERNAL_ID_TYPE_REF. Run the replicate.ksh script after modifying this table if the database is in an Oracle multiserver environment. See the *System Administrator Guide* for more information about replicate.ksh. Admin table. Read-only copy exists on Catalog database. Read-only copy exists on Customer database.

Indexes: primary-key on external_id_type, language_code

Foreign Keys: (external_id_type) must exist in EXTERNAL_ID_TYPE_REF(external_id_type)
 (language_code) must exist in LANGUAGE_CODE_REF(language_code)

Field Name	Data Type	Comments			Values	Null
external_id_type	smallint	External ID type ID, from EXTERNAL_ID_TYPE_REF.				
language_code	smallint	Language code, from LANGUAGE_CODE_REF.				
short_display	varchar (15)	5	Abbreviated version of the display value.			Null
display_value	varchar (240)	80	Text description to display on screen.			

EXT_ACCESS_METHOD_REF

Static. Read-only table that defines valid access methods for COM. Generally, each access method has an EXT_<method>_ACCESS table associated with it (for example, EXT_FTP_ACCESS). Admin table. Read-only copy exists on Customer database.

Used by the following modules: COM

Dependents: EXT_ACCESS_METHOD_VALUES, EXT_CONTACTS

Triggers: Only one row can have is_default = 1.

Indexes: primary-key on access_method

Field Name	Data Type	Comments	Values	Null
access_method	tinyint	Access method identifier: 1 = Local directory structure 2 = FTP 4 = Kermit (only for CheckFree access) 7 = Socket 8 = IPDR File Sharing Protocol	(R: 1, 2, 4, 7, 8)	
is_default	bit	Is this value default? (1 = yes) Only one row can be default.	(D: 0)	
is_internal	bit	If 1, Kenan/BP modules require this record; do not delete or modify.	(D: 0)	

EXT_ACCESS_METHOD_VALUES

Configurable. Describes access methods defined in EXT_ACCESS_METHOD_REF. Admin table. Read-only copy exists on Customer database.

Indexes: primary-key on access_method, language_code

Foreign Keys: (language_code) must exist in LANGUAGE_CODE_REF(language_code)
 (access_method) must exist in EXT_ACCESS_METHOD_REF(access_method)

Field Name	Data Type	Comments	Values	Null
access_method	tinyint	Access method, from EXT_ACCESS_METHOD_REF.		
language_code	smallint	Language code, from LANGUAGE_CODE_REF.		
short_display	varchar (24)	8 Abbreviated version of the display value.		Null
display_value	varchar (240)	80 Text description to display on screen.		

EXT_CONTACTS

Configurable. Defines the external contacts (for example, other applications) that Kenan/BP can exchange data with. Each row joins to a single row in EXT_CONTACTS_STATUS and in the external access tables (for example, EXT_FTP_ACCESS or EXT_LOCAL_DIR_ACCESS). Admin table. Read-only copy exists on Customer database.

Used by the following modules: COM

Dependents: CLEARING_HOUSE_CONTACTS, EXT_FTP_ACCESS, EXT_IPDR_FS_ACCESS, EXT_IPDR_FS_STATUS, EXT_KERMIT_ACCESS, EXT_SOCKET_ACCESS, GSM_ROAMING AGREEMENT, SERVICE_PROVIDERS_REF

Triggers: ext_contact_id cannot be updated.

description_code exists in DESCRIPTIONS.

When is_rfr_required = 1, is_send must be 0 and rfr_path and rfr_filename cannot be Null.

When a row is inserted or deleted into this table, a row is also inserted or deleted (respectively) in the EXT_CONTACTS_STATUS table. Upon insert into this table, the corresponding row in EXT_CONTACTS_STATUS has the same ext_contact_id but all other fields set to Null or 0 as appropriate. Ensure that date bands do not overlap.

Indexes: primary-key on ext_contact_id

Foreign Keys: (source_id) must exist in EXT_SOURCE_ID_REF(source_id)

(file_type) must exist in FILE_TYPE_REF(file_type)

(access_method) must exist in EXT_ACCESS_METHOD_REF(access_method)

Check Constraints: active_dt <= inactive_dt

Field Name	Data Type	Comments	Values	Null
ext_contact_id	smallint	Unique external data source identifier, used in other tables.		
is_send	tinyint	Is this an input/retrieve contact (0) or an output/send contact (1)?		
source_id	int	Source ID of the data source that COM accesses, from EXT_SOURCE_ID_REF. There can be multiple ext_contact_ids for each source_id.		

Field Name	Data Type	Comments		Values	Null
ext_client_id	varchar (96)	32	ID which identifies Kenan/BP or Kenan/BP Client to external system (for example, Client ID for credit card clearinghouse for outgoing files).		Null
description_code	int		Description of this external contact, from DESCRIPTIONS.		
access_method	tinyint		Identifier of file transfer mechanism or external system access method (for example, FTP, local...), from EXT_ACCESS_METHOD_REF.		
respond_to_id	smallint		This is the ext_contact_id that Kenan/BP will send a response file to. If Null, no response file will be sent.		Null
ext_ebcdic	bit		Reserved for future use.	(R: 0)	
prefix_match	varchar	30	File name prefix of files to be sent or retrieved.		Null
postfix_match	varchar	30	File name postfix of files to be sent or retrieved.		Null
unique_ext_name	bit		Are duplicate file names allowed from this ext_contact_id (0) or must new retrieved files have unique names (1)? (All files are renamed after retrieval to guarantee unique file names.)		
arbor_ready	varchar	80	Directory to copy files to (IN) or send files from (OUT).		
arbor_done	varchar	80	Directory to which files are moved once successfully sent to external data source (OUT) or successfully processed within Kenan/BP (IN).		
arbor_error	varchar	80	Directory to which errored files are moved.		
arbor_work	varchar	80	Directory in which file-level work is done.		Null

Field Name	Data Type		Comments	Values	Null
max_time_gap	int		Maximum number of seconds between files retrieved/sent. If no files retrieved/sent within this time period, an ALARM will be issued. Null or 0 means gap not checked. Note that this gap should not be less than the task interval time (as defined in PROCESS_SCHED) or else the max_time_gap will always be exceeded.		Null
retry_delay	int		Minimum delay (in seconds) before this ext_contact_id will be contacted after an error occurs. Delay can be longer than this based on the task schedule. Once error is cleared (after successful connection), the delay will be ignored. If retry_delay is Null or 0, COM will retry this ext_contact_id every time the corresponding task runs.		Null
retry_limit	int		Number of times to retry this ext_contact_id after a failure occurs. After this number of communication failures, COM will no longer try to access this ext_contact_id. To re-access, user must manually reset the error_code to Null and the retry_count to 0. If retry_limit is Null or 0, COM will retry this ext_contact_id indefinitely.		Null
active_dt	smalldt		Date and time this external data source becomes active.		
inactive_dt	smalldt		Date and time this external data source becomes inactive.		Null
change_who	char	30	The Kenan/BP username or process ID (for example, bip01, cap01) of the user/process that last modified the record.		
change_dt	smalldt		Date and time that this entry was last modified.		
control_file_expected	bit		Are header and trailer information included in the file (0) or in a separate control file (1)? If 1, the data file must have a .data suffix and the control file must have a .ctrl suffix. If 0, there is no restriction on the filename, except it cannot begin with a dot “.”.	(D: 0)	

Field Name	Data Type	Comments			Values	Null
is_rfr_required	tinyint		Is a request for response file required by the contact? (1 = yes)	(R: >= 0 or = NULL)	Null	
rfr_path	varchar	80	Path name of the request for response file.		Null	
rfr_filename	varchar	40	File name of the request for response file.		Null	
rfr_delay	smallint		Wait time in seconds before data can be received.		Null	
file_type	smallint		File type identifier from FILE_TYPE_REF.	(D: 0)		
file_name_alter_type	tinyint		Leave Null if is_send = 0. Otherwise, set as follows: Null or 0 = Leave the filename unchanged on send. 1 = Strip off numeric prefix (one or more numbers followed by ".") 2 = Strip off numeric suffix (one or more numbers preceded by ".") 3 = Strip off all leading digits before and after "	(R: 0, 1, 2, 3)	Null	
arbor_detail	varchar	80	Indicates where the output detail records/files will be written.		Null	
use_raw_usage	tinyint		Is raw usage data used? 0 = raw usage is not used by this contact. 1 = raw usage data is appended when a usage event is guided. 2 = like 1, except the raw data is discarded after processing.	(D: 0) (R: 0, 1, 2)		

EXT_CONTACTS_STATUS

Dynamic. Records interactions with external contacts. Should not be modified by users. Run the `replicate.ksh` script after modifying this table if the database is in an Oracle multiserver environment. See the *System Administrator Guide* for more information about `replicate.ksh`. Admin table. Read-only copy exists on Customer database.

Used by the following modules: COM

Indexes: primary-key on `ext_contact_id`

Field Name	Data Type	Comments	Values	Null
<code>ext_contact_id</code>	smallint	Joins to exactly 1 row in EXT_CONTACTS table.		
<code>error_code</code>	int	Numeric error code indicating why communication failed. Does not reflect any errors that occur during file processing. Once the contact is successfully accessed, the <code>error_code</code> is reset to Null.		Null
<code>retry_count</code>	int	Number of times COM has attempted to access this <code>ext_contact_id</code> during error condition; in other words, number of consecutive times access to this contact has errored out. Once this contact is successfully accessed, <code>retry_count</code> is reset to 0.	(D: 0)	
<code>last_access_dt</code>	datetime	Date and time this <code>ext_contact_id</code> was accessed, whether files were retrieved or sent.		Null
<code>process_name</code>	varchar	8	Name of process instance (for example, cap01, com04) that is currently processing this data source. Prevents multiple processes from accessing the same source at the same time.	Null

EXT_FTP_ACCESS

Configurable. Contains information specific to exchanging files with a remote system using FTP. Each row in this table joins to exactly one row in the EXT_CONTACTS table. Admin table. Read-only copy exists on Customer database.

Used by the following modules: COM

Indexes: primary-key on ext_contact_id

Foreign Keys: (ext_contact_id) must exist in EXT_CONTACTS(ext_contact_id)

Field Name	Data Type		Comments	Values	Null
ext_contact_id	smallint		External data source ID from EXT_CONTACTS.		
remote_host	char	16	Remote system (host) name.		
remote_login	char	16	Login ID on remote host.		
remote_password	char	16	Password for above login.		
remote_ready	varchar	80	Directory on remote host to retrieve files from or send files to.		
remote_done	varchar	80	IN ONLY: directory on remote host to move files to once they have been successfully retrieved.		Null
remote_work	varchar	80	OUT ONLY: directory on remote host to which to FTP files. Once FTP is complete, files will be moved to remote_ready. Directories specified by remote_ready and remote_work must be in the same file system to prevent an external process from picking up a file during the transfer process.		Null

EXT_IPDR_FS_ACCESS

Configurable. Contains information specific to retrieving IPDR Docs generated by an IPDR Producer (Transmitter) for a specific subscription group. Each row in this table joins to exactly one row in the EXT_CONTACTS table. Admin table. Read-only copy exists on Customer database.

Used by the following modules: COM

Triggers: If ext_contact_id is in EXT_CONTACTS, EXT_CONTACTS.control_file_expected must be 0. EXT_IPDR_FS_STATUS is automatically updated.

Indexes: primary-key on ext_contact_id

Foreign Keys: (ext_contact_id) must exist in EXT_CONTACTS(ext_contact_id)

Field Name	Data Type		Comments	Values	Null
ext_contact_id	smallint		External data source ID from EXT_CONTACTS.		
capability_url	varchar	255	The URL of the Capability File of an IPDR Producer.		
subscr_group_id	varchar	60	The name of a valid subscription group. Contained by the <groupId> tag in the Capability File.		

EXT_IPDR_FS_STATUS

Dynamic. Records interactions with IPDR Producers (Transmitters) in one “task cycle” for retrieving newly available IPDR Docs. A task cycle is from start to finish if a background process is started in non-recurring mode. Admin table. Read-only copy exists on Customer server.

Used by the following modules: COM

Indexes: primary-key on ext_contact_id

Foreign Keys: (ext_contact_id) must exist in EXT_CONTACTS(ext_contact_id)

Field Name	Data Type		Comments	Values	Null
ext_contact_id	smallint		Joins exactly one row in EXT_CONTACTS table.		
ctrl_file_dir	varchar	255	The URL of the directory where the control files for the subscription group is located.		Null
ctrl_file_prefix	varchar	30	File name prefix of all control files for the subscription group.		Null
ctrl_file_name_policy	tinyint		Number of digits in the sequence number embedded in the name of all control files for the subscription group.	(R: >= 1 and <= 10)	Null
ctrl_file_suffix	varchar	30	File name suffix of all control files for the subscription group.		Null
ctrl_file_no	int		The sequence number of last control file processed in the task cycle.		Null
is_active	tinyint		Whether the last control file processed is “active” (1) or not (0). From BSS (IPDR Consumer) perspective, a control file ceases to be active when the BSS has reached the end marker of the control file (and hence successfully retrieved the last IPDR Doc referenced in the control file).	(R: 0, 1)	Null
ipdr_doc_no	int		The sequence number of the IPDR Docs within the last processed control file (see ctrl_file_no) that are last copied into the BSS system.		Null

EXT_KERMIT_ACCESS

Configurable. Facilitates external communication with external clearinghouses via the Kermit protocol. Admin table.
Read-only copy exists on Customer database.

Used by the following modules: COM

Indexes: primary-key on ext_contact_id

Foreign Keys: (ext_contact_id) must exist in EXT_CONTACTS(ext_contact_id)

Field Name	Data Type		Comments	Values	Null
ext_contact_id	smallint		External data source ID from EXT_CONTACTS.		
local_loginfile_path	varchar	80	Pathname of login file expected by clearinghouse.		Null
local_modem	varchar	80	Local device used for external Kermit access.		
local_port_path	varchar	80	Pathname of port used by local modem.		
local_speed	int		Baud rate of local_modem.		
local_work_dir	varchar	80	Pathname of directory where files to be transferred and files received are kept.		
remote_phone_num	varchar	80	Telephone number of modem at clearinghouse.		

EXT_LOCAL_DIR_ACCESS

Configurable. Contains information specific to exchanging files with a remote system using the local Kenan/BP file system. External processes must handle placing and/or retrieving files in the appropriate directories. Each row in this table joins to exactly one row in the EXT_CONTACTS table. Admin table. Read-only copy exists on Customer database.

Used by the following modules: COM

Triggers: ext_contact_id exists in EXT_CONTACTS.

remote_ready is not the same as EXT_CONTACTS.arbor_ready for the given ext_contact_id.

Indexes: primary-key on ext_contact_id

Field Name	Data Type	Comments		Values	Null
ext_contact_id	smallint	External data source ID from EXT_CONTACTS.			
remote_ready	varchar	Directory on local (Kenan/BP) system from which, or to which files are to be retrieved or sent, respectively. Files are retrieved from or sent to this directory by a process external to Kenan/BP.			
remote_work	varchar	OUT ONLY: file is first moved to remote_work. Then file is linked to remote_ready (and unlinked from remote_work). Both remote_ready and remote_work must be in the same file system to prevent an external process from picking up file that is in the process of being copied to the remote_ready directory.			Null
remote_done	varchar	IN ONLY: directory on local host to move files to once they have been successfully retrieved.			Null

EXT_PARAM_TYPE_ASSOC

Configurable. Extended attributes are associated to entities. Admin table. Read-only copy on Customer.

Indexes: primary-key on base_table, entity_type, param_id
non-unique on param_id

Foreign Keys: (param_id) must exist in PARAM_DEF(param_id)

Field Name	Data Type	Comments	Values	Null
base_table	varchar	30 Name of the table which the original column extended. CMF SERVICE_VIEW CUSTOMER_CONTRACT_VIEW NRC_VIEW PRODUCT_VIEW		
entity_type	int	The subset of the base_table to which this extension applies. Based on value of the following columns: CMF = account_category SERVICE_VIEW = emf_config_id PRODUCT_VIEW= element_id CUSTOMER_CONTRACT_VIEW = contract_type NRC_VIEW = type_id_nrc		
param_id	int	parameter_id, from PARAM_DEF.		
grouping_id	varchar	32 Used to tie groups of related fields together.		Null
default_value	varchar	32 Default value for the original column (if it had any); NULL otherwise		Null

EXT_SOCKET_ACCESS

Configurable. Contains information specific to exchanging files with a remote system using TCP/IP and sockets. Each row in this table joins to exactly one row in the EXT_CONTACTS table. Admin table. Read-only copy exists on Customer database.

Triggers: `remote_host` and `ip_address` cannot both be Null.
`EXT_CONTACTS.control_file_expected` must be 0 for this contact.

Indexes: primary-key on `ext_contact_id`

Foreign Keys: (`ext_contact_id`) must exist in EXT_CONTACTS(`ext_contact_id`)

Field Name	Data Type	Comments		Values	Null
<code>ext_contact_id</code>	smallint	External data source ID, from EXT_CONTACTS.			
<code>remote_host</code>	varchar	32	Remote system (host) name.		Null
<code>ip_address</code>	varchar	15	IP address of the remote system.		Null
<code>port</code>	int	Port number.		(R: >= 0)	
<code>timeout</code>	int	Reserved for future use.		(R: >= 0)	Null
<code>eof_data</code>	varbinary	40	Code indicating that the end of the file has been reached. For example, "EOFEOFEOF" and a carriage return, in hexadecimal notation.		Null

EXT_SOURCE_ID_REF

Configurable. Defines external sources with which Kenan/BP exchanges files. Admin table. Read-only copy exists on Customer database.

Used by the following modules: COM

Dependents: EXT_CONTACTS, EXT_SOURCE_ID_VALUES, SERVICE_PROVIDERS_REF

Triggers: Only one row can have `is_default = 1`.

`source_type` must be in EXT_SOURCE_TYPE_REF.

Indexes: primary-key on `source_id`

Foreign Keys: (`source_type`) must exist in EXT_SOURCE_TYPE_REF(`source_type`)

Field Name	Data Type	Comments	Values	Null
<code>source_id</code>	int	External data source ID.		
<code>source_type</code>	smallint	Source type, from EXT_SOURCE_TYPE_REF.		
<code>is_default</code>	bit	Is this value default? (1 = yes) Only one row can be default.	(D: 0)	
<code>is_internal</code>	bit	If 1, Kenan/BP modules require this record; do not delete or modify.	(D: 0)	

EXT_SOURCE_ID_VALUES

Configurable. Describes data sources defined in EXT_SOURCE_ID_REF. Admin table. Read-only copy exists on Customer database.

Indexes: primary-key on source_id, language_code

Foreign Keys: (language_code) must exist in LANGUAGE_CODE_REF(language_code)
 (source_id) must exist in EXT_SOURCE_ID_REF(source_id)

Field Name	Data Type	Comments			Values	Null
source_id	int		Data source ID, from EXT_SOURCE_ID_REF.			
language_code	smallint		Language code, from LANGUAGE_CODE_REF.			
short_display	varchar (15)	5	Abbreviated version of the display value.			Null
display_value	varchar (240)	80	Text description to display on screen.			

EXT_SOURCE_TYPE_REF

Static. Describes the types of external sources supported by Kenan/BP. Read-only table; should not be modified. Admin table. Read-only copy exists on Customer database.

Used by the following modules: COM

Dependents: EXT_SOURCE_ID_REF, EXT_SOURCE_TYPE_VALUES

Triggers: Only one row can have is_default = 1.

Indexes: primary-key on source_type

Field Name	Data Type	Comments	Values	Null
source_type	smallint	Type of source: 1 = usage 3 = ABI (reserved for future use) 4 = CPM (credit card) 5 = EFT (electronic funds transfer) 6 = LBX (lockbox) 7, 8, 9 = TIP (usage preprocessor) 21 through 31 = (used by Kenan/OM) 99 = other	(R: 1, 3, 4, 5, 6, 7, 8, 9, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 99)	
is_default	bit	Is this value default? (1 = yes) Only one row can be default.	(D: 0)	
is_internal	bit	If 1, Kenan/BP modules require this record; do not delete or modify.	(D: 0)	

EXT_SOURCE_TYPE_VALUES

Configurable. Describes source types defined in EXT_SOURCE_TYPE_REF. Admin table. Read-only copy exists on Customer database.

Indexes: primary-key on source_type, language_code

Foreign Keys: (source_type) must exist in EXT_SOURCE_TYPE_REF(source_type)
 (language_code) must exist in LANGUAGE_CODE_REF(language_code)

Field Name	Data Type	Comments			Values	Null
source_type	smallint		Source type, from EXT_SOURCE_TYPE_REF.			
language_code	smallint		Language code, from LANGUAGE_CODE_REF.			
short_display	varchar (15)	5	Abbreviated version of the display value.			Null
display_value	varchar (240)	80	Text description to display on screen.			

FILES_IN_PROCESS

Dynamic. Lists files being processed from FILE_STATUS. Admin table.

Indexes: clustered, unique on server_id, process_name

Foreign Keys: (file_id, file_id_serv) must exist in FILE_STATUS(file_id, file_id_serv)

Field Name	Data Type	Comments		Values	Null
server_id	tinyint	Server ID, from SERVER_DEFINITION.			
process_name	char	8	Process ID (for example, cap01, com04) currently processing this file.		Null
file_id	int		Unique file ID appended to file name. Created by COM for input (is_send = 0) files and by processing modules for output (is_send = 1) files, from FILE_STATUS.		
file_id_serv	tinyint		Server the file goes to or comes from, from FILE_STATUS.		

FILES_TO_PROCESS

Dynamic. Lists files to be processed from FILE_STATUS. Admin table.

Indexes: primary-key on file_id, file_id_serv

Foreign Keys: (file_id, file_id_serv) must exist in FILE_STATUS(file_id, file_id_serv)

Field Name	Data Type	Comments	Values	Null
file_id	int	Unique file ID appended to file name. Created by COM for input (is_send = 0) files and by processing modules for output (is_send = 1) files, from FILE_STATUS.		
file_id_serv	tinyint	Server the file goes to or comes from, from FILE_STATUS.		

FILE_STATUS

Dynamic. Used by COM to handle interactions between external files and other Kenan/BP processes (for example, payments processing). Run the `replicate.ksh` script after modifying this table if the database is in an Oracle multiserver environment. See the *System Administrator Guide* for more information about `replicate.ksh`. Admin table. Read-only copy exists on Customer database.

Used by the following modules: COM, EFT, CAP, MCAP, BIP, and CPM

Dependents: FILES_IN_PROCESS, FILES_TO_PROCESS

Triggers: ext_contact_id exists in EXT_CONTACTS.

Indexes: non-unique on ext_contact_id, file_name
non-unique on file_id_serv, process_name
primary-key on file_id, file_id_serv

Field Name	Data Type	Comments	Values	Null
file_id	int	Unique file ID appended to file name. Created by COM for input (is_send = 0) files and by processing modules for output (is_send = 1) files.		
file_id_serv	tinyint	Server the file goes to or comes from.		
file_group_id	int	ID to associate multiple files; for example, Kenan/BP receives a file and assigns it file_id X. The appropriate Kenan/BP module creates a result file to be sent back to the external system and assigns it file_id Y. Both files receive a common file_group_id to tie together the original and resulting files. file_group_id is determined by Kenan/BP processing module, COM ignores this field.		Null
file_name	char	Simple file name. Directory is in EXT_CONTACTS.arbor_ready, and file_id is appended to the disk file name (for example, if file_name is foo.950704 and file_id is 12, data file name is foo.950704.12).		

Field Name	Data Type	Comments	Values	Null
ctrl_file_name	varchar	80 Name of control file, if used. In MPS, the header and trailer records may be in a separate control file, instead of being the first and last record of data file. In this case, data file must have a .data suffix and ctrl file must have a .ctrl suffix. Like the file_name, the ctrl_file_name also consists of the file_id appended to the disk file name.		Null
ext_contact_id	smallint	External file source and destination, from EXT_CONTACTS. Must be non-Null for output files (is_send = 1).		
ext_file_id	varchar	16 Code or grouping ID used by the external file source to identify the file (other than the file name).		Null
is_send	tinyint	Is this an input/retrieve file (0) or an output/send file (1)? If 1, ext_contact_id for this record should be an output contact.		
file_type	smallint	File type identifier. This is set by the processing module as needed. COM ignores this field.		Null
file_status	tinyint	File status: 1 (retrieved files) = New file from external contact, ready to be processed. (send files) = New file created by Kenan/BP module, ready to send. 2 = A Kenan/BP module is currently processing the file. 3 (send files only) = File successfully sent to external contact. 4 (retrieved files only) = File successfully processed by Kenan/BP module. 5 = Error during file transfer. 6 = Transfer successful, but error during processing. 7 = File has been identified for type. 9 = Transfer failed, no further attempts will be made. 10 = File processed successfully (MCAP/CAP).	(R: 1, 2, 3, 4, 5, 6, 7, 9, 10, 11, 12, 16)	

Field Name	Data Type	Comments	Values	Null
error_code	int	Error causing file processing failure, from SYSTEM_MESSAGES.		Null
entry_create_dt	datetime	For input files, this is roughly the date and time the file was retrieved. For output files, this is roughly the date and time the file was created.		
file_process_dt	datetime	Date and time file was last processed, even if processing errored out.		Null
file_byte_count	int	File info to help verify success/failure of file transfer. This is populated when COM or Kenan/BP processing module creates this entry.		
num_failed_attempts	int	Number of times this file has failed processing.		
current_rec_no	int	Last record processed within file; enables modules to continue processing after a failure without having to reprocess the entire file.		
total_records	int	Total number of data records in file.		Null
num_good	int	Total number of good records.		Null
num_soft_errors	int	Number of "soft," or correctable errors.		Null
num_hard_errors	int	Number of "hard," or non-correctable errors.		Null
num_discarded	int	Number of records discarded (not saved in database). Includes incomplete calls, non-billing status info, and so on.		Null
num_pass_thru	int	Number of pass-through or non-billable records that have no billing implication but are saved in the database anyway (for example, CDR_FREE records).		Null
checksum1	int	Sum of primary_units fields on incoming usage.		Null
checksum2	int	Sum of secondary_units fields on incoming usage.		Null

Field Name	Data Type	Comments	Values	Null
checksum3	int	Sum of third_units fields on incoming usage.		Null
corrected_records	int	Number of errored records (soft or hard) that have been corrected.		
written_off_records	int	Number of errored records (soft or hard) that have been written off (in other words, no further processing will be attempted).		
process_name	varchar	8	Process ID (for example, cap01, com04) currently processing this file.	
change_dt	smalldt		Date and time this entry was last modified.	
change_who	char	30	Process ID (for example, bip01, cap01) of the process that last modified the record.	

FILE_TYPE_REF

Configurable. Stores the different outcollect file types (for example, TAP2, EMR, or MPS Centex) as well as file types corresponding to FILE_STATUS.file_type. Admin table.

Used by the following modules: TOP

Dependents: EXT_CONTACTS, FILE_TYPE_VALUES

Indexes: primary-key on file_type

Field Name	Data Type	Comments	Values	Null
file_type	smallint	Unique identifier of an outcollect file type.	(D: 0)	
is_default	bit	Is this value default? (1 = yes) Only one row can be default.	(D: 0)	
is_internal	bit	If 1, Kenan/BP modules require this record; do not delete or modify.	(D: 0)	

FILE_TYPE_VALUES

Configurable. Describes file types defined in FILE_TYPE_REF Admin table.

Indexes: primary-key on file_type, language_code

Foreign Keys: (file_type) must exist in FILE_TYPE_REF(file_type)
 (language_code) must exist in LANGUAGE_CODE_REF(language_code)

Field Name	Data Type	Comments		Values	Null
file_type	smallint		File type identifier, from FILE_TYPE_REF.		
language_code	smallint		Language code, from LANGUAGE_CODE_REF.		
short_display	varchar (15)	5	Abbreviated version of the display value.		Null
display_value	varchar (240)	80	Text description to display on screen.		

FRANCHISE_CODE_REF

Configurable. Defines franchise code numbers. Admin table. Read-only copy exists on Customer database.

Used by the following modules: CUSTINFO, BIF

Dependents: FRANCHISE_CODE_VALUES, RATE_LATE_FEE, TAX_ASSIGNMENTS

Triggers: Only one row can have is_default = 1.

Indexes: This table has no indexes.

Field Name	Data Type	Comments	Values	Null
franchise_code	smallint	Unique franchise identifier.	(R: != 0)	
is_default	bit	Is this value default? (1 = yes) Only one row can be default.	(D: 0)	
is_internal	bit	If 1, Kenan/BP modules require this record; do not delete or modify.	(D: 0)	
tax_exception	int	Applies to Canadian provinces and territories. Does the political unit represented by this franchise code participate in the two-out-of-three rule determining the origin of toll calls for calculating GST (Federal Goods and Services Tax) and PST (Provincial Sales Tax)? (1 = yes) Null or 0 mean no.		Null

FRANCHISE_CODE_VALUES

Configurable. Describes franchise codes defined in FRANCHISE_CODE_REF. Admin table. Read-only copy exists on Customer database.

Indexes: primary-key on franchise_code, language_code

Foreign Keys: (language_code) must exist in LANGUAGE_CODE_REF(language_code)
 (franchise_code) must exist in FRANCHISE_CODE_REF(franchise_code)

Field Name	Data Type	Comments			Values	Null
franchise_code	smallint		Franchise code, from FRANCHISE_CODE_REF.			
language_code	smallint		Language code, from LANGUAGE_CODE_REF.			
short_display	varchar (15)	5	Abbreviated version of the display value.			Null
display_value	varchar (240)	80	Text description to display on screen.			

GENDER_REF

Configurable. Defines gender code numbers. Admin table. Read-only copy exists on Customer database.

Used by the following modules: CUSTINFO

Dependents: CMF, CONTACTS, GENDER_VALUES

Indexes: primary-key on gender

Field Name	Data Type	Comments	Values	Null
gender	smallint	Gender of customer; requires LOCATION sysparm = 1 (Japanese). Valid genders are Male, Female, Company, and Unknown.		
is_default	bit	Is this value default? (1 = yes) Only one row can be default.	(D: 0)	
is_internal	bit	If 1, Kenan/BP modules require this record; do not delete or modify.	(D: 0)	

GENDER_VALUES

Configurable. Describes gender codes defined in GENDER_REF Admin table. Read-only copy exists on Customer database.

Used by the following modules: CUSTINFO

Indexes: primary-key on gender, language_code

Foreign Keys: (gender) must exist in GENDER_REF(gender)

(language_code) must exist in LANGUAGE_CODE_REF(language_code)

Field Name	Data Type	Comments	Values	Null
gender	smallint	Gender of customer; requires LOCATION sysparm = 1 (Japanese). Valid genders are Male, Female, Company, and Unknown.		
language_code	smallint	Language code, from LANGUAGE_CODE_REF.		
short_display	varchar (15)	Abbreviated version of the display value.		Null
display_value	varchar (240)	Text description to display on screen.		

GENERIC_ENUMERATION_REF

Configurable. Allows for the creation of new enumerations, eliminating the need to create new table definitions. Admin table. Read-only copy exists on Customer database.

Dependents: GENERIC_ENUMERATION_VALUES

Triggers: Only one row can have `is_default = 1`.

Indexes: primary-key on `enumeration_key, value`

Field Name	Data Type	Comments		Values	Null
enumeration_key	varchar	32	Unique identifier for this enumeration.		
value	varchar	32	One possible internal value for this key, as a string.		
is_default	bit		1 if this is the default value for this key, 0 otherwise.	(D: 0)	
is_internal	bit		1 if this key/value is required by the system, 0 otherwise.	(D: 0)	

GENERIC_ENUMERATION_VALUES

Configurable. Describes enumerations defined in GENERIC_ENUMERATION_REF. Admin table. Read-only copy exists on Customer database.

Indexes: primary-key on enumeration_key, value, language_code

Foreign Keys: (enumeration_key, value) must exist in GENERIC_ENUMERATION_REF(enumeration_key, value)
 (language_code) must exist in LANGUAGE_CODE_REF(language_code)

Field Name	Data Type		Comments	Values	Null
enumeration_key	varchar	32	Identifier for this enumeration, from GENERIC_ENUMERATION_REF.		
value	varchar	32	One possible internal value for this key, as a string.		
language_code	smallint		Language code, from LANGUAGE_CODE_REF.		
short_display	varchar (15)	5	Abbreviated version of the display value.		Null
display_value	varchar (240)	80	Text description to display on screen.		

GEOCODE_OVERRIDES

Configurable. Stores custom geocode or taxable location for specific charge types and/or regions. Admin table. Read-only copy exists on Customer database.

Triggers: Ensure that country_code and franchise_code exist in appropriate tables or are 0.
 If charge_elt_type is not equal to 3, tax_location cannot be 4, 5, 7, 8, 9, or 13.
 If charge_elt_type is 0, charge_elt_id must be 0.
 Ensure that tax_location and charge_elt_id are appropriate for charge_elt_type.
 franchise_code and state_code must be 0 when country_code is 0.
 county_code must be 0 when state_code is 0.
 city_code must be 0 when county_code is 0.
 charge_elt_id must be 0 when charge_elt_type is 0.
 Ensure that one and only one of tax_location or override_geocode is set.

Indexes: primary-key on charge_elt_type, charge_elt_id, country_code, franchise_code, state_code, county_code, city_code

Field Name	Data Type	Comments	Values	Null
charge_elt_type	smallint	Type of charge for which the geocode applies: 0 = all charges 1 = recurring charge 2 = non-recurring charge 3 = usage charge	(D: 0) (R: 0, 1, 2, 3)	
charge_elt_id	int	From PRODUCT_ELEMENTS.element_id if charge_elt_type = 1. From NRC_TRANS_DESCR.type_id_nrc if charge_elt_type = 2. From USAGE_TYPES.type_id_usg if charge_elt_type = 3. 0 (all charge types) if charge_elt_type = 0.	(D: 0)	
country_code	smallint	Country component of original geocode (from COUNTRY_CODE_REF), or 0 (all countries).	(D: 0)	

Field Name	Data Type	Comments	Values	Null
franchise_code	smallint	Franchise component of original geocode (from FRANCHISE_CODE_REF), or 0 (all franchises).	(D: 0)	
state_code	smallint	State component of original geocode without leading zeros, or 0 (all).	(D: 0)	
county_code	smallint	County component of original geocode without leading zeros, or 0 (all).	(D: 0)	
city_code	smallint	City component of original geocode without leading zeros, or 0 (all).	(D: 0)	

Field Name	Data Type	Comments	Values	Null
priority	tinyint	Higher values indicate higher priorities.	(D: 0)	
tax_location	tinyint	<p>New taxable location for charge:</p> <p>0 = non-taxable 1 = CMF.bill_geocode 2 = CMF.cust_geocode 3 = SERVICE.service_geocode 4 = CDR_DATA.point_tax_code_origin (usage only) 5 = CDR_DATA.point_tax_code_target (usage only) 7 = composite (2 out of 3 rule) from 1, 4, and 5 (usage only) 8 = composite (2 out of 3 rule) from 2, 4, and 5 (usage only) 9 = composite (2 out of 3 rule) from 3, 4, and 5 (usage only) 13 = based on CMF.bill_geocode and the billing address, supported only by certain Custom tax packages (usage only) 14 = SERVICE.b_service_geocode 15 = composite (2 out of 3 rule) from 1, 4, and 5; if no match and the franchise code has a tax_exception value 1, use franchise code of the origin geocode 16 = composite (2 out of 3 rule) from 3, 4, and 5; if not match and the franchise code has a tax_exception value 1, use franchise code of the origin geocode 17 = 2 out of 3 rule applied to CMF.bill_geocode, SERVICE.service_geocode, and SERVICE.b_service_geocode 18 = 2 out of 3 rule applied to CMF.cust_geocode, SERVICE.service_geocode, and SERVICE.b_service_geocode </p>	(R: != 11)	Null
override_geocode	varchar	15	Hardcoded geocode to use as taxable location.	Null

GLOBAL_ACCOUNT_BALANCES

Configurable. Defines balances owned by a given account. Admin table. Read-only copy exists on Customer database.

Triggers: A row for this table must exist in SEQ_NUM.

SEQ_NUM is automatically updated.

Active and inactive date ranges cannot overlap.

Indexes: primary-key on balance_tracking_id

unique on open_item_id, regulatory_id, active_dt

Check Constraints: (ORACLE ONLY) open_item_id is in OPEN_ITEM_ID_REF.

(ORACLE ONLY) active_dt <= inactive_dt

Field Name	Data Type	Comments	Values	Null
balance_tracking_id	int	Tracking ID of account balance.	(D: 0)	
balance_tracking_id_serv	smallint	Not used; always 0.	(D: 0) (R: = 0)	
balance_account_no	int	Not used; always 0.	(D: 0) (R: = 0)	
open_item_id	int	Open item ID, defined in OPEN_ITEM_ID_REF.		Null
is_balance_prepaid	tinyint	Not used, always 0.	(D: 0) (R: = 0)	
authorization_flag	tinyint	Not used, always 0.	(D: 0) (R: = 0)	
regulatory_id	smallint	Identifies the jurisdiction to which this account is subject.		Null
priority	smallint	Higher value indicates higher priority. Controls how undesignated payments and credits are applied to balances.		
balance_desc	varchar(255)	Not used, always Null.	(R: is null)	Null
language_code	smallint	Not used, always Null.	(R: is null)	Null
create_dt	datetime	Date and time the balance was created.		
active_dt	datetime	Date and time the balance became inactive.		

Field Name	Data Type	Comments		Values	Null
inactive_dt	datetime		Date and time the balance became active.		Null
chg_dt	datetime		Date and time this record was last modified.		
chg_who	varchar	30	The username or process ID (for example, bip01, cap01) of the user/process that last modified this record.		

GLOBAL_OPEN_ITEM_ID_MAP

Configurable. Editable copy of OPEN_ITEM_ID_MAP, which defines the balances against which various charges are mapped. Admin table. Read-only copy exists on Customer database.

Triggers: active_dt cannot be updated.

charge_element_value must have the proper value according to charge_element_type, as described below.

Active and inactive date ranges cannot overlap.

On insert, a row must exist in SEQ_NUM for this table.

SEQ_NUM is automatically updated.

Indexes: non-unique on balance_account_no, open_item_id, charge_element_type, charge_element_value
non-unique on account_no, subscr_no, subscr_no_resets, charge_element_type, charge_element_value
primary-key on tracking_id, tracking_id_serv

Foreign Keys: (open_item_id) must exist in OPEN_ITEM_ID_REF(open_item_id)

Check Constraints: active_dt <= inactive_dt

Field Name	Data Type	Comments	Values	Null
tracking_id	int	Tracking ID, unique with tracking_id_serv for this mapping.	(D: 0)	
tracking_id_serv	smallint	Not used, always 0.	(D: 0) (R: = 0)	
account_no	int	Not used, always 0.	(D: 0) (R: = 0)	
subscr_no	int	Not used, always 0.	(D: 0) (R: = 0)	
subscr_no_resets	smallint	Not used, always 0.	(D: 0) (R: = 0)	

Field Name	Data Type	Comments	Values	Null
charge_element_type	tinyint	Type of charge element in this mapping: 0 = All 1 = Recurring charge 2 = Non-recurring charge 3 = Usage	(R: 0, 1, 2, 3)	
charge_element_value	int	Value of the charge element: 0 if charge_element_type is 0 element_id if charge_element_type is 1 type_id_nrc if charge_element_type is 2 type_id_usg if charge_element_type is 3 0 matches all values.		
balance_account_no	int	Not used, always 0.	(D: 0) (R: = 0)	
open_item_id	int	Open item ID, from OPEN_ITEM_ID_REF.		
active_dt	datetime	Date when this mapping becomes active.		
inactive_dt	datetime	Date when this mapping becomes inactive.		Null
chg_dt	datetime	Date and time this record was last modified.		
chg_who	varchar	Username or process ID (for example, bip01, cap01) that last modified record.		
order_level	int	Order in which rows are processed.		

GROUP_AMOUNT

Configurable. Defines the maximum currency amounts of an adjustment or refund that each user group is authorized to make. Admin table. Read-only copy exists on Customer database.

Used by the following modules: CUSTINFO

Triggers: group_name exists in SYBASE table, sysusers or Oracle table, DBA_ROLE_PRIVS.

Indexes: primary-key on group_name, currency_code, module_name

Foreign Keys: (currency_code) must exist in RATE_CURRENCY_REF(currency_code)

Field Name	Data Type	Comments	Values	Null
group_name	char	User group name.		
currency_code	smallint	Currency code, from RATE_CURRENCY_REF.		
max_amount	numeric	18 Maximum amount of adjustment/refund members of the group can make, or -1 (no limit).		
module_name	smallint	Function this amount is associated with: 0 = adjustment 1 = refund 2 = bonus point 3 = credit nrc	(R: 0, 1, 2, 3)	

GROUP_FUNCTION

Configurable. Controls the Kenan/BP functions that each user group has permission to access. Admin table. Read-only copy exists on Customer database.

Used by the following modules: CUSTINFO, EFT, COL

Triggers: group_name exists in Sybase table, sysusers or Oracle table, DBA_ROLE_PRIVS.

Indexes: primary-key on group_name, module_name

Field Name	Data Type	Comments	Values	Null
group_name	varchar	30	User group name.	
module_name	char	30	Function that users within the Sybase group are allowed to access through the Kenan/BP GUI. See the Kenan/BP <i>System Administrator Guide</i> for more information.	

GROUP_TYPE_REF

Configurable. Defines valid group types. Admin table. Read-only copy exists on Customer database.

Used by the following modules: CUSTINFO, BIP

Dependents: EXTERNAL_ID_GROUP_MAP, GROUP_TYPE_VALUES

Triggers: Only one row can have is_default = 1.

Indexes: primary-key on group_type

Check Constraints: group_level in (2,3) or group_type_restrictions = 0

Field Name	Data Type	Comments	Values	Null
group_type	smallint	Unique identifier of a group type.		
group_level	smallint	Level of group: 1 = Account level. 2 = Service instance level. 3 = Either account or service level.	(R: 1, 2, 3)	
allow_contracts	bit	Indicate if a contract can be provisioned to the group type. (0 = yes)	(D: 0)	
group_type_restrictions	smallint	Restrictions on the group type: 0 = No restrictions. 1 = All members must share the same owning account.	(R: 0, 1)	
converted	bit	Conversion flag for use during database upgrades: 0 = not converted 1 = modified since last conversion (if any) 2 = converted		
is_default	bit	Is this value default? (1 = yes) Only one row can be default.	(D: 0)	
is_internal	bit	If 1, Kenan/BP modules require this record; do not delete or modify.	(D: 0)	

GROUP_TYPE_VALUES

Configurable. Describes group types defined in GROUP_TYPE_REF. Admin table. Read-only copy exists on Customer database.

Used by the following modules: CUSTINFO, BIP

Indexes: primary-key on group_type, language_code

Foreign Keys: (language_code) must exist in LANGUAGE_CODE_REF(language_code)
 (group_type) must exist in GROUP_TYPE_REF(group_type)

Field Name	Data Type	Comments	Values	Null
group_type	smallint	Unique identifier of a group type, from GROUP_TYPE_REF.		
language_code	smallint	Language code, from LANGUAGE_CODE_REF.		
short_display	varchar (15)	Abbreviated version of the display value.		Null
display_value	varchar (240)	Text description to display on screen.		

GSM_ROAMING AGREEMENT

Configurable. Stores contact information and roaming agreement details for mobile carriers. Admin table. Read-only copy exists on Customer database.

Triggers: currency_code exists in RATE_CURRENCY_REF if not Null or 0.

currency_code cannot be Null or 0 if plmn_type = 1.

If plmn_type = 3, ext_contact_id_out cannot be Null. If plmn_type = 2, ext_contact_id_out must be Null.

Ensure that only one operator_id exists for each ext_contact_id_in and each ext_contact_id_out value.

Indexes: primary-key on operator_id

unique on plmn_name, active_dt

Foreign Keys: (country_code) must exist in COUNTRY_CODE_REF(country_code)

(operator_id) must exist in ROAMING_OPERATOR_REF(operator_id)

(ext_contact_id_in) must exist in EXT_CONTACTS(ext_contact_id)

(ext_contact_id_out) must exist in EXT_CONTACTS(ext_contact_id)

(rate_key_id) must exist in ROAMING_RATE_KEYS(rate_key_id)

Field Name	Data Type		Comments	Values	Null
operator_id	int		Roaming operator ID, from ROAMING_OPERATOR_REF.		
rate_key_id	smallint		Roaming rate key ID, from ROAMING_RATE_KEYS.		
plmn_name	char	5	Official PLMN name in file names, headers, trailers, and delivery notes.		
mobile_country_code	smallint		Mobile Country Code component of the IMSI.		Null
mobile_network_code	smallint		Mobile Network Code component of the IMSI.		Null
national_destination_code	int		National destination code of the MSISDN that belongs to the PLMN.		
version_in	char	5	TAP file version number for incoming files from this PLMN.		

Field Name	Data Type	Comments	Values	Null
version_out	char	5	TAP file version number for outgoing files to this PLMN.	
tax_treatment	char	1	Tax treatment: Y: Tax included in the charge. N: Tax not included. X: Tax not applicable (also used for clearinghouses).	(R: Y,'N','X')
max_days_in	smallint		Number of days after call date by which call data must be received from this PLMN. Two months (~60) is a typical value.	
max_days_out	smallint		Number of days after call date by which call data must be sent to this PLMN. Two months (~60) is typical.	
plmn_tape_volser_name	varchar	3	Used on tape labels to identify the PLMN.	Null
plmn_type	tinyint		PLMN type: 1: Home operator. 2: Other PLMN. 3: Clearinghouse.	(R: 1, 2, 3)
plmn_address1	varchar	75	Contact information for PLMN.	Null
plmn_address2	varchar	75	Contact address for PLMN.	Null
plmn_address3	varchar	75	Contact address for PLMN.	Null
plmn_city	varchar	35	Contact city for PLMN.	Null
plmn_state	varchar	28	Contact state for PLMN.	Null
plmn_zip	varchar	16	Contact zip code for PLMN.	Null
plmn_contact_name	varchar	60	Contact name for PLMN.	Null
plmn_contact_phone	varchar	20	Contact phone number for PLMN.	Null
plmn_contact_faxno	varchar	20	Contact fax number for PLMN.	Null
plmn_description	varchar	80	Description of PLMN.	Null
country_code	smallint		PLMN country code, from COUNTRY_CODE_REF.	

Field Name	Data Type	Comments	Values	Null
currency_code	smallint	PLMN currency code, from RATE_CURRENCY_REF. Required if plmn_type = 1.		Null
ext_contact_id_in	smallint	External source ID for foreign roaming usage, from EXT_CONTACTS.		Null
ext_contact_id_out	smallint	External source ID for local roaming usage, from EXT_CONTACTS.		Null
active_dt	smalldt	Date when this roaming agreement becomes active.		
inactive_dt	smalldt	Date when this agreement becomes inactive.		Null
composite_file	tinyint	Flag. If set to yes (1), indicates that TOP is exchanging composite TAP2 files with GSM roaming clearinghouses. TOP assembles individual files that are destined for multiple VPLMNs into a single composite file, and appends a superheader and supertrailer record. If set to no (0), indicates that TOP is exchanging a single TAP file with GSM roaming partner.	(D: 1)	
notification_interval	tinyint	Maximum number of days this contact can remain uncontacted.		Null
newline_terminate_records	tinyint	Indicates whether TOP will end lines in the output file with newline characters. 1 = TOP will add a newline character to the end of each output record. 0 = TOP will not add a newline character to the end of each output record.	(D: 0)	

GUI_INDICATOR_REF

Configurable. Maps tables and fields in the databases to text elements and value ranges to be included in the user interface. Admin table. Read-only copy exists on Customer database.

Used by the following modules: CUSTINFO

Dependents: GUI_INDICATOR_VALUES

Triggers: Only one row can have `is_default = 1` for a given `table_name/field_name` combination.

Indexes: primary-key on `table_name, field_name, integer_value`

Field Name	Data Type	Comments	Values	Null
<code>field_name</code>	char	30 Database attribute name to be converted to a text value for display by the GUI.		
<code>table_name</code>	char	30 Database table name.		
<code>integer_value</code>	smallint	Possible values of the <code>field_name</code> .		
<code>is_default</code>	bit	Is this value default? (1 = yes) Only one row can be default.	(D: 0)	
<code>is_internal</code>	bit	If 1, Kenan/BP modules require this record; do not delete or modify.	(D: 0)	

GUI_INDICATOR_VALUES

Configurable. Describes entities defined in GUI_INDICATOR_REF. Admin table. Read-only copy exists on Customer database.

Indexes: primary-key on table_name, field_name, integer_value, language_code

Foreign Keys: (language_code) must exist in LANGUAGE_CODE_REF(language_code)
 (table_name, field_name, integer_value) must exist in GUI_INDICATOR_REF(table_name, field_name, integer_value)

Field Name	Data Type	Comments		Values	Null
table_name	char	30	Database attribute name, from GUI_INDICATOR_REF.		
field_name	char	30	Database table name, from GUI_INDICATOR_REF.		
integer_value	smallint		Value for field_name, from GUI_INDICATOR_REF.		
language_code	smallint		Language code, from LANGUAGE_CODE_REF.		
short_display	varchar(15)	5	Abbreviated version of the display value.		Null
display_value	varchar(240)	80	Text description to display on screen.		

GUI_MESSAGES

Static. Holds messages that are included in the Windows NT user interface. Admin table. Read-only copy exists on Customer database.

Used by the following modules: CUSTINFO (NT)

Indexes: primary-key on msg_no, msg_type, language_code, msg_name

Foreign Keys: (language_code) must exist in LANGUAGE_CODE_REF(language_code)

Field Name	Data Type	Comments	Values	Null
msg_no	int	Message number, must be greater than 20,000.		
msg_type	tinyint	Message type.	(R: 1, 2, 3)	
language_code	smallint	Language code, from LANGUAGE_CODE_REF.		
msg_name	varchar	60	A brief description or title for the message.	
msg_text	varchar	255	Text of the message to display.	

INDUSTRY_TYPE_REF

Configurable. Defines valid industry types. Admin table. Read-only copy exists on Customer database.

Used by the following modules: CUSTINFO

Dependents: EMF_CONFIGURATION, INDUSTRY_TYPE_VALUES

Triggers: Only one row can have is_default = 1.

Indexes: primary-key on industry_type

Field Name	Data Type	Comments	Values	Null
industry_type	smallint	Unique identifier of an industry type.	(R: != 0)	
use_address_server	bit	Used by Kenan/OM.		
is_e911_required	bit	Should the e911 information screens be accessed? (1 = yes)		
is_lidb_required	bit	Should the input screens for the Line Information Database be accessed? (1 = yes)		
is_pic_required	bit	Should the input screens associated with Primary Interexchange Carrier be accessed? (1 = yes)		
is_dadl_used	bit	Should the input screens associated with Directory Assistance Directory Listing be accessed? (1 = yes)		
is_calling_card_used	bit	Should the input screens associated with a calling card be accessed? (1 = yes)		
is_default	bit	Is this value default? (1 = yes) Only one row can be default.	(D: 0)	
is_internal	bit	If 1, Kenan/BP modules require this record; do not delete or modify.	(D: 0)	

INDUSTRY_TYPE_VALUES

Configurable. Contains language-dependent description information for industry types. Admin table. Read-only copy exists on Customer database.

Used by the following modules: CUSTINFO

Indexes: primary-key on industry_type, language_code

Foreign Keys: (industry_type) must exist in INDUSTRY_TYPE_REF(industry_type)
 (language_code) must exist in LANGUAGE_CODE_REF(language_code)

Field Name	Data Type	Comments	Values	Null
industry_type	smallint	Industry type, from INDUSTRY_TYPE_REF.		
language_code	smallint	Language code, from LANGUAGE_CODE_REF.	(D: 1)	
short_display	varchar (15)	5 Short text description.		Null
display_value	varchar (240)	80 Text description to display on screen.		

INSERT_FOREIGN_KEY_REF

Configurable. Defines valid client-specific key field values for BILL_INSERT_GROUPS table. Admin table. Read-only copy exists on Customer database.

Dependents: BILL_INSERT_GROUPS, INSERT_FOREIGN_KEY_VALUES

Triggers: Only one row can have is_default = 1.

Indexes: primary-key on insert_foreign_key

Field Name	Data Type	Comments	Values	Null
insert_foreign_key	int	Unique client-specific key field value.		
is_default	bit	Is this value default? (1 = yes) Only one row can be default.	(D: 0)	
is_internal	bit	If 1, Kenan/BP modules require this record; do not delete or modify.	(D: 0)	

INSERT_FOREIGN_KEY_VALUES

Configurable. Describes key fields defined in `INSERT_FOREIGN_KEY_REF`. Admin table. Read-only copy exists on Customer database.

Indexes: primary-key on `insert_foreign_key, language_code`

Foreign Keys: (`language_code`) must exist in `LANGUAGE_CODE_REF(language_code)`
 (`insert_foreign_key`) must exist in `INSERT_FOREIGN_KEY_REF(insert_foreign_key)`

Field Name	Data Type	Comments		Values	Null
<code>insert_foreign_key</code>	int	Key field value, from <code>INSERT_FOREIGN_KEY_REF</code> .			
<code>language_code</code>	smallint	Language code, from <code>LANGUAGE_CODE_REF</code> .		(D: 1)	
<code>short_display</code>	varchar (15)	Short text description of the key field value.			Null
<code>display_value</code>	varchar (240)	Text description to display on screen.			

INSERT_GRP_ID_REF

Configurable. Defines customer groups used to control who receives specific bill inserts. The groups listed in this table are included in a selection list of valid insert groups within the user interface. Admin table. Read-only copy exists on Customer database.

Used by the following modules: CUSTINFO, BIF

Dependents: BILL_INSERT_GROUPS, CMF_INSERTS, INSERT_GRP_ID_VALUES

Triggers: Only one row can have `is_default = 1`.

Indexes: primary-key on `insert_grp_id`

Field Name	Data Type	Comments	Values	Null
insert_grp_id	smallint	Unique internal ID of a specific insert group.		
is_default	bit	Is this value default? (1 = yes) Only one row can be default.	(D: 0)	
is_internal	bit	If 1, Kenan/BP modules require this record; do not delete or modify.	(D: 0)	
max_inserts	smallint	The maximum number of inserts allowed to be included with a single invoice. Set to Null if all inserts in the group are included in every bill for accounts that are assigned to that group.		Null

INSERT_GRP_ID_VALUES

Configurable. Describes insert groups defined in `INSERT_GRP_ID_REF`. Admin table. Read-only copy exists on Customer database.

Indexes: primary-key on `insert_grp_id`, `language_code`

Foreign Keys: (`language_code`) must exist in `LANGUAGE_CODE_REF(language_code)`
 (`insert_grp_id`) must exist in `INSERT_GRP_ID_REF(insert_grp_id)`

Field Name	Data Type	Comments			Values	Null
<code>insert_grp_id</code>	smallint		Insert group ID, from <code>INSERT_GRP_ID_REF</code> .			
<code>language_code</code>	smallint		Language code, from <code>LANGUAGE_CODE_REF</code> .			
<code>short_display</code>	varchar (15)	5	Abbreviated version of the display value.			Null
<code>display_value</code>	varchar (240)	80	Text description to display on screen.			

IO_DEVICES

Configurable. Associates internal usage type identifiers (for example, print, tape output, and so on) with actual UNIX devices, defined in DEVICES. Admin table. Read-only copy exists on Customer database.

Used by the following modules: BID

Triggers: If `usage_type = P`, `device_id` must be in DEVICES.

Indexes: primary-key on `usage_type`, `server_id`

Field Name	Data Type		Comments	Values	Null
server_id	tinyint		Server ID, to uniquely identify row.		
usage_type	char	1	Usage type code: P = print F = FTP		
usage_desc	char (96)	32	If <code>usage_type = f</code> , stores remote machine name. If <code>usage_type = P</code> , stores device description.		
device_id	char	32	If <code>usage_type = f</code> , stores remote username. If <code>usage_type = P</code> , stores internal ID from DEVICES.		
device_class	varchar	16	If <code>usage_type = f</code> , stores remote password. If <code>usage_type = P</code> , not used.		Null
device_options	varchar	80	If <code>usage_type = f</code> , stores destination directory name. If <code>usage_type = P</code> , stores printer command-line options.		Null

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ADJ_TRANS_DESCR	27[A1]	BILL_INVOICE_TAX	92[CC]
<i>annotation2</i>		BMF	99[CC]
NRC	262[CC]	BMF_UNAPPLIED	107[CC]
NRC_VIEW	269[CC]	CDR_BILLED	115[CC]
<i>applied_status</i>		CDR_DATA	121[CC]
BMF_UNAPPLIED	105[CC]	CDR_DATA_WORK	122[A1]
<i>apply_during_suspend</i>		CDR_FREE	130[CC]
CONTRACT_TYPES	181[A1]	CDR_OUTCOLLECTS	128[A1]
<i>arbor_detail</i>		CIBER_INCOLLECTS	140[A1]
EXT_CONTACTS	254[A1]	CIBER_INCOLLECTS_ERROR	145[A1]
<i>arbor_done</i>		CONTRACT_UNIT_CR	182[CC]
EXT_CONTACTS	252[A1]	CUSTOMER_CONTRACT_KEY	194[CC]
<i>arbor_error</i>		JNL_DETAIL	243[CC]
EXT_CONTACTS	252[A1]	JNL_INVOICE_AUDIT	246[CC]
		JNL_KEYS	29[A2]

JNL_KEYS_DEFAULT	35[A2]	<i>arch_rows_restored</i>	
JNL_TRANS	250[CC]	ARCH_TABLE_STAT	60[CC]
LBX_ERROR	57[A2]	<i>arch_run_criteria</i>	
LBX_POST_DATED	64[A2]	ARCH_RUN_BATCH	59[CC]
NRC_KEY	265[CC]	<i>arch_run_id</i>	
PRODUCT_KEY	287[CC]	ARCH_FILE_LOG	56[CC]
USAGE_POINTS	326[A2]	ARCH_RECORD_DETAIL	57[CC]
<i>arch_granularity</i>		ARCH_RUN_BATCH	58[CC]
ARCH_RUN_BATCH	58[CC]	ARCH_TABLE_STAT	60[CC]
<i>arch_key</i>		<i>arch_run_id_serv</i>	
ARCH_RECORD_DETAIL	57[CC]	ARCH_FILE_LOG	56[CC]
<i>arch_key_fld_nm</i>		ARCH_RECORD_DETAIL	57[CC]
ARCH_TABLE_DEPENDS_REF	39[A1]	ARCH_RUN_BATCH	58[CC]
<i>arch_key_resets</i>		ARCH_TABLE_STAT	60[CC]
ARCH_RECORD_DETAIL	57[CC]	<i>arch_seq</i>	
<i>arch_key_resets_fld_nm</i>		ARCH_RECORD_DETAIL	57[CC]
ARCH_TABLE_DEPENDS_REF	39[A1]	<i>arch_start_dt</i>	
<i>arch_keys_archived</i>		ARCH_RUN_BATCH	58[CC]
ARCH_RUN_BATCH	58[CC]	<i>arch_status</i>	
<i>arch_keys_counted</i>		ARCH_RUN_BATCH	58[CC]
ARCH_RUN_BATCH	58[CC]	<i>arch_table_id</i>	
<i>arch_keys_deleted</i>		ARCH_FILE_LOG	56[CC]
ARCH_RUN_BATCH	58[CC]	ARCH_TABLE_DEPENDS_REF	39[A1]
<i>arch_keys_restored</i>		ARCH_TABLE_STAT	60[CC]
ARCH_RUN_BATCH	58[CC]	<i>arch_table_nm</i>	
<i>arch_last_seq</i>		ARCH_TABLE_DEPENDS_REF	39[A1]
ARCH_FILE_LOG	56[CC]	<i>arch_type_id</i>	
<i>arch_lock</i>		ARCH_RUN_BATCH	58[CC]
ARCH_RECORD_DETAIL	57[CC]	ARCH_TABLE_DEPENDS_REF	39[A1]
<i>arch_mode_id</i>		ARCH_TYPE_REF	40[A1]
ARCH_MODE_REF	37[A1]	ARCH_TYPE_VALUES	41[A1]
ARCH_MODE_VALUES	38[A1]	<i>arp</i>	
ARCH_RUN_BATCH	58[CC]	CIBER_LINE_RANGES	147[A1]
<i>arch_output_mode</i>		<i>assoc_enumeration_id</i>	
ARCH_RUN_BATCH	59[CC]	PARAM_DEF	116[A2]
<i>arch_owner</i>		CMF_COMPONENT_ELEMENT	161[CC]
ARCH_RECORD_DETAIL	57[CC]	<i>association_id</i>	
<i>arch_restored</i>		CMF_COMPONENT_ELEMENT	161[CC]
ARCH_RECORD_DETAIL	57[CC]	<i>association_id_serv</i>	
<i>arch_rows_archived</i>		CMF_COMPONENT_ELEMENT	161[CC]
ARCH_TABLE_STAT	60[CC]	<i>association_type</i>	
<i>arch_rows_counted</i>		CMF_COMPONENT_ELEMENT	161[CC]
ARCH_TABLE_STAT	60[CC]	<i>att_expected_date</i>	
<i>arch_rows_deleted</i>		ABI_INVOICE	36[CC]
ARCH_TABLE_STAT	60[CC]	<i>authorization_flag</i>	
		ACCOUNT_BALANCES	42[CC]
		GLOBAL_ACCOUNT_BALANCES	284[A1]

<i>auto_activation</i>		<i>b_servicecity</i>	
PRODUCT	280[CC]	SERVICE	329[CC]
PRODUCT_ELEMENTS	157[A2]	SERVICE_VIEW	340[CC]
PRODUCT_VIEW	293[CC]	<i>b_service_company</i>	
<i>auto_credit_code</i>		SERVICE	329[CC]
PRODUCT_ELEMENTS	156[A2]	SERVICE_VIEW	340[CC]
<i>auto_post_delay</i>		<i>b_service_country_code</i>	
CLEARING_HOUSE_CONTACTS	157[A1]	SERVICE	329[CC]
<i>aux_tax_info</i>		SERVICE_BILLING	334[CC]
ADJ	50[CC]	SERVICE_VIEW	341[CC]
ADJ_TAX	53[CC]	<i>b_service_county</i>	
BILL_INVOICE_DETAIL	86[CC]	SERVICE	329[CC]
BILL_INVOICE_TAX	93[CC]	SERVICE_VIEW	340[CC]
CDR_BILLED	115[CC]	<i>b_service_fname</i>	
CDR_DATA	119[CC]	SERVICE	329[CC]
CDR_DATA_TAX	126[CC]	SERVICE_VIEW	340[CC]
<i>avail_amount</i>		<i>b_service_franchise_tax_code</i>	
CONTRACT_UNIT_CR	182[CC]	SERVICE	330[CC]
<i>avail_periods</i>		SERVICE_BILLING	334[CC]
CUSTOMER_CONTRACT_KEY	194[CC]	SERVICE_VIEW	341[CC]
<i>avail_units</i>		<i>b_service_geocode</i>	
CONTRACT_UNIT_CR	181[CC]	SERVICE	330[CC]
<i>avs_address_id</i>		SERVICE_BILLING	334[CC]
CCARD_LIST	109[CC]	SERVICE_VIEW	341[CC]
<i>avs_response_code</i>		<i>b_service_iname</i>	
CCARD_AVNS_RESPONSE_CODES	93[A1]	SERVICE	329[CC]
CCARD_LIST	110[CC]	SERVICE_VIEW	340[CC]
<i>awarded_quantum_type</i>		<i>b_service_minit</i>	
CDR_DATA_DUC	124[CC]	SERVICE	329[CC]
B		SERVICE_VIEW	340[CC]
<i>b_rev_rcv_cost_ctr</i>		<i>b_service_phone</i>	
ADJ	51[CC]	SERVICE	329[CC]
BILL_INVOICE_DETAIL	89[CC]	SERVICE_VIEW	340[CC]
SERVICE	328[CC]	<i>b_service_phone2</i>	
SERVICE_BILLING	333[CC]	SERVICE	329[CC]
SERVICE_VIEW	340[CC]	SERVICE_VIEW	341[CC]
<i>b_service_address1</i>		<i>b_service_state</i>	
SERVICE	329[CC]	SERVICE	329[CC]
SERVICE_VIEW	340[CC]	SERVICE_VIEW	340[CC]
<i>b_service_address2</i>		<i>b_service_zip</i>	
SERVICE	329[CC]	SERVICE	329[CC]
SERVICE_VIEW	340[CC]	SERVICE_VIEW	340[CC]
<i>b_service_address3</i>		<i>backout_status</i>	
SERVICE	329[CC]	BILL_INVOICE	69[CC]
SERVICE_VIEW	340[CC]	<i>balance_120_day</i>	
		AGED_BALANCES	54[CC]
		REPORTAGED_BALANCES	309[CC]

<i>balance_150_day</i>		<i>bank_agency_code</i>	
AGED_BALANCES	54[CC]	CMF	143[CC]
<i>balance_180_day</i>		EFT_TRANS	220[CC]
AGED_BALANCES	54[CC]	<i>bank_agency_name</i>	
<i>balance_30_day</i>		CMF	143[CC]
AGED_BALANCES	54[CC]	EFT_TRANS	220[CC]
REPORT_AGED_BALANCES	309[CC]	<i>bank_code</i>	
<i>balance_60_day</i>		CMF	144[CC]
AGED_BALANCES	54[CC]	<i>base_amt</i>	
REPORT_AGED_BALANCES	309[CC]	CDR_DATA	119[CC]
<i>balance_90_day</i>		CDR_DATA_WORK	120[A1]
AGED_BALANCES	54[CC]	CDR_FREE	128[CC]
REPORT_AGED_BALANCES	309[CC]	CDR_OUTCOLLECTS	127[A1]
<i>balance_account_no</i>		CIBER_INCOLLECTS	138[A1]
ACCOUNT_BALANCES	41[CC]	CIBER_INCOLLECTS_ERROR	143[A1]
GLOBAL_ACCOUNT_BALANCES	284[A1]	<i>base_currency</i>	
GLOBAL_OPEN_ITEM_ID_MAP	287[A1]	RATE_CURRENCY	172[A2]
OPEN_ITEM_ID_MAP	273[CC]	<i>base_table</i>	
<i>balance_chg_date</i>		EXT_PARAM_TYPE_ASSOC	261[A1]
ADJ	51[CC]	<i>basic_days</i>	
<i>balance_desc</i>		TAX_PKG_INST_ID_REF	288[A2]
ACCOUNT_BALANCES	42[CC]	<i>basis</i>	
GLOBAL_ACCOUNT_BALANCES	284[A1]	HISTORIC_CONTRIBUTION_TAX	236[CC]
<i>balance_due</i>		<i>batch_balance</i>	
CMF_BALANCE	151[CC]	BMF_BATCH	101[CC]
CMF_BALANCE_DETAIL	154[CC]	<i>batch_id</i>	
REPORT_COL_ACT_LIST	316[CC]	BILL_BATCHES	61[CC]
<i>balance_gt_180_day</i>		BILL_FILES	62[CC]
AGED_BALANCES	54[CC]	BILL_TAPES	95[CC]
<i>balance_tracking_id</i>		BMF	98[CC]
ACCOUNT_BALANCES	41[CC]	BMF_BATCH	101[CC]
GLOBAL_ACCOUNT_BALANCES	284[A1]	BMF_UNAPPLIED	106[CC]
<i>balance_tracking_id_serv</i>		LBX_ERROR	57[A2]
ACCOUNT_BALANCES	41[CC]	LBX_POST_DATED	64[A2]
GLOBAL_ACCOUNT_BALANCES	284[A1]	REPORT_PAY_DETAIL	326[CC]
<i>balance_xfer_diff</i>		<i>batch_id_serv</i>	
BALANCE_XFER_DIFF_REF	46[A1]	BMF	98[CC]
BALANCE_XFER_DIFF_VALUES	47[A1]	BMF_BATCH	101[CC]
<i>bam_error_code</i>		BMF_UNAPPLIED	106[CC]
BAM_ERROR_CODE_REF	48[A1]	LBX_ERROR	57[A2]
BAM_ERROR_CODE_VALUES	49[A1]	LBX_POST_DATED	64[A2]
<i>band</i>		<i>batch_seq_num</i>	
CIBER_SID_BID_DEF	152[A1]	ROAMING_TRANSFER_DETAIL	232[A2]
<i>bank_account_type</i>		ROAMING_TRANSFER_TAX_DETAIL	
CMF	144[CC]	236[A2]	

<i>batch_seq_num_in</i>		<i>bill_company</i>	
SERVICE_PROVIDERS_REF	253[A2]	BILL_IMAGE	64[CC]
<i>batch_seq_num_out</i>		CMF	138[CC]
SERVICE_PROVIDERS_REF	253[A2]	REPORT_ACCT_VOL	306[CC]
<i>batch_status</i>		REPORT_COL	315[CC]
BMF_BATCH	101[CC]	REPORT_COL_ACT_LIST	316[CC]
<i>batch_total</i>		SERVER_LOOKUP	29[CC]
CC_BALANCE	99[A1]		
<i>batch_type</i>		<i>bill_company_find</i>	
LBX_ERROR	56[A2]	SERVER_LOOKUP	29[CC]
LBX_POST_DATED	63[A2]	CMF	139[CC]
OUTCOLLECT_BATCH_SEQ_NUM	103[A2]	<i>bill_country_code</i>	
<i>bi_currency_code</i>		CMF	139[CC]
REPORT_BILLED_REV	312[CC]	<i>bill_date</i>	
<i>bill_address1</i>		BILL_IMAGE	64[CC]
CMF	139[CC]	<i>bill_disp_meth</i>	
SERVER_LOOKUP	30[CC]	BILL_DISP_METH_REF	57[A1]
<i>bill_address2</i>		BILL_DISP_METH_VALUES	58[A1]
CMF	139[CC]	BILL_INVOICE	68[CC]
<i>bill_address3</i>		CMF	141[CC]
CMF	139[CC]	<i>bill_fmt_opt</i>	
<i>bill_aggr_level</i>		BILL_ADDRESS	52[A1]
USAGE_TYPES	332[A2]	BILL_FMT_OPT_REF	59[A1]
<i>bill_category_type</i>		BILL_FMT_OPT_VALUES	60[A1]
ABI_TEXT	39[CC]	BILL_SECTIONS	81[A1]
<i>bill_city</i>		BILL_SIZE	82[A1]
CMF	139[CC]	CMF	141[CC]
SERVER_LOOKUP	30[CC]	<i>bill_fname</i>	
<i>bill_class</i>		BILL_IMAGE	64[CC]
BILL_CLASS_REF	54[A1]	CMF	138[CC]
BILL_CLASS_VALUES	55[A1]	REPORT_ACCT_VOL	306[CC]
BILL_INVOICE_DETAIL	90[CC]	REPORT_COL	315[CC]
CDR_DATA	117[CC]	REPORT_COL_ACT_LIST	316[CC]
CDR_DATA_WORK	118[A1]	SERVER_LOOKUP	29[CC]
CDR_FREE	127[CC]	<i>bill_fname_find</i>	
CDR_OUTCOLLECTS	125[A1]	SERVER_LOOKUP	29[CC]
CIBER_INCOLLECTS	139[A1]	<i>bill_franchise_tax_code</i>	
CIBER_INCOLLECTS_ERROR	144[A1]	CMF	139[CC]
RATE_PERIODS	186[A2]	<i>bill_geocode</i>	
RATE_USAGE	196[A2]	CMF	139[CC]
RATE_USAGE_OVERRIDES	202[A2]	BILL_INVOICE	69[CC]
UNIT_CR_RATE_LIMIT	317[A2]	CMF	141[CC]
USAGE_JURISDICTION	324[A2]	REPORT_INVOICE	322[CC]
<i>bill_class_type</i>			
BILL_CLASS_REF	54[A1]		

<i>bill_image</i>		PRODUCT_VIEW	293[CC]
BILL_IMAGE	64[CC]	REPORT_INVOICE	322[CC]
<i>bill_in_arrears</i>		UNIT_CREDIT_PROFILES	349[CC]
PRODUCT_ELEMENTS	155[A2]	<i>bill_period_or_date_chg</i>	
<i>bill_invoice_row</i>		ETUC_UPDATES	228[CC]
BILL_INVOICE_DETAIL	72[CC]	<i>bill_ref_no</i>	
BILL_INVOICE_DISCOUNT	91[CC]	ABI_INVOICE	36[CC]
BILL_INVOICE_TAX	92[CC]	ADJ	49[CC]
CDR_BILLED	115[CC]	BILL_IMAGE	64[CC]
REPORT_DISCOUNT	318[CC]	BILL_INVOICE	66[CC]
REPORT_INVOICE	323[CC]	BILL_INVOICE_DETAIL	72[CC]
TCU_DET REP	346[CC]	BILL_INVOICE_DISCOUNT	91[CC]
<i>bill_lname</i>		BILL_INVOICE_TAX	92[CC]
BILL_IMAGE	64[CC]	BILL_REF_NO	94[CC]
CMF	138[CC]	BILL_REF_NO_MASTER	80[A1]
REPORT_ACCT_VOL	306[CC]	BILL_TAPES	95[CC]
REPORT_COL	315[CC]	BMF	97[CC]
REPORT_COL_ACT_LIST	316[CC]	BMF_DISTRIBUTION	102[CC]
SERVER_LOOKUP	29[CC]	CCARD_TRANS	111[CC]
<i>bill_lname_find</i>		CDR_BILLED	114[CC]
SERVER_LOOKUP	29[CC]	CMF_BALANCE	150[CC]
<i>bill_minit</i>		CMF_BALANCE_DETAIL	153[CC]
CMF	138[CC]	CMF_BALANCE_TAX	156[CC]
<i>bill_name_generation</i>		CMF_BONUS_POINT	158[CC]
CMF	138[CC]	CMF_POINT_BALANCE	175[CC]
<i>bill_name_pre</i>		CONTRACT_UNIT_CR	181[CC]
CMF	137[CC]	EFT_TRANS	218[CC]
<i>bill_order_number</i>		ERROR_BILL	225[CC]
ADJ	51[CC]	HISTORIC_CONTRIBUTION	234[CC]
BILL_INVOICE	71[CC]	JNL_DETAIL	241[CC]
BMF	100[CC]	JNL_INVOICE_AUDIT	246[CC]
BMF_UNAPPLIED	107[CC]	JNL_WORK_LIST	252[CC]
CMF_INTERIM_BILLS	167[CC]	JNL_WRITEOFF	253[CC]
NRC	262[CC]	LBX_ERROR	56[A2]
NRC_VIEW	270[CC]	LBX_POST_DATED	63[A2]
<i>bill_period</i>		NRC_KEY	265[CC]
BILL_CYCLE	56[A1]	PREPAYMENT	276[CC]
BILL_INVOICE	67[CC]	REFINANCE_PLAN	302[CC]
BILL_PERIOD_REF	78[A1]	REPORT_ADJ	307[CC]
BILL_PERIOD_VALUES	79[A1]	REPORT_BED	310[CC]
CMF	141[CC]	REPORT_BILLED_REV	313[CC]
CONTRACT_TYPES	180[A1]	REPORT_COL	315[CC]
CUSTOMER_CONTRACT	190[CC]	REPORT_COL_ACT_LIST	317[CC]
CUSTOMER_CONTRACT_VIEW	200[CC]	REPORT_DISCOUNT	318[CC]
ETUC_UPDATES	226[CC]	REPORT_INVOICE	322[CC]
PRODUCT	281[CC]	TCU_DET REP	346[CC]
PRODUCT_CHARGE_MAP	284[CC]		

<i>bill_ref_resets</i>		<i>bill_subcategory_id</i>	
ABI_INVOICE	36[CC]	ABI_TEXT	39[CC]
ADJ	49[CC]	<i>bill_title</i>	
BILL_IMAGE	64[CC]	CMF	138[CC]
BILL_INVOICE	66[CC]	<i>bill_while_suspended</i>	
BILL_INVOICE_DETAIL	72[CC]	PRODUCT_ELEMENTS	158[A2]
BILL_INVOICE_DISCOUNT	91[CC]	<i>bill_zip</i>	
BILL_INVOICE_TAX	92[CC]	CMF	139[CC]
BILL_REF_NO	94[CC]	SERVER_LOOKUP	30[CC]
BILL_REF_NO_MASTER	80[A1]	<i>billable_amount</i>	
BILL_TAPES	95[CC]	ABI_TEXT	40[CC]
BMF	97[CC]	<i>billable_line_ind</i>	
BMF_DISTRIBUTION	102[CC]	ABI_TEXT	39[CC]
CCARD_TRANS	111[CC]	<i>billed_account_no</i>	
CDR_BILLED	114[CC]	ACCOUNT_BILLED_SERVICES	43[CC]
CMF_BALANCE	150[CC]	UNIT_CREDIT_PROFILES	349[CC]
CMF_BALANCE_DETAIL	153[CC]	<i>billed_amount</i>	
CMF_BALANCE_TAX	156[CC]	CDR_BILLED	114[CC]
CMF_BONUS_POINT	158[CC]	<i>billed_amount_reduction</i>	
CMF_POINT_BALANCE	175[CC]	CDR_BILLED	115[CC]
CONTRACT_UNIT_CR	181[CC]	<i>billed_base_amt</i>	
EFT_TRANS	218[CC]	CDR_BILLED	114[CC]
ERROR_BILL	225[CC]	<i>billed_city_tax</i>	
HISTORIC_CONTRIBUTION	234[CC]	CDR_BILLED	115[CC]
JNL_DETAIL	241[CC]	<i>billed_county_tax</i>	
JNL_INVOICE_AUDIT	246[CC]	CDR_BILLED	115[CC]
JNL_WORK_LIST	252[CC]	<i>billed_dt</i>	
JNL_WRITEOFF	253[CC]	JNL_DETAIL	242[CC]
LBX_ERROR	56[A2]	<i>billed_federal_tax</i>	
LBX_POST_DATED	63[A2]	CDR_BILLED	115[CC]
NRC_KEY	265[CC]	<i>billed_num_records</i>	
PREPAYMENT	276[CC]	CDR_BILLED	115[CC]
REFINANCE_PLAN	302[CC]	<i>billed_other_tax</i>	
REPORT_BED	311[CC]	CDR_BILLED	115[CC]
REPORT_BILLED_REV	313[CC]	<i>billed_state_tax</i>	
REPORT_COL	315[CC]	CDR_BILLED	115[CC]
REPORT_COL_ACT_LIST	317[CC]	<i>billed_thru_dt</i>	
REPORT_DISCOUNT	318[CC]	PRODUCT_CHARGE_MAP	284[CC]
REPORT_INVOICE	322[CC]	<i>billed_unrounded_amount</i>	
TCU_DET REP	346[CC]	CDR_BILLED	115[CC]
<i>bill_sequence_num</i>		<i>billing_account_no</i>	
BILL_INVOICE	66[CC]	NRC	261[CC]
CMF	137[CC]	NRC_VIEW	268[CC]
<i>bill_state</i>		PRODUCT	281[CC]
CMF	139[CC]	PRODUCT_CHARGE_MAP	284[CC]
SERVER_LOOKUP	30[CC]	PRODUCT_VIEW	293[CC]

<i>billing_active_dt</i>		CDR_OUTCOLLECTS	127[A1]
PRODUCT	281[CC]	RATE_USAGE	197[A2]
PRODUCT_VIEW	293[CC]	RATE_USAGE_OVERRIDES	203[A2]
<i>billing_category</i>		USAGE_TYPES_UNITS	342[A2]
ADJ_TRANS_DESCR	26[A1]	<i>billrunid</i>	
BILL_FORMAT_DISPLAY_TYPES	69[A1]	BILLRUN_LIMBOED_ACCTS	17[CC]
BILL_INVOICE_DETAIL	78[CC]	<i>bin_rounding</i>	
BMF_TRANS_DESCR	85[A1]	TAX_PKG_INST_ID_REF	290[A2]
<i>billing_frequency</i>		<i>bit_end</i>	
BILL_CYCLE	56[A1]	RECORD_FIELD_DEF	208[A2]
BILLING_FREQUENCY_REF	50[A1]	RECORD_FIELD_DEF	208[A2]
BILLING_FREQUENCY_VALUES	51[A1]	<i>bmf_error_text</i>	
CMF	141[CC]	BMF_UNAPPLIED	105[CC]
ETUC_UPDATES	227[CC]	<i>bmf_source_type</i>	
PACKAGE_COMPONENT_MEMBERS	110[A2]	JNL_WRITEOFF	254[CC]
RATE_AGGR_USAGE	167[A2]	<i>bmf_tracking_id</i>	
RATE_DISCOUNT	179[A2]	BMF_DISTRIBUTION	102[CC]
RATE_DISCOUNT_OVERRIDES	297[CC]	BMF_UNAPPLIED	105[CC]
RATE_LATE_FEE	181[A2]	CCARD_TRANS	112[CC]
RATE_RC	191[A2]	EFT_TRANS	219[CC]
RATE_UNIT_CR	194[A2]	JNL_WRITEOFF	254[CC]
RATE_UNIT_CR_OVERRIDES	300[CC]	PREPAYMENT_DISTRIBUTION	278[CC]
TAX_RATES_VAT	293[A2]	<i>bmf_tracking_id_serv</i>	
UNIT_CREDIT_PROFILES	349[CC]	BMF_DISTRIBUTION	102[CC]
<i>billing_inactive_dt</i>		BMF_UNAPPLIED	105[CC]
PRODUCT	281[CC]	CCARD_TRANS	112[CC]
PRODUCT_VIEW	293[CC]	EFT_TRANS	219[CC]
<i>billing_level</i>		JNL_WRITEOFF	254[CC]
ADJ_TRANS_DESCR	27[A1]	PREPAYMENT_DISTRIBUTION	278[CC]
BILL_FORMAT_DISPLAY_TYPES	69[A1]	<i>bmf_trans_category</i>	
BILL_INVOICE_DETAIL	77[CC]	BMF_TRANS_DESCR	85[A1]
REPORT_BILLED_REV	313[CC]	<i>bmf_trans_type</i>	
REPORT_INVOICE	323[CC]	BMF	97[CC]
<i>billing_no</i>		BMF_DISTRIBUTION	103[CC]
ABI_INVOICE	36[CC]	BMF_TRANS_DESCR	84[A1]
<i>billing_service_center</i>		BMF_UNAPPLIED	105[CC]
ACCT_SEG_MAP	20[A1]	CCARD_TRANS	111[CC]
<i>billing_units_type</i>		EFT_TRANS	219[CC]
CDR_DATA	119[CC]	LBX_PAYMENT_TYPES	62[A2]
CDR_DATA_WORK	120[A1]	REPORT_PAY_DETAIL	326[CC]
CDR_FREE	129[CC]	<i>bonus_point_id</i>	
		BONUS_POINT_ID_REF	86[A1]
		BONUS_POINT_ID_VALUES	88[A1]
		CMF_BONUS_POINT	158[CC]
		CONTRACT_TYPES	179[A1]
		RATE_BONUS_POINT	169[A2]

<i>bonus_point_trans_category</i>		<i>cardinality</i>	
BONUS_POINT_TRANS_TYPE_REF	89[A1]	PROCESS_WORK	140[A2]
		PROCESS_WORK_CARDINAL_REF	142[A2]
<i>bonus_point_trans_type</i>		PROCESS_WORK_CARDINAL_VALUES	143[A2]
BONUS_POINT_TRANS_TYPE_REF	89[A1]	PROCESS_WORK_RATE_SUCCESS_DEF	144[A2]
BONUS_POINT_TRANS_TYPE_VALUES	91[A1]	PROCESS_WORK_STATUS	146[A2]
CMF_BONUS_POINT	158[CC]	PROCESS_WORK_STATUS_DEF	150[A2]
<i>booked</i>		PROCESS_WORK_UNIT_SUCCESS_DEF	151[A2]
CMF_BALANCE_TAX	156[CC]		
<i>booked_current</i>		<i>carrier</i>	
CMF_BALANCE_TAX	156[CC]	CIBER_SID_BID_DEF	152[A1]
<i>branch_code</i>		<i>carrier_code</i>	
CMF	144[CC]	CIBER_LINE_RANGES	146[A1]
<i>branch_name</i>		<i>carrier_id_code</i>	
CMF	144[CC]	SERVICE_PROVIDERS_REF	253[A2]
<i>brand_id</i>		<i>cat_char</i>	
TAX_ASSIGNMENTS	275[A2]	RECORD_FIELD_MAP	211[A2]
<i>bu_ps_code_cr</i>		<i>category</i>	
JNL_CUSTOM	13[A2]	PROCESS_QUEUE	132[A2]
<i>bu_ps_code_db</i>		SYSTEM_MESSAGES	268[A2]
JNL_CUSTOM	12[A2]	<i>cb_currency_code</i>	
<i>bytes_appended_last</i>		REPORT_BILLED_REV	312[CC]
USAGE_MASTER_FILE_STATUS	352[CC]	<i>cc_trans_status</i>	
		CCARD_TRANS	112[CC]
<i>bytes_appended_total</i>		<i>cc_trans_type</i>	
USAGE_MASTER_FILE_STATUS	352[CC]	CCARD_TRANS	111[CC]
		<i>ccard_account</i>	
C		CCARD_LIST	109[CC]
<i>calculation_type</i>		<i>ccard_carrier</i>	
LATE_FEE_TYPES	54[A2]	CCARD_AV_RESPONSE_CODES	93[A1]
<i>call_direction</i>		CCARD_LIST	109[CC]
CIBER_INCOLLECTS	137[A1]	CCARD_TYPE_CODE_REF	97[A1]
CIBER_INCOLLECTS_ERROR	142[A1]	<i>ccard_expire</i>	
<i>called_place</i>		CCARD_LIST	109[CC]
CIBER_INCOLLECTS	139[A1]	<i>ccard_id</i>	
CIBER_INCOLLECTS_ERROR	144[A1]	ADJ	50[CC]
<i>called_state_prov</i>		BILL_INVOICE_DETAIL	85[CC]
CIBER_INCOLLECTS	139[A1]	BMF	99[CC]
CIBER_INCOLLECTS_ERROR	144[A1]	BMF_UNAPPLIED	107[CC]
<i>capability_url</i>		CCARD_LIST	109[CC]
EXT_IPDR_FS_ACCESS	257[A1]	CCARD_TRANS	112[CC]
		CDR_DATA	120[CC]
		CDR_DATA_WORK	120[A1]
		CDR_FREE	129[CC]

CDR_OUTCOLLECTS	127[A1]	<i>cell_id_origin</i>	
NRC	262[CC]	CDR_DATA	121[CC]
NRC_VIEW	270[CC]	CDR_DATA_WORK	123[A1]
REFUND	305[CC]	CDR_FREE	130[CC]
<i>ccard_id_serv</i>		CDR_OUTCOLLECTS	128[A1]
ADJ	50[CC]	<i>cell_name</i>	
BILL_INVOICE_DETAIL	85[CC]	CELL_ID_REF	131[A1]
BMF	99[CC]	<i>cell_name_origin</i>	
BMF_UNAPPLIED	107[CC]	CDR_DATA_WORK	123[A1]
CCARD_LIST	109[CC]	<i>certificate</i>	
CCARD_TRANS	112[CC]	CMF_EXEMPT	163[CC]
CDR_DATA	120[CC]	<i>cgi_url</i>	
CDR_DATA_WORK	120[A1]	NET_INTERFACE_ACTIONS	86[A2]
CDR_FREE	129[CC]	<i>ch_format_type</i>	
CDR_OUTCOLLECTS	127[A1]	CLEARING_HOUSE_CONTACTS	156[A1]
NRC	262[CC]	<i>change_dt</i>	
NRC_VIEW	270[CC]	ACCOUNT_MOVE_STATUS	16[CC]
REFUND	305[CC]	CPM_CYCLE_STATUS	184[CC]
<i>ccard_ownr_name</i>		EFT_CYCLE_STATUS	217[CC]
CCARD_LIST	109[CC]	EXT_CONTACTS	253[A1]
<i>ccard_type_code</i>		FILE_STATUS	272[A1]
CCARD_TYPE_CODE_RANGE	96[A1]	RATE_AGGR_USAGE	168[A2]
CCARD_TYPE_CODE_REF	97[A1]	RATE_USAGE	197[A2]
CCARD_TYPE_CODE_VALUES	98[A1]	SDR_EXCHANGE_RATES	243[A2]
<i>ccauth_code</i>		USAGE_MASTER_FILE_STATUS	
CCARD_TRANS	112[CC]		353[CC]
<i>ccauth_date</i>		<i>change_who</i>	
CCARD_TRANS	113[CC]	EXT_CONTACTS	253[A1]
<i>cdr_adj_error</i>		FILE_STATUS	272[A1]
CDR_ADJ_ERROR_REF	100[A1]	RATE_AGGR_USAGE	168[A2]
CDR_ADJ_ERROR_VALUES	101[A1]	RATE_USAGE	197[A2]
<i>cdr_data_partition_key</i>		SDR_EXCHANGE_RATES	243[A2]
CDR_BILLED	114[CC]	<i>char_value</i>	
CDR_DATA	117[CC]	ATM_POPLIST_REF	44[A1]
CDR_DATA_DUC	123[CC]	ATM_POPLIST_VALUES	45[A1]
CDR_DATA_TAX	125[CC]	SYSTEM_PARAMETERS	270[A2]
CDR_RERATED	132[CC]	<i>charge_date</i>	
CDR_UNBILLED	134[CC]	JNL_WRITEOFF	253[CC]
<i>cdr_status</i>		<i>charge_domain</i>	
CDR_DATA	120[CC]	UI_CHARGE_DISPLAY_FORMAT	
CDR_DATA_WORK	121[A1]		309[A2]
CDR_FREE	130[CC]	<i>charge_element_type</i>	
CDR_OUTCOLLECTS	128[A1]	GLOBAL_OPEN_ITEM_ID_MAP	287[A1]
<i>cell_id</i>		OPEN_ITEM_ID_MAP	273[CC]
CELL_ID_REF	131[A1]	<i>charge_element_value</i>	
CELL_ID_VALUES	132[A1]	GLOBAL_OPEN_ITEM_ID_MAP	287[A1]
CELL_ID_ZONE_ID_MAP	133[A1]	OPEN_ITEM_ID_MAP	273[CC]

<i>charge_elt_id</i>		CDR_CHECK_SUM_3	107[A1]
GEOCODE_OVERRIDES	281[A1]	CDR_CHECK_SUM_4	108[A1]
TAX_ASSIGNMENTS	276[A2]	CDR_CHECK_SUM_5	109[A1]
TAX_CHARGE_ELEMENTS	277[A2]	CDR_CHECK_SUM_6	110[A1]
TAX_CODES_COMM	281[A2]	CDR_CHECK_SUM_7	111[A1]
TAX_ELEM_DEFAULT_LOC	284[A2]	CDR_CHECK_SUM_8	112[A1]
TAX_OVERRIDES	286[A2]	CDR_CHECK_SUM_9	113[A1]
TAX_THRESHOLDS	297[A2]	<i>check_sum2</i>	
<i>charge_elt_type</i>		CDR_CHECK_SUM_1	102[A1]
GEOCODE_OVERRIDES	281[A1]	CDR_CHECK_SUM_10	103[A1]
TAX_ASSIGNMENTS	276[A2]	CDR_CHECK_SUM_11	104[A1]
TAX_CHARGE_ELEMENTS	277[A2]	CDR_CHECK_SUM_12	105[A1]
TAX_CODES_COMM	281[A2]	CDR_CHECK_SUM_2	106[A1]
TAX_ELEM_DEFAULT_LOC	284[A2]	CDR_CHECK_SUM_3	107[A1]
TAX_OVERRIDES	286[A2]	CDR_CHECK_SUM_4	108[A1]
TAX_THRESHOLDS	297[A2]	CDR_CHECK_SUM_5	109[A1]
<i>charge_id</i>		CDR_CHECK_SUM_6	110[A1]
UI_CHARGE_DISPLAY_FORMAT	309[A2]	CDR_CHECK_SUM_7	111[A1]
		CDR_CHECK_SUM_8	112[A1]
		CDR_CHECK_SUM_9	113[A1]
<i>charge_modifier_name</i>		<i>checksum1</i>	
RE_CHARGE_MODIFIER	226[A2]	FILE_STATUS	271[A1]
<i>charge_modifier_value</i>		<i>checksum2</i>	
RE_CHARGE_MODIFIER	226[A2]	FILE_STATUS	271[A1]
<i>charge_order</i>		<i>checksum3</i>	
PRODUCT	281[CC]	FILE_STATUS	272[A1]
PRODUCT_VIEW	294[CC]	<i>chg_date</i>	
<i>charge_threshold</i>		ADJ	50[CC]
CMF	143[CC]	BMF	99[CC]
<i>charge_type</i>		BMF_BATCH	101[CC]
ABI_TEXT	39[CC]	BMF_DISTRIBUTION	103[CC]
RATE_CURRENCY	171[A2]	BMF_UNAPPLIED	106[CC]
TCU_DET REP	346[CC]	CCARD_TRANS	112[CC]
<i>charged_party_status</i>		CMF	143[CC]
TAP_MAPPING	274[A2]	CMF_BALANCE	151[CC]
<i>check_amount</i>		CMF_BALANCE_DETAIL	154[CC]
LBX_ERROR	56[A2]	CMF_NOTES	171[CC]
LBX_POST_DATED	63[A2]	CUSTOMER_SERVICE_CENTERS	
<i>check_digit_alg</i>		DEPOSIT	213[CC]
CCARD_TYPE_CODE_REF	97[A1]	EFT_TRANS	214[CC]
<i>check_num</i>		PREPAYMENT	219[CC]
REFUND	305[CC]	PREPAYMENT_DISTRIBUTION	277[CC]
<i>check_sum1</i>		PROCESS_STATUS	139[A2]
CDR_CHECK_SUM_1	102[A1]	REFINANCE_PLAN	302[CC]
CDR_CHECK_SUM_10	103[A1]	SERVICE_CENTERS	248[A2]
CDR_CHECK_SUM_11	104[A1]		
CDR_CHECK_SUM_12	105[A1]		
CDR_CHECK_SUM_2	106[A1]		

chg_dt			
ACCOUNT_BALANCES	42[CC]	CMF	143[CC]
ADDRESS	44[CC]	CMF_BALANCE	151[CC]
CIBER_INCOLLECTS	140[A1]	CMF_BALANCE_DETAIL	154[CC]
CIBER_INCOLLECTS_ERROR	145[A1]	CMF_BONUS_POINT	158[CC]
CMF_STATUS_HISTORY	176[CC]	CMF_INSERTS	166[CC]
CONTACTS	177[CC]	CMF_MESSAGES	170[CC]
CUSTOMER_CORRIDORS	204[CC]	CMF_NOTES	171[CC]
EPR_BATCH_WORK	237[A1]	CMF_STATUS_HISTORY	176[CC]
EPR_ERROR	238[A1]	CONTACTS	177[CC]
GLOBAL_ACCOUNT_BALANCES	285[A1]	CUSTOMER_CORRIDORS	204[CC]
GLOBAL_OPEN_ITEM_ID_MAP	287[A1]	CUSTOMER_SERVICE_CENTERS	
GROUP_MEMBER	232[CC]	DEPOSIT	214[CC]
GROUPS	230[CC]	GLOBAL_ACCOUNT_BALANCES	285[A1]
HISTORIC_CONTRIBUTION	235[CC]	GLOBAL_OPEN_ITEM_ID_MAP	287[A1]
HISTORIC_CONTRIBUTION_TAX	236[CC]	GROUP_MEMBER	232[CC]
HISTORIC_THRESHOLDS	240[CC]	GROUPS	230[CC]
LBX_ERROR	57[A2]	HISTORIC_CONTRIBUTION	235[CC]
LBX_POST_DATED	64[A2]	HISTORIC_CONTRIBUTION_TAX	236[CC]
NRC	262[CC]	HISTORIC_THRESHOLDS	240[CC]
NRC_VIEW	270[CC]	LBX_ERROR	57[A2]
OPEN_ITEM_ID_MAP	273[CC]	LBX_POST_DATED	64[A2]
PRODUCT	281[CC]	NRC	262[CC]
PRODUCT_RATE_KEY	289[CC]	NRC_VIEW	270[CC]
PRODUCT_VIEW	294[CC]	OPEN_ITEM_ID_MAP	274[CC]
RATE_DISCOUNT_OVERRIDES	298[CC]	PREPAYMENT	276[CC]
RATE_PERIODS	187[A2]	PREPAYMENT_DISTRIBUTION	279[CC]
RATE_UNIT_CR_OVERRIDES	300[CC]	PRODUCT	281[CC]
RATE_USAGE_OVERRIDES	203[A2]	PRODUCT_RATE_KEY	289[CC]
RPU_WORK	327[CC]	PRODUCT_VIEW	294[CC]
SERVICE	330[CC]	RATE_CURRENCY	172[A2]
SERVICE_STATUS	337[CC]	RATE_DISCOUNT_OVERRIDES	298[CC]
SERVICE_VIEW	341[CC]	RATE_PERIODS	187[A2]
TICKLER	303[A2]	RATE_UNIT_CR_OVERRIDES	300[CC]
UNIT_CR_RATE_LIMIT	317[A2]	RATE_USAGE_OVERRIDES	203[A2]
UNIT_CR_RATE_LIMIT_KEYS	318[A2]	REFINANCE_PLAN	302[CC]
UNIT_CREDIT_PROFILES	351[CC]	REPORT_ADJ	307[CC]
XFER_HISTORY	32[CC]	SERVICE	330[CC]
XFER_STATUS	356[CC]	SERVICE_CENTERS	248[A2]
chg_who		SERVICE_STATUS	337[CC]
ACCOUNT_BALANCES	42[CC]	SERVICE_VIEW	341[CC]
ADDRESS	44[CC]	TICKLER	303[A2]
ADJ	50[CC]	UNIT_CR_RATE_LIMIT	317[A2]
BMF_BATCH	101[CC]	UNIT_CR_RATE_LIMIT_KEYS	318[A2]
BMF_DISTRIBUTION	103[CC]	XFER_HISTORY	32[CC]
CIBER_INCOLLECTS	140[A1]	XFER_STATUS	356[CC]
CIBER_INCOLLECTS_ERROR	145[A1]		

<i>chgb_resubmit_delay</i>	CIBER_INCOLLECTS_ERROR	141[A1]
CLEARING_HOUSE_CONTACTS	NRC	263[CC]
<i>child_cols</i>	NRC_VIEW	271[CC]
ARB_TAB_DEPENDS	OUTCOLLECT_BATCH_TAX	104[A2]
<i>child_count</i>	REPORT_INVOICE	323[CC]
CMF	<i>ckf_client_id</i>	
<i>child_nm</i>	CLEARING_HOUSE_INFO	161[A1]
ARB_TAB_DEPENDS	<i>ckf_var_descriptor</i>	
<i>ci</i>	CLEARING_HOUSE_INFO	161[A1]
MOBILE_GLOBAL_CELL_ID	<i>class_of_service_code</i>	
<i>ciber_call_direction</i>	BILL_FORMAT_TEMPLATE	72[A1]
CIBER_ARBOR_USAGE_TYPE_XREF	CLASS_OF_SERVICE_CODE_REF	
	154[A1]	
134[A1]	CLASS_OF_SERVICE_CODE_VALUES	
<i>ciber_operator_type</i>	155[A1]	
CIBER_ROAMING AGREEMENT	COMPONENT_EMF_ELIGIBILITY	
<i>ciber_rec_type</i>	171[A1]	
CIBER_ARBOR_USAGE_TYPE_XREF	EMF_CONFIGURATION	226[A1]
	NRC_TRANS_DESCR	96[A2]
134[A1]	PRODUCT_ELEMENTS	154[A2]
<i>ciber_sid_bid</i>	PROVIDER_CLASS_REF	163[A2]
CELL_ID_REF	RATE_NRC	184[A2]
<i>city</i>	RATE_PERIODS	186[A2]
ADDRESS	RATE_RC	191[A2]
CMF_EXEMPT	RATE_USAGE	196[A2]
TCU_DET REP	RATE_USAGE_OVERRIDES	202[A2]
<i>city_code</i>	ROAMING_RATE_KEYS	231[A2]
CMF_EXEMPT	SERVICE_BILLING	334[CC]
GEOCODE_OVERRIDES	USAGE_JURISDICTION	323[A2]
LATE_FEE_ASSIGNMENT	USAGE_TYPES_SPLIT	341[A2]
TAX_ASSIGNMENTS	USAGE_TYPES_UNITS	342[A2]
TAX_OVERRIDES	<i>class_of_service_value</i>	
TAX_THRESHOLDS	CLASS_OF_SERVICE_CODE_REF	
TCU_DET REP	154[A1]	
ZIPCODE	<i>clearing_house</i>	
<i>city_rate</i>	CC_BALANCE	99[A1]
BILL_INVOICE_TAX	<i>clearing_house_id</i>	
CDR_DATA_TAX	CC_BALANCE	99[A1]
TAX_OVERRIDES	CCARD_AVN_RESPONSE_CODES	93[A1]
<i>city_tax</i>	CCARD_LIST	110[CC]
ADJ	CCARD_RESPONSE_CODE_REF	94[A1]
ADJ_TAX	CCARD_RESPONSE_CODE_VALUES	
BILL_INVOICE_DETAIL	95[A1]	
BILL_INVOICE_TAX	CCARD_TRANS	112[CC]
CDR_DATA_TAX	CLEARING_HOUSE_CONTACTS	156[A1]
CDR_DATA_WORK	CLEARING_HOUSE_DIVISION	158[A1]
CDR_FREE	CLEARING_HOUSE_ID_REF	159[A1]
CDR_OUTCOLLECTS		
CIBER_INCOLLECTS		

CLEARING_HOUSE_ID_VALUES	160[A1]	<i>col_active_flag</i>	315[CC]
CLEARING_HOUSE_INFO	161[A1]	REPORT_COL	317[CC]
CMF	143[CC]	REPORT_COL_ACT_LIST	317[CC]
CPM_CYCLE_STATUS	183[CC]	<i>col_enter_date</i>	314[CC]
EFT_CYCLE_STATUS	216[CC]	REPORT_COL	317[CC]
EFT_RESPONSE_CODE_REF	223[A1]	REPORT_COL_ACT_LIST	317[CC]
EFT_RESPONSE_CODE_VALUES	225[A1]	<i>col_exit_date</i>	314[CC]
EFT_TRANS	219[CC]	REPORT_COL	314[CC]
PAYMENT_FILE_DETAIL	117[A2]	<i>collection_delay</i>	CLEARING_HOUSE_CONTACTS 157[A1]
PAYMENT_FILE_HEADER	118[A2]	<i>collection_history</i>	
PAYMENT_FILE_TRAILER	119[A2]	BILL_INVOICE	70[CC]
SERVICE_PROVIDERS_REF	253[A2]	CMF	142[CC]
<i>closed_date</i>		<i>collection_indicator</i>	
CMF_BALANCE	150[CC]	CMF	142[CC]
CMF_BALANCE_DETAIL	153[CC]	CMF_BALANCE	151[CC]
REPORT_COL_ACT_LIST	317[CC]	CMF_BALANCE_DETAIL	154[CC]
<i>cmf_status</i>		<i>collection_status</i>	
CMF_STATUS_HISTORY	176[CC]	CMF	142[CC]
CMF_STATUS_REF	166[A1]	<i>collections_center</i>	
CMF_STATUS_VALUES	167[A1]	ACCT_SEG_MAP	20[A1]
<i>cmf_status_chg_reason</i>		<i>comb_tax_rate</i>	
CMF_STATUS_CHG_REASON_REF	164[A1]	ADJ	50[CC]
CMF_STATUS_CHG_REASON_VALUES	165[A1]	<i>comments</i>	
CMF_STATUS_HISTORY	176[CC]	CMF_NOTES	171[CC]
<i>cmf_status_type</i>		EMF_MASTER_GROUPS	222[CC]
CMF_STATUS_HISTORY	176[CC]	GROUPS	229[CC]
<i>code</i>		PROCESS_STATUS	139[A2]
ERROR_SEVERITIES	243[A1]	<i>commission_id</i>	
<i>code_type</i>		SALES_CHANNEL_REF	241[A2]
BILL_FORMAT_CODE_TYPE_REF	67[A1]	<i>commitment_amount</i>	
BILL_FORMAT_CODE_TYPE_VALUES	68[A1]	CUSTOMER_CONTRACT_KEY	194[CC]
BILL_FORMAT_TEMPLATE	71[A1]	<i>commitment_currency_code</i>	
<i>code_value</i>		CUSTOMER_CONTRACT_KEY	194[CC]
BILL_FORMAT_TEMPLATE	71[A1]	<i>commitment_reference</i>	
<i>codeword</i>		CONTRACT_TYPES	177[A1]
CMF	142[CC]	CUSTOMER_CONTRACT	191[CC]
SERVER_LOOKUP	30[CC]	CUSTOMER_CONTRACT_VIEW	201[CC]
SERVICE	330[CC]	<i>commitment_type_id_nrc</i>	
SERVICE_VIEW	341[CC]	CONTRACT_TYPES	179[A1]
		<i>comp_status</i>	
		CDR_COMP_STATUS_REF	114[A1]
		CDR_COMP_STATUS_VALUES	115[A1]
		CDR_DATA	120[CC]

CDR_DATA_WORK	121[A1]	<i>component_inst_id</i>	
CDR_FREE	130[CC]	CMF_COMPONENT_ELEMENT	161[CC]
CDR_OUTCOLLECTS	128[A1]	CMF_PACKAGE_COMPONENT	173[CC]
CIBER_INCOLLECTS	137[A1]	<i>component_inst_id_serv</i>	
CIBER_INCOLLECTS_ERROR	142[A1]	CMF_COMPONENT_ELEMENT	161[CC]
<i>comp_status_type</i>		CMF_PACKAGE_COMPONENT	173[CC]
CDR_COMP_STATUS_REF	114[A1]	<i>component_level</i>	
<i>company</i>		COMPONENT_DEFINITION_REF	
CONTACTS	178[CC]		169[A1]
<i>compare_type</i>		<i>component_status</i>	
RECORD_FIELD_MAP	211[A2]	CMF_PACKAGE_COMPONENT	174[CC]
<i>complete_date</i>		<i>composite_file</i>	
XFER_STATUS	356[CC]	GSM_ROAMING AGREEMENT	294[A1]
<i>complete_dt</i>		<i>compressed_size</i>	
CPM_CYCLE_STATUS	184[CC]	BILL_IMAGE	65[CC]
EFT_CYCLE_STATUS	216[CC]	<i>compression_type</i>	
<i>compliance_trans_code</i>		BILL_IMAGE	65[CC]
TAX_CHARGE_ELEMENTS	278[A2]	<i>conditional_type</i>	
<i>component_element_status</i>		RECORD_FIELD_MAP	212[A2]
CMF_COMPONENT_ELEMENT	161[CC]	<i>conditional_value</i>	
<i>component_id</i>		RECORD_FIELD_MAP	212[A2]
BILL_INVOICE_DETAIL	72[CC]	<i>connect_reason</i>	
CDR_DATA	122[CC]	CMF_COMPONENT_ELEMENT	161[CC]
CMF_COMPONENT_ELEMENT	161[CC]	CMF_PACKAGE	172[CC]
CMF_PACKAGE_COMPONENT	173[CC]	CMF_PACKAGE_COMPONENT	174[CC]
COMPONENT_CMF_ELIGIBILITY	168[A1]	CONNECT_REASON_CODES_REF	
COMPONENT_DEFINITION_REF	169[A1]		173[A1]
COMPONENT_DEFINITION_VALUES	170[A1]	CONNECT_REASON_CODES_VALUES	
COMPONENT_EMF_ELIGIBILITY	171[A1]		174[A1]
COMPONENT_NRCS	172[A1]	PRODUCT	281[CC]
NRC_TRANS_DESCR	96[A2]	PRODUCT_VIEW	294[CC]
PACKAGE_COMPONENT_MEMBERS	109[A2]	<i>consolidate_usage</i>	
PACKAGE_COMPONENTS	108[A2]	ACCOUNT_CATEGORY_REF	17[A1]
PRODUCT	283[CC]	USAGE_TYPES	337[A2]
PRODUCT_VIEW	295[CC]	<i>contact_id</i>	
RATE_NRC	184[A2]	CONTACTS	177[CC]
RATE_PERIODS	187[A2]	<i>contact1_name</i>	
RATE_RC	191[A2]	BILL_IMAGE	64[CC]
RATE_USAGE	197[A2]	CMF	139[CC]
RATE_USAGE_OVERRIDES	203[A2]	<i>contact1_phone</i>	
UNIT_CR_RATE_LIMIT	317[A2]	CMF	140[CC]
		<i>contact2_name</i>	
		BILL_IMAGE	64[CC]
		CMF	140[CC]
		<i>contact2_phone</i>	
		CMF	140[CC]

<i>contract_association_type</i>		RATE_DISCOUNT_OVERRIDES	297[CC]
NRC	263[CC]	RATE_UNIT_CR_OVERRIDES	299[CC]
NRC_VIEW	271[CC]	UNIT_CREDIT_PROFILES	349[CC]
PRODUCT	282[CC]		
PRODUCT_VIEW	294[CC]	<i>contract_type</i>	
		CONTRACT_TYPES	177[A1]
<i>contract_category</i>		CUSTOMER_CONTRACT	188[CC]
CONTRACT_TYPES	177[A1]	CUSTOMER_CONTRACT_VIEW	199[CC]
<i>contract_end_dt</i>		UNIT_CREDIT_PROFILES	350[CC]
ETUC_UPDATES	227[CC]		
UNIT_CREDIT_PROFILES	350[CC]	<i>contract_use_code</i>	
		BILL_PERIOD_REF	78[A1]
<i>contract_id</i>		PRODUCT_ELEMENTS	156[A2]
CUSTOMER_CONTRACT	188[CC]		
CUSTOMER_CONTRACT_VIEW	199[CC]	<i>control_file_expected</i>	
		EXT_CONTACTS	253[A1]
<i>contract_level</i>			
CUSTOMER_CONTRACT	189[CC]	<i>conversion_date</i>	
CUSTOMER_CONTRACT_VIEW	199[CC]	EXRATE_CLASS_REF	244[A1]
UNIT_CREDIT_PROFILES	349[CC]		
<i>contract_start_dt</i>		<i>convert_factor</i>	
ETUC_UPDATES	227[CC]	RATE_BONUS_POINT	169[A2]
UNIT_CREDIT_PROFILES	350[CC]	USAGE_UNITS_CONVERT	344[A2]
<i>contract_tracking_id</i>		<i>converted</i>	
CDR_DATA_DUC	123[CC]	BILL_INVOICE	71[CC]
CMF_BONUS_POINT	158[CC]	CMF_BALANCE	152[CC]
ETUC_UPDATES	226[CC]	CMF_BALANCE_DETAIL	155[CC]
HISTORIC_CONTRIBUTION	234[CC]	GROUP_TYPE_REF	290[A1]
HISTORIC_DISCOUNT_TRANS_MAP	238[CC]	PRODUCT_KEY	287[CC]
		SERVICE_KEY	336[CC]
HISTORIC_THRESHOLDS	239[CC]		
NRC	263[CC]	<i>copy_type</i>	
NRC_VIEW	271[CC]	BILL_INVOICE	70[CC]
PRODUCT	282[CC]		
PRODUCT_VIEW	295[CC]	<i>corrected_records</i>	
RATE_DISCOUNT_OVERRIDES	296[CC]	FILE_STATUS	272[A1]
RATE_UNIT_CR_OVERRIDES	299[CC]		
UNIT_CREDIT_PROFILES	349[CC]	<i>corridor_plan_id</i>	
		CDR_DATA	121[CC]
<i>contract_tracking_id_serv</i>		CDR_DATA_WORK	123[A1]
CDR_DATA_DUC	123[CC]	CDR_FREE	130[CC]
CMF_BONUS_POINT	158[CC]	CDR_OUTCOLLECTS	128[A1]
ETUC_UPDATES	226[CC]	CORRIDOR_PLAN_GROUPS	182[A1]
HISTORIC_CONTRIBUTION	234[CC]	CORRIDOR_PLAN_ID_REF	184[A1]
HISTORIC_DISCOUNT_TRANS_MAP	238[CC]	CORRIDOR_PLAN_ID_VALUES	186[A1]
		CUSTOMER_CORRIDORS	204[CC]
HISTORIC_THRESHOLDS	239[CC]	DISCOUNT_DEFINITIONS	209[A1]
NRC	263[CC]	RATE_USAGE_OVERRIDES	201[A2]
NRC_VIEW	271[CC]		
PRODUCT	282[CC]	<i>counter</i>	
PRODUCT_VIEW	295[CC]	AMP_CONSTRAINT_TEMP	55[CC]
		CCARD_TRANS	112[CC]
		EFT_TRANS	219[CC]
		JNL_TRANS	250[CC]

<i>country_code</i>		<i>country_dial_code_origin</i>	
ADDRESS	45[CC]	CDR_DATA	118[CC]
BILL_ADDRESS	52[A1]	CDR_DATA_WORK	119[A1]
CIBER_ROAMING AGREEMENT	151[A1]	CDR_FREE	128[CC]
CMF_EXEMPT	163[CC]	CDR_OUTCOLLECTS	126[A1]
COUNTRY_CODE_REF	187[A1]	CIBER_INCOLLECTS	140[A1]
COUNTRY_CODE_VALUES	188[A1]	CIBER_INCOLLECTS_ERROR	144[A1]
COUNTRY_DIAL_CODES	189[A1]	<i>country_dial_code_target</i>	
GEOCODE_OVERRIDES	281[A1]	CDR_DATA_WORK	119[A1]
GSM_ROAMING AGREEMENT	293[A1]	<i>county</i>	
LATE_FEE_ASSIGNMENT	51[A2]	ADDRESS	45[CC]
MCC_COUNTRY_CODES	72[A2]	CMF_EXEMPT	163[CC]
SERVICE_PROVIDERS_REF	253[A2]	TCU_DET REP	347[CC]
STATE_REF	256[A2]	<i>county_code</i>	
STATE_VALUES	257[A2]	CMF_EXEMPT	163[CC]
TAX_ASSIGNMENTS	275[A2]	GEOCODE_OVERRIDES	282[A1]
TAX_OVERRIDES	287[A2]	LATE_FEE_ASSIGNMENT	51[A2]
TAX_THRESHOLDS	297[A2]	TAX_ASSIGNMENTS	275[A2]
TCU_DET REP	346[CC]	TAX_OVERRIDES	287[A2]
USAGE_POINTS	326[A2]	TAX_THRESHOLDS	297[A2]
<i>country_code_origin</i>		TCU_DET REP	347[CC]
CDR_DATA	118[CC]	ZIPCODE	351[A2]
CDR_DATA_WORK	119[A1]	<i>county_rate</i>	
CDR_FREE	128[CC]	BILL_INVOICE_TAX	93[CC]
CDR_OUTCOLLECTS	126[A1]	CDR_DATA_TAX	126[CC]
CIBER_INCOLLECTS	140[A1]	TAX_OVERRIDES	287[A2]
CIBER_INCOLLECTS_ERROR	144[A1]	<i>county_tax</i>	
CORRIDOR_PLAN_GROUPS	182[A1]	ADJ	50[CC]
COUNTRY_JURISDICTION	190[A1]	ADJ_TAX	52[CC]
CUSTOMER_CORRIDORS	204[CC]	BILL_INVOICE_DETAIL	87[CC]
USAGE_JURISDICTION	324[A2]	BILL_INVOICE_TAX	92[CC]
<i>country_code_target</i>		CDR_DATA_TAX	125[CC]
CDR_DATA	118[CC]	CDR_DATA_WORK	121[A1]
CDR_DATA_WORK	119[A1]	CDR_FREE	129[CC]
CDR_FREE	128[CC]	CDR_OUTCOLLECTS	127[A1]
CDR_OUTCOLLECTS	126[A1]	CIBER_INCOLLECTS	136[A1]
CIBER_INCOLLECTS	140[A1]	CIBER_INCOLLECTS_ERROR	141[A1]
CIBER_INCOLLECTS_ERROR	144[A1]	NRC	263[CC]
CORRIDOR_PLAN_GROUPS	183[A1]	NRC_VIEW	270[CC]
COUNTRY_JURISDICTION	190[A1]	OUTCOLLECT_BATCH_TAX	104[A2]
CUSTOMER_CORRIDORS	204[CC]	REPORT_INVOICE	323[CC]
USAGE_JURISDICTION	324[A2]	<i>cr_note_bill_ref_no</i>	
<i>country_dial_code</i>		BMF	97[CC]
COUNTRY_DIAL_CODES	189[A1]	BMF_UNAPPLIED	105[CC]
<i>cr_note_bill_ref_resets</i>		<i>cr_note_bill_ref_resets</i>	
		BMF	97[CC]
		BMF_UNAPPLIED	105[CC]

<i>create_date</i>		<i>creation_date</i>	
BMF_BATCH	101[CC]	BILL_FILES	62[CC]
<i>create_dt</i>		<i>cred_status</i>	
ACCOUNT_BALANCES	42[CC]	CMF	140[CC]
ACCOUNT_MOVE_STATUS	16[CC]	<i>credit_rating</i>	
ADDRESS	44[CC]	CMF	140[CC]
AGGR_USAGE_DEFINITIONS_REF	30[A1]	<i>credit_thresh</i>	
CDR_DATA_DUC	124[CC]	CMF	140[CC]
CONTACTS	177[CC]	<i>credit_trans_type</i>	
CONTRACT_UNIT_CR	182[CC]	CLEARING_HOUSE_CONTACTS	157[A1]
CPM_CYCLE_STATUS	183[CC]	<i>cross_field_name</i>	
CUSTOMER_CONTRACT_KEY	194[CC]	ATM_FIELD_DEF	43[A1]
CUSTOMER_CORRIDORS	204[CC]	<i>cross_table_name</i>	
CUSTOMER_ID_EQUIP_MAP_KEY	209[CC]	ATM_FIELD_DEF	43[A1]
EFT_CYCLE_STATUS	216[CC]	<i>csr_action</i>	
EMF_MASTER_GROUPS	222[CC]	CSR_AUDIT	185[CC]
EXTERNAL_ID_EQUIP_MAP_KEY	22[CC]	<i>csr_address1</i>	
GLOBAL_ACCOUNT_BALANCES	284[A1]	CSR_INFORMATION	192[A1]
GROUP_MEMBER	232[CC]	<i>csr_address2</i>	
GROUPS	230[CC]	CSR_INFORMATION	192[A1]
NRC_KEY	265[CC]	<i>csr_address3</i>	
OUTCOLLECT_BATCH	101[A2]	CSR_INFORMATION	193[A1]
PRODUCT_KEY	287[CC]	<i>csr_city</i>	
RATE_AGGR_USAGE	168[A2]	CSR_INFORMATION	193[A1]
RATE_CURRENCY	172[A2]	<i>csr_country_code</i>	
RATE_DISCOUNT_OVERRIDES	297[CC]	CSR_INFORMATION	193[A1]
RATE_PERIODS	187[A2]	<i>csr_county</i>	
RATE_UNIT_CR_OVERRIDES	300[CC]	CSR_INFORMATION	193[A1]
RATE_USAGE	197[A2]	<i>csr_email</i>	
RATE_USAGE_OVERRIDES	203[A2]	CSR_INFORMATION	192[A1]
SDR_EXCHANGE_RATES	243[A2]	<i>csr_fname</i>	
SERVICE_KEY	336[CC]	CSR_INFORMATION	192[A1]
TICKLER	302[A2]	<i>csr_id</i>	
UNIT_CR_RATE_LIMIT	317[A2]	CSR_AUDIT	185[CC]
UNIT_CR_RATE_LIMIT_KEYS	318[A2]	<i>csr_lname</i>	
USAGE_MASTER_FILE_STATUS	353[CC]	CSR_INFORMATION	192[A1]
USAGE_PROCESS_FILE_STATUS	354[CC]	<i>csr_minit</i>	
		CSR_INFORMATION	192[A1]
<i>create_who</i>		<i>csr_name</i>	
BMF_BATCH	101[CC]	CSR_ACCT_SEG	191[A1]
<i>created_dt</i>		<i>csr_phone</i>	
JNL_DETAIL	242[CC]	CSR_INFORMATION	192[A1]
JNL_TRANS	249[CC]	<i>csr_state</i>	
		CSR_INFORMATION	193[A1]

<i>csr_title</i>		JNL_TRANS	250[CC]
CSR_INFORMATION	192[A1]	JNL_WORK_LIST	252[CC]
<i>csr_zip</i>		JNL_WRITEOFF	253[CC]
CSR_INFORMATION	193[A1]	LATE_FEE_RATES	53[A2]
<i>csub_cr</i>		LATE_FEE_TYPES	54[A2]
JNL_CUSTOM	12[A2]	LBX_ERROR	56[A2]
<i>csub_cr_final</i>		LBX_POST_DATED	63[A2]
JNL_CUSTOM	12[A2]	LBX_SOURCE_ID_REF	66[A2]
<i>csub_db</i>		NRC	262[CC]
JNL_CUSTOM	12[A2]	NRC_TRANS_DESCR	95[A2]
<i>csub_db_final</i>		NRC_VIEW	269[CC]
JNL_CUSTOM	12[A2]	OUTCOLLECT_BATCH_DETAIL	102[A2]
<i>ctrl_file_dir</i>		OUTCOLLECT_BATCH_TAX	104[A2]
EXT_IPDR_FS_STATUS	258[A1]	PREPAYMENT	277[CC]
<i>ctrl_file_name</i>		PRODUCT_ELEMENTS	157[A2]
FILE_STATUS	270[A1]	PRODUCT_RATE_OVERRIDE	290[CC]
<i>ctrl_file_name_policy</i>		PROVIDER_CLASS_REF	163[A2]
EXT_IPDR_FS_STATUS	258[A1]	RATE_AGGR_USAGE	167[A2]
<i>ctrl_file_no</i>		RATE_BONUS_POINT	169[A2]
EXT_IPDR_FS_STATUS	258[A1]	RATE_CURRENCY	171[A2]
<i>ctrl_file_prefix</i>		RATE_CURRENCY_GROUP	173[A2]
EXT_IPDR_FS_STATUS	258[A1]	RATE_CURRENCY_REF	176[A2]
<i>ctrl_file_suffix</i>		RATE_CURRENCY_VALUES	178[A2]
EXT_IPDR_FS_STATUS	258[A1]	RATE_DISCOUNT	179[A2]
<i>currency_code</i>		RATE_DISCOUNT_OVERRIDES	297[CC]
ADJ	48[CC]	RATE_LATE_FEE	181[A2]
BILL_INVOICE	67[CC]	RATE_NRC	183[A2]
BMF	97[CC]	RATE_RC	191[A2]
BMF_BATCH	101[CC]	RATE_UNIT_CR	194[A2]
BMF_DISTRIBUTION	103[CC]	RATE_UNIT_CR_OVERRIDES	300[CC]
BMF_UNAPPLIED	105[CC]	RATE_USAGE	196[A2]
CCARD_TRANS	111[CC]	RATE_USAGE_IMPLIED_DECIMALS	
CDR_DATA_DUC	124[CC]		200[A2]
CIBER_ROAMING AGREEMENT	151[A1]	RATE_USAGE_OVERRIDES	202[A2]
CLEARING_HOUSE_DIVISION	158[A1]	RE_CHARGE_MODIFIER	226[A2]
CMF	137[CC]	REFUND	305[CC]
CMF_BALANCE	150[CC]	REPORT_ADJ	307[CC]
CMF_BALANCE_DETAIL	153[CC]	REPORTAGED_BALANCES	309[CC]
DEPOSIT	214[CC]	REPORT_BED	311[CC]
EFT_TRANS	218[CC]	REPORT_COL_ACT_LIST	316[CC]
GROUP_AMOUNT	288[A1]	REPORT_DISCOUNT	319[CC]
GSM_ROAMING AGREEMENT	294[A1]	REPORT_INVOICE	322[CC]
HISTORIC_CONTRIBUTION	234[CC]	REPORT_PAY_DETAIL	326[CC]
HISTORIC_THRESHOLDS	240[CC]	ROAMING_RATE_KEYS	231[A2]
JNL_DETAIL	243[CC]	SDR_EXCHANGE_RATES	243[A2]
JNL_KEYS	28[A2]	SERVICE	330[CC]
JNL_KEYS_DEFAULT	34[A2]	SERVICE_BILLING	334[CC]
		SERVICE_VIEW	341[CC]

TAX_RATES_VAT	292[A2]	<i>cust_bank_acc_num</i>	
TAX_THRESHOLD_REF	298[A2]	CMF	140[CC]
UNIT_CR_RATE_LIMIT	317[A2]	EFT_TRANS	220[CC]
UNIT_CREDIT_PROFILES	349[CC]	<i>cust_bank_sort_code</i>	
<i>currency_code_foreign</i>		CMF	140[CC]
ROAMING_INVOICE_SUMMARY	228[A2]	EFT_TRANS	220[CC]
ROAMING_TRANSFER_DETAIL	233[A2]	<i>cust_city</i>	
<i>currency_code_home</i>		CMF	138[CC]
ROAMING_INVOICE_SUMMARY	228[A2]	<i>cust_country_code</i>	
ROAMING_TRANSFER_DETAIL	233[A2]	CMF	138[CC]
<i>currency_code_mask</i>		<i>cust_county</i>	
JNL_KEYS_MASK	37[A2]	CMF	139[CC]
<i>currency_gain_loss</i>		<i>cust_email</i>	
BMF_DISTRIBUTION	103[CC]	CMF	142[CC]
<i>currency_group</i>		<i>cust_faxno</i>	
NRC_TRANS_DESCR	95[A2]	CMF	140[CC]
PRODUCT_ELEMENTS	157[A2]	<i>cust_franchise_tax_code</i>	
RATE_CURRENCY_GROUP	173[A2]	CMF	138[CC]
RATE_CURRENCY_GROUP_REF	174[A2]	<i>cust_geocode</i>	
RATE_CURRENCY_GROUP_VALUES	175[A2]	CMF	139[CC]
		JNL_WORK_LIST	252[CC]
<i>currency_type</i>		<i>cust_phone1</i>	
CURRENCY_TYPE_REF	195[A1]	CMF	139[CC]
CURRENCY_TYPE_VALUES	196[A1]	SERVER_LOOKUP	30[CC]
RATE_CURRENCY_REF	176[A2]	<i>cust_phone2</i>	
<i>current_balance</i>		CMF	139[CC]
AGED_BALANCES	54[CC]	SERVER_LOOKUP	30[CC]
REPORT_AGED_BALANCES	309[CC]	<i>cust_state</i>	
<i>current_flag</i>		CMF	138[CC]
ADJ	48[CC]	<i>cust_zip</i>	
<i>current_installment</i>		CMF	138[CC]
NRC	262[CC]	<i>custdb</i>	
NRC_VIEW	270[CC]	BILLRUN_LIMBOED_ACCTS	17[CC]
<i>current_rec_no</i>		<i>customer_carrier_name_abbr</i>	
FILE_STATUS	271[A1]	SERVICE_PROVIDERS_REF	253[A2]
<i>cust_address1</i>		<i>customer_order_number</i>	
CMF	138[CC]	NRC	262[CC]
<i>cust_address2</i>		NRC_VIEW	270[CC]
CMF	138[CC]	<i>customer_tag</i>	
<i>cust_address3</i>		CDR_DATA	120[CC]
CMF	138[CC]	CDR_DATA_WORK	121[A1]
<i>cust_bank_acc_name</i>		CDR_FREE	129[CC]
CMF	140[CC]	CDR_OUTCOLLECTS	127[A1]
EFT_TRANS	220[CC]	<i>cutoff_date</i>	
		BILL_CYCLE	56[A1]

<i>cutoff_dt</i>		RATE_LATE_FEE	182[A2]
OUTCOLLECT_BATCH	101[A2]	RATE_UNIT_CR	194[A2]
ROAMING_TRANSFER_DETAIL	232[A2]	REPORT_ACCT_VOL	306[CC]
<i>cutoff_end_dt</i>		SALES_CHANNEL_REF	241[A2]
RPU_WORK	327[CC]	UNIT_CR_DEFINITIONS	313[A2]
USAGE_MASTER_FILE_STATUS	352[CC]	<i>date_created</i>	
USAGE_PROCESS_FILE_STATUS	354[CC]	CMF	143[CC]
<i>cutoff_start_dt</i>		DISCOUNT_DEFINITIONS	208[A1]
RPU_WORK	327[CC]	PRODUCT_ELEMENTS	155[A2]
USAGE_MASTER_FILE_STATUS	352[CC]	RATE_DISCOUNT	180[A2]
USAGE_PROCESS_FILE_STATUS	354[CC]	RATE_LATE_FEE	182[A2]
<i>cycle_expected</i>		RATE_NRC	183[A2]
LBX_SOURCE_ID_REF	65[A2]	RATE_RC	192[A2]
<i>cycle_from_date</i>		UNIT_CR_DEFINITIONS	313[A2]
REPORT_BILLED_REV	312[CC]	<i>date_expiration</i>	
REPORT_INVOICE	323[CC]	CMF_EXEMPT	163[CC]
<i>cycle_id</i>		<i>date_format</i>	
CPM_CYCLE_STATUS	183[CC]	RAW_USAGE_FIELD_MAPPING	205[A2]
EFT_CYCLE_STATUS	216[CC]	<i>date_inactive</i>	
<i>cycle_id_serv</i>		ADDRESS	44[CC]
CPM_CYCLE_STATUS	183[CC]	CMF	143[CC]
EFT_CYCLE_STATUS	216[CC]	CSR_INFORMATION	193[A1]
<i>cycle_status</i>		DISCOUNT_DEFINITIONS	208[A1]
CPM_CYCLE_STATUS	183[CC]	PRODUCT_ELEMENTS	155[A2]
EFT_CYCLE_STATUS	216[CC]	RATE_BONUS_POINT	169[A2]
<i>cycle_type</i>		RATE_DISCOUNT	180[A2]
PACKAGE_COMPONENT_MEMBERS	110[A2]	RATE_LATE_FEE	182[A2]
<i>cyclical_threshold</i>		RATE_UNIT_CR	194[A2]
CMF	143[CC]	REPORT_ACCT_VOL	306[CC]
D		SALES_CHANNEL_REF	241[A2]
<i>data_format</i>		UNIT_CR_DEFINITIONS	313[A2]
RECORD_FIELD_DEF	208[A2]	<i>date_last_updated</i>	
<i>date_active</i>		REPLICATION_TABLES	223[A2]
ADDRESS	44[CC]	<i>date_nrc_journalable</i>	
CMF	143[CC]	NRC	262[CC]
CMF_EXEMPT	163[CC]	NRC_VIEW	270[CC]
CSR_INFORMATION	193[A1]	<i>date_received</i>	
DISCOUNT_DEFINITIONS	208[A1]	DEPOSIT	214[CC]
PRODUCT_ELEMENTS	155[A2]	<i>date_returned</i>	
RATE_BONUS_POINT	169[A2]	DEPOSIT	214[CC]
RATE_DISCOUNT	180[A2]	<i>daterange_end</i>	
		REPORT_LOOKUP	325[CC]
		<i>daterange_start</i>	
		REPORT_LOOKUP	325[CC]
		<i>daylight_savings</i>	
		CIBER_INCOLLECTS	138[A1]
		CIBER_INCOLLECTS_ERROR	143[A1]

<i>dayofmonth</i>		<i>deposit_dt</i>	
RATE_PERIODS	186[A2]	LBX_ERROR	56[A2]
<i>dayofweek</i>		LBX_POST_DATED	63[A2]
RATE_PERIODS	186[A2]	<i>deposit_type</i>	
<i>db_name</i>		DEPOSIT	214[CC]
PROCESS_SCHED	135[A2]	DEPOSIT_TYPE_REF	200[A1]
<i>dealer_pin</i>		DEPOSIT_TYPE_VALUES	201[A1]
SALES_CHANNEL_REF	241[A2]	<i>dept</i>	
<i>debit_trans_type</i>	CLEARING_HOUSE_CONTACTS	CMF	145[CC]
	157[A1]	CONTACTS	178[CC]
<i>debug_level</i>		<i>derive_distance_units</i>	
PROCESS_SCHED	136[A2]	USAGE_TYPES	333[A2]
<i>declines_amt</i>		<i>derive_jurisdiction</i>	
CPM_CYCLE_STATUS	183[CC]	USAGE_TYPES	332[A2]
EFT_CYCLE_STATUS	216[CC]	<i>description</i>	
<i>def_order</i>		BILL_INSERTS	73[A1]
AGGR_USAGE_DEFINITIONS_REF	29[A1]	SYSTEM_MESSAGES	268[A2]
DISCOUNT_PLANS	210[A1]	<i>description_code</i>	
UNIT_CR_PLANS	315[A2]	ADJ_TRANS_DESCR	27[A1]
<i>default_ccard_id</i>		BILL_INVOICE_DETAIL	84[CC]
CMF	140[CC]	BMF_TRANS_DESCR	85[A1]
<i>default_ccard_id_serv</i>		CONTRACT_TYPES	178[A1]
CMF	140[CC]	DESCRIPTIONS	202[A1]
<i>default_currency_code</i>		DISCOUNT_DEFINITIONS	208[A1]
COUNTRY_CODE_REF	187[A1]	EXT_CONTACTS	252[A1]
<i>default_external_id_type</i>		JURISDICTIONS	42[A2]
EMF_CONFIG_ID_REF	228[A1]	NRC_TRANS_DESCR	93[A2]
<i>default_type</i>		NRC_TYPE_GROUPS	97[A2]
RECORD_FIELD_DEF	209[A2]	PRODUCT_ELEMENTS	154[A2]
<i>default_value</i>		PRODUCT_GROUPS	159[A2]
EXT_PARAM_TYPE_ASSOC	261[A1]	PRODUCT_LINES	161[A2]
RECORD_FIELD_DEF	209[A2]	RATE_CLASS_DESCR	170[A2]
<i>delay_origin</i>		REPORT_ADJ	307[CC]
LATE_FEE_RATES	53[A2]	UNIT_CR_DEFINITIONS	313[A2]
<i>delay_terminus</i>		USAGE_TYPE_GROUPS	343[A2]
LATE_FEE_RATES	53[A2]	USAGE_TYPES	329[A2]
<i>delete_order</i>		<i>description_group</i>	
ACCOUNT_MOVE_TABLES	19[A1]	DESCRIPTIONS	202[A1]
<i>denial_reason</i>		REPORT_DISCOUNT	319[CC]
DENIAL_REASON_REF	198[A1]	<i>designated_tax_amount</i>	
DENIAL_REASON_VALUES	199[A1]	PREPAYMENT	275[CC]
<i>depend_id</i>		<i>device_class</i>	
ARB_TAB_DEPENDS	36[A1]	DEVICES	203[A1]
<i>deposit_amount</i>		IO_DEVICES	304[A1]
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<i>device_id</i>		<i>discount_factor</i>	
BILL_BATCHES	61[CC]	RATE_PERIODS	187[A2]
BILL_FILES	63[CC]	<i>discount_id</i>	
DEVICES	203[A1]	BILL_INVOICE_DETAIL	82[CC]
IO_DEVICES	304[A1]	BILL_INVOICE_DISCOUNT	91[CC]
<i>device_id_serv</i>		BMF	100[CC]
BILL_BATCHES	61[CC]	CDR_BILLED	116[CC]
BILL_FILES	63[CC]	CORRIDOR_PLAN_ID_REF	185[A1]
<i>device_label</i>		DISCOUNT_DEFINITIONS	207[A1]
BILL_BATCHES	61[CC]	DISCOUNT_PLANS	210[A1]
BILL_FILES	63[CC]	DISCOUNT_RESTRICTIONS	212[A1]
<i>device_name</i>		DISCOUNT_TARGETS	215[A1]
DEVICES	203[A1]	HISTORIC_CONTRIBUTION	234[CC]
<i>device_options</i>		HISTORIC_THRESHOLDS	239[CC]
IO_DEVICES	304[A1]	PREPAYMENT	276[CC]
<i>device_type</i>		RATE_DISCOUNT	179[A2]
DEVICES	203[A1]	RATE_DISCOUNT_OVERRIDES	297[CC]
<i>disc_rcv_opt</i>		REPORT_INVOICE	323[CC]
CMF	140[CC]	<i>discount_id_detail</i>	
<i>disc_total</i>		REPORT_DISCOUNT	318[CC]
CC_BALANCE	99[A1]	<i>discount_id_discount</i>	
<i>disconnect_reason</i>		REPORT_DISCOUNT	318[CC]
CMF	140[CC]	<i>discount_level</i>	
DISCONNECT_REASON_REF	204[A1]	DISCOUNT_DEFINITIONS	207[A1]
DISCONNECT_REASON_VALUES	205[A1]	<i>discount_percent</i>	
PRODUCT	281[CC]	RATE_DISCOUNT	180[A2]
PRODUCT_VIEW	294[CC]	RATE_DISCOUNT_OVERRIDES	297[CC]
<i>discount</i>		<i>discount_quantum</i>	
BILL_INVOICE_DETAIL	82[CC]	DISCOUNT_DEFINITIONS	207[A1]
CDR_BILLED	116[CC]	HISTORIC_CONTRIBUTION	234[CC]
REPORT_BILLED_REV	312[CC]	HISTORIC_THRESHOLDS	239[CC]
REPORT_DISCOUNT	318[CC]	<i>discount_threshold_tier_id</i>	
REPORT_INVOICE	323[CC]	DISCOUNT_THRESH_TIER_ID_REF	217[A1]
<i>discount_amount</i>		DISCOUNT_THRESH_TIER_ID_VALUES	218[A1]
BILL_INVOICE_DISCOUNT	91[CC]	<i>discount_type</i>	
RATE_DISCOUNT	180[A2]	DISCOUNT_DEFINITIONS	207[A1]
RATE_DISCOUNT_OVERRIDES	297[CC]	<i>disp_code</i>	
<i>discount_amt</i>		CIBER_INCOLLECTS_ERROR	145[A1]
ADJ	50[CC]	<i>disp_status</i>	
<i>discount_base_period</i>		CIBER_INCOLLECTS_ERROR	145[A1]
CONTRACT_TYPES	179[A1]	<i>dispatch_count</i>	
<i>discount_breakout_count</i>		BILL_FILES	63[CC]
BILL_INVOICE_DISCOUNT	91[CC]	BILL_INVOICE	69[CC]
<i>discount_domain</i>		BILL_TAPES	95[CC]
DISCOUNT_DEFINITIONS	207[A1]	REPORT_INVOICE	323[CC]

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BILL_FILES	63[CC]	91[A1]
BILL_INVOICE	69[CC]	
<i>dispatch_device</i>		CCARD_RESPONSE_CODE_VALUES
BILL_FILES	63[CC]	95[A1]
<i>dispatch_status</i>		CCARD_TYPE_CODE_VALUES
BILL_FILES	63[CC]	98[A1]
<i>dispatch_task</i>		CDR_ADJ_ERROR_VALUES
BILL_FILES	63[CC]	101[A1]
<i>dispatch_type</i>		CDR_COMP_STATUS_VALUES
BILL_BATCHES	61[CC]	115[A1]
<i>display_ciem_view_id</i>		CELL_ID_VALUES
SERVICE_KEY	336[CC]	132[A1]
<i>display_external_id_type</i>		CLASS_OF_SERVICE_CODE_VALUES
SERVICE	330[CC]	155[A1]
SERVICE_VIEW	341[CC]	
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<i>display_value</i>		148[CC]
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ACCT_SEG_VALUES	22[A1]	165[A1]
ADJ_REASON_CODE_VALUES	24[A1]	CMF_STATUS_VALUES
AGGR_USAGE_DEFINITIONS_VALUES	31[A1]	167[A1]
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ARCH_TYPE_VALUES	41[A1]	CONNECT_REASON_CODES_VALUES
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		221[A1]
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		EMF_CONFIG_ID_VALUES
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		EMF_STATUS_CHG_REASON_VALUES
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		EXT_SOURCE_TYPE_VALUES
		266[A1]
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GENDER_VALUES	278[A1]	REPORT_PAY_DETAIL	326[CC]
GENERIC_ENUMERATION_VALUES	280[A1]	REV_RCV_COST_CENTER_VALUES	225[A2]
GROUP_TYPE_VALUES	291[A1]	ROAMING_OPERATOR_VALUES	230[A2]
GUI_INDICATOR_VALUES	296[A1]	SALES_CHANNEL_VALUES	242[A2]
INDUSTRY_TYPE_VALUES	299[A1]	SERVER_CATEGORY_VALUES	246[A2]
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INSERT_GRP_ID_VALUES	303[A1]	SERVICE_PROVIDERS_VALUES	
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KEY_DOMAIN_SYMBOL_VALUES	47[A2]	STATUS_VALUES	265[A2]
LANGUAGE_CODE_VALUES	50[A2]	SUSPENDED_REASON_VALUES	267[A2]
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LBX_SOURCE_ID_VALUES	67[A2]	TAX_STATUS_VALUES	295[A2]
LOCATION_CODE_VALUES	70[A2]	TAX_THRESHOLD_VALUES	299[A2]
MKT_CODE_VALUES	74[A2]	TAX_TYPE_COMM_VALUES	301[A2]
MOBILE_ZONE_TYPE_VALUES	78[A2]	TIMEZONE_VALUES	305[A2]
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NET_INTERFACE_VALUES	89[A2]	XFER_REASON_CODES_VALUES	
OPEN_ITEM_ID_VALUES	99[A2]		350[A2]
OWNING_COST_CTR_VALUES	106[A2]	ZONE_CLASS_VALUES	353[A2]
PACKAGE_DEFINITION_VALUES	112[A2]	ZONE_VALUES	355[A2]
PACKAGE_GROUP_VALUES	114[A2]	<i>dispute_amt</i>	
PLAN_ID_CREDIT_VALUES	121[A2]	CMF_BALANCE	151[CC]
PLAN_ID_DISCOUNT_VALUES	123[A2]	CMF_BALANCE_DETAIL	154[CC]
POINT_CATEGORY_VALUES	125[A2]	REPORT_COL_ACT_LIST	316[CC]
POINT_CLASS_VALUES	127[A2]	<i>distance_band_id</i>	
POINT_REGION_VALUES	129[A2]	DISTANCE_BANDS	219[A1]
PRIVACY_LEVEL_VALUES	131[A2]	DISTANCE_BANDS_ID_REF	220[A1]
PROVIDER_CLASS_VALUES	164[A2]	DISTANCE_BANDS_ID_VALUES	
RATABLE_UNIT_CLASS_VALUES	166[A2]	221[A1]	
RATE_CURRENCY_GROUP_VALUES	175[A2]	RATE_USAGE	197[A2]
RATE_CURRENCY_VALUES	178[A2]	RATE_USAGE_OVERRIDES	203[A2]
RATE_PERIOD_VALUES	189[A2]	<i>distance_increment</i>	
RECORD_TYPE_VALUES	218[A2]	RATE_RC	191[A2]
REFUND_REASON_CODE_VALUES	220[A2]	<i>distance_rate</i>	
		RATE_RC	192[A2]
		<i>distance_units_indicator</i>	
		USAGE_TYPES	333[A2]

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ACCOUNT_MOVE_TABLES	19[A1]	CLEARING_HOUSE_INFO	162[A1]
<i>distr_chan</i>		<i>dom_phone_dest</i>	
CMF	142[CC]	CLEARING_HOUSE_INFO	163[A1]
<i>distrib_order</i>		<i>dom_rcon_number</i>	
BMF_DISTRIBUTION	102[CC]	CLEARING_HOUSE_INFO	162[A1]
PREPAYMENT_DISTRIBUTION	278[CC]	<i>dom_visa_dest</i>	
<i>distribute_payback</i>		CLEARING_HOUSE_INFO	162[A1]
CUSTOMER_CONTRACT	190[CC]	<i>dom_visa_merchant</i>	
CUSTOMER_CONTRACT_VIEW	200[CC]	CLEARING_HOUSE_INFO	163[A1]
<i>distributed_amount</i>		<i>dom_visa_orig</i>	
BMF	100[CC]	CLEARING_HOUSE_INFO	162[A1]
CMF_BONUS_POINT	158[CC]	<i>domain_description</i>	
<i>distributed_gl_amount</i>		KEY_DOMAIN	45[A2]
BMF	100[CC]	<i>domain_id</i>	
<i>division</i>		DISCOUNT_DEFINITIONS	208[A1]
TAX_CHARGE_ELEMENTS	278[A2]	KEY_DOMAIN	45[A2]
<i>division_number</i>		KEY_DOMAIN_SYMBOL_REF	46[A2]
CLEARING_HOUSE_DIVISION	158[A1]	KEY_DOMAIN_SYMBOL_VALUES	47[A2]
<i>dom_amex_format_code</i>		UNIT_CR_DEFINITIONS	314[A2]
CLEARING_HOUSE_INFO	162[A1]	<i>domain_type</i>	
<i>dom_amex_merchant</i>		KEY_DOMAIN	45[A2]
CLEARING_HOUSE_INFO	163[A1]	<i>down_reason_code</i>	
<i>dom_amex_process_id</i>		SERVER_DEFINITION	28[CC]
CLEARING_HOUSE_INFO	162[A1]	<i>down_set_by</i>	
<i>dom_amex_receiver_id</i>		SERVER_DEFINITION	28[CC]
CLEARING_HOUSE_INFO	162[A1]	<i>down_since_dt</i>	
<i>dom_batch_limit</i>		SERVER_DEFINITION	28[CC]
CLEARING_HOUSE_INFO	163[A1]	<i>ds_database</i>	
<i>dom_currency_ind</i>		LOCAL_SERVER_ID	256[CC]
CLEARING_HOUSE_INFO	163[A1]	SERVER_DEFINITION	27[CC]
<i>dom_fund_acct_num</i>		<i>dsquery</i>	
CLEARING_HOUSE_INFO	163[A1]	LOCAL_SERVER_ID	256[CC]
<i>dom_fund_dest</i>		SERVER_DEFINITION	27[CC]
CLEARING_HOUSE_INFO	162[A1]	<i>dt_chg_field</i>	
<i>dom_fund_inst_id</i>		REPLICATION_TABLES	223[A2]
CLEARING_HOUSE_INFO	163[A1]	<i>duc_id</i>	
<i>dom_fund_orig</i>		CDR_DATA_DUC	123[CC]
CLEARING_HOUSE_INFO	162[A1]	<i>duc_plan_id</i>	
<i>dom_mailbox_id</i>		CDR_DATA_DUC	123[CC]
CLEARING_HOUSE_INFO	162[A1]	<i>duc_subtype</i>	
<i>dom_msc_dest</i>		CDR_DATA_DUC	123[CC]
CLEARING_HOUSE_INFO	162[A1]	<i>duc_type</i>	
<i>dom_msc_merchant</i>		CDR_DATA_DUC	123[CC]
CLEARING_HOUSE_INFO	163[A1]		

<i>due_date</i>		<i>element_id</i>	
BILL_IMAGE	64[CC]	BILL_FORMAT_TEMPLATE	72[A1]
<i>due_dt</i>		BILL_INVOICE_DETAIL	83[CC]
TICKLER	302[A2]	CDR_DATA	117[CC]
<i>duration</i>		CDR_DATA_WORK	118[A1]
CONTRACT_TYPES	178[A1]	CDR_FREE	127[CC]
PACKAGE_COMPONENT_MEMBERS	110[A2]	CDR_OUTCOLLECTS	125[A1]
PROCESS_WORK	140[A2]	CONTRACT_TYPES	177[A1]
<i>duration_flag</i>		CUSTOMER_CONTRACT	191[CC]
USAGE_TYPES	333[A2]	CUSTOMER_CONTRACT_VIEW	201[CC]
<i>duration_override</i>		DISCOUNT_DEFINITIONS	207[A1]
CUSTOMER_CONTRACT	191[CC]	DISTANCE_BANDS	219[A1]
CUSTOMER_CONTRACT_VIEW	201[CC]	JNL_DETAIL	241[CC]
<i>duration_units</i>		JNL_KEYS	29[A2]
CONTRACT_TYPES	178[A1]	JNL_KEYS_DEFAULT	35[A2]
E		JNL_TRANS	251[CC]
<i>e_external_id</i>		NRC	261[CC]
REPORT_EQUIP_VOL	320[CC]	NRC_TRANS_DESCR	93[A2]
<i>edit_table</i>		NRC_VIEW	269[CC]
RECORD_FIELD_DEF	208[A2]	PRODUCT	281[CC]
<i>edit_table_field</i>		PRODUCT_ELEMENTS	154[A2]
RECORD_FIELD_DEF	208[A2]	PRODUCT_JURISDICTION	160[A2]
<i>edit_table_field_type</i>		PRODUCT_VIEW	294[CC]
RECORD_FIELD_DEF	208[A2]	PROVIDER_CLASS_REF	163[A2]
<i>edit_type</i>		RATE_NRC	184[A2]
RECORD_FIELD_DEF	208[A2]	RATE_PERIODS	187[A2]
<i>effective_date</i>		RATE_RC	191[A2]
ADJ	47[CC]	RATE_USAGE	196[A2]
HISTORIC_CONTRIBUTION	234[CC]	RATE_USAGE_OVERRIDES	202[A2]
NRC	261[CC]	REPORT_BED	310[CC]
NRC_VIEW	269[CC]	ROAMING_RATE_KEYS	231[A2]
XFER_HISTORY	32[CC]	SERVICE_ZONE	344[CC]
<i>effective_dt</i>		UNIT_CR_DEFINITIONS	313[A2]
JNL_DETAIL	242[CC]	USAGE_JURISDICTION	322[A2]
XFER_STATUS	357[CC]	USAGE_TYPES	331[A2]
<i>eft_event_type</i>		USAGE_TYPES_SPLIT	340[A2]
EFT_RESPONSE_CODE_REF	224[A1]	<i>element_id_mask</i>	
<i>eft_trans_status</i>		JNL_KEYS_MASK	38[A2]
EFT_TRANS	219[CC]	<i>elig_key1</i>	
<i>eft_trans_type</i>		SERVICE	330[CC]
EFT_TRANS	219[CC]	SERVICE_VIEW	341[CC]
<i>elig_key2</i>		<i>elig_key2</i>	
		SERVICE	330[CC]
		SERVICE_VIEW	341[CC]
<i>elig_key3</i>		<i>elig_key3</i>	
		SERVICE	330[CC]
		SERVICE_VIEW	341[CC]

<i>email_msg</i>		<i>endhhmm</i>	
SERVICE_CENTERS	248[A2]	RATE_PERIODS	186[A2]
<i>emf_book_id</i>		<i>entity_type</i>	
EMF_CONFIGURATION	227[A1]	EXT_PARAM_TYPE_ASSOC	261[A1]
JNL_DETAIL	243[CC]	<i>entry_create_dt</i>	
JNL_EMF_BOOK_REF	15[A2]	FILE_STATUS	271[A1]
JNL_EMF_BOOK_VALUES	16[A2]	<i>entry_date</i>	
JNL_TRANS	250[CC]	CMF_BONUS_POINT	158[CC]
<i>emf_config_id</i>		CSR_AUDIT	185[CC]
EMF_CONFIG_ID_REF	228[A1]	<i>enumeration_id</i>	
EMF_CONFIG_ID_VALUES	229[A1]	ENUMERATION_DEF	236[A1]
EMF_CONFIGURATION	226[A1]	<i>enumeration_key</i>	
NET_INTERFACE_ELIGIBILITY	87[A2]	ENUMERATION_DEF	236[A1]
SERVICE	330[CC]	GENERIC_ENUMERATION_REF	279[A1]
SERVICE_VIEW	341[CC]	GENERIC_ENUMERATION_VALUES	280[A1]
XFER_NRC	347[A2]	<i>enumeration_name</i>	
<i>emf_status</i>		ENUMERATION_DEF	236[A1]
EMF_STATUS_REF	232[A1]	<i>eof_data</i>	
EMF_STATUS_VALUES	233[A1]	EXT_SOCKET_ACCESS	262[A1]
<i>emf_status_chg_reason</i>		<i>equip_class_code</i>	
EMF_STATUS_CHG_REASON_REF	230[A1]	BILL_FORMAT_TEMPLATE	72[A1]
EMF_STATUS_CHG_REASON_VALUES	231[A1]	CDR_DATA	122[CC]
<i>emf_suspension_reason</i>		COMPONENT_EMF_ELIGIBILITY	171[A1]
EMF_SUSPENSION_REASON_REF	234[A1]	EMF_CONFIGURATION	226[A1]
EMF_SUSPENSION_REASON_VALUES	235[A1]	EQUIP_CLASS_CODE_REF	239[A1]
<i>emf_type</i>		EQUIP_CLASS_CODE_VALUES	240[A1]
EMF_CONFIGURATION	226[A1]	NRC_TRANS_DESCR	96[A2]
<i>end_date</i>		PRODUCT_ELEMENTS	154[A2]
ADJ	47[CC]	PROVIDER_CLASS_REF	163[A2]
REFINANCE_PLAN	302[CC]	RATE_NRC	184[A2]
<i>end_dt</i>		RATE_PERIODS	186[A2]
CONTRACT_ASSIGNMENTS_HQ	180[CC]	RATE_RC	191[A2]
CUSTOMER_CONTRACT	189[CC]	RATE_USAGE	196[A2]
CUSTOMER_CONTRACT_VIEW	199[CC]	RATE_USAGE_OVERRIDES	202[A2]
<i>end_offset</i>		ROAMING_RATE_KEYS	231[A2]
BILL_INVOICE	69[CC]	SERVICE_BILLING	334[CC]
<i>end_time</i>		UNIT_CR_RATE_LIMIT	317[A2]
DEVICES	203[A1]	USAGE_JURISDICTION	323[A2]
PROCESS_RUN	133[A2]	USAGE_TYPES_SPLIT	340[A2]
PROCESS_WORK	140[A2]	USAGE_TYPES_UNITS	342[A2]
PROCESS_WORK_STATUS_DEF	150[A2]	<i>equip_external_id</i>	
		CMF_NOTES	171[CC]
		<i>equip_status</i>	
		BILL_INVOICE_DETAIL	85[CC]
		REPORT_EQUIP_VOL	321[CC]

<i>equip_status_dt</i>		
REPORT_EQUIP_VOL	321[CC]	
<i>equip_type_code</i>		
BILL_FORMAT_TEMPLATE	72[A1]	
COMPONENT_EMF_ELIGIBILITY	171[A1]	
EMF_CONFIGURATION	226[A1]	
EQUIP_TYPE_CODE_REF	241[A1]	
EQUIP_TYPE_CODE_VALUES	242[A1]	
NRC_TRANS_DESCR	96[A2]	
PRODUCT_ELEMENTS	154[A2]	
PROVIDER_CLASS_REF	163[A2]	
RATE_NRC	184[A2]	
RATE_PERIODS	186[A2]	
RATE_RC	191[A2]	
RATE_USAGE	196[A2]	
RATE_USAGE_OVERRIDES	202[A2]	
ROAMING_RATE_KEYS	231[A2]	
SERVICE_BILLING	334[CC]	
USAGE_JURISDICTION	323[A2]	
USAGE_TYPES_SPLIT	340[A2]	
USAGE_TYPES_UNITS	342[A2]	
<i>error_code</i>		
CIBER_FLD_ERROR_CODES	135[A1]	
EPR_ERROR	238[A1]	
EXT_CONTACTS_STATUS	255[A1]	
FILE_STATUS	271[A1]	
LBX_ERROR	57[A2]	
LBX_FILE_STATUS	60[A2]	
LBX_POST_DATED	64[A2]	
<i>error_code1</i>		
CIBER_INCOLLECTS_ERROR	145[A1]	
<i>error_code2</i>		
CIBER_INCOLLECTS_ERROR	145[A1]	
<i>error_code3</i>		
CIBER_INCOLLECTS_ERROR	145[A1]	
<i>error_desc</i>		
ERROR_BILL	225[CC]	
JNL_ERRORS	245[CC]	
<i>errored</i>		
PROCESS_WORK	141[A2]	
PROCESS_WORK_STATUS	146[A2]	
<i>errored_name</i>		
PROCESS_WORK_CARDINAL_VALUES	143[A2]	
<i>errored_rate</i>		
PROCESS_WORK	141[A2]	
PROCESS_WORK_STATUS	147[A2]	
<i>evaluated</i>		
HISTORIC_CONTRIBUTION	235[CC]	
<i>evaluated_date</i>		
HISTORIC_CONTRIBUTION	235[CC]	
HISTORIC_DISCOUNT_TRANS_MAP	238[CC]	
<i>event</i>		
REPORT_COL	314[CC]	
REPORT_COL_ACT_LIST	316[CC]	
<i>event_no</i>		
REPORT_COL	314[CC]	
REPORT_COL_ACT_LIST	316[CC]	
<i>exceptions_amt</i>		
CPM_CYCLE_STATUS	183[CC]	
EFT_CYCLE_STATUS	216[CC]	
<i>exch_rate_exp</i>		
SDR_EXCHANGE_RATES	243[A2]	
<i>exchange_rate</i>		
RATE_CURRENCY	171[A2]	
<i>exclude</i>		
CONTRACT_ASSIGNMENTS_HQ	180[CC]	
<i>exclude_charge</i>		
TAX_PKG_INST_ID_REF	289[A2]	
<i>exclude_group</i>		
USAGE_JURISDICTION	324[A2]	
<i>exempt_city</i>		
CMF_EXEMPT	163[CC]	
<i>exempt_county</i>		
CMF_EXEMPT	163[CC]	
<i>exempt_federal</i>		
CMF_EXEMPT	163[CC]	
<i>exempt_other</i>		
CMF_EXEMPT	163[CC]	
<i>exempt_state</i>		
CMF_EXEMPT	163[CC]	
<i>expiration_bill_ref_no</i>		
CMF_BONUS_POINT	158[CC]	
<i>expiration_bill_ref_resets</i>		
CMF_BONUS_POINT	158[CC]	
<i>expiration_date</i>		
CMF_BONUS_POINT	158[CC]	
EFT_CONTROL	222[A1]	

exrate_class		external_amount	
CMF	141[CC]	BMF	100[CC]
EXRATE_CLASS_REF	244[A1]	BMF_UNAPPLIED	107[CC]
EXRATE_CLASS_VALUES	245[A1]	LBX_ERROR	57[A2]
RATE_CURRENCY	171[A2]	LBX_POST_DATED	64[A2]
SERVICE	330[CC]		
SERVICE_BILLING	334[CC]		
SERVICE_VIEW	341[CC]		
ext_category		external_currency	
LBX_PAYMENT_TYPES	62[A2]	BMF	100[CC]
ext_client_id		BMF_UNAPPLIED	108[CC]
EXT_CONTACTS	252[A1]	LBX_ERROR	57[A2]
ext_contact_id		LBX_POST_DATED	64[A2]
CLEARING_HOUSE_CONTACTS	156[A1]		
EXT_CONTACTS	251[A1]		
EXT_CONTACTS_STATUS	255[A1]		
EXT_FTP_ACCESS	256[A1]		
EXT_IPDR_FS_ACCESS	257[A1]		
EXT_IPDR_FS_STATUS	258[A1]		
EXT_KERMIT_ACCESS	259[A1]		
EXT_LOCAL_DIR_ACCESS	260[A1]		
EXT_SOCKET_ACCESS	262[A1]		
FILE_STATUS	270[A1]		
SERVICE_PROVIDERS_REF	253[A2]		
ext_contact_id_in			
CIBER_OPERATOR_SID_BID	148[A1]	CDR_DATA	118[CC]
CIBER_ROAMING AGREEMENT	151[A1]	CDR_DATA_WORK	119[A1]
GSM_ROAMING AGREEMENT	294[A1]	CDR_FREE	128[CC]
ext_contact_id_out		CDR_OUTCOLLECTS	126[A1]
CIBER_OPERATOR_SID_BID	149[A1]	CMF_BALANCE_DETAIL	155[CC]
CIBER_ROAMING AGREEMENT	151[A1]	CUSTOMER_ID_ACCT_MAP	206[CC]
GSM_ROAMING AGREEMENT	294[A1]	CUSTOMER_ID_EQUIP_MAP	207[CC]
ext_ebcdic		CUSTOMER_ID_EQUIP_MAP_KEY	209[CC]
EXT_CONTACTS	252[A1]	CUSTOMER_ID_EQUIP_MAP_VIEW	211[CC]
ext_file_id		CUSTOMER_ID_GROUP_MAP	212[CC]
FILE_STATUS	270[A1]	EXTERNAL_ID_ACCT_MAP	19[CC]
LBX_FILE_STATUS	61[A2]	EXTERNAL_ID_EQUIP_MAP	20[CC]
ext_id_type		EXTERNAL_ID_EQUIP_MAP_KEY	22[CC]
TAP_MAPPING	274[A2]	EXTERNAL_ID_EQUIP_MAP_VIEW	24[CC]
ext_tracking_id		EXTERNAL_ID_GROUP_MAP	26[CC]
CDR_DATA	117[CC]	LBX_ERROR	57[A2]
CDR_DATA_WORK	118[A1]	LBX_POST_DATED	64[A2]
CDR_FREE	127[CC]	REPORT_ACCT_VOL	306[CC]
CDR_OUTCOLLECTS	125[A1]	REPORT_COL	314[CC]
CIBER_INCOLLECTS	136[A1]	REPORT_COL_ACT_LIST	316[CC]
CIBER_INCOLLECTS_ERROR	141[A1]	external_id_type	
		CDR_DATA	118[CC]
		CDR_DATA_WORK	119[A1]
		CDR_FREE	128[CC]
		CDR_OUTCOLLECTS	126[A1]
		CUSTOMER_ID_ACCT_MAP	206[CC]
		CUSTOMER_ID_EQUIP_MAP	207[CC]
		CUSTOMER_ID_EQUIP_MAP_KEY	209[CC]
		CUSTOMER_ID_EQUIP_MAP_VIEW	211[CC]

CUSTOMER_ID_GROUP_MAP	212[CC]	NRC	263[CC]
EXTERNAL_ID_ACCT_MAP	19[CC]	NRC_VIEW	270[CC]
EXTERNAL_ID_EQUIP_MAP	20[CC]	OUTCOLLECT_BATCH_TAX	104[A2]
EXTERNAL_ID_EQUIP_MAP_KEY	22[CC]	REPORT_INVOICE	323[CC]
EXTERNAL_ID_EQUIP_MAP_VIEW	24[CC]	<i>fee_amount</i>	
EXTERNAL_ID_GROUP_MAP	26[CC]	RATE_LATE_FEE	182[A2]
EXTERNAL_ID_TYPE_REF	246[A1]	<i>fee_class</i>	
EXTERNAL_ID_TYPE_VALUES	248[A1]	RATE_LATE_FEE	181[A2]
LBX_ERROR	57[A2]	<i>fee_percent</i>	
LBX_POST_DATED	64[A2]	RATE_LATE_FEE	181[A2]
PRODUCT_ELEMENTS	157[A2]	<i>field_category</i>	
external_status		RECORD_FIELD_DEF	207[A2]
OUTCOLLECT_BATCH	101[A2]	<i>field_db_name_from</i>	
external_trans_id		RECORD_FIELD_MAP	211[A2]
CMF_BONUS_POINT	159[CC]	<i>field_db_name_to</i>	
external_trans_info		RECORD_FIELD_MAP	211[A2]
CMF_BONUS_POINT	159[CC]	<i>field_delimiter_char</i>	
external_trans_msg		RECORD_TYPE_REF	215[A2]
CMF_BONUS_POINT	159[CC]	<i>field_delimiter_code</i>	
F		RECORD_TYPE_REF	216[A2]
fax_msg		<i>field_format</i>	
SERVICE_CENTERS	248[A2]	PAYMENT_FILE_DETAIL	117[A2]
fdm_avs_type		PAYMENT_FILE_HEADER	118[A2]
CLEARING_HOUSE_INFO	162[A1]	PAYMENT_FILE_TRAILER	119[A2]
fdm_merchant_name		<i>field_from_name</i>	
CLEARING_HOUSE_INFO	162[A1]	RAW_USAGE_FIELD_MAPPING	204[A2]
fdm_merchant_number		<i>field_from_pos</i>	
CLEARING_HOUSE_INFO	162[A1]	RAW_USAGE_FIELD_MAPPING	204[A2]
federal_rate		<i>field_from_size</i>	
BILL_INVOICE_TAX	93[CC]	RAW_USAGE_FIELD_MAPPING	204[A2]
CDR_DATA_TAX	126[CC]	<i>field_id</i>	
TAX_OVERRIDES	287[A2]	PAYMENT_FILE_DETAIL	117[A2]
federal_tax		PAYMENT_FILE_HEADER	118[A2]
ADJ	50[CC]	PAYMENT_FILE_TRAILER	119[A2]
ADJ_TAX	52[CC]	<i>field_length</i>	
BILL_INVOICE_DETAIL	86[CC]	PAYMENT_FILE_DETAIL	117[A2]
BILL_INVOICE_TAX	92[CC]	PAYMENT_FILE_HEADER	118[A2]
CDR_DATA_TAX	125[CC]	PAYMENT_FILE_TRAILER	119[A2]
CDR_DATA_WORK	120[A1]	<i>field_name</i>	
CDR_FREE	129[CC]	ATM_FIELD_DEF	43[A1]
CDR_OUTCOLLECTS	127[A1]	ATM_POPLIST_REF	44[A1]
CIBER_INCOLLECTS	136[A1]	ATM_POPLIST_VALUES	45[A1]
CIBER_INCOLLECTS_ERROR	141[A1]	CDR_CONsolidation_KEYS	117[A1]
		CDR_DUP_CHECK_FIELDS	124[A1]
		CIBER_FLD_ERROR_CODES	135[A1]

GUI_INDICATOR_REF	295[A1]	CDR_CHECK_SUM_2	106[A1]
GUI_INDICATOR_VALUES	296[A1]	CDR_CHECK_SUM_3	107[A1]
RECORD_FIELD_DEF	207[A2]	CDR_CHECK_SUM_4	108[A1]
RECORD_TYPE_SEQ_NUM	217[A2]	CDR_CHECK_SUM_5	109[A1]
<i>field_name_from</i>		CDR_CHECK_SUM_6	110[A1]
RECORD_FIELD_MAP	210[A2]	CDR_CHECK_SUM_7	111[A1]
<i>field_name_to</i>		CDR_CHECK_SUM_8	112[A1]
RECORD_FIELD_MAP	210[A2]	CDR_CHECK_SUM_9	113[A1]
<i>field_order</i>		CDR_DATA	120[CC]
CDR_DUP_CHECK_FIELDS	124[A1]	CDR_DATA_WORK	121[A1]
<i>field_pos</i>		CDR_FREE	130[CC]
RECORD_FIELD_DEF	207[A2]	CDR_OUTCOLLECTS	128[A1]
<i>field_rec_pos</i>		CDR_RERATED	133[CC]
PAYMENT_FILE_DETAIL	117[A2]	EFT_TRANS	219[CC]
PAYMENT_FILE_HEADER	118[A2]	FILE_STATUS	269[A1]
PAYMENT_FILE_TRAILER	119[A2]	FILES_IN_PROCESS	267[A1]
<i>field_size</i>		FILES_TO_PROCESS	268[A1]
RECORD_FIELD_DEF	207[A2]	OUTCOLLECT_BATCH	101[A2]
<i>field_status</i>		ROAMING_TRANSFER_DETAIL	232[A2]
BILL_ADDRESS	53[A1]	RPU_WORK	327[CC]
<i>field_to_name</i>		USAGE_MASTER_FILE_STATUS	
RAW_USAGE_FIELD_MAPPING	206[A2]	USAGE_PROCESS_FILE_STATUS	352[CC]
<i>field_type</i>			354[CC]
ATM_FIELD_DEF	43[A1]	<i>file_id_in</i>	
PAYMENT_FILE_DETAIL	117[A2]	CIBER_INCOLLECTS	140[A1]
PAYMENT_FILE_HEADER	118[A2]	CIBER_INCOLLECTS_ERROR	144[A1]
PAYMENT_FILE_TRAILER	119[A2]	<i>file_id_out</i>	
RECORD_FIELD_DEF	207[A2]	CIBER_INCOLLECTS	140[A1]
<i>field_value</i>		CIBER_INCOLLECTS_ERROR	145[A1]
RECORD_TYPE_SEQ_NUM	217[A2]	<i>file_id_serv</i>	
<i>file_byte_count</i>		ABI_INVOICE	36[CC]
FILE_STATUS	271[A1]	ABI_RECORD_MAP	38[CC]
<i>file_creation_dt</i>		ABI_TEXT	39[CC]
ROAMING_TRANSFER_DETAIL	232[A2]	CDR_CHECK_SUM_1	102[A1]
<i>file_group_id</i>		CDR_CHECK_SUM_10	103[A1]
FILE_STATUS	269[A1]	CDR_CHECK_SUM_11	104[A1]
<i>file_id</i>		CDR_CHECK_SUM_12	105[A1]
ABI_INVOICE	36[CC]	CDR_CHECK_SUM_2	106[A1]
ABI_RECORD_MAP	38[CC]	CDR_CHECK_SUM_3	107[A1]
ABI_TEXT	39[CC]	CDR_CHECK_SUM_4	108[A1]
BMF	100[CC]	CDR_CHECK_SUM_5	109[A1]
BMF_UNAPPLIED	107[CC]	CDR_CHECK_SUM_6	110[A1]
CCARD_TRANS	112[CC]	CDR_CHECK_SUM_7	111[A1]
CDR_CHECK_SUM_1	102[A1]	CDR_CHECK_SUM_8	112[A1]
CDR_CHECK_SUM_10	103[A1]	CDR_CHECK_SUM_9	113[A1]
CDR_CHECK_SUM_11	104[A1]	CDR_DATA	120[CC]
CDR_CHECK_SUM_12	105[A1]	CDR_DATA_WORK	121[A1]

CDR_FREE	130[CC]	<i>fill_char</i>	
CDR_OUTCOLLECTS	128[A1]	RECORD_FIELD_DEF	208[A2]
CDR_RERATED	133[CC]	<i>first_call_dt</i>	
FILE_STATUS	269[A1]	ROAMING_TRANSFER_DETAIL	232[A2]
FILES_IN_PROCESS	267[A1]	<i>first_invoice</i>	
FILES_TO_PROCESS	268[A1]	BILL_FILES	62[CC]
RPU_WORK	327[CC]	<i>first_name</i>	
USAGE_MASTER_FILE_STATUS	352[CC]	CONTACTS	177[CC]
USAGE_PROCESS_FILE_STATUS	354[CC]	<i>first_scanline</i>	
<i>file_id_serv_in</i>		BILL_FILES	62[CC]
CIBER_INCOLLECTS	140[A1]	<i>first_use_dt</i>	
CIBER_INCOLLECTS_ERROR	145[A1]	CUSTOMER_CONTRACT_KEY	194[CC]
<i>file_id_serv_out</i>		<i>fixed_amt</i>	
CIBER_INCOLLECTS	140[A1]	TAX_RATES_VAT	292[A2]
CIBER_INCOLLECTS_ERROR	145[A1]	<i>fixed_charge_amt</i>	
<i>file_name</i>		RATE_USAGE	196[A2]
BILL_INVOICE	69[CC]	RATE_USAGE_OVERRIDES	202[A2]
CC_BALANCE	99[A1]	<i>fixed_end_date</i>	
FILE_STATUS	269[A1]	CONTRACT_TYPES	179[A1]
LBX_ERROR	56[A2]	<i>fixed_modifier</i>	
LBX_FILE_STATUS	60[A2]	RE_CHARGE_MODIFIER	226[A2]
LBX_POST_DATED	63[A2]	<i>fixed_rate</i>	
<i>file_name.Alter_type</i>		RATE_AGGR_USAGE	167[A2]
EXT_CONTACTS	254[A1]	<i>fixed_start_date</i>	
<i>file_process_dt</i>		CONTRACT_TYPES	178[A1]
FILE_STATUS	271[A1]	<i>fml_acct_cr</i>	
<i>file_size</i>		JNL_CUSTOM	12[A2]
USAGE_MASTER_FILE_STATUS	352[CC]	<i>fml_acct_db</i>	
USAGE_PROCESS_FILE_STATUS	354[CC]	JNL_CUSTOM	12[A2]
<i>file_status</i>		<i>foreign_amount</i>	
FILE_STATUS	270[A1]	CDR_DATA	120[CC]
USAGE_MASTER_FILE_STATUS	352[CC]	CDR_DATA_WORK	121[A1]
USAGE_PROCESS_FILE_STATUS	354[CC]	CDR_FREE	129[CC]
<i>file_type</i>		<i>foreign_avg_cputime</i>	
EXT_CONTACTS	254[A1]	BIP_ACCOUNT_TIME_STATS	18[CC]
FILE_STATUS	270[A1]	<i>foreign_avg_walltime</i>	
FILE_TYPE_REF	273[A1]	BIP_ACCOUNT_TIME_STATS	18[CC]
FILE_TYPE_VALUES	274[A1]	<i>foreign_code</i>	
<i>filename</i>		CLASS_OF_SERVICE_CODE_REF	
BILL_FILES	62[CC]	CONTRACT_TYPES	178[A1]
		EQUIP_TYPE_CODE_REF	241[A1]
		RATE_RC	192[A2]
		<i>foreign_group_code</i>	
		PRODUCT_LINES	161[A2]

<i>foreign_last_cputime</i>		TAX_ASSIGNMENTS	275[A2]
BIP_ACCOUNT_TIME_STATS	18[CC]	TAX_OVERRIDES	287[A2]
<i>foreign_last_walltime</i>		TAX_THRESHOLDS	297[A2]
BIP_ACCOUNT_TIME_STATS	18[CC]	TCU_DET REP	347[CC]
<i>foreign_max_cputime</i>		<i>franchise_tax_code</i>	
BIP_ACCOUNT_TIME_STATS	18[CC]	ADDRESS	45[CC]
<i>foreign_max_walltime</i>		RATE_LATE_FEE	181[A2]
BIP_ACCOUNT_TIME_STATS	18[CC]	<i>fraud_ind</i>	
<i>foreign_product_code</i>		CIBER_INCOLLECTS	139[A1]
PRODUCT_ELEMENTS	155[A2]	CIBER_INCOLLECTS_ERROR	143[A1]
<i>format_code</i>		<i>fraud_indicator</i>	
BILL_FMT_OPT_REF	59[A1]	ADJ	50[CC]
BILL_FORMAT_DISPLAY_TYPES	69[A1]	JNL_DETAIL	243[CC]
BILL_FORMAT_PRODUCTS	70[A1]	JNL_KEYS	29[A2]
BILL_FORMAT_TEMPLATE	71[A1]	JNL_KEYS_DEFAULT	35[A2]
DISCOUNT_DEFINITIONS	207[A1]	JNL_TRANS	250[CC]
RATE_CURRENCY_REF	176[A2]	<i>fraud_indicator_mask</i>	
UNIT_CR_DEFINITIONS	313[A2]	JNL_KEYS_MASK	37[A2]
<i>format_comp_date</i>		<i>fraud_sub_ind</i>	
BILL_BATCHES	61[CC]	CIBER_INCOLLECTS	139[A1]
<i>format_display</i>		CIBER_INCOLLECTS_ERROR	143[A1]
BILL_FORMAT_TEMPLATE	72[A1]	<i>free_usg</i>	
EMF_CONFIG_ID_VALUES	229[A1]	USAGE_TYPES	331[A2]
RATABLE_UNIT_CLASS_VALUES	166[A2]	<i>frequency</i>	
		TAX_CHARGE_ELEMENTS	278[A2]
<i>format_error_code</i>		<i>frn_account_num</i>	
BILL_INVOICE	69[CC]	CLEARING_HOUSE_INFO	162[A1]
REPORT_INVOICE	323[CC]	<i>frn_agency_code</i>	
<i>format_status</i>		CLEARING_HOUSE_INFO	162[A1]
BILL_BATCHES	61[CC]	<i>frn_bank_code</i>	
BILL_FILES	62[CC]	CLEARING_HOUSE_INFO	162[A1]
BILL_INVOICE	69[CC]	<i>frn_company_name</i>	
CMF_INTERIM_BILLS	167[CC]	CLEARING_HOUSE_INFO	162[A1]
REPORT_INVOICE	322[CC]	<i>frn_fast_mode</i>	
		CLEARING_HOUSE_INFO	161[A1]
<i>format_task</i>		<i>frn_fast_op_id</i>	
BILL_BATCHES	61[CC]	CLEARING_HOUSE_INFO	162[A1]
BILL_FILES	62[CC]	<i>frn_fast_post_delay</i>	
<i>franchise_code</i>		CLEARING_HOUSE_INFO	162[A1]
ACCT_SEG_MAP	20[A1]	<i>frn_national_num</i>	
CMF_EXEMPT	163[CC]	CLEARING_HOUSE_INFO	162[A1]
FRANCHISE_CODE_REF	275[A1]	<i>frn_norm_op_id</i>	
FRANCHISE_CODE_VALUES	276[A1]	CLEARING_HOUSE_INFO	161[A1]
GEOCODE_OVERRIDES	282[A1]	<i>frn_norm_post_delay</i>	
LATE_FEE_ASSIGNMENT	51[A2]	CLEARING_HOUSE_INFO	162[A1]

<i>frm_unique_dates</i>		CDR_DATA	122[CC]
CLEARING_HOUSE_INFO	161[A1]	CDR_DATA_TAX	125[CC]
<i>from_date</i>		OUTCOLLECT_BATCH_DETAIL	102[A2]
BILL_IMAGE	64[CC]	OUTCOLLECT_BATCH_TAX	104[A2]
BILL_INVOICE	67[CC]		
BILL_INVOICE_DETAIL	85[CC]	<i>gl_amount</i>	
		BMF	98[CC]
<i>from_server</i>		BMF_DISTRIBUTION	102[CC]
REPLICATION_TABLES	223[A2]	BMF_UNAPPLIED	105[CC]
<i>from_tables</i>		CMF_BALANCE	152[CC]
ACCOUNT_MOVE_TABLES	19[A1]	CMF_BALANCE_DETAIL	154[CC]
<i>from_user</i>		LBX_ERROR	57[A2]
TICKLER	302[A2]	LBX_POST_DATED	64[A2]
<i>fus_avs_type</i>		<i>global_contract_status</i>	
CLEARING_HOUSE_INFO	161[A1]	CMF	144[CC]
<i>fus_pres_id</i>		<i>good_payer</i>	
CLEARING_HOUSE_INFO	161[A1]	LATE_FEE_TYPES	54[A2]
<i>fus_pres_pass</i>		<i>grace_period</i>	
CLEARING_HOUSE_INFO	161[A1]	CUSTOMER_CONTRACT	189[CC]
<i>fus_sub_id</i>		CUSTOMER_CONTRACT_VIEW	199[CC]
CLEARING_HOUSE_INFO	161[A1]	ETUC_UPDATES	227[CC]
<i>fus_sub_pass</i>		LATE_FEE_TYPES	54[A2]
CLEARING_HOUSE_INFO	161[A1]	RATE_LATE_FEE	181[A2]
		UNIT_CREDIT_PROFILES	350[CC]
G		<i>group_level</i>	
<i>g_l_code</i>		EXTERNAL_ID_GROUP_MAP	26[CC]
JNL_EMF_BOOK_REF	15[A2]	GROUP_TYPE_REF	290[A1]
OWNING_COST_CTR_REF	105[A2]	GROUPS	229[CC]
REV_RCV_COST_CENTER_REF	224[A2]	<i>group_name</i>	
<i>gender</i>		GROUP_AMOUNT	288[A1]
CMF	145[CC]	GROUP_FUNCTION	289[A1]
CONTACTS	178[CC]	<i>group_no</i>	
GENDER_REF	277[A1]	CUSTOMER_ID_GROUP_MAP	212[CC]
GENDER_VALUES	278[A1]	EXTERNAL_ID_GROUP_MAP	26[CC]
<i>generation</i>		GROUP_MEMBER	232[CC]
CONTACTS	177[CC]	GROUPS	229[CC]
<i>geo_key</i>		<i>group_type</i>	
BILL_INSERT_GROUPS	74[A1]	EXTERNAL_ID_GROUP_MAP	26[CC]
BILL_MESSAGE_GROUPS	77[A1]	GROUP_TYPE_REF	290[A1]
<i>geocode</i>		GROUP_TYPE_VALUES	291[A1]
ADDRESS	45[CC]	GROUPS	229[CC]
ADJ	49[CC]	<i>group_type_restrictions</i>	
ADJ_TAX	53[CC]	GROUP_TYPE_REF	290[A1]
BILL_INVOICE_DETAIL	86[CC]	<i>grouping_id</i>	
BILL_INVOICE_TAX	92[CC]	EXT_PARAM_TYPE_ASSOC	261[A1]
CDR_BILLED	115[CC]	<i>guide_flag</i>	
		CDR_COMP_STATUS_REF	114[A1]

<i>guide_to</i>		<i>host_name</i>	
USAGE_TYPES	329[A2]	MCAP_FLASH_SEQUENCE_NUMBERS	
<i>guide_to_provider</i>		71[A2]	
USAGE_TYPES	333[A2]	PROCESS_SOCKET	137[A2]
H		<i>hostname</i>	
<i>has_overrides</i>		LOCAL_SERVER_ID	256[CC]
PRODUCT	281[CC]	PROCESS_QUEUE	132[A2]
PRODUCT_VIEW	294[CC]	PROCESS_RUN	133[A2]
<i>has_product_keys</i>		PROCESS_STATUS	138[A2]
PRODUCT	281[CC]	PROCESS_WORK_STATUS_DEF	150[A2]
PRODUCT_VIEW	294[CC]	SERVER_DEFINITION	27[CC]
<i>hdr_field</i>		I	
JNL_FEED_HEADER	18[A2]	<i>ic_account_no</i>	
<i>hdr_field_description</i>		ABI_INVOICE	36[CC]
JNL_FEED_HEADER	18[A2]	<i>ic_extract_date</i>	
<i>hdr_field_format</i>		ABI_INVOICE	36[CC]
JNL_FEED_HEADER	18[A2]	<i>icb_allow</i>	
<i>hdr_field_size</i>		DISCOUNT_DEFINITIONS	209[A1]
JNL_FEED_HEADER	18[A2]	UNIT_CR_DEFINITIONS	314[A2]
<i>hdr_field_trim</i>		<i>id_type</i>	
JNL_FEED_HEADER	18[A2]	JNL_DETAIL	241[CC]
<i>hdr_hardcoded</i>		JNL_KEYS	25[A2]
JNL_FEED_HEADER	18[A2]	JNL_KEYS_DEFAULT	31[A2]
<i>hdr_is_pack</i>		JNL_KEYS_MASK	36[A2]
JNL_FEED_HEADER	18[A2]	JNL_TRANS	249[CC]
<i>hdr_position</i>		<i>id_type2</i>	
JNL_FEED_HEADER	17[A2]	JNL_DETAIL	241[CC]
<i>hdr_table</i>		JNL_KEYS	27[A2]
JNL_FEED_HEADER	17[A2]	JNL_KEYS_DEFAULT	33[A2]
<i>hdr_type</i>		JNL_TRANS	249[CC]
JNL_FEED_HEADER	17[A2]	<i>id_type2_mask</i>	
<i>hierarchy_acg_tracking_id</i>		JNL_KEYS_MASK	36[A2]
CMF_ACCOUNT_CODE_GROUPS	149[CC]	<i>id_value</i>	
<i>hierarchy_acg_tracking_id_serv</i>		JNL_DETAIL	241[CC]
CMF_ACCOUNT_CODE_GROUPS	149[CC]	JNL_KEYS	26[A2]
<i>hierarchy_id</i>		JNL_KEYS_DEFAULT	32[A2]
ACCOUNT_MOVE_STATUS	15[CC]	JNL_TRANS	249[CC]
CMF	137[CC]	<i>id_value_mask</i>	
TREP_WORK	348[CC]	JNL_KEYS_MASK	36[A2]
<i>home_carrier_sid_bid</i>		<i>id_value2</i>	
CIBER_INCOLLECTS	136[A1]	JNL_DETAIL	241[CC]
CIBER_INCOLLECTS_ERROR	141[A1]	JNL_KEYS	28[A2]
<i>home_provider_flag</i>		JNL_KEYS_DEFAULT	34[A2]
SERVICE_PROVIDERS_REF	253[A2]	JNL_TRANS	249[CC]
<i>home_sid_bid</i>		<i>id_value2_mask</i>	
CDR_OUTCOLLECTS	128[A1]	JNL_KEYS_MASK	36[A2]

<i>iet</i>		<i>inactive_date</i>	
JNL_CUSTOM	13[A2]	CONTRACT_TYPES	178[A1]
<i>image_done</i>		CUSTOMER_ID_ACCT_MAP	206[CC]
BILL_INVOICE	68[CC]	CUSTOMER_ID_EQUIP_MAP	208[CC]
<i>image_req</i>		CUSTOMER_ID_EQUIP_MAP_VIEW	
BILL_INVOICE	68[CC]		211[CC]
<i>image_size</i>		EXTERNAL_ID_ACCT_MAP	19[CC]
BILL_IMAGE	64[CC]	EXTERNAL_ID_EQUIP_MAP	21[CC]
<i>image_type</i>		EXTERNAL_ID_EQUIP_MAP_VIEW	
BILL_IMAGE	65[CC]		25[CC]
<i>implied_decimal</i>		JNL_KEYS	29[A2]
PREPAYMENT	277[CC]	JNL_KEYS_DEFAULT	35[A2]
RATE_CURRENCY	171[A2]	RATE_CURRENCY_REF	176[A2]
RATE_CURRENCY_REF	176[A2]	RATE_NRC	183[A2]
USAGE_UNITS_CONVERT	344[A2]	RATE_RC	192[A2]
<i>implied_decimals</i>		TAX_RATES_VAT	293[A2]
RATE_BONUS_POINT	169[A2]	TAX_THRESHOLDS	297[A2]
RATE_DISCOUNT	180[A2]	TAX_UNIV_ICB	345[CC]
RATE_DISCOUNT_OVERRIDES	297[CC]	<i>inactive_dt</i>	
RATE_LATE_FEE	182[A2]	ACCOUNT_BALANCES	42[CC]
TAX_UNIV_ICB	345[CC]	ACCOUNT_BILLED_SERVICES	43[CC]
UNIT_CR_RATE_LIMIT	317[A2]	AGGR_USAGE_DEFINITIONS_REF	
<i>in_arrears_override</i>			29[A1]
PRODUCT	281[CC]	BILL_INSERT_GROUPS	75[A1]
PRODUCT_CHARGE_MAP	285[CC]	BILL_MESSAGE_GROUPS	77[A1]
PRODUCT_VIEW	294[CC]	CIBER_LINE_RANGES	147[A1]
<i>in_feed_report</i>		CIBER_OPERATOR_SID_BID	149[A1]
JNL_FEED_HEADER	18[A2]	CIBER_ROAMING AGREEMENT	151[A1]
JNL_FEED_LAYOUT	21[A2]	CMF_ABI_SOURCES	146[CC]
JNL_FEED_TRAILER	23[A2]	CMF_COMPONENT_ELEMENT	161[CC]
<i>in_out_indicator</i>		CMF_INSERTS	166[CC]
ROAMING_TRANSFER_DETAIL	234[A2]	CMF_MESSAGES	170[CC]
ROAMING_TRANSFER_TAX_DETAIL		CMF_PACKAGE	172[CC]
	237[A2]	CMF_PACKAGE_COMPONENT	174[CC]
<i>in_units_type</i>		CMF_STATUS_HISTORY	176[CC]
USAGE_UNITS_CONVERT	344[A2]	COMPONENT_DEFINITION_REF	
<i>in_use</i>			169[A1]
CMF	142[CC]	COMPONENT_NRCS	172[A1]
CONTRACT_ASSIGNMENTS_HQ	180[CC]	CONTRACT_UNIT_CR	182[CC]
CUSTOMER_CONTRACT_KEY	194[CC]	CUSTOMER_CORRIDORS	204[CC]
EPR_ERROR	238[A1]	EMF_CONFIGURATION	227[A1]
LCT_METRICS	68[A2]	EXT_CONTACTS	253[A1]
		GLOBAL_ACCOUNT_BALANCES	285[A1]
		GLOBAL_OPEN_ITEM_ID_MAP	287[A1]
		GROUP_MEMBER	232[CC]
		GSM_ROAMING AGREEMENT	294[A1]
		HISTORIC_THRESHOLDS	240[CC]
		LATE_FEE_GROUPS	52[A2]

LATE_FEE_RATES	53[A2]	<i>include_usage</i>	
LATE_FEE_TYPES	55[A2]	BILL_INVOICE	70[CC]
MOBILE_GLOBAL_CELL_ID	75[A2]	CMF_INTERIM_BILLS	167[CC]
MOBILE_SERVICE_ZONES	257[CC]	<i>inclusive_tax</i>	
OPEN_ITEM_ID_MAP	273[CC]	BILL_INVOICE_DETAIL	90[CC]
PACKAGE_CMF_ELIGIBILITY	107[A2]	<i>income_tax_amount</i>	
PACKAGE_COMPONENT_MEMBERS	110[A2]	DEPOSIT	214[CC]
PACKAGE_COMPONENTS	108[A2]	<i>incremental_bands</i>	
PACKAGE_DEFINITION_REF	111[A2]	RATE_USAGE	197[A2]
PACKAGE_NRCS	115[A2]	RATE_USAGE_OVERRIDES	202[A2]
PRODUCT_CHARGE_MAP	285[CC]	<i>industry_type</i>	
PRODUCT_JURISDICTION	160[A2]	EMF_CONFIGURATION	227[A1]
PRODUCT_RATE_KEY	289[CC]	INDUSTRY_TYPE_REF	298[A1]
PRODUCT_RATE_OVERRIDE	290[CC]	INDUSTRY_TYPE_VALUES	299[A1]
RATE_AGGR_USAGE	168[A2]	<i>initial_cell_site</i>	
RATE_CURRENCY	171[A2]	CIBER_INCOLLECTS	137[A1]
RATE_PERIODS	187[A2]	CIBER_INCOLLECTS_ERROR	142[A1]
RATE_USAGE	197[A2]	<i>input_language</i>	
RATE_USAGE_OVERRIDES	203[A2]	LANGUAGE_CODE_VALUES	50[A2]
RE_CHARGE_MODIFIER	227[A2]	<i>insert_bin_num</i>	
RECORD_TYPE_REF	214[A2]	BILL_INSERT_GROUPS	74[A1]
REPLICATION_TABLES	223[A2]	<i>insert_foreign_key</i>	
SDR_EXCHANGE_RATES	243[A2]	BILL_INSERT_GROUPS	75[A1]
SERVICE_BILLING	334[CC]	INSERT_FOREIGN_KEY_REF	300[A1]
SERVICE_STATUS	337[CC]	INSERT_FOREIGN_KEY_VALUES	
SERVICE_ZONE	344[CC]		301[A1]
UNIT_CR_RATE_LIMIT	317[A2]	<i>insert_grp_id</i>	
UNIT_CR_RATE_LIMIT_KEYS	318[A2]	ACCT_SEG_MAP	20[A1]
USAGE_JURISDICTION	324[A2]	BILL_INSERT_GROUPS	74[A1]
USAGE_POINTS	326[A2]	CMF	141[CC]
<i>include_adj</i>		CMF_INSERTS	166[CC]
BILL_INVOICE	70[CC]	INSERT_GRP_ID_REF	302[A1]
CMF_INTERIM_BILLS	167[CC]	INSERT_GRP_ID_VALUES	303[A1]
<i>include_bmf</i>		<i>insert_id</i>	
BILL_INVOICE	70[CC]	BILL_INSERT_GROUPS	74[A1]
CMF_INTERIM_BILLS	167[CC]	BILL_INSERTS	73[A1]
<i>include_in_estimate</i>		CMF_INSERTS	166[CC]
NRC_TRANS_DESCR	96[A2]	<i>insert_pages</i>	
PRODUCT_ELEMENTS	158[A2]	BILL_INSERTS	73[A1]
<i>include_nrc</i>		<i>insert_trigger_id</i>	
BILL_INVOICE	70[CC]	BILL_INSERT_GROUPS	74[A1]
CMF_INTERIM_BILLS	167[CC]	<i>installment_type_id_nrc</i>	
<i>include_rc</i>		NRC_TRANS_DESCR	95[A2]
BILL_INVOICE	70[CC]	<i>instance_name</i>	
CMF_INTERIM_BILLS	167[CC]	PROCESS_QUEUE	132[A2]
		<i>instance_num</i>	
		CDR_DATA_DUC	124[CC]

<i>instance_start_dt</i>		<i>invoice_currency</i>	
CDR_DATA_DUC	124[CC]	OUTCOLLECT_BATCH_DETAIL	102[A2]
<i>int_value</i>		<i>invoice_currency_code</i>	
ATM_POPLIST_REF	44[A1]	JNL_DETAIL	242[CC]
ATM_POPLIST_VALUES	45[A1]	JNL_TRANS	250[CC]
SYSTEM_PARAMETERS	270[A2]	<i>io_type</i>	
<i>integer_value</i>		RECORD_TYPE_REF	215[A2]
GUI_INDICATOR_REF	295[A1]	<i>ip_address</i>	
GUI_INDICATOR_VALUES	296[A1]	EXT_SOCKET_ACCESS	262[A1]
<i>intended_view_effective_dt</i>		SERVER_DEFINITION	27[CC]
CUSTOMER_CONTRACT_VIEW	199[CC]	<i>ipdr_doc_no</i>	
CUSTOMER_ID_EQUIP_MAP_VIEW		EXT_IPDR_FS_STATUS	258[A1]
	211[CC]	<i>is_a_prefix</i>	
EXTERNAL_ID_EQUIP_MAP_VIEW		USAGE_POINTS	325[A2]
	24[CC]	<i>is_active</i>	
NRC_VIEW	268[CC]	ARCH_TABLE_DEPENDS_REF	39[A1]
PRODUCT_VIEW	293[CC]	EXT_IPDR_FS_STATUS	258[A1]
SERVICE_VIEW	339[CC]	<i>is_adjustable</i>	
<i>interest_amount</i>		ADJ_TRANS_DESCR	27[A1]
DEPOSIT	214[CC]	NRC_TRANS_DESCR	94[A2]
<i>interim_bill_date</i>		<i>is_balance_prepaid</i>	
CMF_INTERIM_BILLS	167[CC]	ACCOUNT_BALANCES	41[CC]
<i>interim_bill_flag</i>		GLOBAL_ACCOUNT_BALANCES	284[A1]
BILL_INVOICE	70[CC]	<i>is_binned</i>	
<i>interim_due_days</i>		TAX_PKG_INST_ID_REF	289[A2]
ACCOUNT_CATEGORY_REF	17[A1]	<i>is_business</i>	
<i>internal_status</i>		ACCOUNT_CATEGORY_REF	17[A1]
OUTCOLLECT_BATCH	101[A2]	<i>is_calling_card_used</i>	
<i>interval_no</i>		INDUSTRY_TYPE_REF	298[A1]
PROCESS_WORK	140[A2]	<i>is_conditional_map</i>	
<i>intl_dial_access</i>		RECORD_FIELD_MAP	212[A2]
COUNTRY_DIAL_CODES	189[A1]	RECORD_TYPE_MAP	213[A2]
<i>intl_dial_code</i>		<i>is_consolidation_key</i>	
COUNTRY_DIAL_CODES	189[A1]	CDR_CONsolidATION_KEYS	117[A1]
<i>inv_rate_def_units</i>		<i>is_conversion_default</i>	
USAGE_TYPES_UNITS	342[A2]	RATE_CURRENCY_REF	177[A2]
<i>inv_rate_max_units</i>		<i>is_csr_default</i>	
USAGE_TYPES_UNITS	342[A2]	CSR_ACCT_SEG	191[A1]
<i>investigator</i>		<i>is_csr_enterable</i>	
CIBER_INCOLLECTS_ERROR	145[A1]	NRC_TRANS_DESCR	94[A2]
<i>invoice_amount</i>		<i>is_current</i>	
JNL_DETAIL	242[CC]	CUSTOMER_ID_ACCT_MAP	206[CC]
JNL_TRANS	249[CC]	CUSTOMER_ID_EQUIP_MAP	207[CC]
OUTCOLLECT_BATCH_DETAIL	102[A2]	CUSTOMER_ID_EQUIP_MAP_VIEW	
<i>invoice_billing_type</i>			211[CC]
ABI_INVOICE	36[CC]		

<i>is_custom</i>		CLEARING_HOUSE_ID_REF	159[A1]
CONTRACT_TYPES	181[A1]	CMF_STATUS_CHG_REASON_REF	
CUSTOMER_CONTRACT	192[CC]	CMF_STATUS_REF	164[A1]
CUSTOMER_CONTRACT_VIEW	202[CC]	COMPONENT_DEFINITION_REF	166[A1]
<i>is_dadl_used</i>		CONNECT_REASON_CODES_REF	169[A1]
INDUSTRY_TYPE_REF	298[A1]	CORRIDOR_PLAN_ID_REF	173[A1]
<i>is_default</i>	9[A1], 9[A2], 11[CC], 33[CC]	COUNTRY_CODE_REF	185[A1]
ABI_SOURCE_REF	13[A1]	CURRENCY_TYPE_REF	187[A1]
ACCESS_REGION_REF	15[A1]	DENIAL_REASON_REF	195[A1]
ACCOUNT_CATEGORY_REF	17[A1]	DEPOSIT_TYPE_REF	198[A1]
ACCT_SEG_REF	21[A1]	DISCONNECT_REASON_REF	200[A1]
ADJ_REASON_CODE_REF	23[A1]	DISCOUNT_THRESH_TIER_ID_REF	204[A1]
AGGR_USAGE_DEFINITIONS_REF	30[A1]	DISTANCE_BANDS_ID_REF	217[A1]
AMP_MODE_REF	34[A1]	EFT_RESPONSE_CODE_REF	220[A1]
ARCH_MODE_REF	37[A1]	EMF_CONFIG_ID_REF	224[A1]
ARCH_TYPE_REF	40[A1]	EMF_STATUS_CHG_REASON_REF	228[A1]
ATM_POPLIST_REF	44[A1]	EMF_STATUS_REF	230[A1]
BALANCE_XFER_DIFF_REF	46[A1]	EMF_SUSPENSION_REASON_REF	232[A1]
BAM_ERROR_CODE_REF	48[A1]	EQUIP_CLASS_CODE_REF	234[A1]
BILL_ADDRESS	53[A1]	EQUIP_TYPE_CODE_REF	239[A1]
BILL_CLASS_REF	54[A1]	EXRATE_CLASS_REF	241[A1]
BILL_DISP METH_REF	57[A1]	EXT_ACCESS_METHOD_REF	244[A1]
BILL_FMT_OPT_REF	59[A1]	EXT_SOURCE_ID_REF	249[A1]
BILL_FMT_SECTION_EXCL_REF	61[A1]	EXT_SOURCE_TYPE_REF	263[A1]
BILL_FMT_SECTION_TYPE_REF	63[A1]	EXTERNAL_ID_TYPE_REF	265[A1]
BILL_FMT_TEMPLATE_CODE_REF	65[A1]	FILE_TYPE_REF	247[A1]
BILL_FORMAT_CODE_TYPE_REF	67[A1]	FRANCHISE_CODE_REF	273[A1]
BILL_PERIOD_REF	78[A1]	GENDER_REF	275[A1]
BILL_SIZE	82[A1]	GENERIC_ENUMERATION_REF	277[A1]
BILLING_FREQUENCY_REF	50[A1]	GROUP_TYPE_REF	279[A1]
BONUS_POINT_ID_REF	87[A1]	GUI_INDICATOR_REF	290[A1]
BONUS_POINT_TRANS_TYPE_REF	90[A1]	INDUSTRY_TYPE_REF	295[A1]
CCARD_RESPONSE_CODE_REF	94[A1]	INSERT_FOREIGN_KEY_REF	298[A1]
CCARD_TYPE_CODE_REF	97[A1]	INSERT_GRP_ID_REF	300[A1]
CDR_ADJ_ERROR_REF	100[A1]	JNL_EMF_BOOK_REF	302[A1]
CDR_COMP_STATUS_REF	114[A1]	JURISDICTION_CLASS_REF	15[A2]
CELL_ID_REF	131[A1]	LANGUAGE_CODE_REF	43[A2]
CLASS_OF_SERVICE_CODE_REF	154[A1]	LBX_ERROR_STATUS_REF	49[A2]
		LBX_SOURCE_ID_REF	58[A2]
		LOCATION_CODE_REF	66[A2]
		MKT_CODE_REF	69[A2]
		MOBILE_ZONE_REF	73[A2]
			76[A2]

MOBILE_ZONE_TYPE_REF	77[A2]	<i>is_deletable</i>	
MSG_GRP_ID_REF	80[A2]	ARCH_TABLE_DEPENDS_REF	39[A1]
MSG_TRIGGER_ID_REF	82[A2]	<i>is_designated</i>	
NET_ACTION_REF	84[A2]	GROUP_MEMBER	232[CC]
NET_INTERFACE_REF	88[A2]	<i>is_disconnect_credit</i>	
OPEN_ITEM_ID_REF	98[A2]	ADJ_TRANS_DESCR	27[A1]
OWNING_COST_CTR_REF	105[A2]	<i>is_displayed_onbill</i>	
PACKAGE_DEFINITION_REF	111[A2]	ADJ_TRANS_DESCR	27[A1]
PACKAGE_GROUP_REF	113[A2]	BMF_TRANS_DESCR	85[A1]
PLAN_ID_CREDIT_REF	120[A2]	BONUS_POINT_TRANS_TYPE_REF	
PLAN_ID_DISCOUNT_REF	122[A2]	NRC_TRANS_DESCR	94[A2]
POINT_CATEGORY_REF	124[A2]	<i>is_distributed</i>	
POINT_CLASS_REF	126[A2]	TAX_PKG_INST_ID_REF	289[A2]
POINT_REGION_REF	128[A2]	<i>is_e911_required</i>	
PRIVACY_LEVEL_REF	130[A2]	INDUSTRY_TYPE_REF	298[A1]
PROVIDER_CLASS_REF	163[A2]	<i>is_ebcdic</i>	
RATABLE_UNIT_CLASS_REF	165[A2]	RECORD_FIELD_DEF	207[A2]
RATE_CLASS_DESCR	170[A2]	<i>is_empty</i>	
RATE_CURRENCY_GROUP_REF	174[A2]	CDR_CONSOLIDATION_KEYS	117[A1]
RATE_CURRENCY_REF	177[A2]	<i>is_enterable</i>	
RATE_PERIOD_REF	188[A2]	NRC_TRANS_DESCR	94[A2]
RECORD_TYPE_REF	215[A2]	<i>is_exclusion</i>	
REFUND_REASON_CODE_REF	219[A2]	AGGR_USAGE_RESTRICTIONS	33[A1]
REGULATORY_ID_REF	221[A2]	DISCOUNT_RESTRICTIONS	213[A1]
REV_RCV_COST_CENTER_REF	224[A2]	DISCOUNT_TARGETS	216[A1]
ROAMING_OPERATOR_REF	229[A2]	UNIT_CR_RESTRICTIONS	321[A2]
SALES_CHANNEL_REF	241[A2]	<i>is_exclusive</i>	
SERVER_CATEGORY_REF	245[A2]	DISCOUNT_DEFINITIONS	209[A1]
SERVICE_CENTER_TYPE_REF	250[A2]	PLAN_ID_DISCOUNT_REF	122[A2]
SERVICE_PROVIDERS_REF	254[A2]	<i>is_external</i>	
STATE_REF	256[A2]	BONUS_POINT_TRANS_TYPE_REF	
STATUS_REASON_REF	259[A2]	TAX_PKG_INST_ID_REF	289[A2]
STATUS_REF	261[A2]	<i>is_franchise</i>	
STATUS_TYPE_REF	263[A2]	CUSTOMER_ID_EQUIP_MAP	208[CC]
SUSPENDED_REASON_REF	266[A2]	CUSTOMER_ID_EQUIP_MAP_VIEW	
TAX_PKG_INST_ID_REF	289[A2]	EXTERNAL_ID_EQUIP_MAP	21[CC]
TAX_STATUS_REF	294[A2]	EXTERNAL_ID_EQUIP_MAP_VIEW	
TAX_TYPE_COMM_REF	300[A2]	<i>is_from_inventory</i>	
TIMEZONE_REF	304[A2]	TAX_PKG_INST_ID_REF	290[A2]
TRANS_SOURCE_REF	307[A2]	DISCOUNT_DEFINITIONS	208[A1]
UNITS_TYPE_REF	310[A2]	<i>is_graduated</i>	
VIP_CODE_REF	345[A2]	DISCOUNT_RESTRICTIONS	213[A1]
XFER_REASON_CODES_REF	349[A2]	DISCOUNT_TARGETS	216[A1]
ZONE_CLASS_REF	352[A2]	UNIT_CR_RESTRICTIONS	321[A2]
ZONE_REF	354[A2]	<i>is_gross</i>	
<i>is_default_rate</i>		EXTERNAL_ID_EQUIP_MAP	25[CC]
RATE_USAGE	197[A2]	EXTERNAL_ID_EQUIP_MAP_VIEW	

<i>is_gui_pretax</i>		CDR_ADJ_ERROR_REF	100[A1]
TAX_PKG_INST_ID_REF	289[A2]	CDR_COMP_STATUS_REF	114[A1]
<i>is_icb_corridor</i>		CELL_ID_REF	131[A1]
CORRIDOR_PLAN_ID_REF	184[A1]	CLASS_OF_SERVICE_CODE_REF	
<i>is_ignored</i>			154[A1]
RAW_USAGE_FIELD_MAPPING	205[A2]	CLEARING_HOUSE_ID_REF	159[A1]
RECORD_TYPE_REF	215[A2]	CMF_STATUS_CHG_REASON_REF	
<i>is_immediate</i>			164[A1]
NET_INTERFACE_ACTIONS	86[A2]	CMF_STATUS_REF	166[A1]
<i>is_inclusive</i>		COMPONENT_DEFINITION_REF	
BILL_INVOICE_TAX	93[CC]		169[A1]
CDR_DATA_TAX	126[CC]	CONNECT_REASON_CODES_REF	
TAX_PKG_INST_ID_REF	290[A2]	CORRIDOR_PLAN_ID_REF	185[A1]
<i>is_index_key</i>		COUNTRY_CODE_REF	187[A1]
RECORD_FIELD_DEF	208[A2]	CURRENCY_TYPE_REF	195[A1]
<i>is_internal</i>		DENIAL_REASON_REF	198[A1]
ABI_SOURCE_REF	13[A1]	DEPOSIT_TYPE_REF	200[A1]
ACCESS_REGION_REF	15[A1]	DISCONNECT_REASON_REF	204[A1]
ACCOUNT_CATEGORY_REF	17[A1]	DISCOUNT_THRESH_TIER_ID_REF	
ACCT_SEG_REF	21[A1]	DISTANCE_BANDS_ID_REF	220[A1]
ADJ_REASON_CODE_REF	23[A1]	EFT_RESPONSE_CODE_REF	224[A1]
AGGR_USAGE_DEFINITIONS_REF	30[A1]	EMF_CONFIG_ID_REF	228[A1]
AMP_MODE_REF	34[A1]	EMF_STATUS_CHG_REASON_REF	
ARCH_MODE_REF	37[A1]	EMF_STATUS_REF	232[A1]
ARCH_TYPE_REF	40[A1]	EMF_SUSPENSION_REASON_REF	
ATM_POPLIST_REF	44[A1]		234[A1]
BALANCE_XFER_DIFF_REF	46[A1]	EQUIP_CLASS_CODE_REF	239[A1]
BAM_ERROR_CODE_REF	48[A1]	EQUIP_TYPE_CODE_REF	241[A1]
BILL_CLASS_REF	54[A1]	EXRATE_CLASS_REF	244[A1]
BILL_DISP METH_REF	57[A1]	EXT_ACCESS_METHOD_REF	249[A1]
BILL_FMT_OPT_REF	59[A1]	EXT_SOURCE_ID_REF	263[A1]
BILL_FMT_SECTION_EXCL_REF	61[A1]	EXT_SOURCE_TYPE_REF	265[A1]
BILL_FMT_SECTION_TYPE_REF	63[A1]	EXTERNAL_ID_TYPE_REF	247[A1]
BILL_FMT_TEMPLATE_CODE_REF	65[A1]	FILE_TYPE_REF	273[A1]
BILL_FORMAT_CODE_TYPE_REF	67[A1]	FRANCHISE_CODE_REF	275[A1]
BILL_PERIOD_REF	78[A1]	GENDER_REF	277[A1]
BILLING_FREQUENCY_REF	50[A1]	GENERIC_ENUMERATION_REF	279[A1]
BONUS_POINT_ID_REF	87[A1]	GROUP_TYPE_REF	290[A1]
BONUS_POINT_TRANS_TYPE_REF	90[A1]	GUI_INDICATOR_REF	295[A1]
CCARD_RESPONSE_CODE_REF	94[A1]	INDUSTRY_TYPE_REF	298[A1]
CCARD_TYPE_CODE_REF	97[A1]	INSERT_FOREIGN_KEY_REF	300[A1]
		INSERT_GRP_ID_REF	302[A1]
		JNL_EMF_BOOK_REF	15[A2]
		JURISDICTION_CLASS_REF	43[A2]
		KEY_DOMAIN	45[A2]

LANGUAGE_CODE_REF	49[A2]	VIP_CODE_REF	345[A2]
LBX_ERROR_STATUS_REF	58[A2]	XFER_REASON_CODES_REF	349[A2]
LBX_SOURCE_ID_REF	66[A2]	ZONE_CLASS_REF	352[A2]
LOCATION_CODE_REF	69[A2]	ZONE_REF	354[A2]
MKT_CODE_REF	73[A2]	<i>is_international</i>	
MOBILE_ZONE_REF	76[A2]	USAGE_POINTS	326[A2]
MOBILE_ZONE_TYPE_REF	77[A2]	<i>is_journalable</i>	
MSG_GRP_ID_REF	80[A2]	ADJ_TRANS_DESCR	27[A1]
MSG_TRIGGER_ID_REF	82[A2]	BMF_TRANS_DESCR	85[A1]
NET_ACTION_REF	84[A2]	NRC_TRANS_DESCR	94[A2]
NET_INTERFACE_REF	88[A2]	<i>is_late_fee_exempt</i>	
OPEN_ITEM_ID_REF	98[A2]	ADJ_TRANS_DESCR	28[A1]
OWNING_COST_CTR_REF	105[A2]	CDR_DATA_TAX	126[CC]
PACKAGE_DEFINITION_REF	111[A2]	NRC_TRANS_DESCR	96[A2]
PACKAGE_GROUP_REF	113[A2]	PRODUCT_ELEMENTS	158[A2]
PLAN_ID_CREDIT_REF	120[A2]	TAX_PKG_INST_ID_REF	290[A2]
PLAN_ID_DISCOUNT_REF	122[A2]	USAGE_TYPES	338[A2]
POINT_CATEGORY_REF	124[A2]	<i>is_latefee_exempt</i>	
POINT_CLASS_REF	126[A2]	VIP_CODE_REF	345[A2]
POINT_REGION_REF	128[A2]	<i>is_lidb_required</i>	
PRIVACY_LEVEL_REF	130[A2]	INDUSTRY_TYPE_REF	298[A1]
PROCESS_WORK_CARDINAL_REF	142[A2]	<i>is_master</i>	
PROVIDER_CLASS_REF	163[A2]	ARCH_TABLE_DEPENDS_REF	39[A1]
RATABLE_UNIT_CLASS_REF	165[A2]	<i>is_modifiable</i>	
RATE_CURRENCY_GROUP_REF	174[A2]	ADJ_TRANS_DESCR	27[A1]
RATE_CURRENCY_REF	177[A2]	NRC_TRANS_DESCR	94[A2]
RATE_PERIOD_REF	188[A2]	<i>is_multi_threshold</i>	
RECORD_TYPE_REF	215[A2]	PLAN_ID_DISCOUNT_REF	122[A2]
REFUND_REASON_CODE_REF	219[A2]	<i>is_negative_bill_adj</i>	
REGULATORY_ID_REF	221[A2]	ADJ_TRANS_DESCR	28[A1]
REV_RCV_COST_CENTER_REF	224[A2]	<i>is_override</i>	
ROAMING_OPERATOR_REF	229[A2]	UNIT_CREDIT_PROFILES	350[CC]
SALES_CHANNEL_REF	241[A2]	<i>is_part_of_component</i>	
SERVER_CATEGORY_REF	245[A2]	CUSTOMER_CONTRACT	191[CC]
SERVICE_CENTER_TYPE_REF	250[A2]	CUSTOMER_CONTRACT_VIEW	201[CC]
SERVICE_PROVIDERS_REF	254[A2]	PRODUCT	282[CC]
STATE_REF	256[A2]	PRODUCT_VIEW	294[CC]
STATUS_REASON_REF	259[A2]	<i>is_pic_required</i>	
STATUS_REF	261[A2]	INDUSTRY_TYPE_REF	298[A1]
STATUS_TYPE_REF	263[A2]	<i>is_prepaid</i>	
SUSPENDED_REASON_REF	266[A2]	ACCOUNT_CATEGORY_REF	17[A1]
TAX_PKG_INST_ID_REF	289[A2]	SERVICE	332[CC]
TAX_STATUS_REF	294[A2]	SERVICE_VIEW	343[CC]
TAX_TYPE_COMM_REF	300[A2]	<i>is_prerated</i>	
TIMEZONE_REF	304[A2]	USAGE_TYPES	334[A2]
TRANS_SOURCE_REF	307[A2]	<i>is_pretaxed</i>	
UNITS_TYPE_REF	310[A2]	NRC_TRANS_DESCR	94[A2]

<i>is_promotion</i>		<i>item_number</i>	
CONTRACT_TYPES	178[A1]	ABI_TEXT	40[CC]
<i>is_rc</i>		<i>ixc_provider_id</i>	
UNITS_TYPE_REF	310[A2]	SERVICE	330[CC]
<i>is_refinance</i>		SERVICE_VIEW	341[CC]
ADJ_TRANS_DESCR	27[A1]	J	
<i>is_required</i>		<i>je_category_name</i>	
BILL_INSERT_GROUPS	75[A1]	JNL_CUSTOM	13[A2]
PARAM_DEF	116[A2]	<i>jnl_backout</i>	
RAW_USAGE_FIELD_MAPPING	204[A2]	JNL_RUNS	40[A2]
RECORD_FIELD_DEF	208[A2]	JNL_RUNS_STATUS	248[CC]
<i>is_reseller</i>		<i>jnl_code_id</i>	
ACCOUNT_CATEGORY_REF	17[A1]	JNL_CUSTOM	12[A2]
<i>is_rfr_required</i>		JNL_DETAIL	242[CC]
EXT_CONTACTS	254[A1]	JNL_KEYS	25[A2]
<i>is_send</i>		JNL_KEYS_DEFAULT	30[A2]
CLEARING_HOUSE_CONTACTS	156[A1]	JNL_TRANS	250[CC]
EXT_CONTACTS	251[A1]	<i>jnl_completion_dt</i>	
FILE_STATUS	270[A1]	JNL_RUNS_STATUS	248[CC]
<i>is_start_bounded</i>		<i>jnl_earned_thru_dt</i>	
CONTRACT_UNIT_CR	182[CC]	BILL_INVOICE	70[CC]
<i>is_symbol_first</i>		JNL_INVOICE_AUDIT	246[CC]
RATE_CURRENCY_REF	177[A2]	JNL_WORK_LIST	252[CC]
<i>is_system_generated</i>		<i>jnl_end_dt</i>	
BONUS_POINT_TRANS_TYPE_REF		JNL_CYCLE	14[A2]
	90[A1]	JNL_DETAIL	243[CC]
<i>is_tax</i>		JNL_RUNS	40[A2]
PREPAYMENT_DISTRIBUTION	279[CC]	JNL_RUNS_STATUS	247[CC]
<i>is_time_sensitive</i>		JNL_TRANS	249[CC]
STATUS_TYPE_REF	263[A2]	TCU_DET REP	346[CC]
<i>is_usage</i>		<i>jnl_feed_status</i>	
UNITS_TYPE_REF	310[A2]	JNL_DETAIL	244[CC]
<i>is_variable_length</i>		JNL_TRANS	251[CC]
RECORD_TYPE_REF	215[A2]	<i>jnl_field</i>	
<i>is_variable_size</i>		JNL_FEED_LAYOUT	20[A2]
RECORD_FIELD_DEF	209[A2]	<i>jnl_field_db_cr</i>	
<i>is_viewable</i>		JNL_FEED_LAYOUT	19[A2]
ADJ_TRANS_DESCR	27[A1]	<i>jnl_field_description</i>	
EXTERNAL_ID_TYPE_REF	247[A1]	JNL_FEED_LAYOUT	21[A2]
NRC_TRANS_DESCR	94[A2]	<i>jnl_field_format</i>	
<i>is_viewable_on_gui</i>		JNL_FEED_LAYOUT	21[A2]
BONUS_POINT_TRANS_TYPE_REF		<i>jnl_field_position</i>	
	89[A1]	JNL_FEED_LAYOUT	19[A2]
<i>isdst</i>		<i>jnl_field_size</i>	
TIMEZONE_REF	304[A2]	JNL_FEED_LAYOUT	21[A2]

<i>jnl_field_trim</i>		<i>journal_entry</i>	
JNL_FEED_LAYOUT	21[A2]	JNL_CUSTOM	13[A2]
<i>jnl_hardcoded_value</i>		<i>jurisdiction</i>	
JNL_FEED_LAYOUT	21[A2]	ADJ	51[CC]
<i>jnl_key_status</i>		BILL_FORMAT_TEMPLATE	72[A1]
JNL_KEYS	29[A2]	CDR_DATA	118[CC]
JNL_KEYS_DEFAULT	35[A2]	CDR_DATA_WORK	118[A1]
<i>jnl_ref_no</i>		CDR_FREE	127[CC]
JNL_DETAIL	241[CC]	CDR_OUTCOLLECTS	125[A1]
JNL_ERRORS	245[CC]	CIBER_INCOLLECTS	140[A1]
JNL_INVOICE_AUDIT	246[CC]	CIBER_INCOLLECTS_ERROR	144[A1]
JNL_RUNS_STATUS	247[CC]	COUNTRY_JURISDICTION	190[A1]
JNL_TRANS	249[CC]	DISCOUNT_DEFINITIONS	208[A1]
<i>jnl_ref_no_serv</i>		DISTANCE_BANDS	219[A1]
JNL_DETAIL	241[CC]	JNL_DETAIL	242[CC]
JNL_ERRORS	245[CC]	JNL_KEYS	28[A2]
JNL_INVOICE_AUDIT	246[CC]	JNL_KEYS_DEFAULT	34[A2]
JNL_RUNS_STATUS	247[CC]	JNL_TRANS	249[CC]
JNL_TRANS	249[CC]	JURISDICTIONS	42[A2]
<i>jnl_run_dt</i>		OUTCOLLECT_BATCH_DETAIL	102[A2]
JNL_RUNS	40[A2]	PRODUCT_JURISDICTION	160[A2]
JNL_RUNS_STATUS	247[CC]	PRODUCT_RATE_KEY	288[CC]
<i>jnl_start_dt</i>		RATE_PERIODS	186[A2]
JNL_CYCLE	14[A2]	RATE_RC	191[A2]
<i>jnl_status</i>		RATE_USAGE	196[A2]
BILL_INVOICE	70[CC]	RATE_USAGE_OVERRIDES	202[A2]
JNL_INVOICE_AUDIT	246[CC]	TAX_CODES_COMM	281[A2]
JNL_WORK_LIST	252[CC]	UNIT_CR_RATE_LIMIT	316[A2]
OUTCOLLECT_BATCH	101[A2]	USAGE_JURISDICTION	322[A2]
<i>jnl_subcycle_end_dt</i>		USAGE_TYPES_UNITS	342[A2]
JNL_DETAIL	243[CC]	<i>jurisdiction_class</i>	
JNL_RUNS	40[A2]	JURISDICTION_CLASS_REF	43[A2]
JNL_RUNS_STATUS	247[CC]	JURISDICTION_CLASS_VALUES	44[A2]
JNL_SUBCYCLE	41[A2]	JURISDICTIONS	42[A2]
JNL_TRANS	250[CC]	<i>jurisdiction_mask</i>	
<i>jnl_subcycle_start_dt</i>		JNL_KEYS_MASK	37[A2]
JNL_SUBCYCLE	41[A2]	<i>justify_type</i>	
<i>jnl_table</i>		RECORD_FIELD_DEF	209[A2]
JNL_FEED_LAYOUT	19[A2]	K	
<i>jnl_type</i>		<i>keep_running_total</i>	
JNL_RUNS	40[A2]	USAGE_TYPES	334[A2]
JNL_RUNS_STATUS	247[CC]	<i>key_display_string</i>	
<i>journal_code</i>		PROCESS_WORK_CARDINAL_VALUES	
ADJ_REASON_CODE_REF	23[A1]	143[A2]	
<i>journal_delay</i>		<i>key_nm</i>	
NRC_TRANS_DESCR	95[A2]	ARB_TAB_DEPENDS	36[A1]

<i>key_order_level</i>		BILL_FMT_SECTION_TYPE_VALUES 64[A1]
OPEN_ITEM_PRIORITY_MAP	100[A2]	
<i>key1</i>		BILL_FMT_TEMPLATE_CODE_VALUES 66[A1]
PROCESS_WORK	140[A2]	
<i>key1_domain_id</i>		BILL_FORMAT_CODE_TYPE_VALUES 68[A1]
PROCESS_WORK_CARDINAL_REF	142[A2]	
<i>key2</i>		BILL_INSERTS 73[A1]
PROCESS_WORK	140[A2]	BILL_INVOICE 70[CC]
<i>key2_domain_id</i>		BILL_MESSAGES 76[A1]
PROCESS_WORK_CARDINAL_REF	142[A2]	BILL_PERIOD_VALUES 79[A1]
<i>key3</i>		BILLING_FREQUENCY_VALUES 51[A1]
PROCESS_WORK	140[A2]	BONUS_POINT_ID_VALUES 88[A1]
<i>key3_domain_id</i>		BONUS_POINT_TRANS_TYPE_VALUES 91[A1]
PROCESS_WORK_CARDINAL_REF	142[A2]	CCARD_RESPONSE_CODE_VALUES 95[A1]
<i>knn_merchant_acct</i>		CCARD_TYPE_CODE_VALUES 98[A1]
CLEARING_HOUSE_INFO	161[A1]	CDR_ADJ_ERROR_VALUES 101[A1]
<i>knn_merchant_id</i>		CDR_COMP_STATUS_VALUES 115[A1]
CLEARING_HOUSE_INFO	161[A1]	CELL_ID_VALUES 132[A1]
L		CLASS_OF_SERVICE_CODE_VALUES 155[A1]
<i>lac</i>		CLEARING_HOUSE_ID_VALUES 160[A1]
MOBILE_GLOBAL_CELL_ID	75[A2]	CMF 137[CC]
<i>language_code</i>		CMF_STATUS_CHG_REASON_VALUES 165[A1]
ABI_SOURCE_VALUES	14[A1]	CMF_STATUS_VALUES 167[A1]
ACCESS_REGION_VALUES	16[A1]	COMPONENT_DEFINITION_VALUES 170[A1]
ACCOUNT_BALANCES	42[CC]	CONNECT_REASON_CODES_VALUES 174[A1]
ACCOUNT_CATEGORY_VALUES	18[A1]	CORRIDOR_PLAN_ID_VALUES 186[A1]
ACCT_SEG_VALUES	22[A1]	COUNTRY_CODE_VALUES 188[A1]
ADJ_REASON_CODE_VALUES	24[A1]	CURRENCY_TYPE_VALUES 196[A1]
AGGR_USAGE_DEFINITIONS_VALUES	31[A1]	DB_MESSAGES 197[A1]
AMP_MODE_VALUES	35[A1]	DENIAL_REASON_VALUES 199[A1]
ARCH_MODE_VALUES	38[A1]	DEPOSIT_TYPE_VALUES 201[A1]
ARCH_TYPE_VALUES	41[A1]	DESCRIPTIONS 202[A1]
ATM_POPLIST_VALUES	45[A1]	DISCONNECT_REASON_VALUES 205[A1]
BALANCE_XFER_DIFF_VALUES	47[A1]	DISCOUNT_THRESH_TIER_ID_VALUES 218[A1]
BAM_ERROR_CODE_VALUES	49[A1]	DISTANCE_BANDS_ID_VALUES 221[A1]
BILL_CLASS_VALUES	55[A1]	
BILL_DISP METH_VALUES	58[A1]	
BILL_FMT_OPT_VALUES	60[A1]	
BILL_FMT_SECTION_EXCL_VALUES	62[A1]	

EFT_RESPONSE_CODE_VALUES	225[A1]	PACKAGE_DEFINITION_VALUES	112[A2]
EMF_CONFIG_ID_VALUES	229[A1]	PACKAGE_GROUP_VALUES	114[A2]
EMF_STATUS_CHG_REASON_VALUES	231[A1]	PLAN_ID_CREDIT_VALUES	121[A2]
EMF_STATUS_VALUES	233[A1]	PLAN_ID_DISCOUNT_VALUES	123[A2]
EMF_SUSPENSION_REASON_VALUES	235[A1]	POINT_CATEGORY_VALUES	125[A2]
EQUIP_CLASS_CODE_VALUES	240[A1]	POINT_CLASS_VALUES	127[A2]
EQUIP_TYPE_CODE_VALUES	242[A1]	POINT_REGION_VALUES	129[A2]
EXRATE_CLASS_VALUES	245[A1]	PRIVACY_LEVEL_VALUES	131[A2]
EXT_ACCESS_METHOD_VALUES	250[A1]	PROCESS_WORK_CARDINAL_VALUES	143[A2]
EXT_SOURCE_ID_VALUES	264[A1]	PROVIDER_CLASS_VALUES	164[A2]
EXT_SOURCE_TYPE_VALUES	266[A1]	RATABLE_UNIT_CLASS_VALUES	166[A2]
EXTERNAL_ID_TYPE_VALUES	248[A1]	RATE_CURRENCY_GROUP_VALUES	175[A2]
FILE_TYPE_VALUES	274[A1]	RATE_CURRENCY_VALUES	178[A2]
FRANCHISE_CODE_VALUES	276[A1]	RATE_PERIOD_VALUES	189[A2]
GENDER_VALUES	278[A1]	RECORD_TYPE_VALUES	218[A2]
GENERIC_ENUMERATION_VALUES	280[A1]	REFUND_REASON_CODE_VALUES	220[A2]
GLOBAL_ACCOUNT_BALANCES	284[A1]	REGULATORY_ID_VALUES	222[A2]
GROUP_TYPE_VALUES	291[A1]	REPORT_ADJ	308[CC]
GUI_INDICATOR_VALUES	296[A1]	REPORT_PAY_DETAIL	326[CC]
GUI_MESSAGES	297[A1]	REV_RCV_COST_CENTER_VALUES	225[A2]
INDUSTRY_TYPE_VALUES	299[A1]	ROAMING_OPERATOR_VALUES	230[A2]
INSERT_FOREIGN_KEY_VALUES	301[A1]	SALES_CHANNEL_VALUES	242[A2]
INSERT_GRP_ID_VALUES	303[A1]	SERVER_CATEGORY_VALUES	246[A2]
JNL_EMF_BOOK_VALUES	16[A2]	SERVICE_CENTER_TYPE_VALUES	251[A2]
JURISDICTION_CLASS_VALUES	44[A2]	SERVICE_PROVIDERS_VALUES	255[A2]
KEY_DOMAIN_SYMBOL_VALUES	47[A2]	STATE_VALUES	257[A2]
LANGUAGE_CODE_REF	49[A2]	STATUS_REASON_VALUES	260[A2]
LANGUAGE_CODE_VALUES	50[A2]	STATUS_TYPE_VALUES	264[A2]
LBX_ERROR_STATUS_VALUES	59[A2]	STATUS_VALUES	265[A2]
LBX_SOURCE_ID_VALUES	67[A2]	SUSPENDED_REASON_VALUES	267[A2]
LOCATION_CODE_VALUES	70[A2]	TAX_PKG_INST_ID_VALUES	291[A2]
MKT_CODE_VALUES	74[A2]	TAX_STATUS_VALUES	295[A2]
MOBILE_ZONE_TYPE_VALUES	78[A2]	TAX_THRESHOLD_VALUES	299[A2]
MOBILE_ZONE_VALUES	79[A2]	TAX_TYPE_COMM_VALUES	301[A2]
MSG_GRP_ID_VALUES	81[A2]	TIMEZONE_VALUES	305[A2]
MSG_TRIGGER_ID_VALUES	83[A2]	TRANS_SOURCE_VALUES	308[A2]
NET_ACTION_VALUES	85[A2]	TRANSLATION	306[A2]
NET_INTERFACE_VALUES	89[A2]	UNITS_TYPE_VALUES	311[A2]
NOTE_CODES	90[A2]	USAGE_POINTS_TEXT	327[A2]
OPEN_ITEM_ID_VALUES	99[A2]	VIP_CODE_VALUES	346[A2]
OWNING_COST_CTR_VALUES	106[A2]		

XFER_REASON_CODES_VALUES	350[A2]	<i>lbx_account_id</i>	
ZONE_CLASS_VALUES	353[A2]	LBX_ERROR	56[A2]
ZONE_VALUES	355[A2]	LBX_POST_DATED	63[A2]
<i>last_access_dt</i>		<i>lbx_cycle_type</i>	
EXT_CONTACTS_STATUS	255[A1]	LBX_SOURCE_ID_REF	65[A2]
<i>last_call_dt</i>		<i>lbx_error_status</i>	
ROAMING_TRANSFER_DETAIL	232[A2]	LBX_ERROR	57[A2]
<i>last_file_in</i>		LBX_ERROR_STATUS_REF	58[A2]
CIBER_OPERATOR_SID_BID	148[A1]	LBX_ERROR_STATUS_VALUES	59[A2]
<i>last_file_in_dt</i>		LBX_POST_DATED	64[A2]
OUTCOLLECT_BATCH_SEQ_NUM	103[A2]	<i>lbx_file_status</i>	
		LBX_FILE_STATUS	60[A2]
<i>last_file_out</i>		<i>lbx_payment_id</i>	
CIBER_OPERATOR_SID_BID	148[A1]	LBX_ERROR	57[A2]
<i>last_file_out_dt</i>		LBX_POST_DATED	64[A2]
OUTCOLLECT_BATCH_SEQ_NUM	103[A2]	<i>lbx_source_type</i>	
		LBX_SOURCE_ID_REF	65[A2]
<i>last_name</i>		<i>lct_date</i>	
CONTACTS	177[CC]	LCT_METRICS	68[A2]
<i>last_reviewed_by</i>		<i>lct_metrics</i>	
NRC_KEY	265[CC]	LCT_METRICS	68[A2]
<i>last_reviewed_name</i>		<i>le</i>	
ADJ	51[CC]	JNL_CUSTOM	13[A2]
REFUND	305[CC]	<i>lec_provider_id</i>	
<i>last_scanline</i>		SERVICE	330[CC]
BILL_FILES	62[CC]	SERVICE_VIEW	341[CC]
<i>last_seq_no</i>		<i>level_code</i>	
MCAP_FLASH_SEQUENCE_NUMBERS	71[A2]	PRODUCT_ELEMENTS	156[A2]
		RATE_CLASS_DESCR	170[A2]
<i>last_use_dt</i>		<i>level_identifier</i>	
CUSTOMER_CONTRACT_KEY	194[CC]	ETUC_UPDATES	226[CC]
<i>late_exempt_charges</i>		<i>level_type</i>	
CMF_BALANCE	151[CC]	ETUC_UPDATES	226[CC]
CMF_BALANCE_DETAIL	154[CC]	<i>line_num</i>	
<i>late_fee_grp_id</i>		BILL_MESSAGES	76[A1]
LATE_FEE_ASSIGNMENT	51[A2]	<i>line_range_high</i>	
LATE_FEE_GROUPS	52[A2]	CIBER_LINE_RANGES	146[A1]
<i>late_fee_status</i>		<i>line_range_low</i>	
BMF_DISTRIBUTION	103[CC]	CIBER_LINE_RANGES	146[A1]
<i>late_fee_type_id</i>		<i>local_avg_cputime</i>	
LATE_FEE_GROUPS	52[A2]	BIP_ACCOUNT_TIME_STATS	18[CC]
LATE_FEE_RATES	53[A2]	<i>local_avg_walltime</i>	
LATE_FEE_TYPES	54[A2]	BIP_ACCOUNT_TIME_STATS	18[CC]
		<i>local_last_cputime</i>	
		BIP_ACCOUNT_TIME_STATS	18[CC]

<i>local_last_walltime</i>	BIP_ACCOUNT_TIME_STATS	18[CC]	<i>manual_ccauth_date</i>	BMF	99[CC]
<i>local_loginfile_path</i>	EXT_KERMIT_ACCESS	259[A1]		BMF_UNAPPLIED	107[CC]
<i>local_max_cputime</i>	BIP_ACCOUNT_TIME_STATS	18[CC]		DEPOSIT	215[CC]
<i>local_max_walltime</i>	BIP_ACCOUNT_TIME_STATS	18[CC]	<i>manual_code</i>	ERROR_BILL	225[CC]
<i>local_modem</i>	EXT_KERMIT_ACCESS	259[A1]		JNL_ERRORS	245[CC]
<i>local_port_path</i>	EXT_KERMIT_ACCESS	259[A1]	<i>mapping_direction</i>	CIBER_ARBOR_USAGE_TYPE_XREF	
<i>local_speed</i>	EXT_KERMIT_ACCESS	259[A1]			134[A1]
<i>local_work_dir</i>	EXT_KERMIT_ACCESS	259[A1]	<i>mapping_order</i>	RECORD_FIELD_MAP	211[A2]
<i>location_code</i>	JNL_CUSTOM	13[A2]	<i>mapping_type</i>	RECORD_FIELD_MAP	210[A2]
	JNL_DETAIL	242[CC]		market_city	
	JNL_TRANS	250[CC]		CIBER_SID_BID_MARKET	153[A1]
	LOCATION_CODE_REF	69[A2]	<i>market_country_code</i>	CIBER_SID_BID_MARKET	153[A1]
	LOCATION_CODE_VALUES	70[A2]		market_name	
<i>location_region</i>	JNL_DETAIL	242[CC]		CIBER_LINE_RANGES	146[A1]
	JNL_TRANS	250[CC]		<i>market_state_abbr</i>	
<i>location_type</i>	LOCATION_CODE_REF	69[A2]		CIBER_SID_BID_MARKET	153[A1]
<i>log_level</i>	PROCESS_WORK_CARDINAL_REF	142[A2]	<i>marketing_bill_ic1</i>	ABI_INVOICE	37[CC]
				<i>marketing_bill_ic2</i>	37[CC]
				ABI_INVOICE	37[CC]
				<i>marketing_bill_ic3</i>	37[CC]
				ABI_INVOICE	37[CC]
				<i>marketing_bill_ic4</i>	37[CC]
				ABI_INVOICE	37[CC]
<i>logfile_name</i>	PROCESS_RUN	133[A2]		<i>marketing_bill_ic5</i>	37[CC]
<i>lookup_table_name</i>	RECORD_FIELD_MAP	211[A2]		ABI_INVOICE	37[CC]
<i>lookup_threshold_tier_id</i>	RATE_DISCOUNT	180[A2]		<i>marketing_bill_ic6</i>	37[CC]
<i>lower_limit</i>	RATE_AGGR_USAGE	167[A2]		ABI_INVOICE	37[CC]
M				<i>master_file_name</i>	
<i>main_provider_flag</i>	SERVICE_PROVIDERS_REF	252[A2]		USAGE_MASTER_FILE_STATUS	
<i>manual_ccauth_code</i>	BMF	99[CC]			352[CC]
	BMF_UNAPPLIED	107[CC]	<i>max_amount</i>	GROUP_AMOUNT	288[A1]
	DEPOSIT	215[CC]		<i>max_amt</i>	54[A2]
				LATE_FEE_TYPES	
			<i>max_corridors</i>	CORRIDOR_PLAN_ID_REF	185[A1]
				<i>max_days_in</i>	
				CIBER_OPERATOR_SID_BID	148[A1]
				GSM_ROAMING AGREEMENT	293[A1]

<i>max_days_out</i>		<i>member_required</i>
CIBER_OPERATOR_SID_BID	148[A1]	PACKAGE_COMPONENT_MEMBERS
GSM_ROAMING AGREEMENT	293[A1]	109[A2]
<i>max_distance</i>		<i>member_type</i>
DISTANCE_BANDS	219[A1]	PACKAGE_COMPONENT_MEMBERS
<i>max_error_rate</i>		109[A2]
PROCESS_WORK_RATE_SUCCESS_DEF		<i>memo_status</i>
	145[A2]	TICKLER
<i>max_inserts</i>		302[A2]
INSERT_GRP_ID_REF	302[A1]	<i>memo_text</i>
<i>max_installments</i>		TICKLER
NRC_TRANS_DESCR	95[A2]	303[A2]
<i>max_percent_errorred</i>		<i>memo_type</i>
PROCESS_WORK_UNIT_SUCCESS_DEF		TICKLER
	152[A2]	302[A2]
<i>max_ref_no</i>		<i>merchant_account_no</i>
BILL_REF_NO	94[CC]	SERVICE_PROVIDERS_REF
<i>max_size_reached</i>		252[A2]
USAGE_MASTER_FILE_STATUS		<i>merchant_category_code</i>
	353[CC]	SERVICE_PROVIDERS_REF
<i>max_time_gap</i>		252[A2]
EXT_CONTACTS	253[A1]	<i>merchant_city</i>
<i>max_units_errorred</i>		SERVICE_PROVIDERS_REF
PROCESS_WORK_UNIT_SUCCESS_DEF		253[A2]
	152[A2]	<i>merchant_id</i>
<i>maximum_allowed</i>		SERVICE_PROVIDERS_REF
PACKAGE_COMPONENTS	108[A2]	252[A2]
<i>maximum_amount</i>		<i>merchant_name</i>
RATE_LATE_FEE	182[A2]	SERVICE_PROVIDERS_REF
<i>maximum_range_value</i>		252[A2]
CCARD_TYPE_CODE_RANGE	96[A1]	<i>merchant_phone</i>
<i>maximum_rollover_amount</i>		SERVICE_PROVIDERS_REF
UNIT_CR_DEFINITIONS	314[A2]	253[A2]
<i>maximum_rollover_units</i>		<i>merchant_state_prov</i>
UNIT_CR_DEFINITIONS	314[A2]	SERVICE_PROVIDERS_REF
<i>mcc</i>		253[A2]
MCC_COUNTRY_CODES	72[A2]	<i>merchant_zip</i>
MOBILE_GLOBAL_CELL_ID	75[A2]	SERVICE_PROVIDERS_REF
<i>me</i>		253[A2]
JNL_CUSTOM	13[A2]	<i>message_id</i>
<i>member_id</i>		BILL_MESSAGE_GROUPS
PACKAGE_COMPONENT_MEMBERS		77[A1]
	109[A2]	BILL_MESSAGES
		76[A1]
		CMF_MESSAGES
		170[CC]
<i>message_language</i>		<i>message_language</i>
		ERROR_SEVERITIES
		243[A1]
		SYSTEM_MESSAGES
		268[A2]
<i>message_name</i>		<i>message_name</i>
		SYSTEM_MESSAGES
		268[A2]
<i>message_number</i>		<i>message_number</i>
		SYSTEM_MESSAGES
		268[A2]
<i>message_severity</i>		<i>message_severity</i>
		ERROR_SEVERITIES
		243[A1]
		SYSTEM_MESSAGES
		268[A2]
<i>message_text</i>		<i>message_text</i>
		BILL_MESSAGES
		76[A1]
		SYSTEM_MESSAGES
		268[A2]

<i>micr_bank_id</i>		<i>min_percent_processed</i>	
BMF	99[CC]	PROCESS_WORK_UNIT_SUCCESS_DEF	
BMF_UNAPPLIED	107[CC]		151[A2]
LBX_ERROR	56[A2]	<i>min_percent_succeeded</i>	
LBX_POST_DATED	63[A2]	PROCESS_WORK_UNIT_SUCCESS_DEF	
PREPAYMENT	276[CC]		152[A2]
<i>micr_check_num</i>		<i>min_processed_rate</i>	
BMF	99[CC]	PROCESS_WORK_RATE_SUCCESS_DEF	
BMF_UNAPPLIED	107[CC]		145[A2]
LBX_ERROR	56[A2]	<i>min_succeeded_rate</i>	
LBX_POST_DATED	63[A2]	PROCESS_WORK_RATE_SUCCESS_DEF	
PREPAYMENT	276[CC]		145[A2]
<i>micr_dda_num</i>		<i>min_units_processed</i>	
BMF	99[CC]	PROCESS_WORK_UNIT_SUCCESS_DEF	
BMF_UNAPPLIED	107[CC]		151[A2]
LBX_ERROR	56[A2]	<i>min_units_succeeded</i>	
LBX_POST_DATED	63[A2]	PROCESS_WORK_UNIT_SUCCESS_DEF	
PREPAYMENT	276[CC]		151[A2]
<i>middle_name</i>		<i>minimum_amount</i>	
CONTACTS	177[CC]	RATE_LATE_FEE	182[A2]
<i>min_amt</i>		<i>minimum_range_value</i>	
LATE_FEE_TYPES	54[A2]	CCARD_TYPE_CODE_RANGE	96[A1]
<i>min_bal_thresh</i>		<i>minimum_required</i>	
LATE_FEE_TYPES	55[A2]	PACKAGE_COMPONENTS	108[A2]
<i>min_bal_threshold</i>		<i>misc_surcharge</i>	
RATE_LATE_FEE	182[A2]	CIBER_INCOLLECTS	138[A1]
<i>min_billing_units</i>		CIBER_INCOLLECTS_ERROR	143[A1]
USAGE_TYPES	337[A2]	<i>misc_surcharge_desc</i>	
<i>min_charge_amt</i>		CIBER_INCOLLECTS	138[A1]
RATE_USAGE	197[A2]	CIBER_INCOLLECTS_ERROR	143[A1]
<i>min_distance</i>		<i>missed_bill_code</i>	
DISTANCE_BANDS	219[A1]	ABI_SOURCE_REF	13[A1]
<i>min_duration</i>		<i>miu_ccard_account</i>	
CONTRACT_TYPES	180[A1]	CDR_DATA_WORK	120[A1]
<i>min_duration_date</i>		<i>miu_ccard_carrier_code</i>	
CUSTOMER_CONTRACT	191[CC]	CDR_DATA_WORK	120[A1]
CUSTOMER_CONTRACT_VIEW	202[CC]	<i>miu_ccard_expire</i>	
<i>min_duration_units</i>		CDR_DATA_WORK	120[A1]
CONTRACT_TYPES	180[A1]	<i>miu_ccard_ownr_name</i>	
<i>min_notice_date</i>		CDR_DATA_WORK	120[A1]
CUSTOMER_CONTRACT	192[CC]	<i>miu_disp_code</i>	
CUSTOMER_CONTRACT_VIEW	202[CC]	CDR_DATA_WORK	122[A1]
<i>min_notice_delay</i>		<i>miu_disp_status</i>	
CONTRACT_TYPES	180[A1]	CDR_DATA_WORK	122[A1]
<i>min_notice_units</i>		<i>miu_error_code1</i>	
CONTRACT_TYPES	180[A1]	CDR_DATA_WORK	122[A1]

<i>miu_error_code2</i>		<i>mobile_zone</i>	
CDR_DATA_WORK	122[A1]	MOBILE_GLOBAL_CELL_ID	75[A2]
<i>miu_error_code3</i>		MOBILE_SERVICE_ZONES	257[CC]
CDR_DATA_WORK	122[A1]	MOBILE_ZONE_REF	76[A2]
<i>miu_investigator</i>		MOBILE_ZONE_VALUES	79[A2]
CDR_DATA_WORK	122[A1]	USAGE_POINTS	326[A2]
<i>miu_locked_by</i>		<i>mobile_zone_type</i>	
CDR_DATA_WORK	122[A1]	MOBILE_SERVICE_ZONES	257[CC]
<i>miu_notes</i>		MOBILE_ZONE_TYPE_REF	77[A2]
CDR_DATA_WORK	122[A1]	MOBILE_ZONE_TYPE_VALUES	78[A2]
<i>miu_queue</i>		<i>module</i>	
CDR_DATA_WORK	122[A1]	CLEARING_HOUSE_CONTACTS	156[A1]
<i>mkt_code</i>		CLEARING_HOUSE_INFO	161[A1]
ACCT_SEG_MAP	20[A1]	PROCESS_SOCKET	137[A2]
BILL_INSERT_GROUPS	75[A1]	REPORT_PAY_DETAIL	326[CC]
BILL_MESSAGE_GROUPS	77[A1]	SYSTEM_PARAMETERS	270[A2]
CDR_DATA_WORK	119[A1]	TRANS_SOURCE_REF	307[A2]
CMF	142[CC]	<i>module_name</i>	
COMPONENT_CMF_ELIGIBILITY	168[A1]	GROUP_AMOUNT	288[A1]
JNL_DETAIL	243[CC]	GROUP_FUNCTION	289[A1]
JNL_KEYS	28[A2]	PROCESS_RUN	133[A2]
JNL_KEYS_DEFAULT	34[A2]	PROCESS_WORK_CARDINAL_REF	142[A2]
JNL_TRANS	250[CC]	PROCESS_WORK_CARDINAL_VALUES	143[A2]
JNL_WORK_LIST	252[CC]	PROCESS_WORK_RATE_SUCCESS_DEF	144[A2]
LATE_FEE_ASSIGNMENT	51[A2]	PROCESS_WORK_STATUS_DEF	150[A2]
LBX_ERROR	57[A2]	PROCESS_WORK_UNIT_SUCCESS_DEF	151[A2]
LBX_POST_DATED	64[A2]	SYSTEM_MESSAGES	268[A2]
MKT_CODE_REF	73[A2]	SYSTEM_MODULES	269[A2]
MKT_CODE_VALUES	74[A2]	<i>money_value</i>	
NET_INTERFACE_ELIGIBILITY	87[A2]	CDR_DATA_DUC	124[CC]
PACKAGE_CMF_ELIGIBILITY	107[A2]	<i>month</i>	
TCU_DET REP	346[CC]	RATE_PERIODS	186[A2]
<i>mkt_code_mask</i>		<i>move_dt</i>	
JNL_KEYS_MASK	37[A2]	ACCOUNT_MOVE_STATUS	15[CC]
<i>mnc</i>		<i>mps_miu_dt</i>	
MOBILE_GLOBAL_CELL_ID	75[A2]	CDR_DATA_WORK	122[A1]
<i>mobile_call_direction</i>		<i>msc_total</i>	
USAGE_TYPES_FEATURES	339[A2]	CC_BALANCE	99[A1]
<i>mobile_country_code</i>		<i>msg</i>	
GSM_ROAMING AGREEMENT	292[A1]	DB_MESSAGES	197[A1]
<i>mobile_network_code</i>		<i>msg_acct_digits</i>	
GSM_ROAMING AGREEMENT	292[A1]	CIBER_INCOLLECTS	138[A1]
		CIBER_INCOLLECTS_ERROR	143[A1]

<i>msg_foreign_key</i>		CDR_RERATED	132[CC]
BILL_MESSAGE_GROUPS	77[A1]	CDR_UNBILLED	134[CC]
<i>msg_grp_id</i>		CIBER_INCOLLECTS	136[A1]
ACCT_SEG_MAP	20[A1]	CIBER_INCOLLECTS_ERROR	141[A1]
BILL_MESSAGE_GROUPS	77[A1]	REPORT_BED	310[CC]
CMF	141[CC]	<i>msg_name</i>	
CMF_MESSAGES	170[CC]	GUI_MESSAGES	297[A1]
MSG_GRP_ID_REF	80[A2]	<i>msg_no</i>	
MSG_GRP_ID_VALUES	81[A2]	GUI_MESSAGES	297[A1]
<i>msg_id</i>		<i>msg_sequence_num</i>	
CDR_BILLED	114[CC]	BILL_MESSAGE_GROUPS	77[A1]
CDR_DATA	117[CC]	CMF_MESSAGES	170[CC]
CDR_DATA_DUC	123[CC]	<i>msg_str</i>	
CDR_DATA_TAX	125[CC]	EPR_ERROR	238[A1]
CDR_DATA_WORK	118[A1]	<i>msg_text</i>	
CDR_FREE	127[CC]	GUI_MESSAGES	297[A1]
CDR_OUTCOLLECTS	125[A1]	<i>msg_trigger_id</i>	
CDR_RAW_USAGE	130[A1]	BILL_FORMAT_PRODUCTS	70[A1]
CDR_RERATED	132[CC]	BILL_MESSAGE_GROUPS	77[A1]
CDR_UNBILLED	134[CC]	CMF_MESSAGES	170[CC]
CIBER_INCOLLECTS	136[A1]	MSG_TRIGGER_ID_REF	82[A2]
CIBER_INCOLLECTS_ERROR	141[A1]	MSG_TRIGGER_ID_VALUES	83[A2]
REPORT_BED	310[CC]	<i>msg_type</i>	
<i>msg_id_serv</i>		GUI_MESSAGES	297[A1]
CDR_BILLED	114[CC]	<i>msgno</i>	
CDR_DATA	117[CC]	DB_MESSAGES	197[A1]
CDR_DATA_DUC	123[CC]	<i>multi_tax_rate</i>	
CDR_DATA_TAX	125[CC]	ROAMING_TRANSFER_DETAIL	233[A2]
CDR_DATA_WORK	118[A1]	N	
CDR_FREE	127[CC]	<i>name_prefix</i>	
CDR_OUTCOLLECTS	125[A1]	CONTACTS	177[CC]
CDR_RAW_USAGE	130[A1]	<i>naming_extension</i>	
CDR_RERATED	132[CC]	LBX_FILE_STATUS	60[A2]
CDR_UNBILLED	134[CC]	LBX_SOURCE_ID_REF	66[A2]
CIBER_INCOLLECTS	136[A1]	<i>naming_pattern</i>	
CIBER_INCOLLECTS_ERROR	141[A1]	LBX_SOURCE_ID_REF	65[A2]
REPORT_BED	310[CC]	<i>national_destination_code</i>	
<i>msg_id2</i>		GSM_ROAMING AGREEMENT	292[A1]
CDR_BILLED	114[CC]	<i>ndevice_id</i>	
CDR_DATA	117[CC]	DEVICES	203[A1]
CDR_DATA_DUC	123[CC]	<i>net_action_id</i>	
CDR_DATA_TAX	125[CC]	NET_ACTION_REF	84[A2]
CDR_DATA_WORK	118[A1]	NET_ACTION_VALUES	85[A2]
CDR_FREE	127[CC]	NET_INTERFACE_ACTIONS	86[A2]
CDR_OUTCOLLECTS	125[A1]	<i>net_action_name</i>	
CDR_RAW_USAGE	130[A1]	NET_ACTION_REF	84[A2]

<i>net_interface_id</i>		CDR_FREE	130[CC]
NET_INTERFACE_ACTIONS	86[A2]	CDR_OUTCOLLECTS	128[A1]
NET_INTERFACE_ELIGIBILITY		CMF	142[CC]
	87[A2]	CONTRACT_UNIT_CR	182[CC]
NET_INTERFACE_REF	88[A2]	EFT_TRANS	220[CC]
NET_INTERFACE_VALUES	89[A2]	NRC	262[CC]
<i>net_interface_name</i>		NRC_VIEW	269[CC]
NET_INTERFACE_REF	88[A2]	PREPAYMENT	276[CC]
<i>net_new_charges</i>		PRODUCT	282[CC]
CMF_BALANCE	151[CC]	PRODUCT_CHARGE_MAP	284[CC]
CMF_BALANCE_DETAIL	154[CC]	PRODUCT_VIEW	294[CC]
<i>network_delay</i>		REPORT_ADJ	307[CC]
USAGE_TYPES	337[A2]	REPORT_PAY_DETAIL	326[CC]
<i>new_charge_credits</i>		SERVICE	330[CC]
CMF_BALANCE	152[CC]	SERVICE_BILLING	333[CC]
CMF_BALANCE_DETAIL	155[CC]	SERVICE_VIEW	341[CC]
<i>new_charges</i>		USAGE_TYPES_UNITS	342[A2]
CMF_BALANCE	150[CC]	<i>no_bytes</i>	
CMF_BALANCE_DETAIL	153[CC]	BILL_FILES	62[CC]
<i>new_cust_bank_sort_code</i>		<i>no_invoices</i>	
CMF	143[CC]	BILL_FILES	62[CC]
<i>new_jnl_earned_thru_dt</i>		<i>no_jnl_ind</i>	
JNL_INVOICE_AUDIT	246[CC]	JNL_KEYS	29[A2]
<i>new_jnl_status</i>		JNL_KEYS_DEFAULT	35[A2]
JNL_INVOICE_AUDIT	246[CC]	<i>no_pages</i>	
<i>newline_terminate_records</i>		BILL_FILES	62[CC]
GSM_ROAMING AGREEMENT	294[A1]	<i>no_records</i>	
<i>next_account_no</i>		OUTCOLLECT_BATCH	101[A2]
ACCOUNT_ID_SEQ_NUM	14[CC]	<i>nonpub_nonlist</i>	
<i>next_bill_date</i>		SERVICE	330[CC]
CMF	137[CC]	SERVICE_VIEW	341[CC]
ETUC_UPDATES	226[CC]	<i>note_code</i>	
<i>next_eval_date</i>		CMF_NOTES	171[CC]
CUSTOMER_CONTRACT_KEY	195[CC]	NOTE_CODES	90[A2]
<i>next_ppdd_date</i>		NOTE_TEXT	91[A2]
BILL_CYCLE	56[A1]	<i>note_text</i>	
<i>next_subscr_no</i>		CMF_NOTES	171[CC]
SUBSCRIBER_ID_SEQ_NUM	31[CC]	NOTE_TEXT	91[A2]
<i>next_to_date</i>		<i>notes</i>	
BILL_INVOICE	67[CC]	CIBER_INCOLLECTS_ERROR	145[A1]
<i>no_bill</i>		<i>notice_end_dt</i>	
ADJ	48[CC]	CUSTOMER_CONTRACT	191[CC]
ADJ_TAX	52[CC]	CUSTOMER_CONTRACT_VIEW	201[CC]
BMF	99[CC]	<i>notice_override</i>	
CDR_DATA	120[CC]	CUSTOMER_CONTRACT	191[CC]
CDR_DATA_WORK	121[A1]	CUSTOMER_CONTRACT_VIEW	201[CC]

<i>notification_interval</i>		<i>num_units</i>	
GSM_ROAMING AGREEMENT	294[A1]	RATE_USAGE_BANDS	198[A2]
<i>npa</i>		RATE_USAGE_BANDS_OVERRIDES	
CIBER_LINE_RANGES	146[A1]		199[A2]
<i>nrc_category</i>		<i>number_records</i>	
NRC	262[CC]	OUTCOLLECT_BATCH_DETAIL	102[A2]
NRC_TRANS_DESCR	95[A2]	OUTCOLLECT_BATCH_TAX	104[A2]
NRC_VIEW	269[CC]	<i>nxx</i>	
<i>null_terminated</i>		CIBER_LINE_RANGES	146[A1]
RECORD_TYPE_REF	215[A2]	O	
<i>num_accts</i>		<i>obligation_id</i>	
SERVER_DEFINITION	27[CC]	ABI_INVOICE	36[CC]
<i>num_approved</i>		<i>offset_units</i>	
CPM_CYCLE_STATUS	183[CC]	PACKAGE_COMPONENT_MEMBERS	
EFT_CYCLE_STATUS	216[CC]		109[A2]
<i>num_declines</i>		<i>open_item_id</i>	
CPM_CYCLE_STATUS	183[CC]	ACCOUNT_BALANCES	41[CC]
EFT_CYCLE_STATUS	216[CC]	ADJ	51[CC]
<i>num_discarded</i>		BILL_INVOICE_DETAIL	89[CC]
FILE_STATUS	271[A1]	BMF	100[CC]
<i>num_exceptions</i>		BMF_DISTRIBUTION	103[CC]
CPM_CYCLE_STATUS	183[CC]	BMF_UNAPPLIED	108[CC]
EFT_CYCLE_STATUS	216[CC]	CCARD_TRANS	113[CC]
<i>num_failed_attempts</i>		CDR_DATA	121[CC]
FILE_STATUS	271[A1]	CDR_DATA_WORK	123[A1]
<i>num_good</i>		CMF_BALANCE_DETAIL	155[CC]
FILE_STATUS	271[A1]	CMF_BALANCE_TAX	156[CC]
<i>num_hard_errors</i>		DEPOSIT	215[CC]
FILE_STATUS	271[A1]	GLOBAL_ACCOUNT_BALANCES	284[A1]
<i>num_pass_thru</i>		GLOBAL_OPEN_ITEM_ID_MAP	287[A1]
FILE_STATUS	271[A1]	JNL_DETAIL	244[CC]
<i>num_payments</i>		JNL_KEYS	29[A2]
BMF_BATCH	101[CC]	JNL_KEYS_DEFAULT	35[A2]
<i>num_records</i>		JNL_TRANS	251[CC]
CDR_DATA	121[CC]	JNL_WRITEOFF	254[CC]
<i>num_soft_errors</i>		JNL_WRITEOFF_TAX	255[CC]
FILE_STATUS	271[A1]	LBX_ERROR	57[A2]
<i>num_threshold</i>		LBX_POST_DATED	64[A2]
SALES_CHANNEL_REF	241[A2]	NRC	261[CC]
<i>num_trans_audit</i>		NRC_VIEW	268[CC]
CPM_CYCLE_STATUS	184[CC]	OPEN_ITEM_ID_MAP	273[CC]
EFT_CYCLE_STATUS	217[CC]	OPEN_ITEM_ID_REF	98[A2]
<i>num_trans_sent</i>		OPEN_ITEM_ID_VALUES	99[A2]
CPM_CYCLE_STATUS	183[CC]	PREPAYMENT	276[CC]
EFT_CYCLE_STATUS	216[CC]	PRODUCT	282[CC]
		PRODUCT_CHARGE_MAP	284[CC]
		PRODUCT_VIEW	295[CC]

REFINANCE_PLAN	302[CC]	<i>operator_id_recipient</i>
REFUND	305[CC]	ROAMING_TRANSFER_DETAIL 234[A2]
REPORT_INVOICE	323[CC]	<i>operator_state</i>
SERVICE_PROVIDERS_REF	254[A2]	CIBER_ROAMING AGREEMENT 150[A1]
<i>open_item_id_map_key</i>		<i>operator_type</i>
OPEN_ITEM_PRIORITY_MAP	100[A2]	ROAMING_OPERATOR_REF 229[A2]
<i>open_item_id_mask</i>		<i>operator_zip</i>
JNL_KEYS_MASK	38[A2]	CIBER_ROAMING AGREEMENT 150[A1]
<i>oper_assist</i>		<i>order_clause</i>
DEVICES	203[A1]	RECORD_TYPE_REF 215[A2]
<i>operating_company_number</i>		<i>order_level</i>
SERVICE_PROVIDERS_REF	253[A2]	GLOBAL_OPEN_ITEM_ID_MAP 287[A1]
<i>operator</i>		OPEN_ITEM_ID_MAP 274[CC]
RATE_BONUS_POINT	169[A2]	<i>order_number</i>
USAGE_UNITS_CONVERT	344[A2]	NRC 262[CC]
<i>operator_address_1</i>		NRC_VIEW 269[CC]
CIBER_ROAMING AGREEMENT	150[A1]	PRODUCT 282[CC]
<i>operator_address_2</i>		PRODUCT_VIEW 295[CC]
CIBER_ROAMING AGREEMENT	150[A1]	<i>org_charged</i>
<i>operator_address_3</i>		JNL_CUSTOM 13[A2]
CIBER_ROAMING AGREEMENT	150[A1]	<i>org_originating</i>
<i>operator_city</i>		JNL_CUSTOM 13[A2]
CIBER_ROAMING AGREEMENT	150[A1]	<i>orig_bill_invoice_row</i>
<i>operator_contact_faxno</i>		ADJ 48[CC]
CIBER_ROAMING AGREEMENT	150[A1]	<i>orig_bill_ref_no</i>
<i>operator_contact_name</i>		ADJ 48[CC]
CIBER_ROAMING AGREEMENT	150[A1]	BMF 97[CC]
<i>operator_contact_phone</i>		BMF_DISTRIBUTION 102[CC]
CIBER_ROAMING AGREEMENT	150[A1]	BMF_UNAPPLIED 105[CC]
<i>operator_county</i>		<i>orig_bill_ref_resets</i>
CIBER_ROAMING AGREEMENT	150[A1]	ADJ 48[CC]
<i>operator_description</i>		BILL_INVOICE 70[CC]
CIBER_ROAMING AGREEMENT	151[A1]	BMF 97[CC]
<i>operator_id</i>		BMF_DISTRIBUTION 102[CC]
CDR_OUTCOLLECTS	128[A1]	BMF_UNAPPLIED 105[CC]
CIBER_OPERATOR_SID_BID	148[A1]	<i>orig_bill_refno</i>
CIBER_ROAMING AGREEMENT	150[A1]	BILL_INVOICE 70[CC]
GSM_ROAMING AGREEMENT	292[A1]	<i>orig_bmf_tracking_id</i>
OUTCOLLECT_BATCH_DETAIL	102[A2]	PREPAYMENT_DISTRIBUTION 278[CC]
OUTCOLLECT_BATCH_SEQ_NUM	103[A2]	<i>orig_bmf_tracking_id_serv</i>
ROAMING_INVOICE_SUMMARY	228[A2]	PREPAYMENT_DISTRIBUTION 278[CC]
ROAMING_OPERATOR_REF	229[A2]	<i>orig_cell_id</i>
ROAMING_OPERATOR_VALUES	230[A2]	CIBER_ARBOR_USAGE_TYPE_XREF
ROAMING_TRANSFER_DETAIL	232[A2]	
ROAMING_TRANSFER_TAX_DETAIL	236[A2]	134[A1]

<i>orig_msg_id</i>		<i>orig_type_id_usg</i>	
ADJ	49[CC]	CDR_DATA	121[CC]
REPORT_ADJ	308[CC]	CDR_DATA_WORK	123[A1]
<i>orig_msg_id_serv</i>		CDR_FREE	131[CC]
ADJ	49[CC]	CDR_OUTCOLLECTS	125[A1]
REPORT_ADJ	308[CC]	<i>origin_country_dial_code_req</i>	
<i>orig_msg_id2</i>		USAGE_TYPES	329[A2]
ADJ	49[CC]	<i>origin_is_xact</i>	
REPORT_ADJ	308[CC]	CORRIDOR_PLAN_GROUPS	182[A1]
<i>orig_ppdd_date</i>		CUSTOMER_CORRIDORS	204[CC]
CMF_BALANCE	150[CC]	<i>origin_location_code</i>	
CMF_BALANCE_DETAIL	153[CC]	PRODUCT_JURISDICTION	160[A2]
<i>orig_provider_id</i>		PRODUCT_RATE_KEY	288[CC]
ADJ	48[CC]	<i>origin_restriction</i>	
<i>orig_rc_from_date</i>		CORRIDOR_PLAN_ID_REF	185[A1]
ADJ	49[CC]	<i>origin_value</i>	
<i>orig_split_row_num</i>		TRANSLATION	306[A2]
ADJ	51[CC]	<i>other_rate</i>	
<i>orig_submitter_name</i>		BILL_INVOICE_TAX	93[CC]
ADJ	51[CC]	CDR_DATA_TAX	126[CC]
REFUND	303[CC]	TAX_OVERRIDES	287[A2]
<i>orig_subtype</i>		<i>other_tax</i>	
ADJ	49[CC]	ADJ	50[CC]
<i>orig_tracking_dt</i>		ADJ_TAX	52[CC]
ADJ	49[CC]	BILL_INVOICE_DETAIL	88[CC]
<i>orig_tracking_id</i>		BILL_INVOICE_TAX	92[CC]
ADJ	49[CC]	CDR_DATA_TAX	125[CC]
BMF	98[CC]	CDR_DATA_WORK	121[A1]
BMF_UNAPPLIED	106[CC]	CDR_FREE	129[CC]
EFT_TRANS	220[CC]	CDR_OUTCOLLECTS	127[A1]
JNL_WRITEOFF	254[CC]	CIBER_INCOLLECTS	136[A1]
REPORT_ADJ	308[CC]	CIBER_INCOLLECTS_ERROR	141[A1]
<i>orig_tracking_id_serv</i>		NRC	263[CC]
ADJ	49[CC]	NRC_VIEW	271[CC]
BMF	98[CC]	OUTCOLLECT_BATCH_TAX	104[A2]
BMF_UNAPPLIED	106[CC]	REPORT_INVOICE	323[CC]
EFT_TRANS	220[CC]	<i>out_units_type</i>	
JNL_WRITEOFF	254[CC]	USAGE_UNITS_CONVERT	344[A2]
REPORT_ADJ	308[CC]	<i>outcollect_batch_id</i>	
<i>orig_trans_code</i>		OUTCOLLECT_BATCH	101[A2]
ADJ	47[CC]	OUTCOLLECT_BATCH_DETAIL	102[A2]
<i>orig_type</i>		OUTCOLLECT_BATCH_TAX	104[A2]
ADJ	49[CC]	<i>output_by</i>	
		RECORD_TYPE_REF	215[A2]
		<i>override_dates</i>	
		CMF_INTERIM_BILLS	168[CC]

<i>override_geocode</i>		<i>package_inst_id</i>	
GEOCODE_OVERRIDES	283[A1]	CMF_COMPONENT_ELEMENT	161[CC]
<i>override_nrc_from</i>		CMF_PACKAGE	172[CC]
XFER_HISTORY	32[CC]	CMF_PACKAGE_COMPONENT	173[CC]
XFER_STATUS	357[CC]		
<i>override_nrc_to</i>		<i>package_inst_id_serv</i>	
XFER_HISTORY	32[CC]	CMF_COMPONENT_ELEMENT	161[CC]
XFER_STATUS	357[CC]	CMF_PACKAGE	172[CC]
<i>override_rate</i>		CMF_PACKAGE_COMPONENT	173[CC]
PRODUCT_RATE_OVERRIDE	290[CC]		
<i>override_tracking_id</i>		<i>package_status</i>	
RATE_DISCOUNT_OVERRIDES	296[CC]	CMF_PACKAGE	172[CC]
RATE_UNIT_CR_OVERRIDES	299[CC]		
<i>override_tracking_id_serv</i>		<i>page_count</i>	
RATE_DISCOUNT_OVERRIDES	296[CC]	BILL_INVOICE	69[CC]
RATE_UNIT_CR_OVERRIDES	299[CC]		
<i>owning_account_no</i>		<i>page_no</i>	
ACCOUNT_BILLED_SERVICES	43[CC]	BILL_IMAGE	65[CC]
CUSTOMER_CONTRACT	189[CC]		
CUSTOMER_CONTRACT_VIEW	199[CC]	<i>paper_size</i>	
CUSTOMER_CORRIDORS	205[CC]	BILL_SIZE	82[A1]
<i>owning_cost_ctr</i>		<i>param_datatype</i>	
CMF	143[CC]	CMF_EXT_DATA	165[CC]
JNL_DETAIL	243[CC]	CUSTOMER_CONTRACT_EXT_DATA	
JNL_TRANS	250[CC]	NRC_EXT_DATA	193[CC]
JNL_WORK_LIST	252[CC]	PARAM_DEF	264[CC]
OWNING_COST_CTR_REF	105[A2]	PRODUCT_EXT_DATA	116[A2]
OWNING_COST_CTR_VALUES	106[A2]	SERVICE_EXT_DATA	286[CC]
			335[CC]
P		<i>param_id</i>	
<i>package_group</i>		CMF_EXT_DATA	165[CC]
PACKAGE_DEFINITION_REF	111[A2]	CUSTOMER_CONTRACT_EXT_DATA	
PACKAGE_GROUP_REF	113[A2]	EXT_PARAM_TYPE_ASSOC	193[CC]
PACKAGE_GROUP_VALUES	114[A2]	NRC_EXT_DATA	261[A1]
<i>package_id</i>		PARAM_DEF	264[CC]
BILL_INVOICE_DETAIL	72[CC]	PRODUCT_EXT_DATA	116[A2]
CMF_COMPONENT_ELEMENT	161[CC]	SERVICE_EXT_DATA	286[CC]
CMF_PACKAGE	172[CC]		335[CC]
CMF_PACKAGE_COMPONENT	174[CC]	<i>param_name</i>	
PACKAGE_CMF_ELIGIBILITY	107[A2]	PARAM_DEF	193[CC]
PACKAGE_COMPONENTS	108[A2]	CMF_EXT_DATA	264[CC]
PACKAGE_DEFINITION_REF	111[A2]	CUSTOMER_CONTRACT_EXT_DATA	286[CC]
PACKAGE_DEFINITION_VALUES	112[A2]	NRC_EXT_DATA	335[CC]
		PRODUCT_EXT_DATA	116[A2]
PACKAGE_NRCS	115[A2]	SERVICE_EXT_DATA	270[A2]
		<i>parameter_name</i>	
		SYSTEM_PARAMETERS	

<i>parent_account_no</i>		<i>parent_tracking_id_serv</i>	
CMF_PACKAGE	172[CC]	NRC	261[CC]
CMF_PACKAGE_COMPONENT	174[CC]	NRC_VIEW	269[CC]
CUSTOMER_CONTRACT	189[CC]	<i>partial_period</i>	
CUSTOMER_CONTRACT_VIEW	199[CC]	CONTRACT_TYPES	179[A1]
PRODUCT	282[CC]	<i>path_name</i>	
PRODUCT_CHARGE_MAP	284[CC]	LBX_SOURCE_ID_REF	65[A2]
PRODUCT_VIEW	295[CC]	<i>pay_amount</i>	
SERVICE	330[CC]	LBX_ERROR	56[A2]
SERVICE_BILLING	334[CC]	LBX_POST_DATED	63[A2]
SERVICE_VIEW	342[CC]	<i>pay_method</i>	
		BILL_INVOICE	68[CC]
<i>parent_acg_tracking_id</i>	CMF_ACCOUNT_CODE_GROUPS	CMF	141[CC]
	148[CC]	DEPOSIT	215[CC]
<i>parent_acg_tracking_id_serv</i>	CMF_ACCOUNT_CODE_GROUPS	<i>payee_address1</i>	
	149[CC]	REFUND	304[CC]
<i>parent_cols</i>	ARB_TAB_DEPENDS	<i>payee_address2</i>	
	36[A1]	REFUND	304[CC]
<i>parent_group_no</i>	CUSTOMER_CONTRACT	<i>payee_address3</i>	
	189[CC]	REFUND	304[CC]
	CUSTOMER_CONTRACT_VIEW	<i>payee_city</i>	
	199[CC]	REFUND	304[CC]
<i>parent_id</i>	CMF	<i>payee_company</i>	
	137[CC]	REFUND	304[CC]
<i>parent_nm</i>	ARB_TAB_DEPENDS	<i>payee_country_code</i>	
	36[A1]	REFUND	304[CC]
<i>parent_sales_channel_id</i>	SALES_CHANNEL_REF	<i>payee_county</i>	
	241[A2]	REFUND	305[CC]
<i>parent_subscr_no</i>	CMF_PACKAGE_COMPONENT	<i>payee_first</i>	
	174[CC]	REFUND	305[CC]
	CUSTOMER_CONTRACT	<i>payee_geocode</i>	
	189[CC]	REFUND	304[CC]
	CUSTOMER_CONTRACT_VIEW	<i>payee_last</i>	
	199[CC]	REFUND	304[CC]
	NRC	<i>payee_state</i>	
	261[CC]	REFUND	305[CC]
	NRC_VIEW	<i>payee_zip</i>	
	268[CC]	REFUND	305[CC]
	PRODUCT	<i>payment_counter</i>	
	282[CC]	LBX_FILE_STATUS	61[A2]
	PRODUCT_VIEW	<i>payment_due_date</i>	
	295[CC]	BILL_INVOICE	67[CC]
<i>parent_subscr_no_resets</i>	CMF_PACKAGE_COMPONENT	CCARD_TRANS	111[CC]
	174[CC]	CMF_INTERIM_BILLS	168[CC]
	189[CC]	EFT_TRANS	218[CC]
	199[CC]	REPORT_INVOICE	322[CC]
<i>parent_tracking_id</i>	NRC		
	261[CC]		
	NRC_VIEW		
	269[CC]		

<i>payment_type</i>		<i>plat_id</i>	
LBX_ERROR	57[A2]	PROCESS_SCHED	136[A2]
LBX_POST_DATED	64[A2]	<i>plmn_address1</i>	
<i>pcm_active_dt</i>		GSM_ROAMING AGREEMENT	293[A1]
BILL_INVOICE_DETAIL	90[CC]	<i>plmn_address2</i>	
<i>pending_flag</i>		GSM_ROAMING AGREEMENT	293[A1]
ADJ	48[CC]	<i>plmn_address3</i>	
<i>percent_errorred</i>		GSM_ROAMING AGREEMENT	293[A1]
PROCESS_WORK_STATUS	147[A2]	<i>plmn_city</i>	
<i>percent_modifier</i>		GSM_ROAMING AGREEMENT	293[A1]
RE_CHARGE_MODIFIER	226[A2]	<i>plmn_contact_faxno</i>	
<i>percent_processed</i>		GSM_ROAMING AGREEMENT	293[A1]
PROCESS_WORK_STATUS	146[A2]	<i>plmn_contact_name</i>	
<i>percent_succeeded</i>		GSM_ROAMING AGREEMENT	293[A1]
PROCESS_WORK_STATUS	147[A2]	<i>plmn_contact_phone</i>	
<i>permanent_flag</i>		GSM_ROAMING AGREEMENT	293[A1]
CMF_NOTES	171[CC]	<i>plmn_description</i>	
<i>phrase_text</i>		GSM_ROAMING AGREEMENT	293[A1]
ABI_TEXT	39[CC]	<i>plmn_name</i>	
<i>phrase_type_ind</i>		GSM_ROAMING AGREEMENT	292[A1]
ABI_TEXT	39[CC]	<i>plmn_state</i>	
<i>pic_date_active</i>		GSM_ROAMING AGREEMENT	293[A1]
SERVICE	330[CC]	<i>plmn_tape_volser_name</i>	
SERVICE_VIEW	341[CC]	GSM_ROAMING AGREEMENT	293[A1]
<i>pkg_order</i>		<i>plmn_type</i>	
TAX_PKG_INST_ID_REF	288[A2]	GSM_ROAMING AGREEMENT	293[A1]
<i>plan_id_credit</i>		<i>plmn_zip</i>	
CMF	141[CC]	GSM_ROAMING AGREEMENT	293[A1]
CONTRACT_TYPES	178[A1]	<i>pmt_req_sent_counter</i>	
PLAN_ID_CREDIT_REF	120[A2]	CCARD_TRANS	113[CC]
PLAN_ID_CREDIT_VALUES	121[A2]	EFT_TRANS	220[CC]
UNIT_CR_PLANS	315[A2]	<i>point</i>	
<i>plan_id_discount</i>		USAGE_POINTS	325[A2]
CMF	141[CC]	<i>point_category</i>	
CONTRACT_TYPES	178[A1]	CORRIDOR_PLAN_GROUPS	182[A1]
DISCOUNT_PLANS	210[A1]	CUSTOMER_CORRIDORS	205[CC]
PLAN_ID_DISCOUNT_REF	122[A2]	POINT_CATEGORY_REF	124[A2]
PLAN_ID_DISCOUNT_VALUES	123[A2]	POINT_CATEGORY_VALUES	125[A2]
<i>plan_level</i>		USAGE_POINTS	325[A2]
CORRIDOR_PLAN_ID_REF	184[A1]	USAGE_TYPES	329[A2]
<i>plan_order</i>		<i>point_city</i>	
DISCOUNT_PLANS	210[A1]	USAGE_POINTS	326[A2]
UNIT_CR_PLANS	315[A2]	<i>point_class</i>	
<i>plan_type</i>		POINT_CLASS_REF	126[A2]
CORRIDOR_PLAN_ID_REF	184[A1]	POINT_CLASS_VALUES	127[A2]
		USAGE_POINTS	325[A2]

<i>point_class_origin</i>		<i>point_origin</i>	
CDR_DATA	122[CC]	CDR_DATA	118[CC]
RATE_PERIODS	186[A2]	CDR_DATA_WORK	119[A1]
RATE_USAGE	196[A2]	CDR_FREE	128[CC]
UNIT_CR_RATE_LIMIT	317[A2]	CDR_OUTCOLLECTS	126[A1]
USAGE_JURISDICTION	323[A2]	CIBER_INCOLLECTS	136[A1]
<i>point_class_target</i>		CIBER_INCOLLECTS_ERROR	141[A1]
CDR_DATA	122[CC]	CORRIDOR_PLAN_GROUPS	182[A1]
RATE_PERIODS	186[A2]	CUSTOMER_CORRIDORS	204[CC]
RATE_USAGE	196[A2]	REPORT_BED	310[CC]
UNIT_CR_RATE_LIMIT	317[A2]	USAGE_JURISDICTION	323[A2]
USAGE_JURISDICTION	323[A2]	<i>point_origin_len</i>	
<i>point_coordinate_type</i>		CIBER_INCOLLECTS	136[A1]
USAGE_POINTS	326[A2]	CIBER_INCOLLECTS_ERROR	141[A1]
<i>point_coordinate_x</i>		<i>point_region</i>	
USAGE_POINTS	326[A2]	POINT_REGION_REF	128[A2]
<i>point_coordinate_x_min</i>		POINT_REGION_VALUES	129[A2]
USAGE_POINTS	326[A2]	USAGE_POINTS	325[A2]
<i>point_coordinate_y</i>		<i>point_region_origin</i>	
USAGE_POINTS	326[A2]	USAGE_JURISDICTION	323[A2]
<i>point_coordinate_y_min</i>		<i>point_region_target</i>	
USAGE_POINTS	326[A2]	USAGE_JURISDICTION	323[A2]
<i>point_county</i>		<i>point_state_abbr</i>	
USAGE_POINTS	326[A2]	USAGE_POINTS	326[A2]
<i>point_id</i>		<i>point_status</i>	
USAGE_POINTS	325[A2]	USAGE_POINTS	325[A2]
USAGE_POINTS_TEXT	327[A2]	<i>point_target</i>	
<i>point_id_origin</i>		CDR_DATA	118[CC]
CDR_DATA	118[CC]	CDR_DATA_WORK	119[A1]
CDR_DATA_WORK	119[A1]	CDR_FREE	128[CC]
CDR_FREE	128[CC]	CDR_OUTCOLLECTS	126[A1]
CDR_OUTCOLLECTS	126[A1]	CIBER_INCOLLECTS	137[A1]
CIBER_INCOLLECTS	140[A1]	CIBER_INCOLLECTS_ERROR	142[A1]
CIBER_INCOLLECTS_ERROR	144[A1]	CORRIDOR_PLAN_GROUPS	182[A1]
REPORT_BED	310[CC]	CUSTOMER_CORRIDORS	204[CC]
<i>point_id_target</i>		REPORT_BED	310[CC]
CDR_DATA	119[CC]	USAGE_JURISDICTION	323[A2]
CDR_DATA_WORK	119[A1]	<i>point_target_len</i>	
CDR_FREE	128[CC]	CIBER_INCOLLECTS	137[A1]
CDR_OUTCOLLECTS	126[A1]	CIBER_INCOLLECTS_ERROR	142[A1]
CIBER_INCOLLECTS	140[A1]	<i>point_tax_code</i>	
CIBER_INCOLLECTS_ERROR	144[A1]	USAGE_POINTS	326[A2]
<i>point_number</i>		<i>point_tax_code_origin</i>	
TAX_ELEM_DEFAULT_LOC	285[A2]	CDR_DATA	118[CC]
		CDR_DATA_WORK	119[A1]
		CDR_FREE	128[CC]
		CDR_OUTCOLLECTS	126[A1]

<i>point_tax_code_target</i>		<i>postal_code</i>	
CDR_DATA	119[CC]	ADDRESS	45[CC]
CDR_DATA_WORK	120[A1]	<i>posted_dt</i>	
CDR_FREE	128[CC]	JNL_DETAIL	242[CC]
CDR_OUTCOLLECTS	126[A1]	JNL_TRANS	249[CC]
<i>point_tax_code_type_origin</i>		<i>postfix_match</i>	
CDR_DATA	118[CC]	EXT_CONTACTS	252[A1]
CDR_DATA_WORK	119[A1]	<i>postradix_exch_rate_mant</i>	
CDR_FREE	128[CC]	SDR_EXCHANGE_RATES	243[A2]
CDR_OUTCOLLECTS	126[A1]	<i>ppdd_date</i>	
<i>point_tax_code_type_target</i>		BILL_CYCLE	56[A1]
CDR_DATA	119[CC]	CMF_BALANCE	150[CC]
CDR_DATA_WORK	120[A1]	CMF_BALANCE_DETAIL	153[CC]
CDR_FREE	128[CC]	REPORT_COL_ACT_LIST	317[CC]
CDR_OUTCOLLECTS	126[A1]	<i>prefix_match</i>	
<i>point_trans_tracking_id</i>		EXT_CONTACTS	252[A1]
CMF_BONUS_POINT	158[CC]	<i>prep_date</i>	
<i>point_trans_tracking_id_serv</i>		BILL_CYCLE	56[A1]
CMF_BONUS_POINT	158[CC]	BILL_INVOICE	67[CC]
<i>point_type</i>		REPORT_INVOICE	322[CC]
USAGE_POINTS	325[A2]	<i>prep_delay</i>	
<i>point_zip</i>		BILL_CYCLE	56[A1]
USAGE_POINTS	326[A2]	<i>prep_error_code</i>	
<i>points_earned</i>		BILL_INVOICE	69[CC]
CMF_POINT_BALANCE	175[CC]	REPORT_INVOICE	322[CC]
<i>pop_lower_limit</i>		<i>prep_sequence</i>	
RATE_RC	192[A2]	BILL_INVOICE_DETAIL	76[CC]
<i>pop_units</i>		<i>prep_status</i>	
SERVICE	330[CC]	BILL_INVOICE	68[CC]
SERVICE_BILLING	334[CC]	REPORT_INVOICE	322[CC]
SERVICE_VIEW	342[CC]	<i>prep_task</i>	
<i>pop_upper_limit</i>		BILL_INVOICE	68[CC]
RATE_RC	192[A2]	<i>prepayment_tracking_id</i>	278[CC]
<i>poplist_type</i>		PREPAYMENT_DISTRIBUTION	278[CC]
ATM_FIELD_DEF	43[A1]	<i>prepayment_tracking_id_serv</i>	278[CC]
<i>populated</i>		PREPAYMENT_DISTRIBUTION	278[CC]
REPORT_LOOKUP	325[CC]	<i>preradix_exch_rate_mant</i>	
<i>port</i>		SDR_EXCHANGE_RATES	243[A2]
EXT_SOCKET_ACCESS	262[A1]	<i>pretax</i>	
PROCESS_SOCKET	137[A2]	RE_CHARGE_MODIFIER	226[A2]
<i>post_date</i>		<i>prev_balance_ref_resets</i>	
BMF	97[CC]	BILL_INVOICE	67[CC]
BMF_BATCH	101[CC]	CMF	137[CC]
BMF_UNAPPLIED	105[CC]	<i>prev_balance_refno</i>	
<i>post_who</i>		BILL_INVOICE	67[CC]
BMF_BATCH	101[CC]	CMF	137[CC]

<i>prev_bill_date</i>		<i>printed_call</i>	
CMF	137[CC]	CIBER_INCOLLECTS	138[A1]
<i>prev_bill_ref_resets</i>		CIBER_INCOLLECTS_ERROR	143[A1]
BILL_INVOICE	66[CC]	<i>printer_device_id</i>	
CMF	137[CC]	SERVICE_CENTERS	248[A2]
<i>prev_bill_refno</i>		<i>printer_text</i>	
BILL_INVOICE	66[CC]	BILL_FORMAT_PRODUCTS	70[A1]
CMF	137[CC]	<i>priority</i>	
<i>prev_cutoff_date</i>		ACCOUNT_BALANCES	42[CC]
BILL_INVOICE	67[CC]	BILL_INSERT_GROUPS	75[A1]
CMF	137[CC]	CIBER_ARBOR_USAGE_TYPE_XREF	
ETUC_UPDATES	227[CC]		134[A1]
<i>prev_end_dt</i>		GEOCODE_OVERRIDES	283[A1]
CUSTOMER_CONTRACT	189[CC]	GLOBAL_ACCOUNT_BALANCES	284[A1]
CUSTOMER_CONTRACT_VIEW	199[CC]	JNL_KEYS_DEFAULT	35[A2]
CUSTOMER_CORRIDORS	205[CC]	MOBILE_ZONE_TYPE_REF	77[A2]
<i>prev_eval_date</i>		RATE_PERIODS	187[A2]
CUSTOMER_CONTRACT_KEY	195[CC]	RE_CHARGE_MODIFIER	227[A2]
<i>prev_ppdd</i>		TAX_OVERRIDES	287[A2]
BILL_INVOICE	67[CC]	USAGE_JURISDICTION	324[A2]
<i>prev_product_inactive_dt</i>		USAGE_TYPES_UNITS	342[A2]
PRODUCT	282[CC]	ZONE_CLASS_REF	352[A2]
PRODUCT_VIEW	295[CC]	ZONE_CLASS_VALUES	353[A2]
<i>prev_view_id</i>		<i>privacy_level</i>	
CUSTOMER_CONTRACT_VIEW	199[CC]	PRIVACY_LEVEL_REF	130[A2]
CUSTOMER_ID_EQUIP_MAP_VIEW	211[CC]	PRIVACY_LEVEL_VALUES	131[A2]
EXTERNAL_ID_EQUIP_MAP_VIEW	24[CC]	SERVICE	330[CC]
NRC_VIEW	268[CC]	SERVICE_VIEW	342[CC]
PRODUCT_VIEW	293[CC]	<i>proc_time</i>	
SERVICE_VIEW	339[CC]	LBX_FILE_STATUS	60[A2]
<i>primary_units</i>		<i>process_charges</i>	
ADJ	47[CC]	XFER_STATUS	357[CC]
CDR_DATA	119[CC]	<i>process_charges_action</i>	
CDR_DATA_WORK	120[A1]	XFER_REASON_ACTIONS	348[A2]
CDR_FREE	129[CC]	<i>process_charges_state</i>	
CDR_OUTCOLLECTS	127[A1]	XFER_REASON_ACTIONS	348[A2]
CIBER_INCOLLECTS	140[A1]	<i>process_dt</i>	
CIBER_INCOLLECTS_ERROR	144[A1]	ROAMING_TRANSFER_DETAIL	232[A2]
<i>primary_units_type</i>		UTL_TASK_STATUS	355[CC]
ADJ	47[CC]	<i>process_file_name</i>	
<i>principal_cardinality</i>		USAGE_MASTER_FILE_STATUS	
PROCESS_WORK_CARDINAL_REF	142[A2]	352[CC]	
		USAGE_PROCESS_FILE_STATUS	
		354[CC]	

<i>process_id</i>		<i>product_active_dt</i>	
PROCESS_RUN	133[A2]	PRODUCT	282[CC]
PROCESS_WORK	140[A2]	PRODUCT_VIEW	295[CC]
PROCESS_WORK_STATUS	146[A2]	<i>product_code</i>	
<i>process_name</i>		TAX_CHARGE_ELEMENTS	278[A2]
ACCOUNT_MOVE_STATUS	16[CC]	<i>product_group</i>	
EXT_CONTACTS_STATUS	255[A1]	TAX_CHARGE_ELEMENTS	279[A2]
FILE_STATUS	272[A1]	<i>product_group_id</i>	
FILES_IN_PROCESS	267[A1]	PRODUCT_GROUPS	159[A2]
HISTORIC_CONTRIBUTION	234[CC]	PRODUCT_LINES	161[A2]
PROCESS_QUEUE	132[A2]	<i>product_inactive_dt</i>	
PROCESS_RUN	133[A2]	PRODUCT	282[CC]
PROCESS_SCHED	134[A2]	PRODUCT_VIEW	295[CC]
PROCESS_SOCKET	137[A2]	<i>product_line_id</i>	
PROCESS_STATUS	138[A2]	BILL_FORMAT_PRODUCTS	70[A1]
PROCESS_WORK_STATUS_DEF	150[A2]	BILL_INVOICE_DETAIL	84[CC]
RECORD_TYPE_REF	215[A2]	DISCOUNT_DEFINITIONS	207[A1]
RPU_WORK	327[CC]	NRC_TRANS_DESCR	93[A2]
TREP_WORK	348[CC]	PRODUCT_ELEMENTS	154[A2]
USAGE_MASTER_FILE_STATUS		PRODUCT_LINES	161[A2]
	353[CC]	UNIT_CR_DEFINITIONS	313[A2]
USAGE_PROCESS_FILE_STATUS		USAGE_TYPES	331[A2]
	354[CC]	<i>profile_id</i>	
<i>process_num</i>		CDR_DATA_DUC	124[CC]
BILL_INVOICE	66[CC]	UNIT_CREDIT_PROFILES	349[CC]
BILL_INVOICE_DETAIL	72[CC]	<i>profile_id_serv</i>	
BILL_INVOICE_TAX	92[CC]	CDR_DATA_DUC	124[CC]
CDR_BILLED	115[CC]	UNIT_CREDIT_PROFILES	349[CC]
<i>process_pid</i>		<i>proforma_bill_flag</i>	
PROCESS_STATUS	138[A2]	CMF_INTERIM_BILLS	167[CC]
<i>process_start_time</i>		<i>project_bill_ic1</i>	
TREP_WORK	348[CC]	ABI_INVOICE	37[CC]
<i>process_status</i>		<i>project_bill_ic2</i>	
CIBER_INCOLLECTS	140[A1]	ABI_INVOICE	37[CC]
CIBER_INCOLLECTS_ERROR	145[A1]	<i>project_bill_ic3</i>	
PROCESS_STATUS	139[A2]	ABI_INVOICE	37[CC]
RECORD_TYPE_REF	215[A2]	<i>project_bill_ic4</i>	
<i>processed</i>		ABI_INVOICE	37[CC]
PROCESS_WORK	140[A2]	<i>project_bill_ic5</i>	
PROCESS_WORK_STATUS	146[A2]	ABI_INVOICE	37[CC]
<i>processed_name</i>		<i>project_bill_ic6</i>	
PROCESS_WORK_CARDINAL_VALUES		ABI_INVOICE	37[CC]
	143[A2]	<i>promo_bill_ic1</i>	
<i>processed_rate</i>		ABI_INVOICE	37[CC]
PROCESS_WORK	141[A2]	<i>promo_bill_ic2</i>	
PROCESS_WORK_STATUS	147[A2]	ABI_INVOICE	37[CC]

<i>promo_bill_ic3</i>		<i>prorate_period_change_override</i>	
ABI_INVOICE	37[CC]	CUSTOMER_CONTRACT	190[CC]
<i>promo_bill_ic4</i>		CUSTOMER_CONTRACT_VIEW	201[CC]
ABI_INVOICE	37[CC]	ETUC_UPDATES	227[CC]
<i>promo_bill_ic5</i>		UNIT_CREDIT_PROFILES	350[CC]
ABI_INVOICE	37[CC]	<i>prorate_target_rebates</i>	
<i>promo_bill_ic6</i>		CONTRACT_TYPES	180[A1]
ABI_INVOICE	37[CC]	<i>prorate_target_threshold</i>	
<i>proportion</i>		CONTRACT_TYPES	180[A1]
CONTRACT_ASSIGNMENTS_HQ	180[CC]	<i>prorate_tgt_rebates_override</i>	
<i>prorate_account_end</i>		CUSTOMER_CONTRACT	191[CC]
CONTRACT_TYPES	180[A1]	CUSTOMER_CONTRACT_VIEW	201[CC]
<i>prorate_account_end_override</i>		ETUC_UPDATES	228[CC]
CUSTOMER_CONTRACT	190[CC]	UNIT_CREDIT_PROFILES	351[CC]
CUSTOMER_CONTRACT_VIEW	201[CC]	<i>prorate_tgt_threshold_override</i>	
<i>prorate_account_start</i>		CUSTOMER_CONTRACT	191[CC]
CONTRACT_TYPES	180[A1]	CUSTOMER_CONTRACT_VIEW	201[CC]
<i>prorate_account_start_override</i>		ETUC_UPDATES	228[CC]
CUSTOMER_CONTRACT	190[CC]	UNIT_CREDIT_PROFILES	351[CC]
CUSTOMER_CONTRACT_VIEW	201[CC]	<i>provider_address1</i>	
<i>prorate_code</i>		PROVIDER_ADDRESS	162[A2]
BILL_INVOICE_DETAIL	77[CC]	<i>provider_address2</i>	
REPORT_BILLED_REV	312[CC]	PROVIDER_ADDRESS	162[A2]
REPORT_INVOICE	323[CC]	<i>provider_address3</i>	
<i>prorate_contract_end</i>		PROVIDER_ADDRESS	162[A2]
CONTRACT_TYPES	179[A1]	<i>provider_city</i>	
<i>prorate_contract_end_override</i>		PROVIDER_ADDRESS	162[A2]
CUSTOMER_CONTRACT	190[CC]	<i>provider_class</i>	
CUSTOMER_CONTRACT_VIEW	200[CC]	PROVIDER_CLASS_REF	163[A2]
ETUC_UPDATES	227[CC]	PROVIDER_CLASS_VALUES	164[A2]
UNIT_CREDIT_PROFILES	350[CC]	RATE_PERIODS	186[A2]
<i>prorate_contract_start</i>		RATE_USAGE	196[A2]
CONTRACT_TYPES	179[A1]	RATE_USAGE_OVERRIDES	202[A2]
<i>prorate_contract_strt_override</i>		SERVICE_PROVIDERS_REF	252[A2]
CUSTOMER_CONTRACT	190[CC]	<i>provider_country_code</i>	
CUSTOMER_CONTRACT_VIEW	200[CC]	PROVIDER_ADDRESS	162[A2]
ETUC_UPDATES	227[CC]	<i>provider_id</i>	
UNIT_CREDIT_PROFILES	350[CC]	BILL_FORMAT_TEMPLATE	72[A1]
<i>prorate_interim_bill</i>		BILL_INVOICE_DETAIL	83[CC]
CONTRACT_TYPES	179[A1]	CCARD_TRANS	112[CC]
<i>prorate_interim_bill_override</i>		CDR_DATA	118[CC]
CUSTOMER_CONTRACT	190[CC]	CDR_DATA_WORK	118[A1]
CUSTOMER_CONTRACT_VIEW	200[CC]	CDR_FREE	127[CC]
<i>prorate_period_change</i>		CDR_OUTCOLLECTS	125[A1]
CONTRACT_TYPES	179[A1]	CIBER_INCOLLECTS	139[A1]
		CIBER_INCOLLECTS_ERROR	144[A1]
		DISCOUNT_DEFINITIONS	208[A1]

JNL_DETAIL	242[CC]	<i>queue_status</i>	
JNL_KEYS	28[A2]	REPORT_COL	314[CC]
JNL_KEYS_DEFAULT	34[A2]	REPORT_COL_ACT_LIST	317[CC]
JNL_TRANS	249[CC]	<i>queued</i>	
NRC_TRANS_DESCR	93[A2]	PROCESS_WORK	140[A2]
OUTCOLLECT_BATCH_DETAIL	102[A2]	PROCESS_WORK_STATUS	146[A2]
PRODUCT_ELEMENTS	154[A2]	<i>queued_name</i>	
PROVIDER_ADDRESS	162[A2]	PROCESS_WORK_CARDINAL_VALUES	
SERVICE_PROVIDERS_REF	252[A2]		143[A2]
SERVICE_PROVIDERS_VALUES	255[A2]		
TAX_ASSIGNMENTS	276[A2]		
UNIT_CR_DEFINITIONS	313[A2]	R	
USAGE_POINTS	326[A2]	<i>range_origin</i>	
<i>provider_id_mask</i>		RATE_DISCOUNT	179[A2]
JNL_KEYS_MASK	37[A2]	RATE_DISCOUNT_OVERRIDES	297[CC]
<i>provider_name</i>		RATE_UNIT_CR	194[A2]
PROVIDER_ADDRESS	162[A2]	RATE_UNIT_CR_OVERRIDES	300[CC]
<i>provider_service_type</i>		<i>range_terminus</i>	
SERVICE_PROVIDERS_REF	254[A2]	RATE_DISCOUNT	179[A2]
<i>provider_state</i>		RATE_DISCOUNT_OVERRIDES	297[CC]
PROVIDER_ADDRESS	162[A2]	RATE_UNIT_CR	194[A2]
<i>provider_zip</i>		RATE_UNIT_CR_OVERRIDES	300[CC]
PROVIDER_ADDRESS	162[A2]	TAX_RATES_VAT	293[A2]
<i>ps_code_cr</i>		<i>ratable_unit_class</i>	
JNL_CUSTOM	12[A2]	RATABLE_UNIT_CLASS_REF	165[A2]
<i>ps_code_db</i>		RATABLE_UNIT_CLASS_VALUES	
JNL_CUSTOM	12[A2]		166[A2]
<i>pt_default_geocode</i>		UNIT_CR_DEFINITIONS	313[A2]
TAX_ELEM_DEFAULT_LOC	285[A2]	USAGE_TYPES	333[A2]
<i>pt_location_code</i>		<i>rate</i>	
TAX_ELEM_DEFAULT_LOC	285[A2]	CIBER_ROAMING AGREEMENT	151[A1]
<i>purchase_order</i>		NRC	262[CC]
CMF	142[CC]	NRC_VIEW	269[CC]
Q		RATE_NRC	183[A2]
<i>qualifying_threshold_tier_id</i>		RATE_RC	191[A2]
RATE_DISCOUNT	180[A2]	TAX_RATES_VAT	293[A2]
<i>quanta</i>		TAX_UNIV_ICB	345[CC]
HISTORIC_CONTRIBUTION	234[CC]	<i>rate_amt</i>	
HISTORIC_THRESHOLDS	240[CC]	LATE_FEE_RATES	53[A2]
<i>quantum_pre_charge</i>		<i>rate_class</i>	
CDR_DATA_DUC	124[CC]	ACCT_SEG_MAP	20[A1]
<i>queue_name</i>		CDR_DATA	117[CC]
PROCESS_QUEUE	132[A2]	CDR_DATA_WORK	118[A1]
		CDR_FREE	127[CC]
		CDR_OUTCOLLECTS	125[A1]
		CIBER_INCOLLECTS	139[A1]
		CIBER_INCOLLECTS_ERROR	144[A1]
		COMPONENT_CMF_ELIGIBILITY	
			168[A1]

COMPONENT_EMF_ELIGIBILITY		CIBER_INCOLLECTS	137[A1]
	171[A1]	CIBER_INCOLLECTS_ERROR	142[A1]
EMF_CONFIGURATION	226[A1]	USAGE_TYPES	336[A2]
LATE_FEE_ASSIGNMENT	51[A2]	<i>rate_currency_id</i>	
NET_INTERFACE_ELIGIBILITY		RATE_CURRENCY	171[A2]
	87[A2]	<i>rate_currency_location</i>	
PACKAGE_CMF_ELIGIBILITY	107[A2]	NRC_TRANS_DESCR	95[A2]
PROVIDER_CLASS_REF	163[A2]	PRODUCT_ELEMENTS	157[A2]
RATE_CLASS_DESCR	170[A2]	USAGE_TYPES	336[A2]
RATE_DISCOUNT	179[A2]	<i>rate_dt</i>	
RATE_NRC	183[A2]	CDR_DATA	119[CC]
RATE_PERIODS	186[A2]	CDR_DATA_WORK	120[A1]
RATE_RC	191[A2]	CDR_FREE	128[CC]
RATE_UNIT_CR	194[A2]	CDR_OUTCOLLECTS	127[A1]
RATE_USAGE	195[A2]	CDR_UNBILLED	134[CC]
RATE_USAGE_OVERRIDES	202[A2]	CIBER_INCOLLECTS	140[A1]
RE_CHARGE_MODIFIER	226[A2]	CIBER_INCOLLECTS_ERROR	144[A1]
ROAMING_RATE_KEYS	231[A2]	NRC	262[CC]
SERVICE	331[CC]	NRC_VIEW	269[CC]
SERVICE_BILLING	334[CC]	<i>rate_equip_class</i>	
SERVICE_VIEW	342[CC]	NRC_TRANS_DESCR	96[A2]
UNIT_CR_RATE_LIMIT	316[A2]	PRODUCT_ELEMENTS	154[A2]
USAGE_JURISDICTION	323[A2]	<i>rate_equip_type</i>	
USAGE_TYPES_SPLIT	341[A2]	NRC_TRANS_DESCR	96[A2]
USAGE_TYPES_UNITS	342[A2]	PRODUCT_ELEMENTS	154[A2]
<i>rate_class_account</i>		<i>rate_jurisdiction</i>	
ETUC_UPDATES	227[CC]	PRODUCT_ELEMENTS	158[A2]
UNIT_CREDIT_PROFILES	349[CC]	<i>rate_key_id</i>	
<i>rate_class_default</i>		CIBER_ROAMING AGREEMENT	150[A1]
CMF	141[CC]	GSM_ROAMING AGREEMENT	292[A1]
<i>rate_class_of_service</i>		ROAMING_RATE_KEYS	231[A2]
NRC_TRANS_DESCR	96[A2]	<i>rate_limit_amount</i>	
PRODUCT_ELEMENTS	154[A2]	UNIT_CR_RATE_LIMIT	317[A2]
<i>rate_class_service</i>		<i>rate_limit_percent</i>	
ETUC_UPDATES	227[CC]	UNIT_CR_RATE_LIMIT	317[A2]
UNIT_CREDIT_PROFILES	349[CC]	<i>rate_minimum_duration</i>	
<i>rate_class_special</i>		USAGE_TYPES	337[A2]
CMF	141[CC]	<i>rate_pct</i>	
<i>rate_component_id</i>		LATE_FEE_RATES	53[A2]
NRC_TRANS_DESCR	96[A2]	<i>rate_period</i>	
PRODUCT_ELEMENTS	156[A2]	BILL_INVOICE_DETAIL	84[CC]
<i>rate_currency_code</i>		CDR_DATA	120[CC]
BILL_INVOICE_DETAIL	79[CC]	CDR_DATA_WORK	121[A1]
CDR_DATA	118[CC]	CDR_FREE	130[CC]
CDR_DATA_WORK	118[A1]	CDR_OUTCOLLECTS	128[A1]
CDR_FREE	127[CC]	CIBER_INCOLLECTS	138[A1]
CDR_OUTCOLLECTS	125[A1]	CIBER_INCOLLECTS_ERROR	143[A1]

DISCOUNT_DEFINITIONS	208[A1]	<i>raw_units</i>	
OPEN_ITEM_ID_MAP	274[CC]	CDR_DATA	122[CC]
RATE_PERIOD_REF	188[A2]	<i>raw_units_rounded</i>	
RATE_PERIOD_VALUES	189[A2]	CDR_DATA	122[CC]
RATE_PERIODS	186[A2]	<i>raw_units_type</i>	
RATE_USAGE	196[A2]	USAGE_TYPES	334[A2]
RATE_USAGE_OVERRIDES	202[A2]	<i>rc_charge_type</i>	
UNIT_CR_RATE_LIMIT	316[A2]	CIBER_ROAMING AGREEMENT	151[A1]
<i>rate_period_rounding</i>		<i>reason_code</i>	
USAGE_TYPES	337[A2]	CIBER_FLD_ERROR_CODES	135[A1]
<i>rate_rate_class</i>		DEPOSIT	215[CC]
PRODUCT_ELEMENTS	156[A2]	<i>rebate_proration_ratio</i>	
<i>rate_type</i>		CDR_DATA_DUC	124[CC]
BILL_INVOICE_DETAIL	84[CC]	<i>receivables_amt</i>	
<i>rate_units</i>		CPM_CYCLE_STATUS	183[CC]
PRODUCT_ELEMENTS	157[A2]	EFT_CYCLE_STATUS	216[CC]
<i>rate_units_type</i>		<i>receiving_sid_bid</i>	
RATE_USAGE	197[A2]	OUTCOLLECT_BATCH_SEQ_NUM	
RATE_USAGE_OVERRIDES	203[A2]	103[A2]	
<i>rate_zone</i>		<i>record_category</i>	
PRODUCT_ELEMENTS	157[A2]	RECORD_TYPE_REF	215[A2]
<i>rateband</i>		<i>record_delimiter_char</i>	
RATE_USAGE_BANDS	198[A2]	RECORD_TYPE_REF	216[A2]
RATE_USAGE_BANDS_OVERRIDES	199[A2]	<i>record_delimiter_code</i>	
<i>rated_amount</i>		RECORD_TYPE_REF	216[A2]
BILL_INVOICE_DETAIL	79[CC]	<i>record_delimiter_count</i>	
<i>rated_flag</i>		RECORD_TYPE_REF	216[A2]
ADJ	48[CC]	<i>record_id</i>	
<i>rated_units</i>		RECORD_FIELD_DEF	207[A2]
CDR_DATA	120[CC]	RECORD_TYPE_REF	214[A2]
CDR_DATA_WORK	121[A1]	RECORD_TYPE_VALUES	218[A2]
CDR_FREE	129[CC]	<i>record_id_from</i>	
CDR_OUTCOLLECTS	127[A1]	RECORD_FIELD_MAP	210[A2]
CIBER_INCOLLECTS	138[A1]	RECORD_TYPE_MAP	213[A2]
CIBER_INCOLLECTS_ERROR	143[A1]	<i>record_id_to</i>	
<i>rating_method</i>		RECORD_FIELD_MAP	210[A2]
USAGE_TYPES	338[A2]	RECORD_TYPE_MAP	213[A2]
<i>raw_rec</i>		<i>record_size</i>	
CDR_RAW_USAGE	130[A1]	RECORD_TYPE_REF	214[A2]
<i>raw_rec_id</i>		<i>record_type</i>	
CDR_DATA_WORK	123[A1]	RAW_USAGE_FIELD_MAPPING	204[A2]
CDR_OUTCOLLECTS	128[A1]	RECORD_TYPE_REF	214[A2]
<i>raw_rec_size</i>		RECORD_TYPE_SEQ_NUM	217[A2]
CDR_DATA_WORK	123[A1]	TAP_MAPPING	271[A2]
CDR_OUTCOLLECTS	128[A1]		

<i>records_appended_last</i>		<i>remit_service_center</i>	
USAGE_MASTER_FILE_STATUS	352[CC]	ACCT_SEG_MAP	20[A1]
<i>reest_date</i>		<i>remote_done</i>	
EMF_NRC_REEST_DATES	223[CC]	EXT_FTP_ACCESS	256[A1]
EMF_RC_REEST_DATES	224[CC]	EXT_LOCAL_DIR_ACCESS	260[A1]
<i>ref_table_name</i>		<i>remote_host</i>	
ENUMERATION_DEF	236[A1]	EXT_FTP_ACCESS	256[A1]
<i>reference_code</i>		EXT_SOCKET_ACCESS	262[A1]
JNL_DETAIL	242[CC]	<i>remote_login</i>	
<i>refinance_plan_id</i>		EXT_FTP_ACCESS	256[A1]
REFINANCE_PLAN	302[CC]	<i>remote_password</i>	
<i>refinance_plan_id_serv</i>		EXT_FTP_ACCESS	256[A1]
REFINANCE_PLAN	302[CC]	<i>remote_phone_num</i>	
<i>refinance_status</i>		EXT_KERMIT_ACCESS	259[A1]
REFINANCE_PLAN	302[CC]	<i>remote_ready</i>	
<i>refinance_tracking_id</i>		EXT_FTP_ACCESS	256[A1]
CMF_BALANCE_DETAIL	154[CC]	EXT_LOCAL_DIR_ACCESS	260[A1]
<i>refinance_tracking_id_serv</i>		<i>remote_work</i>	
CMF_BALANCE_DETAIL	154[CC]	EXT_FTP_ACCESS	256[A1]
<i>refund_proration_factor</i>		EXT_LOCAL_DIR_ACCESS	260[A1]
BILL_INVOICE_DISCOUNT	91[CC]	<i>replicate_order</i>	
CDR_BILLED	116[CC]	EPR_BATCH_WORK	237[A1]
<i>refund_reason_code</i>		<i>reported_amount</i>	
REFUND	303[CC]	JNL_DETAIL	242[CC]
REFUND_REASON_CODE_REF	219[A2]	JNL_TRANS	249[CC]
REFUND_REASON_CODE_VALUES	220[A2]	<i>request_date</i>	
<i>refund_status</i>		REFUND	303[CC]
REFUND	304[CC]	<i>request_status</i>	
<i>refund_type</i>		ADJ	48[CC]
DEPOSIT	215[CC]	NRC_KEY	265[CC]
REFUND	304[CC]	<i>rerate_cdr_data_partition_key</i>	
<i>registration</i>		CDR_RERATED	132[CC]
SERVICE_PROVIDERS_REF	254[A2]	<i>rerate_msg_id</i>	
<i>regulatory_id</i>		CDR_RERATED	132[CC]
ACCOUNT_BALANCES	42[CC]	<i>rerate_msg_id_serv</i>	
CMF	144[CC]	CDR_RERATED	132[CC]
GLOBAL_ACCOUNT_BALANCES	284[A1]	<i>rerate_msg_id2</i>	
REGULATORY_ID_REF	221[A2]	CDR_RERATED	132[CC]
REGULATORY_ID_VALUES	222[A2]	<i>rerate_split_row_num</i>	
<i>remark</i>		CDR_RERATED	132[CC]
CMF	142[CC]	<i>rerated_dt</i>	
<i>reminder_dt</i>		CDR_DATA	122[CC]
TICKLER	302[A2]	<i>resale_flag</i>	
		TAX_CODES_COMM	283[A2]
		<i>resend_delay</i>	
		CCARD_RESPONSE_CODE_REF	94[A1]

<i>respond_to_id</i>		<i>return_reason_id</i>	
EXT_CONTACTS	252[A1]	ROAMING_TRANSFER_DETAIL	235[A2]
<i>response_category</i>		<i>rev_rcv_cost_ctr</i>	
CCARD_RESPONSE_CODE_REF	94[A1]	ACCT_SEG_MAP	20[A1]
EFT_RESPONSE_CODE_REF	223[A1]	ADJ	50[CC]
<i>response_code</i>		BILL_INVOICE_DETAIL	88[CC]
BMF	100[CC]	CDR_DATA	121[CC]
BMF_UNAPPLIED	107[CC]	CDR_DATA_WORK	122[A1]
CCARD_RESPONSE_CODE_REF	94[A1]	CDR_FREE	130[CC]
CCARD_RESPONSE_CODE_VALUES	95[A1]	CDR_OUTCOLLECTS	128[A1]
		CLEARING_HOUSE_DIVISION	158[A1]
CCARD_TRANS	112[CC]	CMF	143[CC]
EFT_RESPONSE_CODE_REF	223[A1]	JNL_DETAIL	243[CC]
EFT_RESPONSE_CODE_VALUES	225[A1]	JNL_TRANS	250[CC]
		JNL_WORK_LIST	252[CC]
EFT_TRANS	219[CC]	REV_RCV_COST_CENTER_REF	224[A2]
<i>response_code_descr</i>		REV_RCV_COST_CENTER_VALUES	225[A2]
CCARD_AVIS_RESPONSE_CODES	93[A1]	SERVICE	331[CC]
<i>restricted_domain</i>		SERVICE_BILLING	334[CC]
DISCOUNT_RESTRICTIONS	212[A1]	SERVICE_VIEW	342[CC]
UNIT_CR_RESTRICTIONS	320[A2], 321[A2]	<i>revenue_accounting_office</i>	
		SERVICE_PROVIDERS_REF	254[A2]
<i>restricted_id</i>		<i>revenue_owner</i>	
AGGR_USAGE_RESTRICTIONS	33[A1]	ABI_SOURCE_REF	13[A1]
DISCOUNT_RESTRICTIONS	213[A1]	<i>reversal_trans_type</i>	
UNIT_CR_RESTRICTIONS	320[A2]	EFT_RESPONSE_CODE_REF	223[A1]
<i>restricted_id2</i>		<i>review_date</i>	
DISCOUNT_RESTRICTIONS	213[A1]	ADJ	48[CC]
UNIT_CR_RESTRICTIONS	321[A2]	REFUND	304[CC]
<i>restricted_pic</i>		<i>review_dt</i>	
SERVICE	331[CC]	NRC_KEY	265[CC]
SERVICE_VIEW	342[CC]	<i>rfr_delay</i>	
<i>restriction_type</i>		EXT_CONTACTS	254[A1]
AGGR_USAGE_RESTRICTIONS	32[A1]	<i>rfr_filename</i>	
DISCOUNT_RESTRICTIONS	212[A1]	EXT_CONTACTS	254[A1]
UNIT_CR_RESTRICTIONS	320[A2]	<i>rfr_path</i>	
<i>retry_count</i>		EXT_CONTACTS	254[A1]
EXT_CONTACTS_STATUS	255[A1]	<i>roaming_detail</i>	
<i>retry_delay</i>		CDR_DATA_WORK	123[A1]
EXT_CONTACTS	253[A1]	CDR_OUTCOLLECTS	129[A1]
<i>retry_limit</i>		<i>roaming_invoice_dt</i>	
EXT_CONTACTS	253[A1]	ROAMING_INVOICE_SUMMARY	228[A2]
<i>return_code</i>		ROAMING_TRANSFER_DETAIL	232[A2]
PROCESS_RUN	133[A2]	<i>roaming_invoice_no</i>	
		ROAMING_INVOICE_SUMMARY	228[A2]
		ROAMING_TRANSFER_DETAIL	232[A2]

<i>rollover_grouping</i>		<i>run_success</i>	
CONTRACT_TYPES	179[A1]	JNL_DETAIL	243[CC]
<i>rollover_order</i>		JNL_TRANS	250[CC]
CONTRACT_TYPES	179[A1]	s	
<i>rollover_period</i>		<i>sales_channel_id</i>	
CUSTOMER_CONTRACT	190[CC]	CUSTOMER_CONTRACT	189[CC]
CUSTOMER_CONTRACT_VIEW	200[CC]	CUSTOMER_CONTRACT_VIEW	200[CC]
ETUC_UPDATES	227[CC]	NRC	263[CC]
UNIT_CREDIT_PROFILES	350[CC]	NRC_VIEW	270[CC]
<i>rollover_period_start</i>		PRODUCT	282[CC]
CUSTOMER_CONTRACT	190[CC]	PRODUCT_VIEW	295[CC]
CUSTOMER_CONTRACT_VIEW	200[CC]	SALES_CHANNEL_REF	240[A2]
ETUC_UPDATES	227[CC]	SALES_CHANNEL_VALUES	242[A2]
UNIT_CREDIT_PROFILES	350[CC]	SERVICE	332[CC]
<i>rounding_factor</i>		SERVICE_VIEW	343[CC]
RATE_CURRENCY_REF	177[A2]	<i>sales_code</i>	
TAX_PKG_INST_ID_REF	290[A2]	CMF	142[CC]
<i>rounding_method</i>		<i>sales_id</i>	
BONUS_POINT_ID_REF	86[A1]	NRC	263[CC]
RATE_CURRENCY_REF	177[A2]	NRC_VIEW	271[CC]
TAX_PKG_INST_ID_REF	289[A2]	<i>sample_bill_flag</i>	
USAGE_TYPES	334[A2]	ABI_INVOICE	37[CC]
<i>row_count</i>		<i>save_detail</i>	
CDR_RAW_USAGE	130[A1]	DISCOUNT_DEFINITIONS	208[A1]
<i>rpac_cluster_id</i>		REPORT_DISCOUNT	318[CC]
BP_SERVER_TO_RPAC_MAP	92[A1]	<i>sc_address1</i>	
RPAC_CLUSTER_DEFINITIONS	238[A2]	SALES_CHANNEL_REF	240[A2]
RPAC_DEFINITIONS	239[A2]	SERVICE_CENTERS	247[A2]
<i>rpac_cluster_type</i>		<i>sc_address2</i>	
RPAC_CLUSTER_DEFINITIONS	238[A2]	SALES_CHANNEL_REF	240[A2]
		SERVICE_CENTERS	247[A2]
<i>rpac_hostname</i>		<i>sc_address3</i>	
RPAC_DEFINITIONS	239[A2]	SALES_CHANNEL_REF	241[A2]
<i>rpac_id</i>		SERVICE_CENTERS	247[A2]
RPAC_DEFINITIONS	239[A2]	<i>sc_city</i>	
<i>rpac_port</i>		SALES_CHANNEL_REF	241[A2]
RPAC_DEFINITIONS	239[A2]	SERVICE_CENTERS	248[A2]
<i>rpac_query_order</i>		<i>sc_contact_fname</i>	
RPAC_DEFINITIONS	239[A2]	SALES_CHANNEL_REF	240[A2]
<i>rpac_replicate_order</i>		SERVICE_CENTERS	247[A2]
RPAC_DEFINITIONS	239[A2]	<i>sc_contact_lname</i>	
<i>run_order</i>		SALES_CHANNEL_REF	240[A2]
ACCOUNT_MOVE_TABLES	19[A1]	SERVICE_CENTERS	247[A2]
<i>run_status</i>		<i>sc_contact_minit</i>	
JNL_RUNS_STATUS	248[CC]	SALES_CHANNEL_REF	240[A2]
		SERVICE_CENTERS	247[A2]

<i>sc_contact_name_gen</i>		<i>second_units</i>	
SALES_CHANNEL_REF	240[A2]	CDR_DATA	119[CC]
<i>sc_contact_name_pre</i>		CDR_DATA_WORK	120[A1]
SALES_CHANNEL_REF	240[A2]	CDR_FREE	129[CC]
<i>sc_country_code</i>		CDR_OUTCOLLECTS	127[A1]
SALES_CHANNEL_REF	241[A2]	CIBER_INCOLLECTS	140[A1]
SERVICE_CENTERS	248[A2]	CIBER_INCOLLECTS_ERROR	144[A1]
<i>sc_county</i>		<i>secondary_amount</i>	
SERVICE_CENTERS	248[A2]	BILL_INVOICE_DETAIL	79[CC]
<i>sc_name</i>		REPORT_DISCOUNT	318[CC]
SALES_CHANNEL_REF	240[A2]	REPORT_INVOICE	323[CC]
SERVICE_CENTERS	247[A2]	<i>section_exclude</i>	
<i>sc_number</i>		BILL_FMT_SECTION_EXCL_REF	
SALES_CHANNEL_REF	240[A2]	61[A1]	
<i>sc_phone</i>		BILL_FMT_SECTION_EXCL_VALUES	
SALES_CHANNEL_REF	241[A2]	62[A1]	
SERVICE_CENTERS	248[A2]	BILL_SECTIONS	81[A1]
<i>sc_state</i>		<i>section_type</i>	
SALES_CHANNEL_REF	241[A2]	BILL_FMT_SECTION_TYPE_REF	
SERVICE_CENTERS	248[A2]	63[A1]	
<i>sc_zip</i>		BILL_FMT_SECTION_TYPE_VALUES	
SERVICE_CENTERS	248[A2]	64[A1]	
<i>sc_zip_code</i>		BILL_FORMAT_TEMPLATE	71[A1]
SALES_CHANNEL_REF	241[A2]	<i>security_code</i>	
<i>scale</i>		SERVICE_PROVIDERS_REF	252[A2]
RECORD_FIELD_MAP	211[A2]	<i>security_word</i>	
<i>scale_type</i>		SALES_CHANNEL_REF	241[A2]
RECORD_FIELD_MAP	211[A2]	<i>sender</i>	
<i>scenario_id</i>		TAP_MAPPING	271[A2]
REPORT_COL	314[CC]	<i>sent_receive</i>	
REPORT_COL_ACT_LIST	316[CC]	CC_BALANCE	99[A1]
<i>sched_start</i>		<i>seq_num</i>	
PROCESS_SCHED	135[A2]	CDR_OUTCOLLECTS	129[A1]
<i>sched_start_time</i>		OUTCOLLECT_BATCH	101[A2]
PROCESS_RUN	133[A2]	RECORD_TYPE_SEQ_NUM	217[A2]
<i>scheduled_date</i>		SEQ_NUM	244[A2]
REPORT_COL	314[CC]	<i>seq_num_in</i>	
REPORT_COL_ACT_LIST	316[CC]	CIBER_OPERATOR_SID_BID	148[A1]
<i>screen_id</i>		OUTCOLLECT_BATCH_SEQ_NUM	
CSR_AUDIT	185[CC]	103[A2]	
<i>second_dt</i>		<i>seq_num_out</i>	
CDR_DATA	119[CC]	CIBER_OPERATOR_SID_BID	148[A1]
CDR_DATA_WORK	120[A1]	OUTCOLLECT_BATCH_SEQ_NUM	
CDR_FREE	129[CC]	103[A2]	
CDR_OUTCOLLECTS	127[A1]		

<i>seqnum</i>		<i>server_type</i>	
EPR_ERROR	238[A1]	ATM_CUSTOM_TABLE_DEF	42[A1]
RATE_PERIODS	186[A2]	RECORD_FIELD_MAP	211[A2]
RATE_USAGE	195[A2]	RECORD_TYPE_REF	214[A2]
RATE_USAGE_BANDS	198[A2]	SERVER_DEFINITION	27[CC]
RATE_USAGE_BANDS_OVERRIDES	199[A2]	<i>service_active_dt</i>	
RATE_USAGE_OVERRIDES	201[A2]	SERVICE	332[CC]
RE_CHARGE_MODIFIER	226[A2]	SERVICE_VIEW	343[CC]
UNIT_CR_RATE_LIMIT	316[A2]	<i>service_address1</i>	
USAGE_JURISDICTION	322[A2]	SERVICE	331[CC]
<i>seqnum_rate_usage</i>		SERVICE_VIEW	342[CC]
CDR_DATA	122[CC]	<i>service_address2</i>	
<i>seqnum_rate_usage_overrides</i>		SERVICE	331[CC]
CDR_DATA	122[CC]	SERVICE_VIEW	342[CC]
<i>serial_number</i>		<i>service_address3</i>	
PRODUCT	283[CC]	SERVICE	331[CC]
PRODUCT_VIEW	295[CC]	SERVICE_VIEW	342[CC]
<i>server_capacity</i>		<i>service_center_id</i>	
SERVER_DEFINITION	27[CC]	BILL_FILES	63[CC]
<i>server_category</i>		BILL_MESSAGE_GROUPS	77[A1]
SERVER_CATEGORY_REF	245[A2]	CUSTOMER_SERVICE_CENTERS	
SERVER_CATEGORY_VALUES	246[A2]	213[CC]	
SERVER_DEFINITION	28[CC]	SERVICE_CENTER_TYPES	249[A2]
<i>server_from</i>		SERVICE_CENTERS	247[A2]
ACCOUNT_MOVE_STATUS	15[CC]	<i>service_center_type</i>	
<i>server_id</i>		CUSTOMER_SERVICE_CENTERS	213[CC]
BP_SERVER_TO_RPAC_MAP	92[A1]	SERVICE_CENTER_TYPE_REF	250[A2]
DEVICES	203[A1]	SERVICE_CENTER_TYPE_VALUES	
EPR_ERROR	238[A1]	251[A2]	
EXTERNAL_ID_ACCT_MAP	19[CC]	SERVICE_CENTER_TYPES	249[A2]
EXTERNAL_ID_EQUIP_MAP	20[CC]	<i>service_city</i>	
EXTERNAL_ID_EQUIP_MAP_VIEW	25[CC]	SERVICE	331[CC]
EXTERNAL_ID_GROUP_MAP	26[CC]	SERVICE_VIEW	343[CC]
FILES_IN_PROCESS	267[A1]	<i>service_code</i>	
IO_DEVICES	304[A1]	TAP_MAPPING	272[A2]
JNL_RUNS	40[A2]	<i>service_company</i>	
JNL_RUNS_STATUS	247[CC]	SERVICE	331[CC]
LOCAL_SERVER_ID	256[CC]	SERVICE_VIEW	342[CC]
PROCESS_RUN	133[A2]	<i>service_country_code</i>	
ROAMING_OPERATOR_REF	229[A2]	SERVICE	332[CC]
SERVER_DEFINITION	27[CC]	SERVICE_BILLING	334[CC]
SERVER_LOOKUP	30[CC]	SERVICE_VIEW	343[CC]
<i>server_to</i>		<i>service_county</i>	
ACCOUNT_MOVE_STATUS	15[CC]	SERVICE	332[CC]
		SERVICE_VIEW	343[CC]

<i>service_end</i>		<i>service_state</i>	
REPORT_EQUIP_VOL	321[CC]	SERVICE	332[CC]
<i>service_fname</i>		SERVICE_VIEW	343[CC]
REPORT_EQUIP_VOL	320[CC]	<i>service_type</i>	
SERVICE	331[CC]	TAP_MAPPING	271[A2]
SERVICE_VIEW	342[CC]	<i>service_zip</i>	
<i>service_franchise_tax_code</i>		SERVICE	332[CC]
SERVICE	332[CC]	SERVICE_VIEW	343[CC]
SERVICE_BILLING	334[CC]	<i>serving_place</i>	
SERVICE_VIEW	343[CC]	CIBER_INCOLLECTS	139[A1]
<i>service_geocode</i>		CIBER_INCOLLECTS_ERROR	144[A1]
SERVICE	332[CC]	<i>serving_sid_bid</i>	
SERVICE_BILLING	334[CC]	CDR_OUTCOLLECTS	129[A1]
SERVICE_VIEW	343[CC]	CIBER_ARBOR_USAGE_TYPE_XREF	
<i>service_group</i>		OUTCOLLECT_BATCH_SEQ_NUM	134[A1]
CLASS_OF_SERVICE_CODE_REF	154[A1]		
TAX_CHARGE_ELEMENTS	278[A2]	<i>serving_state_prov</i>	
<i>service_inactive_dt</i>		CIBER_INCOLLECTS	139[A1]
SERVICE	332[CC]	CIBER_INCOLLECTS_ERROR	144[A1]
SERVICE_VIEW	343[CC]	<i>set_query</i>	
<i>service_inquiry_center</i>		RECORD_TYPE_REF	215[A2]
ACCT_SEG_MAP	20[A1]	<i>ship_from_geocode</i>	
<i>service_key</i>		NRC	262[CC]
TAP_MAPPING	274[A2]	NRC_VIEW	270[CC]
<i>service_lname</i>		<i>ship_to_geocode</i>	
REPORT_EQUIP_VOL	320[CC]	NRC	262[CC]
SERVICE	331[CC]	NRC_VIEW	270[CC]
SERVICE_VIEW	342[CC]	<i>short_description_text</i>	
<i>service_minit</i>		DESCRIPTIONS	202[A1]
REPORT_EQUIP_VOL	320[CC]	<i>short_display</i>	
SERVICE	331[CC]	ABI_SOURCE_VALUES	14[A1]
SERVICE_VIEW	342[CC]	ACCESS_REGION_VALUES	16[A1]
<i>service_name_generation</i>		ACCOUNT_CATEGORY_VALUES	18[A1]
SERVICE	331[CC]	ACCT_SEG_VALUES	22[A1]
SERVICE_VIEW	342[CC]	ADJ_REASON_CODE_VALUES	24[A1]
<i>service_name_pre</i>		AGGR_USAGE_DEFINITIONS_VALUES	
SERVICE	331[CC]	31[A1]	
SERVICE_VIEW	342[CC]	AMP_MODE_VALUES	35[A1]
<i>service_phone</i>		ARCH_MODE_VALUES	38[A1]
SERVICE	332[CC]	ARCH_TYPE_VALUES	41[A1]
SERVICE_VIEW	343[CC]	ATM_POPLIST_VALUES	45[A1]
<i>service_phone2</i>		BALANCE_XFER_DIFF_VALUES	47[A1]
SERVICE	332[CC]	BAM_ERROR_CODE_VALUES	49[A1]
SERVICE_VIEW	343[CC]	BILL_CLASS_VALUES	55[A1]
<i>service_start</i>		BILL_DISP METH_VALUES	58[A1]
REPORT_EQUIP_VOL	320[CC]	BILL_FMT_OPT_VALUES	60[A1]

BILL_FMT_SECTION_EXCL_VALUES	62[A1]	EMF_SUSPENSION_REASON_VALUES	235[A1]
BILL_FMT_SECTION_TYPE_VALUES	64[A1]	EQUIP_CLASS_CODE_VALUES	240[A1]
BILL_FMT_TEMPLATE_CODE_VALUES	66[A1]	EQUIP_TYPE_CODE_VALUES	242[A1]
BILL_FORMAT_CODE_TYPE_VALUES	68[A1]	EXRATE_CLASS_VALUES	245[A1]
BILL_PERIOD_VALUES	79[A1]	EXT_ACCESS_METHOD_VALUES	
BILLING_FREQUENCY_VALUES	51[A1]		250[A1]
BONUS_POINT_ID_VALUES	88[A1]	EXT_SOURCE_ID_VALUES	264[A1]
BONUS_POINT_TRANS_TYPE_VALUES	91[A1]	EXT_SOURCE_TYPE_VALUES	266[A1]
CCARD_RESPONSE_CODE_VALUES	95[A1]	EXTERNAL_ID_TYPE_VALUES	248[A1]
CCARD_TYPE_CODE_VALUES	98[A1]	FILE_TYPE_VALUES	274[A1]
CDR_ADJ_ERROR_VALUES	101[A1]	FRANCHISE_CODE_VALUES	276[A1]
CDR_COMP_STATUS_VALUES	115[A1]	GENDER_VALUES	278[A1]
CELL_ID_VALUES	132[A1]	GENERIC_ENUMERATION_VALUES	
CLASS_OF_SERVICE_CODE_VALUES	155[A1]		280[A1]
CLEARING_HOUSE_ID_VALUES	160[A1]	GROUP_TYPE_VALUES	291[A1]
CMF_STATUS_CHG_REASON_VALUES	165[A1]	GUI_INDICATOR_VALUES	296[A1]
CMF_STATUS_VALUES	167[A1]	INDUSTRY_TYPE_VALUES	299[A1]
COMPONENT_DEFINITION_VALUES	170[A1]	INSERT_FOREIGN_KEY_VALUES	
CONNECT_REASON_CODES_VALUES	174[A1]		301[A1]
CORRIDOR_PLAN_ID_VALUES	186[A1]	INSERT_GRP_ID_VALUES	303[A1]
COUNTRY_CODE_VALUES	188[A1]	JNL_EMF_BOOK_VALUES	16[A2]
CURRENCY_TYPE_VALUES	196[A1]	JURISDICTION_CLASS_VALUES	
DENIAL_REASON_VALUES	199[A1]		44[A2]
DEPOSIT_TYPE_VALUES	201[A1]	KEY_DOMAIN_SYMBOL_VALUES	47[A2]
DISCONNECT_REASON_VALUES	205[A1]	LANGUAGE_CODE_VALUES	50[A2]
DISCOUNT_THRESH_TIER_ID_VALUES	218[A1]	LBX_ERROR_STATUS_VALUES	59[A2]
DISTANCE_BANDS_ID_VALUES	221[A1]	LBX_SOURCE_ID_VALUES	67[A2]
EFT_RESPONSE_CODE_VALUES	225[A1]	LOCATION_CODE_VALUES	70[A2]
EMF_CONFIG_ID_VALUES	229[A1]	MKT_CODE_VALUES	74[A2]
EMF_STATUS_CHG_REASON_VALUES	231[A1]	MOBILE_ZONE_TYPE_VALUES	78[A2]
EMF_STATUS_VALUES	233[A1]	MOBILE_ZONE_VALUES	79[A2]
		MSG_GRP_ID_VALUES	81[A2]
		MSG_TRIGGER_ID_VALUES	83[A2]
		OPEN_ITEM_ID_VALUES	99[A2]
		OWNING_COST_CTR_VALUES	106[A2]
		PACKAGE_DEFINITION_VALUES	
			112[A2]
		PACKAGE_GROUP_VALUES	114[A2]
		PLAN_ID_CREDIT_VALUES	121[A2]
		PLAN_ID_DISCOUNT_VALUES	123[A2]
		POINT_CATEGORY_VALUES	125[A2]
		POINT_CLASS_VALUES	127[A2]
		POINT_REGION_VALUES	129[A2]
		PRIVACY_LEVEL_VALUES	131[A2]
		PROVIDER_CLASS_VALUES	164[A2]
		RATABLE_UNIT_CLASS_VALUES	
			166[A2]

RATE_CURRENCY_GROUP_VALUES	175[A2]	<i>slide_time</i>	PROCESS_SCHED	135[A2]
RATE_CURRENCY_VALUES	178[A2]	<i>sort_priority</i>	BILL_FORMAT_PRODUCTS	70[A1]
RATE_PERIOD_VALUES	189[A2]		BILL_FORMAT_TEMPLATE	72[A1]
RECORD_TYPE_VALUES	218[A2]	<i>source_id</i>		
REFUND_REASON_CODE_VALUES	220[A2]		ABI_SOURCE_RECORD_TYPES	12[A1]
REGULATORY_ID_VALUES	222[A2]		ABI_SOURCE_REF	13[A1]
REV_RCV_COST_CENTER_VALUES	225[A2]		ABI_SOURCE_VALUES	14[A1]
ROAMING_OPERATOR_VALUES	230[A2]		BMF	98[CC]
SALES_CHANNEL_VALUES	242[A2]		BMF_UNAPPLIED	106[CC]
SERVER_CATEGORY_VALUES	246[A2]		CMF_ABI_SOURCES	146[CC]
SERVICE_CENTER_TYPE_VALUES	251[A2]		EXT_CONTACTS	251[A1]
SERVICE_PROVIDERS_VALUES	255[A2]		EXT_SOURCE_ID_REF	263[A1]
STATE_VALUES	257[A2]		EXT_SOURCE_ID_VALUES	264[A1]
STATUS_REASON_VALUES	260[A2]		LBX_ERROR	56[A2]
STATUS_TYPE_VALUES	264[A2]		LBX_FILE_STATUS	60[A2]
STATUS_VALUES	265[A2]		LBX_PAYMENT_TYPES	62[A2]
SUSPENDED_REASON_VALUES	267[A2]		LBX_POST_DATED	63[A2]
TAX_PKG_INST_ID_VALUES	291[A2]		LBX_SOURCE_ID_REF	65[A2]
TAX_STATUS_VALUES	295[A2]		LBX_SOURCE_ID_VALUES	67[A2]
TAX_THRESHOLD_VALUES	299[A2]		PREPAYMENT	276[CC]
TAX_TYPE_COMM_VALUES	301[A2]		SERVICE_PROVIDERS_REF	253[A2]
TIMEZONE_VALUES	305[A2]		TRANS_SOURCE_REF	307[A2]
TRANS_SOURCE_VALUES	308[A2]	<i>source_id_serv</i>		
UNITS_TYPE_VALUES	311[A2]		BMF	98[CC]
VIP_CODE_VALUES	346[A2]		BMF_UNAPPLIED	106[CC]
XFER_REASON_CODES_VALUES	350[A2]		EXT_SOURCE_ID_REF	263[A1]
ZONE_CLASS_VALUES	353[A2]		EXT_SOURCE_TYPE_REF	265[A1]
ZONE_VALUES	355[A2]		EXT_SOURCE_TYPE_VALUES	266[A1]
<i>sic_code</i>			PREPAYMENT	276[CC]
CMF	142[CC]		RECORD_TYPE_REF	214[A2]
<i>sid_bid</i>		<i>special_code</i>		
CIBER_LINE_RANGES	146[A1]		BILL_INVOICE	68[CC]
CIBER_OPERATOR_SID_BID	148[A1]	<i>special_features</i>		
CIBER_SID_BID_DEF	152[A1]		CIBER_INCOLLECTS	139[A1]
CIBER_SID_BID_MARKET	153[A1]		CIBER_INCOLLECTS_ERROR	143[A1]
ROAMING_TRANSFER_DETAIL	234[A2]	<i>special_ins_code</i>		
<i>sid_bid_recipient</i>			ABI_INVOICE	37[CC]
ROAMING_TRANSFER_DETAIL	234[A2]	<i>split_booking</i>		
<i>sim_serial_number</i>			NRC_TRANS_DESCR	95[A2]
SERVICE	332[CC]		PRODUCT_ELEMENTS	156[A2]
SERVICE_VIEW	343[CC]			

split_row_num		start_time	
CDR_BILLED	114[CC]	DEVICES	203[A1]
CDR_DATA	117[CC]	PROCESS_RUN	133[A2]
CDR_DATA_DUC	123[CC]	PROCESS_WORK	140[A2]
CDR_DATA_TAX	125[CC]	PROCESS_WORK_STATUS_DEF	150[A2]
CDR_DATA_WORK	123[A1]		
CDR_FREE	130[CC]	RATE_PERIODS	186[A2]
CDR_OUTCOLLECTS	125[A1]		
CDR_RERATED	132[CC]	state	
CDR_UNBILLED	134[CC]	ADDRESS	45[CC]
split_type		CIBER_LINE_RANGES	146[A1]
USAGE_TYPES_SPLIT	341[A2]	CMF_EXEMPT	163[CC]
sql_query		TCU_DET REP	347[CC]
PROCESS_SCHED	136[A2]	state_abbr	
src_field		STATE_REF	256[A2]
PAYMENT_FILE_DETAIL	117[A2]	STATE_VALUES	257[A2]
PAYMENT_FILE_HEADER	118[A2]	state_code	
PAYMENT_FILE_TRAILER	119[A2]	CMF_EXEMPT	163[CC]
src_table		GEOCODE_OVERRIDES	282[A1]
PAYMENT_FILE_DETAIL	117[A2]	LATE_FEE_ASSIGNMENT	51[A2]
PAYMENT_FILE_HEADER	118[A2]	TAX_ASSIGNMENTS	275[A2]
PAYMENT_FILE_TRAILER	119[A2]	TAX_OVERRIDES	287[A2]
ss_action_code		TAX_THRESHOLDS	297[A2]
TAP_MAPPING	274[A2]	TCU_DET REP	347[CC]
ss_code		ZIPCODE	351[A2]
TAP_MAPPING	273[A2]	state_geocode	
ssn		STATE_REF	256[A2]
CMF	139[CC]	STATE_VALUES	257[A2]
start_by		state_origin	
CONTRACT_TYPES	178[A1]	USAGE_JURISDICTION	323[A2]
start_by_dt		state_origin_exclude	
CUSTOMER_CONTRACT	191[CC]	USAGE_JURISDICTION	323[A2]
CUSTOMER_CONTRACT_VIEW	201[CC]	state_rate	
start_by_units		BILL_INVOICE_TAX	93[CC]
CONTRACT_TYPES	178[A1]	CDR_DATA_TAX	126[CC]
start_dt		TAX_OVERRIDES	287[A2]
CONTRACT_ASSIGNMENTS_HQ	180[CC]	state_target	
CUSTOMER_CONTRACT	189[CC]	USAGE_JURISDICTION	323[A2]
CUSTOMER_CONTRACT_VIEW	199[CC]	state_target_exclude	
start_dt_offset		USAGE_JURISDICTION	324[A2]
PACKAGE_COMPONENT_MEMBERS		state_tax	
	109[A2]	ADJ	50[CC]
start_offset		ADJ_TAX	52[CC]
BILL_INVOICE	69[CC]	BILL_INVOICE_DETAIL	87[CC]
		BILL_INVOICE_TAX	92[CC]
		CDR_DATA_TAX	125[CC]
		CDR_DATA_WORK	121[A1]
		CDR_FREE	129[CC]

CDR_OUTCOLLECTS	127[A1]	<i>subject_line</i>	
CIBER_INCOLLECTS	136[A1]	TICKLER	302[A2]
CIBER_INCOLLECTS_ERROR	141[A1]	<i>subscr_group_id</i>	
NRC	263[CC]	EXT_IPDR_FS_ACCESS	257[A1]
NRC_VIEW	270[CC]	<i>subscr_id_type</i>	
OUTCOLLECT_BATCH_TAX	104[A2]	TAP_MAPPING	274[A2]
REPORT_INVOICE	323[CC]	<i>subscr_level_external_id</i>	
statement_date		TICKLER	302[A2]
BILL_CYCLE	56[A1]	<i>subscr_master_group_no</i>	
BILL_INVOICE	67[CC]	EMF_MASTER_GROUPS	222[CC]
CCARD_TRANS	111[CC]	GROUPS	229[CC]
CMF_INTERIM_BILLS	168[CC]	<i>subscr_no</i>	
EFT_TRANS	218[CC]	ACCOUNT_BILLED_SERVICES	43[CC]
JNL_WORK_LIST	252[CC]	ADJ	47[CC]
statement_to_email		BILL_INVOICE_DETAIL	84[CC]
CMF	142[CC]	CDR_BILLED	114[CC]
statement_to_faxno		CDR_DATA	118[CC]
CMF	140[CC]	CDR_DATA_WORK	119[A1]
status		CDR_FREE	127[CC]
ACCOUNT_MOVE_STATUS	15[CC]	CDR_OUTCOLLECTS	126[A1]
BMF_DISTRIBUTION	103[CC]	CDR_RERATED	132[CC]
EPR_BATCH_WORK	237[A1]	CDR_UNBILLED	134[CC]
EPR_ERROR	238[A1]	CONTRACT_UNIT_CR	182[CC]
PREPAYMENT	277[CC]	CSR_AUDIT	185[CC]
PREPAYMENT_DISTRIBUTION	278[CC]	CUSTOMER_CORRIDORS	205[CC]
PROCESS_RUN	133[A2]	CUSTOMER_ID_EQUIP_MAP	207[CC]
PROCESS_WORK	141[A2]	CUSTOMER_ID_EQUIP_MAP_KEY	
ROAMING_TRANSFER_DETAIL	235[A2]		209[CC]
RPU_WORK	327[CC]	CUSTOMER_ID_EQUIP_MAP_VIEW	
SALES_CHANNEL_REF	241[A2]		211[CC]
UTL_TASK_STATUS	355[CC]	EMF_JOIN	221[CC]
status_id		EMF_NRC_REEST_DATES	223[CC]
SERVICE_STATUS	337[CC]	EMF_RC_REEST_DATES	224[CC]
STATUS_REASON_MAP	258[A2]	ERROR_BILL	225[CC]
STATUS_REF	261[A2]	EXTERNAL_ID_EQUIP_MAP	20[CC]
STATUS_TYPE_MAP	262[A2]	EXTERNAL_ID_EQUIP_MAP_KEY	
STATUS_VALUES	265[A2]		22[CC]
status_reason_id		EXTERNAL_ID_EQUIP_MAP_VIEW	
SERVICE_STATUS	337[CC]		24[CC]
STATUS_REASON_MAP	258[A2]	GLOBAL_OPEN_ITEM_ID_MAP	286[A1]
STATUS_REASON_REF	259[A2]	GROUP_MEMBER	232[CC]
STATUS_REASON_VALUES	260[A2]	HISTORIC_CONTRIBUTION	234[CC]
status_type_id		JNL_DETAIL	241[CC]
SERVICE_STATUS	337[CC]	MOBILE_SERVICE_ZONES	257[CC]
STATUS_TYPE_MAP	262[A2]	OPEN_ITEM_ID_MAP	273[CC]
STATUS_TYPE_REF	263[A2]	REPORT_BED	310[CC]
STATUS_TYPE_VALUES	264[A2]	REPORT_BILLED_REV	312[CC]

REPORT_EQUIP_VOL	320[CC]	REPORT_INVOICE	324[CC]
REPORT_INVOICE	324[CC]	RPU_WORK	327[CC]
RPU_WORK	327[CC]	SERVICE	328[CC]
SERVICE	328[CC]	SERVICE_BILLING	333[CC]
SERVICE_BILLING	333[CC]	SERVICE_KEY	336[CC]
SERVICE_KEY	336[CC]	SERVICE_STATUS	337[CC]
SERVICE_STATUS	337[CC]	SERVICE_VIEW	340[CC]
SERVICE_VIEW	339[CC]	SERVICE_ZONE	344[CC]
SERVICE_ZONE	344[CC]	SUBSCRIBER_ID_SEQ_NUM	31[CC]
UNIT_CREDIT_PROFILES	349[CC]	UNIT_CREDIT_PROFILES	349[CC]
XFER_HISTORY	32[CC]	XFER_HISTORY	32[CC]
XFER_STATUS	356[CC]	XFER_STATUS	356[CC]
subscr_no_resets			
ACCOUNT_BILLED_SERVICES	43[CC]	BILL_FORMAT_DISPLAY_TYPES	
ADJ	47[CC]		69[A1]
BILL_INVOICE_DETAIL	84[CC]	BILL_INVOICE_DETAIL	74[CC]
CDR_BILLED	114[CC]	REPORT_BILLED_REV	312[CC]
CDR_DATA	118[CC]	REPORT_DISCOUNT	318[CC]
CDR_DATA_WORK	119[A1]	REPORT_INVOICE	323[CC]
CDR_FREE	128[CC]	succeeded	
CDR_OUTCOLLECTS	126[A1]	PROCESS_WORK	141[A2]
CDR_RERATED	133[CC]	PROCESS_WORK_STATUS	146[A2]
CDR_UNBILLED	134[CC]	succeeded_name	
CONTRACT_UNIT_CR	182[CC]	PROCESS_WORK_CARDINAL_VALUES	
CUSTOMER_CORRIDORS	205[CC]		143[A2]
CUSTOMER_ID_EQUIP_MAP	207[CC]	succeeded_rate	
CUSTOMER_ID_EQUIP_MAP_KEY	209[CC]	PROCESS_WORK	141[A2]
CUSTOMER_ID_EQUIP_MAP_VIEW	211[CC]	PROCESS_WORK_STATUS	147[A2]
EMF_JOIN	221[CC]	sum_amount	
EMF_NRC_REEST_DATES	223[CC]	OUTCOLLECT_BATCH_DETAIL	102[A2]
EMF_RC_REEST_DATES	224[CC]	sum_rated_units	
ERROR_BILL	225[CC]	OUTCOLLECT_BATCH_DETAIL	102[A2]
ETUC_UPDATES	226[CC]	supervisor_name	
EXTERNAL_ID_EQUIP_MAP	20[CC]	ADJ	48[CC]
EXTERNAL_ID_EQUIP_MAP_KEY	22[CC]	CSR_INFORMATION	192[A1]
EXTERNAL_ID_EQUIP_MAP_VIEW	24[CC]	CSR_SUPERVISORS	194[A1]
GLOBAL_OPEN_ITEM_ID_MAP	286[A1]	NRC_KEY	265[CC]
GROUP_MEMBER	232[CC]	REFUND	304[CC]
HISTORIC_CONTRIBUTION	234[CC]	REPORT_ADJ	307[CC]
JNL_DETAIL	241[CC]	suppress_prenotes	
MOBILE_SERVICE_ZONES	257[CC]	CLEARING_HOUSE_CONTACTS	157[A1]
OPEN_ITEM_ID_MAP	273[CC]	suspend_dates	
REPORT_BILLED_REV	312[CC]	XFER_REASON_CODES_REF	349[A2]
REPORT_EQUIP_VOL	320[CC]	suspended_code	
		SUSPENDED_REASON_REF	266[A2]
		SUSPENDED_REASON_VALUES	267[A2]

switch_id		target_restriction	
RECORD_TYPE_REF	214[A2]	CORRIDOR_PLAN_ID_REF	185[A1]
SERVICE	332[CC]	target_table	
SERVICE_VIEW	343[CC]	ABI_RECORD_MAP	38[CC]
switchless_reseller		ABI_SOURCE_RECORD_TYPES	12[A1]
SERVICE_PROVIDERS_REF	254[A2]	target_type	
symbol		ABI_SOURCE_RECORD_TYPES	12[A1]
KEY_DOMAIN_SYMBOL_REF	46[A2]	DISCOUNT_TARGETS	215[A1]
KEY_DOMAIN_SYMBOL_VALUES	47[A2]	target_value	
T		TRANSLATION	306[A2]
table_alias		task_cycle	
ACCOUNT_MOVE_TABLES	19[A1]	PROCESS_SCHED	134[A2]
table_id		task_id	
AMP_CONSTRAINT_TEMP	55[CC]	DEVICES	203[A1]
table_key		ERROR_BILL	225[CC]
REPLICATION_TABLES	223[A2]	task_intvl	
table_name		PROCESS_SCHED	135[A2]
ACCOUNT_MOVE_TABLES	19[A1]	task_mode	
ATM_CUSTOM_TABLE_DEF	42[A1]	BIP_ACCOUNT_TIME_STATS	18[CC]
ATM_FIELD_DEF	43[A1]	HISTORIC_THRESHOLDS	239[CC]
ATM_POPLIST_REF	44[A1]	PROCESS_SCHED	135[A2]
ATM_POPLIST_VALUES	45[A1]	RATE_DISCOUNT_OVERRIDES	298[CC]
EPR_BATCH_WORK	237[A1]	task_name	
GUI_INDICATOR_REF	295[A1]	PROCESS_SCHED	134[A2]
GUI_INDICATOR_VALUES	296[A1]	PROCESS_STATUS	138[A2]
REPLICATION_TABLES	223[A2]	RECORD_FIELD_MAP	211[A2]
SEQ_NUM	244[A2]	RECORD_TYPE_MAP	213[A2]
TRANSLATION	306[A2]	RECORD_TYPE_REF	214[A2]
table_order		RECORD_TYPE_SEQ_NUM	217[A2]
BILL_FORMAT_TEMPLATE	72[A1]	UTL_TASK_STATUS	355[CC]
tape_file_name		task_priority	
BILL_TAPES	95[CC]	PROCESS_SCHED	135[A2]
target_amount		task_status	
HISTORIC_CONTRIBUTION	234[CC]	PROCESS_SCHED	135[A2]
target_domain		tax	
DISCOUNT_TARGETS	215[A1]	BILL_INVOICE_DETAIL	81[CC]
target_id		CMF_BALANCE_TAX	156[CC]
DISCOUNT_TARGETS	216[A1]	HISTORIC_CONTRIBUTION_TAX	236[CC]
target_id2		JNL_WRITEOFF_TAX	255[CC]
DISCOUNT_TARGETS	216[A1]	TCU_DET REP	346[CC]
target_is_xact		tax_category	
CORRIDOR_PLAN_GROUPS	182[A1]	TAX_CODES_COMM	281[A2]
CUSTOMER_CORRIDORS	204[CC]	tax_class	
target_location_code		ADJ	49[CC]
PRODUCT_JURISDICTION	160[A2]	ADJ_TRANS_DESCR	27[A1]
PRODUCT_RATE_KEY	288[CC]	JNL_WRITEOFF	253[CC]

NRC_TRANS_DESCR	93[A2]	<i>tax_pkg_inst_id</i>	
PRODUCT_ELEMENTS	155[A2]	ADJ	49[CC]
TAX_RATES_VAT	293[A2]	ADJ_TAX	52[CC]
TAX_UNIV_ICB	345[CC]	BILL_INVOICE_DETAIL	82[CC]
USAGE_TYPES	329[A2]	BILL_INVOICE_TAX	92[CC]
<i>tax_code</i>		CDR_DATA_TAX	125[CC]
TAX_CODES_COMM	282[A2]	CMF_EXEMPT	163[CC]
<i>tax_code_id</i>		HISTORIC_CONTRIBUTION_TAX	
OUTCOLLECT_BATCH_TAX	104[A2]		236[CC]
<i>tax_code_origin_req</i>		NRC	263[CC]
USAGE_TYPES	329[A2]	NRC_VIEW	270[CC]
<i>tax_code_target_req</i>		OUTCOLLECT_BATCH_TAX	104[A2]
USAGE_TYPES	329[A2]	PREPAYMENT	276[CC]
<i>tax_date</i>		TAX_ASSIGNMENTS	276[A2]
BILL_INVOICE	67[CC]	TAX_ELEM_DEFAULT_LOC	284[A2]
JNL_WRITEOFF	253[CC]	TAX_OVERRIDES	286[A2]
<i>tax_description</i>		TAX_PKG_INST_ID_REF	288[A2]
TCU_DET REP	347[CC]	TAX_PKG_INST_ID_VALUES	291[A2]
<i>tax_exception</i>		TAX_RATES_VAT	292[A2]
FRANCHISE_CODE_REF	275[A1]	TAX_THRESHOLDS	296[A2]
<i>tax_geocode</i>		TAX_UNIV_ICB	345[CC]
ROAMING_OPERATOR_REF	229[A2]	<i>tax_pkg_instance_id</i>	
<i>tax_identifier</i>		TCU_DET REP	346[CC]
COUNTRY_CODE_REF	187[A1]	<i>tax_pkg_type</i>	
<i>tax_journal_status</i>		TAX_PKG_INST_ID_REF	288[A2]
ADJ	50[CC]	TCU_DET REP	346[CC]
BILL_INVOICE	68[CC]	<i>tax_point</i>	
<i>tax_level</i>		PREPAYMENT	275[CC]
TCU_DET REP	346[CC]	<i>tax_rate</i>	
<i>tax_location</i>		ADJ_TAX	52[CC]
GEOCODE_OVERRIDES	283[A1]	BILL_INVOICE_DETAIL	82[CC]
<i>tax_location_nrc</i>		BILL_INVOICE_TAX	92[CC]
NRC_TRANS_DESCR	94[A2]	PREPAYMENT	275[CC]
<i>tax_location_outcollect</i>		ROAMING_TRANSFER_DETAIL	233[A2]
USAGE_TYPES	331[A2]	ROAMING_TRANSFER_TAX_DETAIL	
<i>tax_location_rc</i>		236[A2]	
PRODUCT_ELEMENTS	155[A2]	<i>tax_rate_active_dt</i>	
<i>tax_location_usg</i>		CDR_DATA	119[CC]
USAGE_TYPES	330[A2]	<i>tax_rate_inactive_dt</i>	
<i>tax_on_invoice</i>		CDR_DATA	119[CC]
ADJ_TRANS_DESCR	27[A1]	<i>tax_status</i>	
<i>tax_pkg_count</i>		CMF_EXEMPT	163[CC]
CDR_DATA	122[CC]	TAX_STATUS_REF	294[A2]
		TAX_STATUS_VALUES	295[A2]
		<i>tax_threshold</i>	
		TAX_THRESHOLD_REF	298[A2]

<i>tax_threshold_id</i>		<i>tele_msg</i>	
TAX_THRESHOLD_REF	298[A2]	SERVICE_CENTERS	248[A2]
TAX_THRESHOLD_VALUES	299[A2]	<i>teletax_calc_ind</i>	
TAX_THRESHOLDS	296[A2]	TAX_CHARGE_ELEMENTS	278[A2]
<i>tax_treatment</i>		<i>temp_local_dir_num</i>	
GSM_ROAMING AGREEMENT	293[A1]	CIBER_INCOLLECTS	137[A1]
ROAMING_TRANSFER_DETAIL	232[A2]	CIBER_INCOLLECTS_ERROR	142[A1]
<i>tax_type</i>		<i>template_code</i>	
CMF_BALANCE_TAX	156[CC]	BILL_FMT_TEMPLATE_CODE_REF	
TAX_PKG_INST_ID_REF	289[A2]		65[A1]
TAX_TYPE_COMM_REF	300[A2]	BILL_FMT_TEMPLATE_CODE_VALUES	
TAX_TYPE_COMM_VALUES	301[A2]		66[A1]
<i>tax_type_code</i>		BILL_FORMAT_TEMPLATE	72[A1]
ADJ	51[CC]	<i>term_status</i>	
ADJ_TAX	53[CC]	CIBER_INCOLLECTS	137[A1]
BILL_INVOICE_DETAIL	89[CC]	CIBER_INCOLLECTS_ERROR	142[A1]
BILL_INVOICE_TAX	93[CC]	<i>termination_code</i>	
BMF	100[CC]	PRODUCT_CHARGE_MAP	285[CC]
CDR_DATA_TAX	125[CC]	PRODUCT_ELEMENTS	156[A2]
CMF_EXEMPT	163[CC]	<i>termination_type_id_nrc</i>	
HISTORIC_CONTRIBUTION_TAX	236[CC]	CONTRACT_TYPES	178[A1]
JNL_DETAIL	244[CC]	<i>terms_code</i>	
JNL_KEYS	29[A2]	TAX_CHARGE_ELEMENTS	279[A2]
JNL_KEYS_DEFAULT	35[A2]	<i>test_flag</i>	
JNL_TRANS	251[CC]	BILL_INVOICE	70[CC]
JNL_WRITEOFF_TAX	255[CC]	BILL_INVOICE_DETAIL	88[CC]
NRC	263[CC]	RATE_RC	192[A2]
NRC_VIEW	270[CC]	<i>third_units</i>	
PREPAYMENT	276[CC]	CDR_DATA	119[CC]
TAX_OVERRIDES	287[A2]	CDR_DATA_WORK	120[A1]
TAX_RATES_VAT	293[A2]	CDR_FREE	129[CC]
TAX_THRESHOLDS	296[A2]	CDR_OUTCOLLECTS	127[A1]
TCU_DET REP	347[CC]	CIBER_INCOLLECTS	140[A1]
<i>tax_type_code_mask</i>		CIBER_INCOLLECTS_ERROR	144[A1]
JNL_KEYS_MASK	38[A2]	<i>thresh_ref</i>	
<i>tax_units_indicator</i>		CMF	140[CC]
TAX_CODES_COMM	283[A2]	<i>threshold</i>	
<i>tax_units_type</i>		CMF	143[CC]
TAX_CODES_COMM	283[A2]	<i>threshold_proration_factor</i>	
<i>tax_zero_charge</i>		BILL_INVOICE_DISCOUNT	91[CC]
TAX_PKG_INST_ID_REF	290[A2]	CDR_BILLED	116[CC]
<i>taxable_amount</i>		<i>threshold_proration_ratio</i>	
TCU_DET REP	346[CC]	CDR_DATA_DUC	124[CC]
<i>taxable_bus_ind</i>		<i>threshold_tracking_id</i>	
TAX_CHARGE_ELEMENTS	277[A2]	HISTORIC_THRESHOLDS	239[CC]
		<i>threshold_tracking_id_serv</i>	
		HISTORIC_THRESHOLDS	239[CC]

<i>tie_code</i>		<i>total_amt</i>	
CMF	137[CC]	ADJ	48[CC]
<i>timeout</i>		LBX_FILE_STATUS	60[A2]
EXT_SOCKET_ACCESS	262[A1]	REPORT_ADJ	307[CC]
<i>timezone</i>		ROAMING_INVOICE_SUMMARY	228[A2]
CDR_DATA	119[CC]	ROAMING_TRANSFER_DETAIL	233[A2]
CDR_DATA_WORK	120[A1]	ROAMING_TRANSFER_TAX_DETAIL	236[A2]
CDR_FREE	129[CC]		
CDR_OUTCOLLECTS	127[A1]	<i>total_amt_error</i>	
CIBER_INCOLLECTS	137[A1]	ROAMING_TRANSFER_DETAIL	233[A2]
CIBER_INCOLLECTS_ERROR	142[A1]	ROAMING_TRANSFER_TAX_DETAIL	236[A2]
SERVICE	332[CC]		
SERVICE_BILLING	334[CC]	<i>total_amt_foreign</i>	
SERVICE_VIEW	343[CC]	ROAMING_INVOICE_SUMMARY	228[A2]
TIMEZONE_REF	304[A2]	ROAMING_TRANSFER_DETAIL	233[A2]
TIMEZONE_VALUES	305[A2]	ROAMING_TRANSFER_TAX_DETAIL	236[A2]
<i>title</i>			
CMF	145[CC]	<i>total_amt_foreign_error</i>	
CONTACTS	177[CC]	ROAMING_TRANSFER_DETAIL	233[A2]
<i>to_date</i>		ROAMING_TRANSFER_TAX_DETAIL	236[A2]
BILL_IMAGE	64[CC]	<i>total_amt_home</i>	
BILL_INVOICE	67[CC]	ROAMING_INVOICE_SUMMARY	228[A2]
BILL_INVOICE_DETAIL	85[CC]	ROAMING_TRANSFER_DETAIL	233[A2]
JNL_WORK_LIST	252[CC]	ROAMING_TRANSFER_TAX_DETAIL	236[A2]
LBX_ERROR	57[A2]		
LBX_POST_DATED	64[A2]	<i>total_amt_home_error</i>	
REPORT_ADJ	308[CC]	ROAMING_TRANSFER_DETAIL	233[A2]
REPORT_BED	311[CC]	ROAMING_TRANSFER_TAX_DETAIL	236[A2]
REPORT_BILLED_REV	312[CC]		
REPORT_DISCOUNT	319[CC]	<i>total_check</i>	
REPORT_INVOICE	324[CC]	LBX_FILE_STATUS	60[A2]
<i>to_server</i>		<i>total_dis_check</i>	
REPLICATION_TABLES	223[A2]	LBX_FILE_STATUS	60[A2]
<i>to_user</i>		<i>total_due</i>	
TICKLER	302[A2]	CMF_BALANCE	151[CC]
<i>total</i>		CMF_BALANCE_DETAIL	154[CC]
AGED_BALANCES	54[CC]	<i>total_element_amount</i>	
REPORT_AGED_BALANCES	309[CC]	CUSTOMER_CONTRACT_KEY	195[CC]
<i>total_ach</i>		<i>total_exchange_rate</i>	
LBX_FILE_STATUS	60[A2]	ROAMING_TRANSFER_DETAIL	234[A2]
<i>total_adj</i>		<i>total_fixed_amt</i>	
CMF_BALANCE	151[CC]	CDR_DATA_TAX	126[CC]
CMF_BALANCE_DETAIL	154[CC]	<i>total_instalments</i>	
<i>total_amount</i>		NRC	262[CC]
CONTRACT_UNIT_CR	182[CC]	NRC_VIEW	270[CC]

<i>total_MOC</i>	ROAMING_TRANSFER_DETAIL 234[A2]	<i>total_tax_foreign</i>	ROAMING_INVOICE_SUMMARY 228[A2]
<i>total_MOC_error</i>	ROAMING_TRANSFER_DETAIL 234[A2]	ROAMING_TRANSFER_DETAIL 233[A2]	ROAMING_TRANSFER_TAX_DETAIL
			236[A2]
<i>total_MTC</i>	ROAMING_TRANSFER_DETAIL 234[A2]	<i>total_tax_foreign_error</i>	ROAMING_TRANSFER_DETAIL 233[A2]
<i>total_MTC_error</i>	ROAMING_TRANSFER_DETAIL 234[A2]	ROAMING_TRANSFER_TAX_DETAIL	237[A2]
<i>total_paid</i>	CMF_BALANCE 151[CC]	<i>total_tax_home</i>	ROAMING_INVOICE_SUMMARY 228[A2]
	CMF_BALANCE_DETAIL 154[CC]	ROAMING_TRANSFER_DETAIL 233[A2]	ROAMING_TRANSFER_TAX_DETAIL
<i>total_periods</i>	CUSTOMER_CONTRACT 189[CC]		236[A2]
	CUSTOMER_CONTRACT_VIEW 200[CC]	<i>total_tax_home_error</i>	ROAMING_TRANSFER_DETAIL 233[A2]
<i>total_points</i>	CMF_POINT_BALANCE 175[CC]	ROAMING_TRANSFER_TAX_DETAIL	237[A2]
<i>total_rate</i>	CDR_DATA_TAX 126[CC]	<i>total_type_10</i>	ROAMING_TRANSFER_DETAIL 234[A2]
<i>total_records</i>	FILE_STATUS 271[A1]	<i>total_type_10_error</i>	ROAMING_TRANSFER_DETAIL 235[A2]
	ROAMING_TRANSFER_DETAIL 233[A2]	<i>total_type_11</i>	ROAMING_TRANSFER_DETAIL 234[A2]
	USAGE_MASTER_FILE_STATUS 352[CC]	<i>total_type_11_error</i>	ROAMING_TRANSFER_DETAIL 235[A2]
	USAGE_PROCESS_FILE_STATUS 354[CC]	<i>total_type_20</i>	ROAMING_TRANSFER_DETAIL 234[A2]
<i>total_records_error</i>	ROAMING_TRANSFER_DETAIL 233[A2]	<i>total_type_20_error</i>	ROAMING_TRANSFER_DETAIL 235[A2]
<i>total_revenue</i>	OUTCOLLECT_BATCH_TAX 104[A2]	<i>total_type_30</i>	ROAMING_TRANSFER_DETAIL 234[A2]
<i>total_savings_amount</i>	CUSTOMER_CONTRACT_KEY 194[CC]	<i>total_type_30_error</i>	ROAMING_TRANSFER_DETAIL 235[A2]
<i>total_SSC</i>	ROAMING_TRANSFER_DETAIL 234[A2]	<i>total_type_50</i>	ROAMING_TRANSFER_DETAIL 234[A2]
<i>total_SSC_error</i>	ROAMING_TRANSFER_DETAIL 234[A2]	<i>total_type_50_error</i>	ROAMING_TRANSFER_DETAIL 235[A2]
<i>total_tax</i>	OUTCOLLECT_BATCH_TAX 104[A2]	<i>total_type_70</i>	ROAMING_TRANSFER_DETAIL 235[A2]
	ROAMING_INVOICE_SUMMARY 228[A2]	<i>total_type_70_error</i>	ROAMING_TRANSFER_DETAIL 235[A2]
	ROAMING_TRANSFER_DETAIL 233[A2]	<i>total_units</i>	CONTRACT_UNIT_CR 181[CC]
	ROAMING_TRANSFER_TAX_DETAIL 236[A2]		ROAMING_TRANSFER_DETAIL 234[A2]
<i>total_tax_error</i>	ROAMING_TRANSFER_DETAIL 233[A2]		
	ROAMING_TRANSFER_TAX_DETAIL 236[A2]		

<i>total_units_error</i>		OPEN_ITEM_ID_MAP	273[CC]
ROAMING_TRANSFER_DETAIL	234[A2]	OUTCOLLECT_BATCH	101[A2]
<i>total_utc_offset</i>		OUTCOLLECT_BATCH_SEQ_NUM	
ROAMING_TRANSFER_DETAIL	234[A2]		103[A2]
<i>total_valid</i>		PREPAYMENT	275[CC]
LBX_FILE_STATUS	61[A2]	PRODUCT	280[CC]
<i>total_VAS</i>		PRODUCT_CHARGE_MAP	284[CC]
ROAMING_TRANSFER_DETAIL	234[A2]	PRODUCT_KEY	287[CC]
<i>total_VAS_error</i>		PRODUCT_RATE_KEY	288[CC]
ROAMING_TRANSFER_DETAIL	234[A2]	PRODUCT_RATE_OVERRIDE	290[CC]
<i>total_wire</i>		PRODUCT_VIEW	293[CC]
LBX_FILE_STATUS	60[A2]	REFUND	305[CC]
<i>track_total_amounts</i>		REPORT_ADJ	307[CC]
CUSTOMER_CONTRACT	189[CC]	REPORT_BILLED_REV	312[CC]
CUSTOMER_CONTRACT_VIEW	200[CC]	REPORT_INVOICE	324[CC]
<i>tracking_date</i>		RPU_WORK	327[CC]
BILL_INVOICE_DETAIL	76[CC]	SERVICE_ZONE	344[CC]
<i>tracking_dt</i>		<i>tracking_id_counter</i>	
JNL_DETAIL	242[CC]	ADJ	47[CC]
<i>tracking_id</i>		ADJ_TAX	52[CC]
ABI_RECORD_MAP	38[CC]	<i>tracking_id_serv</i>	
ADJ	47[CC]	ABI_RECORD_MAP	38[CC]
ADJ_TAX	52[CC]	ADJ	47[CC]
BILL_INVOICE_DETAIL	75[CC]	ADJ_TAX	52[CC]
BMF	98[CC]	BILL_INVOICE_DETAIL	75[CC]
BMF_UNAPPLIED	105[CC]	BMF	98[CC]
CCARD_TRANS	112[CC]	BMF_UNAPPLIED	106[CC]
CMF_EXEMPT	164[CC]	CCARD_TRANS	112[CC]
CMF_INTERIM_BILLS	167[CC]	CMF_EXEMPT	164[CC]
CONTRACT_ASSIGNMENTS_HQ	180[CC]	CMF_INTERIM_BILLS	167[CC]
CONTRACT_UNIT_CR	181[CC]	CONTRACT_ASSIGNMENTS_HQ	180[CC]
CUSTOMER_CONTRACT	188[CC]	CONTRACT_UNIT_CR	181[CC]
CUSTOMER_CONTRACT_KEY	194[CC]	CUSTOMER_CONTRACT	188[CC]
CUSTOMER_CONTRACT_VIEW	199[CC]	CUSTOMER_CONTRACT_KEY	194[CC]
CUSTOMER_CORRIDORS	204[CC]	CUSTOMER_CONTRACT_VIEW	199[CC]
DEPOSIT	214[CC]	CUSTOMER_CORRIDORS	204[CC]
EFT_TRANS	219[CC]	DEPOSIT	214[CC]
GLOBAL_OPEN_ITEM_ID_MAP	286[A1]	EFT_TRANS	219[CC]
JNL_DETAIL	241[CC]	GLOBAL_OPEN_ITEM_ID_MAP	286[A1]
JNL_WRITEOFF	253[CC]	JNL_DETAIL	242[CC]
JNL_WRITEOFF_TAX	255[CC]	JNL_WRITEOFF	253[CC]
NRC	261[CC]	JNL_WRITEOFF_TAX	255[CC]
NRC_KEY	265[CC]	NRC	261[CC]
NRC_VIEW	268[CC]	NRC_KEY	265[CC]
		NRC_VIEW	268[CC]
		OPEN_ITEM_ID_MAP	273[CC]
		PREPAYMENT	275[CC]
		PRODUCT	280[CC]

PRODUCT_CHARGE_MAP	284[CC]	<i>trans_id</i>	
PRODUCT_KEY	287[CC]	CDR_DATA	117[CC]
PRODUCT_RATE_KEY	288[CC]	CDR_DATA_WORK	118[A1]
PRODUCT_RATE_OVERRIDE	290[CC]	CDR_FREE	127[CC]
PRODUCT_VIEW	293[CC]	CDR_OUTCOLLECTS	125[A1]
REFUND	305[CC]	<i>trans_sent_amt</i>	
REPORT_BILLED_REV	312[CC]	CPM_CYCLE_STATUS	183[CC]
REPORT_INVOICE	324[CC]	EFT_CYCLE_STATUS	216[CC]
RPU_WORK	327[CC]	<i>trans_sign</i>	
SERVICE_ZONE	344[CC]	ADJ_TRANS_DESCR	26[A1]
<i>trans_amount</i>		BMF_TRANS_DESCR	85[A1]
BMF	97[CC]	BONUS_POINT_TRANS_TYPE_REF	
BMF_UNAPPLIED	105[CC]		89[A1]
REPORT_PAY_DETAIL	326[CC]	NRC_TRANS_DESCR	93[A2]
<i>trans_audit_amt</i>		REPORT_ADJ	307[CC]
CPM_CYCLE_STATUS	184[CC]	REPORT_PAY_DETAIL	326[CC]
EFT_CYCLE_STATUS	217[CC]	<i>trans_source</i>	
<i>trans_date</i>		BMF	98[CC]
BILL_INVOICE_DETAIL	83[CC]	BMF_UNAPPLIED	106[CC]
BMF	97[CC]	REPORT_PAY_DETAIL	326[CC]
BMF_DISTRIBUTION	103[CC]	TRANS_SOURCE_REF	307[A2]
BMF_UNAPPLIED	105[CC]	TRANS_SOURCE_VALUES	308[A2]
CMF_BONUS_POINT	158[CC]	<i>trans_status</i>	
PREPAYMENT_DISTRIBUTION	278[CC]	CMF_BONUS_POINT	159[CC]
REFINANCE_PLAN	302[CC]	HISTORIC_DISCOUNT_TRANS_MAP	
REPORT_BILLED_REV	312[CC]		238[CC]
REPORT_DISCOUNT	318[CC]	<i>trans_submitter</i>	
REPORT_INVOICE	323[CC]	BMF	98[CC]
REPORT_PAY_DETAIL	326[CC]	BMF_UNAPPLIED	106[CC]
<i>trans_date_time</i>		<i>trans_target_id</i>	
LBX_ERROR	56[A2]	ADJ_TRANS_DESCR	26[A1]
LBX_FILE_STATUS	60[A2]	REPORT_ADJ	307[CC]
LBX_POST_DATED	63[A2]	<i>trans_target_type</i>	
<i>trans_dt</i>		ADJ_TRANS_DESCR	26[A1]
CDR_DATA	119[CC]	REPORT_ADJ	308[CC]
CDR_DATA_WORK	120[A1]	<i>trans_tracking_id</i>	
CDR_FREE	128[CC]	HISTORIC_DISCOUNT_TRANS_MAP	
CDR_OUTCOLLECTS	127[A1]		237[CC]
CDR_UNBILLED	134[CC]	<i>trans_tracking_id_serv</i>	
CIBER_INCOLLECTS	136[A1]	HISTORIC_DISCOUNT_TRANS_MAP	
CIBER_INCOLLECTS_ERROR	141[A1]		237[CC]
PREPAYMENT	276[CC]	<i>trans_type</i>	
REPORT_BED	310[CC]	HISTORIC_DISCOUNT_TRANS_MAP	
<i>trans_flag</i>			237[CC]
CCARD_LIST	110[CC]		

<i>transact_date</i>		<i>trl_table</i>	
ADJ	47[CC]	JNL_FEED_TRAILER	22[A2]
NRC	261[CC]	<i>trl_type</i>	
NRC_VIEW	269[CC]	JNL_FEED_TRAILER	22[A2]
REPORT_ADJ	307[CC]	<i>tui_id</i>	
<i>transaction_date</i>		TAX_UNIV_ICB	345[CC]
CC_BALANCE	99[A1]	<i>type_code</i>	
<i>transaction_id</i>		BILL_FORMAT_DISPLAY_TYPES	
HISTORIC_DISCOUNT_TRANS_MAP	237[CC]		69[A1]
<i>transaction_id_serv</i>		BILL_INVOICE_DETAIL	73[CC]
HISTORIC_DISCOUNT_TRANS_MAP	237[CC]	REPORT_BILLED_REV	312[CC]
<i>transfer_tracking_id</i>		REPORT_DISCOUNT	318[CC]
CMF_BONUS_POINT	159[CC]	REPORT_INVOICE	323[CC]
<i>transfer_tracking_id_serv</i>		TCU_DET REP	346[CC]
CMF_BONUS_POINT	159[CC]	<i>type_group_nrc</i>	
<i>translate_field</i>		NRC_TYPE_GROUPS	97[A2]
RECORD_FIELD_DEF	208[A2]	PRODUCT_ELEMENTS	154[A2]
<i>translate_field_type</i>		<i>type_group_usg</i>	
RECORD_FIELD_DEF	208[A2]	PRODUCT_ELEMENTS	154[A2]
<i>translate_table</i>		USAGE_TYPE_GROUPS	343[A2]
RECORD_FIELD_DEF	208[A2]	<i>type_id_nrc</i>	
<i>treasury_date</i>		COMPONENT_NRCS	172[A1]
REFUND	305[CC]	LATE_FEE_TYPES	54[A2]
<i>treatment_ind</i>		NRC	261[CC]
CCARD_RESPONSE_CODE_REF	94[A1]	NRC_TRANS_DESCR	93[A2]
EFT_RESPONSE_CODE_REF	223[A1]	NRC_TYPE_GROUPS	97[A2]
<i>trigger_level</i>		NRC_VIEW	268[CC]
NRC_TRANS_DESCR	93[A2]	PACKAGE_NRCS	115[A2]
<i>trigger_status</i>		RATE_LATE_FEE	181[A2]
NRC_TRANS_DESCR	93[A2]	RATE_NRC	183[A2]
<i>trl_field</i>		XFER_NRC	347[A2]
JNL_FEED_TRAILER	22[A2]	<i>type_id_rc</i>	
<i>trl_field_description</i>		PRODUCT_ELEMENTS	154[A2]
JNL_FEED_TRAILER	23[A2]	RATE_RC	191[A2]
<i>trl_field_format</i>		<i>type_id_usg</i>	
JNL_FEED_TRAILER	22[A2]	CDR_DATA	117[CC]
<i>trl_field_size</i>		CDR_DATA_WORK	118[A1]
JNL_FEED_TRAILER	22[A2]	CDR_DUP_CHECK_FIELDS	124[A1]
<i>trl_field_trim</i>		CDR_FREE	127[CC]
JNL_FEED_TRAILER	23[A2]	CDR_OUTCOLLECTS	125[A1]
<i>trl_hardcoded</i>		CIBER_ARBOR_USAGE_TYPE_XREF	
JNL_FEED_TRAILER	22[A2]		134[A1]
<i>trl_position</i>		CIBER_INCOLLECTS	139[A1]
JNL_FEED_TRAILER	22[A2]	CIBER_INCOLLECTS_ERROR	144[A1]
<i>trl_table</i>		DISTANCE_BANDS	219[A1]
JNL_FEED_TRAILER	22[A2]	OUTCOLLECT_BATCH_DETAIL	102[A2]
		RATE_PERIODS	186[A2]

RATE_USAGE	195[A2]	<i>unit_cr_type</i>	
RATE_USAGE_OVERRIDES	201[A2]	UNIT_CREDIT_PROFILES	350[CC]
REPORT_BED	310[CC]	<i>unit_rate</i>	
TAP_MAPPING	274[A2]	PROCESS_WORK_RATE_SUCCESS_DEF	
UNIT_CR_RATE_LIMIT	316[A2]		144[A2]
UNIT_CR_RATE_LIMIT_KEYS	318[A2]	RATE_USAGE_BANDS	198[A2]
USAGE_JURISDICTION	323[A2]	RATE_USAGE_BANDS_OVERRIDES	
USAGE_TYPE_GROUPS	343[A2]		199[A2]
USAGE_TYPES	329[A2]	<i>units</i>	
USAGE_TYPES_FEATURES	339[A2]	BILL_INVOICE_DETAIL	80[CC]
USAGE_TYPES_UNITS	342[A2]	PRODUCT_RATE_KEY	289[CC]
<i>type_id_usg_in</i>		REPORT_BED	310[CC]
USAGE_TYPES_SPLIT	340[A2]	<i>units_credited</i>	
<i>type_id_usg_out</i>		CDR_BILLED	115[CC]
USAGE_TYPES_SPLIT	341[A2]	<i>units_currency_code</i>	
<i>type_of_charge</i>		CDR_DATA	119[CC]
TAX_CHARGE_ELEMENTS	278[A2]	CDR_DATA_WORK	120[A1]
U		CDR_FREE	129[CC]
<i>ui_format_tag</i>		CDR_OUTCOLLECTS	127[A1]
UI_CHARGE_DISPLAY_FORMAT	309[A2]	<i>units_free</i>	
<i>undesignated_amount</i>		RATE_UNIT_CR	194[A2]
PREPAYMENT	275[CC]	RATE_UNIT_CR_OVERRIDES	300[CC]
<i>unique_ext_name</i>		<i>units_indicator</i>	
EXT_CONTACTS	252[A1]	RATE_USAGE	196[A2]
<i>uniqueness_type</i>		RATE_USAGE_OVERRIDES	202[A2]
EXTERNAL_ID_TYPE_REF	246[A1]	USAGE_TYPES	333[A2]
<i>unit_cr_distrib</i>		<i>units_lower_limit</i>	
UNIT_CR_DEFINITIONS	313[A2]	RATE_RC	191[A2]
<i>unit_cr_domain</i>		<i>units_rate</i>	
UNIT_CR_DEFINITIONS	314[A2]	RATE_RC	192[A2]
<i>unit_cr_id</i>		<i>units_type</i>	
CDR_BILLED	115[CC]	CDR_DATA_DUC	124[CC]
CONTRACT_UNIT_CR	181[CC]	PRODUCT_RATE_KEY	289[CC]
RATE_UNIT_CR	194[A2]	RATE_RC	191[A2]
RATE_UNIT_CR_OVERRIDES	299[CC]	UNITS_TYPE_REF	310[A2]
UNIT_CR_DEFINITIONS	313[A2]	UNITS_TYPE_VALUES	311[A2]
UNIT_CR_PLANS	315[A2]	<i>units_upper_limit</i>	
UNIT_CR_RESTRICTIONS	320[A2]	RATE_RC	192[A2]
UNIT_CREDIT_PROFILES	350[CC]	<i>units_value</i>	
<i>unit_cr_level</i>		CDR_DATA_DUC	124[CC]
UNIT_CR_DEFINITIONS	313[A2]	<i>unix_tz</i>	
<i>unit_cr_quantum</i>		TIMEZONE_REF	304[A2]
UNIT_CR_DEFINITIONS	314[A2]	<i>unrounded_amount</i>	
UNIT_CREDIT_PROFILES	350[CC]	CDR_DATA	121[CC]
		CDR_DATA_WORK	122[A1]
		CDR_FREE	130[CC]
		CDR_OUTCOLLECTS	128[A1]

<i>up_since_dt</i>	28[CC]	<i>usage_units</i>	242[CC]
SERVER_DEFINITION		JNL_DETAIL	249[CC]
<i>update_dt</i>	226[CC]	JNL_TRANS	
ETUC_UPDATES			
<i>update_frequency</i>	223[A2]	<i>use_address_server</i>	298[A1]
REPLICATION_TABLES		INDUSTRY_TYPE_REF	
<i>update_id</i>	226[CC]		
ETUC_UPDATES		UNIT_CR_RATE_LIMIT_KEYS	318[A2]
<i>update_type</i>	226[CC]	USAGE_TYPES	334[A2]
ETUC_UPDATES			
<i>upper_limit</i>	167[A2]	<i>use_by</i>	
RATE_AGGR_USAGE		BONUS_POINT_ID_REF	86[A1]
<i>usage_audit_table</i>	161[A2]	<i>use_by_date</i>	
PRODUCT_LINES		BONUS_POINT_ID_REF	87[A1]
<i>usage_audit_view</i>	161[A2]	<i>use_by_units</i>	
PRODUCT_LINES		BONUS_POINT_ID_REF	86[A1]
<i>usage_bad_table</i>	161[A2]	<i>use_class_of_service_code</i>	
PRODUCT_LINES		USAGE_TYPES	335[A2]
<i>usage_data_table</i>	161[A2]	<i>use_code</i>	
PRODUCT_LINES		JNL_DETAIL	241[CC]
<i>usage_desc</i>	304[A1]	JNL_KEYS	28[A2]
IO_DEVICES		JNL_KEYS_DEFAULT	34[A2]
<i>usage_file_seqnum</i>	102[A1]	JNL_TRANS	249[CC]
CDR_CHECK_SUM_1		<i>use_component_id</i>	
CDR_CHECK_SUM_10		UNIT_CR_RATE_LIMIT_KEYS	318[A2]
CDR_CHECK_SUM_11		USAGE_TYPES	337[A2]
CDR_CHECK_SUM_12		<i>use_default_rate_type</i>	
CDR_CHECK_SUM_2		USAGE_TYPES	336[A2]
CDR_CHECK_SUM_3		<i>use_distance_band_id</i>	
CDR_CHECK_SUM_4		USAGE_TYPES	335[A2]
CDR_CHECK_SUM_5		<i>use_element_id</i>	
CDR_CHECK_SUM_6		USAGE_TYPES	335[A2]
CDR_CHECK_SUM_7		<i>use_equip_class_code</i>	
CDR_CHECK_SUM_8		USAGE_TYPES	335[A2]
CDR_CHECK_SUM_9		<i>use_equip_type_code</i>	
<i>usage_free_table</i>	110[A1]	USAGE_TYPES	335[A2]
PRODUCT_LINES		<i>use_equipment_class_code</i>	
<i>usage_items</i>	111[A1]	UNIT_CR_RATE_LIMIT_KEYS	318[A2]
JNL_DETAIL		<i>use_errored</i>	
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