

# Oracle® Field Service Technical Reference Manual

**RELEASE 11*i***

**August 2000**



Oracle® Field Service Technical Reference Manual  
Release 11i

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# Introduction

**T**he *Oracle Field Service Technical Reference Manual* provides the information you need to understand the underlying structure of Oracle Field Service. After reading this manual, you should be able to convert your existing applications data, integrate your existing applications with Oracle Field Service, and write custom reports for Oracle Field Service, as well as read data that you need to perform other tasks.

This chapter introduces you to the *Oracle Field Service Technical Reference Manual*, and explains how to use it.

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# Introduction

At Oracle, we design and build applications using Oracle Designer, our systems design technology that provides a complete environment to support developers through all stages of a systems life cycle. Because we use a repository-based design toolset, all the information regarding the underlying structure and processing of our applications is available to us online. Using Oracle Designer, we can present this information to you in the form of a technical reference manual.

This *Oracle Field Service Technical Reference Manual* contains detailed, up-to-date information about the underlying structure of Oracle Field Service. As we design and build new releases of Oracle Field Service, we update our Oracle Designer repository to reflect our enhancements. As a result, we can always provide you with an *Oracle Field Service Technical Reference Manual* that contains the latest technical information as of the publication date. Note that after the publication date we may have added new indexes to Oracle Field Service to improve performance.

## About this Manual

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This manual describes the Oracle Customer Relationship Management (CRM) Applications Release 11i data model, as used by Oracle Field Service; it discusses the database we include with a fresh install of Oracle CRM Release 11i. If you have not yet upgraded to Release 11i, your database may differ from the database we document in this book.

You can contact your Oracle representative to confirm that you have the latest technical information for Oracle Field Service. You can also use *OracleMetaLink* which is accessible through Oracle's Support Web Center ([http://www.oracle.com/support/elec\\_sup](http://www.oracle.com/support/elec_sup)).

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## Finding the Latest Information

The *Oracle Field Service Technical Reference Manual* contains the latest information as of the publication date. For the latest information we encourage you to use *OracleMetaLink* which is accessible through Oracle's Support Web Center ([http://www.oracle.com/support/elec\\_sup](http://www.oracle.com/support/elec_sup)).



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## Audience

The *Oracle Field Service Technical Reference Manual* provides useful guidance and assistance to:

- Technical End Users
- Consultants
- Systems Analysts
- System Administrators
- Other MIS professionals

This manual assumes that you have a basic understanding of structured analysis and design, and of relational databases. It also assumes that you are familiar with Oracle Application Object Library and Oracle Field Service. If you are not familiar with the above products, we suggest that you attend one or more of the training classes available through Oracle Education (see: Other Information Sources: page 1 – 7).

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## How This Manual is Organized

This manual contains two major sections, High-Level Design and Detailed Design.

### High-Level Design

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This section, Chapter 2, contains database diagrams and lists each database table and view that Oracle Field Service uses. This chapter also has a list of modules.

### Detailed Design

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This section, Chapter 3, contains a detailed description of the Oracle Field Service database design, including information about each database table and view you might need for your custom reporting or other data requirements.

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## How to Use This Manual

The *Oracle Field Service Technical Reference Manual* is a single, centralized source for all the information you need to know about the underlying structure and processing of Oracle Field Service. For example, you can use this manual when you need to:

- Convert existing application data
- Integrate your Oracle Field Service application with your other applications systems
- Write custom reports
- Define alerts against Oracle Applications tables
- Configure your Oracle Self-Service Web Applications
- Create views for decision support queries using query tools
- Create business views for Oracle Discoverer

You need not read this manual cover to cover. Use the table of contents and index to quickly locate the information you need.

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## How Not To Use This Manual

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### **Do not use this manual to plan modifications**

You should not use this manual to plan modifications to Oracle Field Service. Modifying Oracle Field Service limits your ability to upgrade to future releases of your Oracle Field Service application. In addition, it interferes with our ability to give you the high-quality support you deserve.

We have constructed Oracle Field Service so that you can customize it to fit your needs without programming, and you can integrate it with your existing applications through interface tables. However, should you require program modifications, you should contact our support team (see: Other Information Sources: page 1 – 7). They can put you in touch with Oracle Services, the professional consulting organization of Oracle. Their team of experienced applications professionals can make the modifications you need while ensuring upward compatibility with future product releases.

### **Do not write data into non-interface tables**

---

Oracle reserves the right to change the structure of Oracle Applications tables, and to change the meaning of, add, or delete lookup codes and data in future releases. Do not write data directly into or change data in non-interface tables using SQL\*Plus or other programming tools because you risk corrupting your database and interfering with our ability to support you.

Moreover, this version of the *Oracle Field Service Technical Reference Manual* does not contain complete information about the dependencies between Oracle Field Service applications tables. Therefore, you should write data into only those tables we identify as interface tables. If you write data into other non-interface tables, you risk violating your data integrity since you might not fulfill all the data dependencies in your Oracle Field Service application.

You are responsible for the support and upgrade of the logic within the procedures that you write, which may be affected by changes between releases of Oracle Applications.

### **Do not rely on upward compatibility of the data model**

---

Oracle reserves the right to change the structure of Oracle Field Service tables, and to change the meaning of, add, or delete lookup codes and other data in future releases. We do not guarantee the upward compatibility of the Oracle Field Service data model. For example, if you write a report that identifies concurrent requests that end in Error status by selecting directly from Oracle Application Object Library tables, we do not guarantee that your report will work properly after an upgrade.

---

## **About Oracle Application Object Library**

Oracle Application Object Library is a collection of pre-built application components and facilities for building Oracle Applications and extensions to Oracle Applications. Oracle Application Coding Standards use the Oracle Application Object Library and contains shared components including but not limited to — forms, subroutines, concurrent programs and reports, database tables and objects, messages, menus, responsibilities, flexfield definitions and online help.



**Attention:** Oracle does not support *any* customization of Oracle Application Object Library tables or modules, not even

by Oracle consultants. (Oracle Application Object Library tables generally have names beginning with FND\_%.)

Accordingly, this manual does not contain detailed information about most Oracle Application Object Library tables used by Oracle Field Service.

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## A Few Words About Terminology

The following list provides you with definitions for terms that we use throughout this manual:

### **Relationship**

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A relationship describes any significant way in which two tables may be associated. For example, rows in the Journal Headers table may have a one-to-many relationship with rows in the Journal Lines table.

### **Database Diagram**

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A database diagram is a graphic representation of application tables and the relationships between them.

### **Module**

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A module is a program or procedure that implements one or more business functions, or parts of a business function, within an application. Modules include forms, concurrent programs and reports, and subroutines.

### **Application Building Block**

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An application building block is a set of tables and modules (forms, reports, and concurrent programs) that implement closely-related database objects and their associated processing. Said another way, an application building block is a logical unit of an application.

### **QuickCodes**

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QuickCodes let you define general purpose, static lists of values for window fields. QuickCodes allow you to base your program logic on lookup codes while displaying user-friendly names in a list of values window. QuickCodes simplify name and language changes by letting

you change the names your end users see, while the codes in your underlying programs remain the same.

### **Form**

---

A form is a module comprised of closely related windows that are used together to perform a task. For example, the Enter Journals form in Oracle General Ledger includes the Enter Journals window, the Batch window, and the More Actions window among others. The Enter Journals window is the main window, and from it, you can use buttons to navigate to other windows in the form. The form name usually corresponds to the main window in the form, and is frequently a window you open directly from the Navigator.

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## **Other Information Sources**

### **Installation and System Administration**

#### **Training**

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Oracle Education offers a complete set of training courses to help you and your staff master Oracle CRM Applications. We can help you develop a training plan that provides thorough training for both your project team and your end users. We will work with you to organize courses appropriate to your job or area of responsibility.

Training professionals can show you how to plan your training throughout the implementation process so that the right amount of information is delivered to key people when they need it the most. You can attend courses at any one of our many Educational Centers, or you can arrange for our trainers to teach at your facility. In addition, we can tailor standard courses or develop custom courses to meet your needs.

#### **Support**

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From on-site support to central support, our team of experienced professionals provides the help and information you need to keep Oracle Field Service working for you. This team includes your Technical Representative, Account Manager, and Oracle's large staff of consultants and support specialists with expertise in your business

area, managing an Oracle server, and your hardware and software environment.

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## About Oracle

Oracle Corporation develops and markets an integrated line of software products for database management, applications development, decision support, and office automation, as well as Oracle Applications, an integrated suite of more than 75 software modules for financial management, supply chain management, manufacturing, project systems, human resources, and sales and service management.

Oracle products are available for mainframes, minicomputers, personal computers, network computers, and personal digital assistants, allowing organizations to integrate different computers, different operating systems, different networks, and even different database management systems, into a single, unified computing and information resource.

Oracle is the world's leading supplier of software for information management, and the world's second largest software company. Oracle offers its database, tools, and applications products, along with related consulting, education, and support services, in over 145 countries around the world.

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## Thank You

Thanks for using Oracle Field Service and this technical reference manual!

We appreciate your comments and feedback. After the Table of Contents of this manual is a Reader's Comment Form that you can use to explain what you like or dislike about Oracle Field Service or this technical reference manual. Mail your comments to the following address or call us directly at (650) 506-7000.

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# High-Level Design

**T**his chapter presents a high-level design for Oracle Field Service that satisfies the business needs we specify during Strategy and Analysis. It contains database diagrams for Oracle Field Service application building blocks, lists of database tables and views, and a list of modules.

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## Overview of High-Level Design

During High-Level Design, we define the application components (tables, views, and modules) we need to build our application. We specify what application components should do without specifying the details of *how* they should do it.

You can refer to this High-Level Design chapter to quickly acquaint yourself with the tables, views, and modules that comprise Oracle Field Service applications. And, you can prepare yourself to understand the detailed design and implementation of Oracle Field Service.

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## Database Diagrams

The Database Diagrams section graphically represents all Oracle Field Service applications tables and the relationships between them, organized by building block.

Use this section to quickly learn what tables each Oracle Field Service application building block uses, and how those tables interrelate. Then, you can refer to the Table and View Definitions sections of Chapter 3 for more detailed information about each of those tables.

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## Table Lists

The Table List sections list the Oracle Field Service applications tables. Because a product might not include at least one table for each type, this Technical Reference Manual might not include each of the following sections.

### Public Tables

---

Use the Public Table List section to quickly identify the tables you are most interested in. Then, you can refer to the Table and View Definitions sections of Chapter 3 for more detailed information about those tables.

In addition, this manual may contain full documentation for one or more of the following Application Object Library tables: FND\_DUAL, FND\_CURRENCIES, and FND\_COMMON\_LOOKUPS.

## **Internal Tables**

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This section includes a list of private, internal tables used by Oracle Field Service; we do not provide additional documentation for these tables.

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## **View Lists**

The View List sections list the Oracle Field Service views, with one section for each type of view. Because a product might not include at least one view for each type, this Technical Reference Manual might not include each of the following sections.

Use this section to quickly identify the views you are most interested in. Then, you can refer to the Table and View Definitions sections of Chapter 3 for more detailed information about those views.

### **Public Views**

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This section lists views that may be useful for your custom reporting or other data requirements. The list includes a description of the view, and the page in Chapter 3 that gives detailed information about the public view.

### **Web Views**

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This section lists views that you may need to configure your Self-Service Web applications. The list includes a description of the view, and the page in Chapter 3 that gives detailed information about the web view.

### **Internal Views**

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This section includes each private, internal view that Oracle Field Service uses.

### **Multiple Reporting Currency Views**

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This list includes views that were created to support the Multiple Reporting Currencies feature.

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## Module List

The Module List section briefly describes each of the Oracle Field Service applications modules. This section lists forms, reports, and concurrent programs.

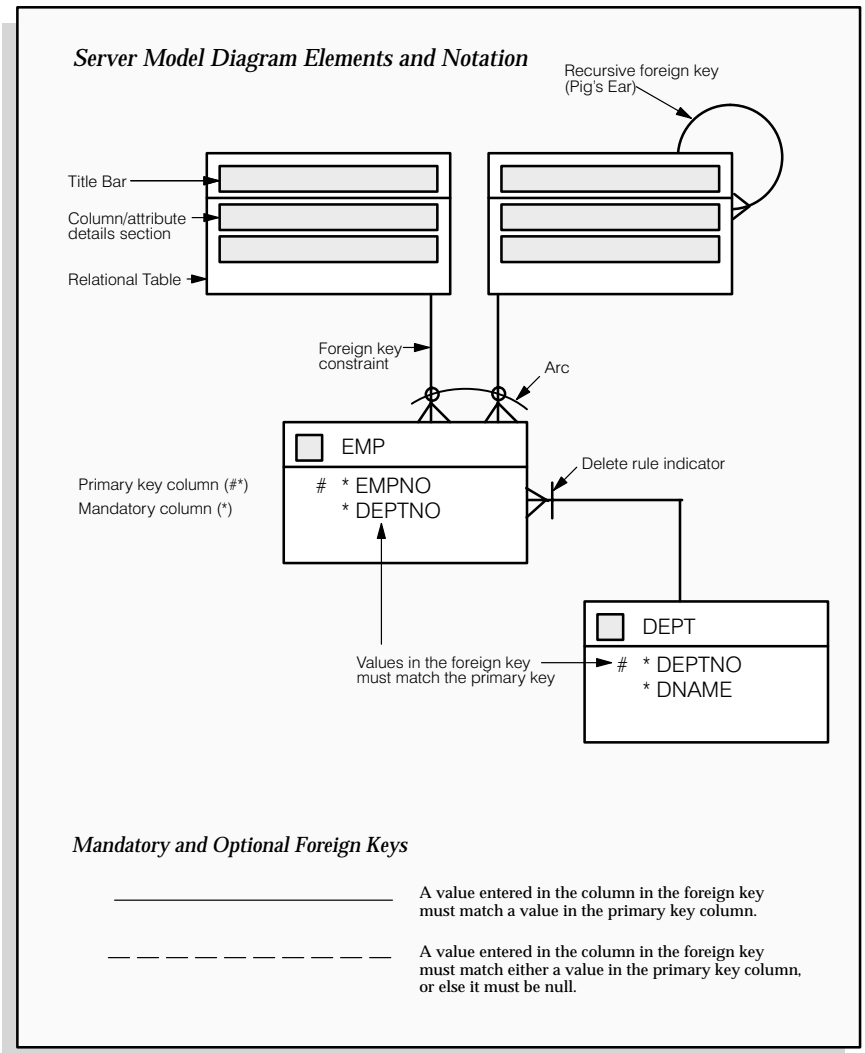
A form is a module comprised of closely related windows that are used together to perform a task. For example, the Enter Journals form in Oracle General Ledger includes the Enter Journals window, the Batch window, and the More Actions window. The Enter Journals window is the main window, and from it, you can use buttons to navigate to other windows in the form. The form name usually corresponds to the main window in the form, and is frequently a window you can open directly from the Navigator.

The Reports and Concurrent Programs lists include processes you can submit from the Submit Requests window or other windows, as well as processes that are submitted automatically by Oracle Field Service. Use your user's guide to learn more about reports and concurrent processes.

## Database Diagramming Conventions

We use the following notational conventions in our database diagrams:

**Figure 2 – 1**  
**Database Diagram**  
**Conventions**



**Tables** – are the basic unit of storage in the database. A hand symbol preceding the title in the table's title bar indicates that the table is not owned by this application but shared with another.

**Foreign key constraint** – is a type of referential integrity constraint for checking the integrity of data entered in a specific column or set of columns. This specified column or set of columns is known as the foreign key.

**Delete rule indicator** – determines the action to be taken when an attempt is made to delete a related row in a join table. A line through the foreign key constraint, as shown on the above diagram, indicates that this action is restricted.

**Arcs** – specify that, for any given row in a table, a value must be entered in one of the arc columns. The remaining columns within the arc must be null.

\_\_\_\_\_

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## Database Diagrams

This section graphically represents most of the significant Oracle Field Service tables and the relationships between them, organized by building block. Use this section to quickly learn what tables each Oracle Field Service application building block uses, and how these tables interrelate. Then, you can refer to the Table and View Definitions sections of Chapter 3 for more detailed information about each of those tables.

This section contains a database diagram for each of the following Oracle Field Service application building blocks:

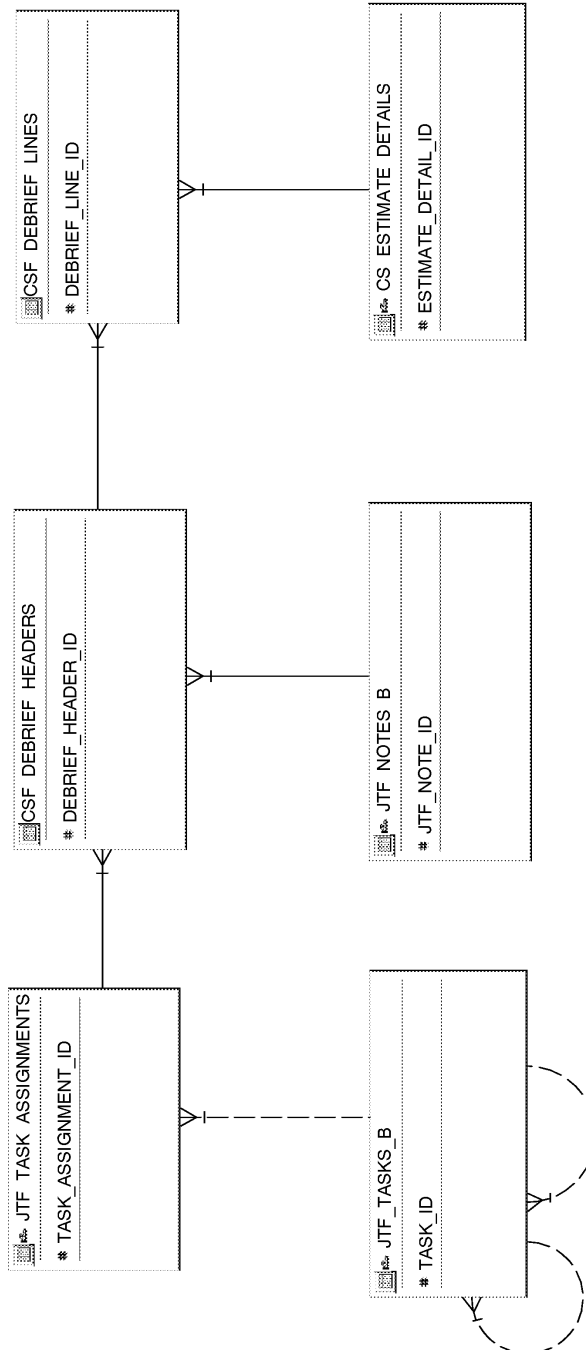
- Diagram 1: DBF Field Service Report
- Diagram 2: FSR Field Service Report
- Diagram 3: Map Display
- Diagram 4: Planner Groups
- Diagram 5: TDs
- Diagram 6: Location Finder

Some tables, especially important reference tables, appear in more than one database diagram. When several building blocks use a table, we show that table in each appropriate database diagram.

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### DBF Field Service Report

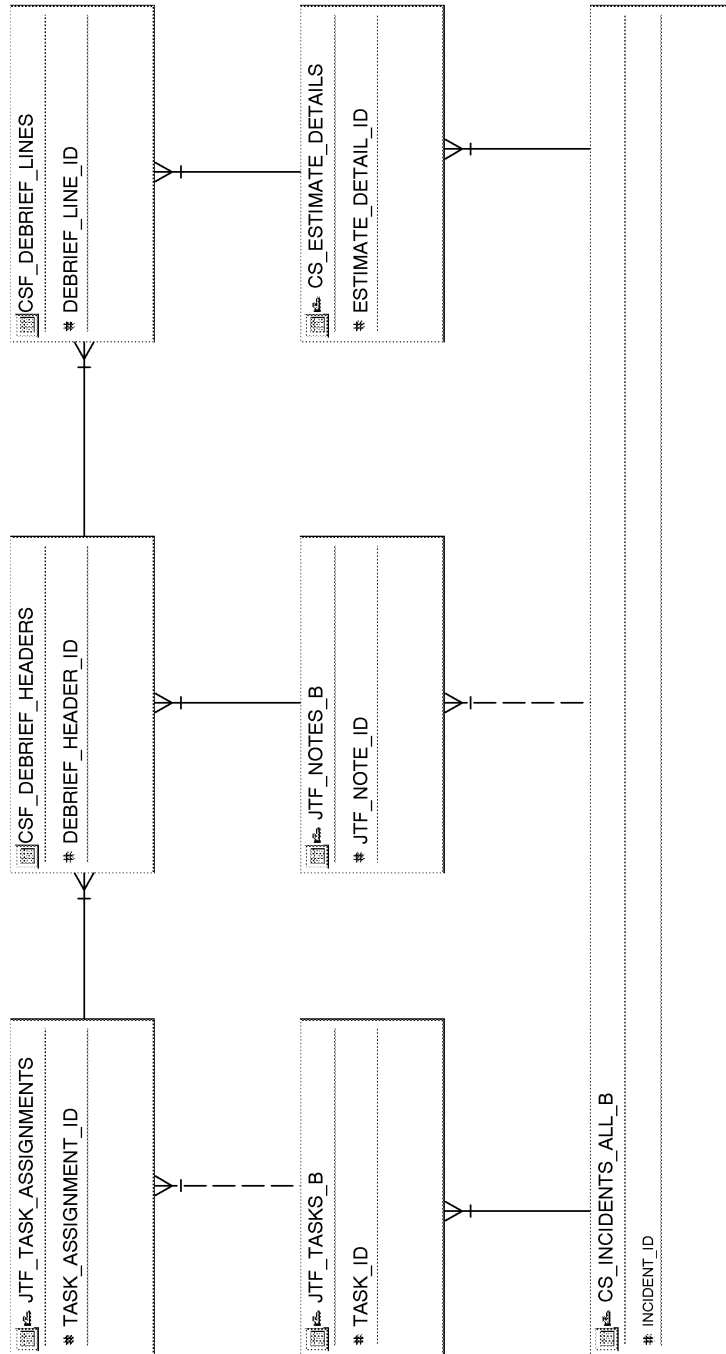




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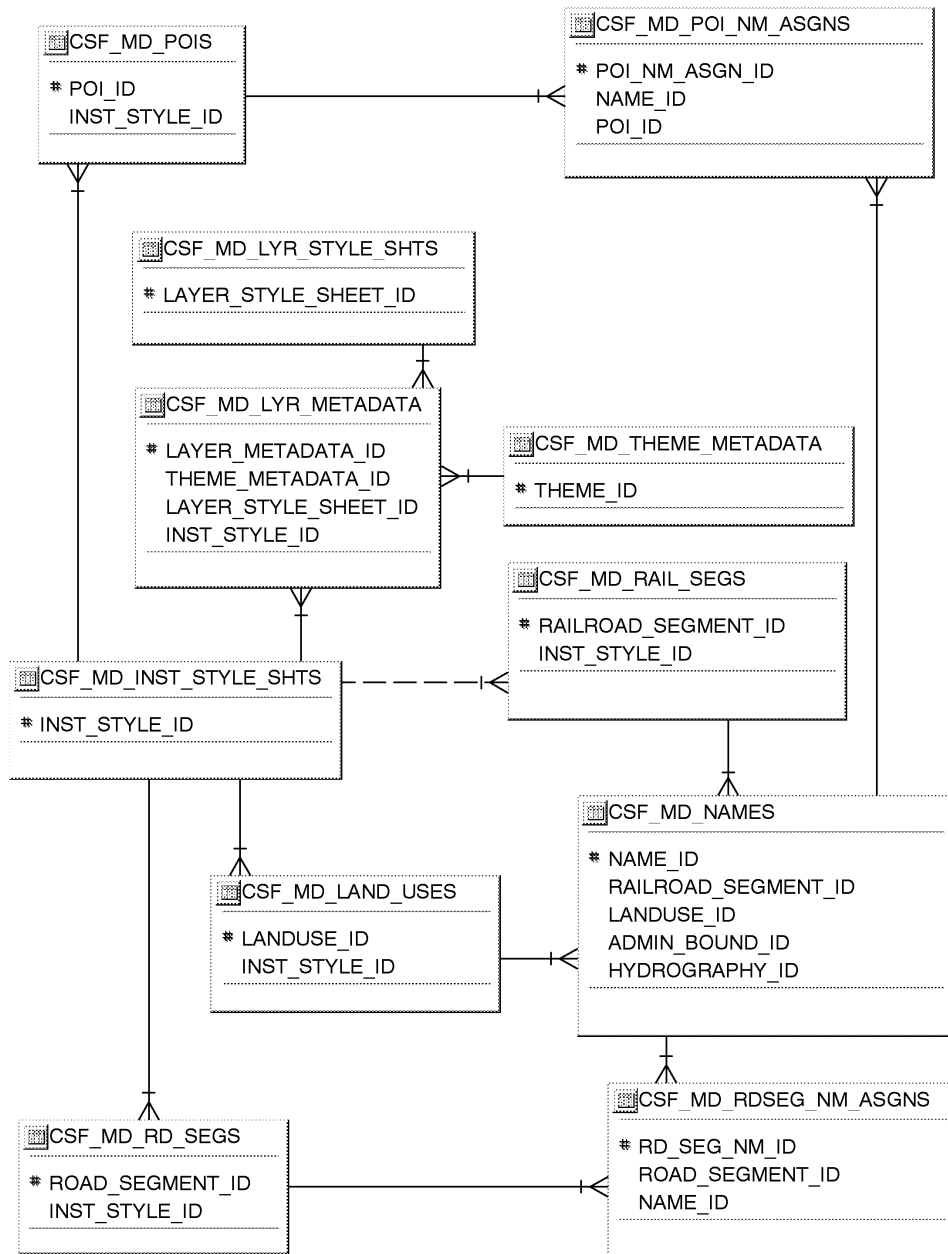
## FSR Field Service Report

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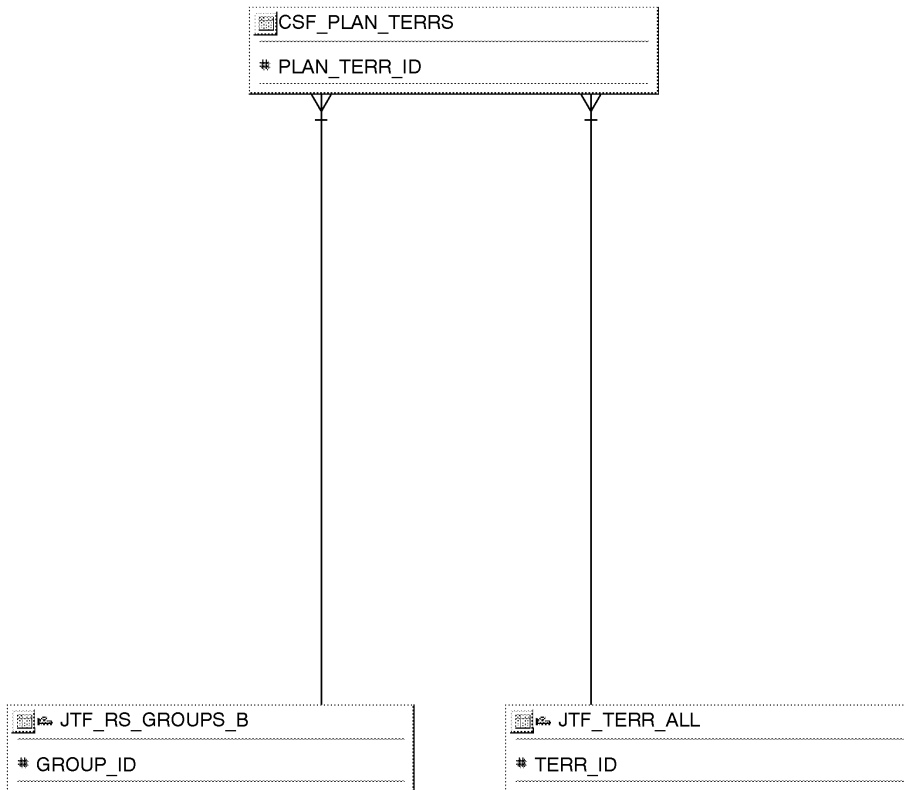
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## Map Display



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## Planner Groups



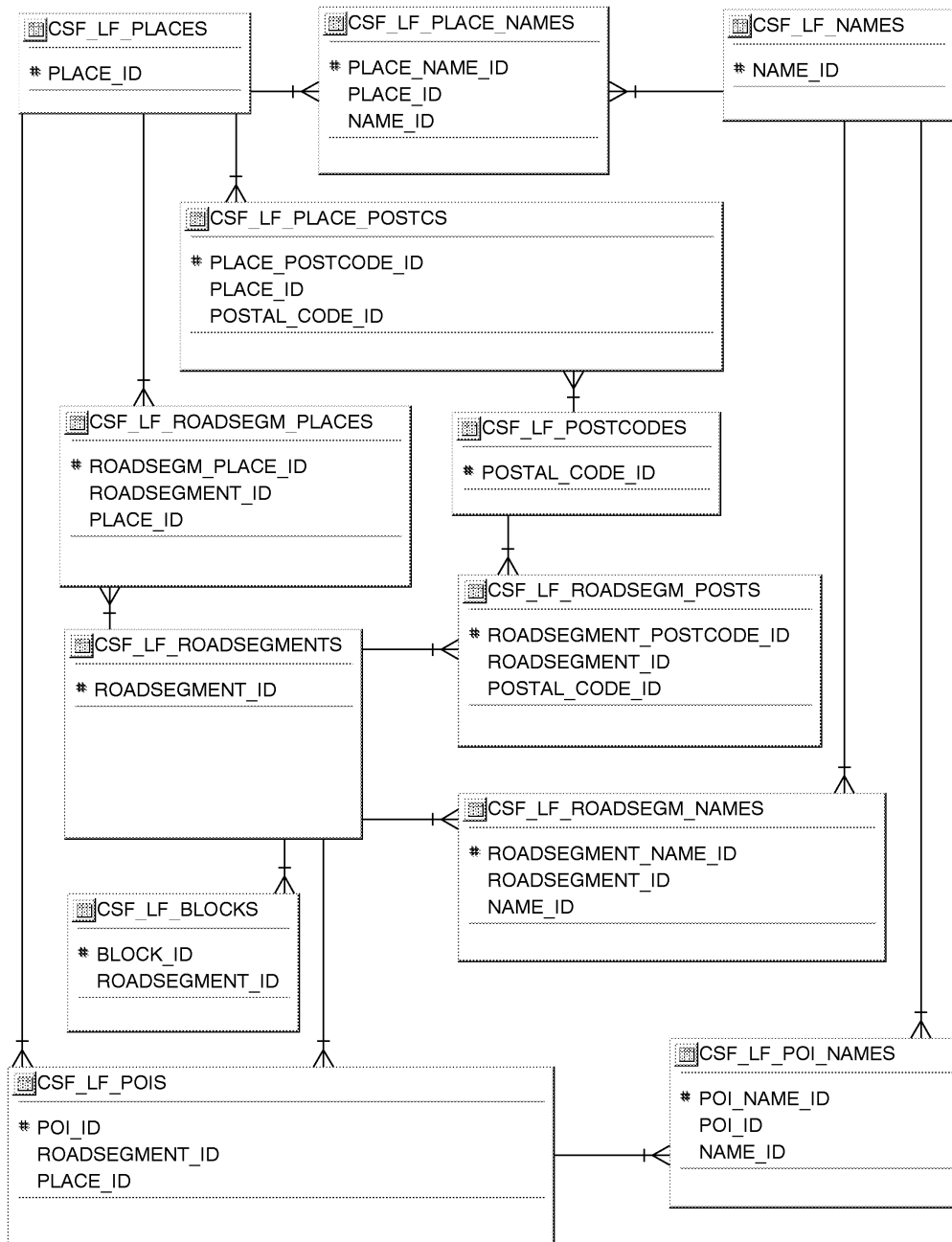






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## Location Finder



# Public Table List

This section lists each public database table that Field Service uses and provides a brief description of each of those tables. The page reference is to the table description in Chapter 3.

Note that "public" tables are not necessarily intended for write access by custom code; Oracle Corporation supports write access using only standard Oracle Applications forms, reports, and programs, or any SQL write access to tables explicitly documented as API tables. For more information, see the How Not To Use This Manual section of this book's Introduction.

Field Service uses the following Public tables:

| Table Name            | Description   |
|-----------------------|---|
| CSF_DEBRIEF_HEADERS   | Field Service Report header information (See page 3 – 7)  |
| CSF_DEBRIEF_LINES     | Field Service Report lines information (See page 3 – 9)   |
| CSF_LF_BLOCKS         | Defines the available address range for a segment (See page 3 – 11)                                     |
| CSF_LF_NAMES          | Stores all Name information for the Location Finder (See page 3 – 12)                                   |
| CSF_LF_PLACES         | Contains all Administrative areas and Zones (See page 3 – 13)   |
| CSF_LF_PLACE_NAMES    | Defines relation between Place and Name (See page 3 – 14)   |
| CSF_LF_PLACE_POSTCS   | Defines relation between Place and Postcode tables (See page 3 – 15)                                    |
| CSF_LF_POIS           | Stores POI (points of interests) in the roadnetwork that are known by the name for LF (See page 3 – 16) |
| CSF_LF_POI_NAMES      | Defines the relation between POI and Name tables (See page 3 – 17)                                      |
| CSF_LF_POSTCODES      | Stores the Postcode information and the centroid of each Postcode area (See page 3 – 18)                |
| CSF_LF_ROADSEGMENTS   | Stores roadsegments with their navigable attributes (See page 3 – 19)                                   |
| CSF_LF_ROADSEGM_NAMES | Defines the relation between roadsegments and the name table (See page 3 – 20)                          |

|                        |  |
|------------------------|--|
| CSF_LF_ROADSEGM_PLACES | Defines relation between Roadsegments and Places (See page 3 – 21)                                 |
| CSF_LF_ROADSEGM_POSTS  | Defines relation between Roadsegment and Postcodes (See page 3 – 22)                               |
| CSF_L_AGENDALAYOUTS    | Agenda Layout on the Laptop (See page 3 – 23)  |
| CSF_L_QUERIES          | List of Queries (See page 3 – 24)  |
| CSF_L_QUERYREQUESTS    | Requests for executing Queries (See page 3 – 25)   |
| CSF_L_SODS             | Service Order Description (See page 3 – 26)  |
| CSF_L_SOTS             | Service Order Types (See page 3 – 27)  |
| CSF_MD_ADM_BOUNDS      | Defines an administrative boundary defined in a country. (See page 3 – 28)                         |
| CSF_MD_HYDROS          | Defines a hydrographic feature. (See page 3 – 29)  |
| CSF_MD_INST_STYLE_SHTS | Defines map instance style sheets (See page 3 – 30)  |
| CSF_MD_LAND_USES       | Defines the geometry of various land usages (See page 3 – 31)                                      |
| CSF_MD_LYR_METADATA    | Defines map display layer metadata (See page 3 – 32)   |
| CSF_MD_LYR_STYLE_SHTS  | Defines the visual display characteristics of a map layer (See page 3 – 33)                        |
| CSF_MD_NAMES           | Defines the name of the given geographic entities in the model. (See page 3 – 34)                  |
| CSF_MD_POIS            | This table defines POI (point of interest) for Map Display (See page 3 – 36)                       |
| CSF_MD_POI_NM_ASGNS    | Defines the relationship between the MD NAME and the MD NAMES and MD POI tables. (See page 3 – 37) |
| CSF_MD_RAIL_SEGS       | Defines an individual line segment representing a railroad. (See page 3 – 38)                      |
| CSF_MD_RDSEG_NM_ASGNS  | Defines the relation between the road segments and names table. (See page 3 – 39)                  |
| CSF_MD_RD_SEGS         | Defines a navigable feature. (See page 3 – 40)   |
| CSF_MD_THEME_METADATA  | Defines the version information of an entire theme. (See page 3 – 43)                              |

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|                       |   |
|-----------------------|---|
| CSF_PARAMS            | Parameters for Laptop and Palm (See page 3 – 44)  |
| CSF_PLAN_TERRS        | Associative (relationship) table to map between the territory and resource group tables (See page 3 – 45)   |
| CSF_SDM_CTRY_PROFILES | Defines country profiles (See page 3 – 46)  |
| CSF_TDS_BINARY_MAPS   | Defines the digital roadmap for route calculation. (See page 3 – 47)  |
| CSF_TDS_BINARY_TILES  | Defines a spatial index to a digital map. (See page 3 – 48)   |
| CSF_TDS_CONDITIONS    | This table stores the conditions for the TDS. (See page 3 – 49)   |
| CSF_TDS_COND_SEGS     | Intersection table for condition and segments (See page 3 – 51)   |
| CSF_TDS_INTERVALS     | The intervals table (See page 3 – 52)   |
| CSF_TDS_NODES         | The nodes table (See page 3 – 54)   |
| CSF_TDS_RDBLCK_INTVLs | Intersection table for Roadblocks and intervals (See page 3 – 55)   |
| CSF_TDS_RDBLCK_SGMNTS | The relation between RoadBlocks and Segments (See page 3 – 56)  |
| CSF_TDS_ROADBLOCKS    | Defines a travel duration delay for a segment. (See page 3 – 57)  |
| CSF_TDS_SEGMENTS      | Defines a connection between two nodes. (See page 3 – 58)   |
| CSF_TDS_SEGM_NODES    | Defines the relation between the segments and the nodes table (See page 3 – 61)   |
| CSF_TDS_TILES         | Defines the result of spatial index creation (tiling). (See page 3 – 62)  |
| CS_ESTIMATE_DETAILS   | Items Required for service Billing (See page 3 – 63)  |
| CS_INCIDENTS_ALL_B    | This table stores non-translated information about service requests. (See page 3 – 70)  |
| JTF_IH_INTERACTIONS   | A contact point between a customer, customer system or potential customer and a single human or automated agent (Handler and Handler Resource). An Interaction can be timed and has an outcome and result that can be tracked. MultipleIntera (See page 3 – 75) |

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|                       |   |
|-----------------------|---|
| JTF_NOTES_B           | Non-translated base table for Notes module. (See page 3 – 78)   |
| JTF_RS_GROUPS_B       | Base Table JTF_RS_GROUPS_B stores general information about a given Group. (See page 3 – 80)  |
| JTF_RS_RESOURCE_EXTNS | This is table stores all important information about Resources. These Resources are coming from HR or HZ or Vonder table etc. Primary key is resource_id. Resource_number, user_id sre also unique keys. (See page 3 – 82)  |
| JTF_TASKS_B           | Base Table JTF_TASKS_B stores general information about a given Task. (See page 3 – 85)   |
| JTF_TASK_ASSIGNMENTS  | JTF_TASK_ASSIGNMENTS stores information about the resource assignments associated with the task. (See page 3 – 88)  |
| JTF_TERR_ALL          | Stores the definition of the territories. There are 3 categories of territories, Standard, Escalation and Template. Information stored in this table also includes comment about this territory, effective dates, and what type of territory it is. (See page 3 – 90) |

# Public View List

This section lists each public database view that Oracle Field Service uses and provides a brief description of each of those views. These views may be useful for your custom reporting or other data requirements. The page reference is to the detailed view description in Chapter 3.

Oracle Field Service uses the following public views:

| View Name               | Description                                      |
|-------------------------|--|
| CSF_DEBRIEF_EXP_LINES_V | Field Service Report Expense lines information   |
| CSF_DEBRIEF_HEADERS_V   | Field Service Report Headers summary information |
| CSF_DEBRIEF_LAB_LINES_V | Field Service Report Labor line information      |
| CSF_DEBRIEF_MAT_LINES_V | Field service Report Material Lines information  |



---

## Forms and Table View List

This section lists supplementary views that are not essential to the Release 11i data model, but simplify coding or improve performance of Developer. For example, many of these views are used as base tables in Oracle Field Service forms.



**Warning:** We do not recommend you query or alter data using these views. Furthermore, these views may change dramatically in subsequent minor or major releases of Oracle Field Service.

Oracle Field Service uses the following Forms and Table views:

- CSF\_CT\_TASKS
- CSF\_CT\_TASK\_ASSIGNMENTS
- CSF\_L\_SODS\_V
- CSF\_PLAN\_TERRS\_V
- CSF\_RES\_INV\_ASSIGNMENTS\_V

---

## Internal View List

This section lists each private, internal view that Oracle Field Service uses.



**Warning:** Oracle Corporation does not support access to Oracle Applications data using these views, except from standard Oracle Applications forms, reports, and programs.

Oracle Field Service uses the following internal views:

- CSF\_SELECTED\_RESOURCES\_V

---

## Module List

This section lists each form, report and concurrent program comprising Field Service.

---

### Forms

|          |   |
|----------|---|
| CSFCMLAY | Define Agenda Layout                                    |
| CSFCMPAR | Define Configuration Parameters                         |
| CSFCMQRY | Define User Defined Queries                             |
| CSFCMRSL | Define Resource Subinventories Assignment               |
| CSFCMWFM | Define Field Service Report Management                  |
| CSFCMWFT | Define Field Service Report Types                       |
| CSFCTDBR | Commit schedule   |
| CSFCTFOG | Control Tower common objects – referenced form only     |
| CSFCTGNT | Control Tower tabpage Gantt – referenced form only      |
| CSFCTMAI | Field Service Control Tower                             |
| CSFCTMAP | Control Tower tabpage Map – referenced form only        |
| CSFCTPLB | Control Tower tabpage Planboard – referenced form only  |
| CSFCTSPA | Control Tower tabpage Spares – referenced form only     |
| CSFCTSTA | Control Tower tabpage Statistics – referenced form only |
| CSFCTTKS | Control Tower task block – referenced form only         |
| CSFSEPLT | Setup Resource Groups / Territories                     |
| CSFTESEL | Select territories                                      |

---

### Concurrent Programs

|                     |  |
|---------------------|--|
| CSF_SHIFT_TASKS_PVT | Creates departure/arrival tasks for resources on basis of shifts |
|---------------------|--|



CHAPTER

# 3

## Detailed Design

**T**his chapter presents a detailed design for implementing Oracle Field Service. It contains detailed definitions of tables and views that you may need to reference to write custom reports or use for other data extraction.

---

## Overview of Detailed Design

During Detailed Design, we specify in detail how each applications component should work. We prepare detailed definitions of tables and views.

You can refer to this Detailed Design chapter to gain a detailed understanding of the underlying structure and processing of Oracle Field Service that enables you to:

- Convert existing application data
- Integrate your Oracle Field Service application with your other applications systems
- Write custom reports
- Define alerts against Oracle Applications tables
- Create views for decision support queries using query tools

---

## Table and View Definitions

The Table and View Definitions section contains a detailed definition of Oracle Field Service applications tables. For each table, it provides information about primary keys, foreign keys, QuickCodes, indexes, triggers, and sequences. It also gives you a detailed description of each column and its characteristics. In addition, it provides the SQL statement that defines each view. Review this section to get a detailed understanding of what tables your Oracle Field Service application contains, and how it uses them to hold and access the information it needs.

---

## Table and View Definitions

This section contains a detailed description of each Oracle Field Service table and view that you may need to reference. For each table, it presents detailed information about:

- Primary keys
- Foreign keys
- Column descriptions
- Indexes
- Oracle sequences
- Triggers
- View derivations

The following sections appear in each table or view description:

---

### Foreign Keys

To help you understand the relationships between tables, we list each foreign key contained in a table. For each foreign key in a table, we list the primary key table name (the table to which a foreign key refers), its corresponding primary key columns, and the foreign key columns that refer to those primary key columns.

When the primary key table has a composite primary key, we list each column of the composite key sequentially.

If a table contains two or more distinct foreign keys that refer to the same primary key table, we repeat the primary key table name and list each of the distinct foreign keys separately.

---

### QuickCodes Columns

When a database column contains a QuickCodes value, which we implement using a foreign key to FND\_LOOKUPS, MFG\_LOOKUPS, or to some other lookup table, we list the QuickCodes type (lookup type) to which the QuickCodes value must belong and a complete list of QuickCodes values and meanings. Some QuickCodes can be defined by you in the application. These values are designated as User-defined.

## Column Descriptions

We list the important characteristics of each column in a table or view. These characteristics include whether the column is part of the table's primary key, whether Oracle8i requires a value for this column, and the data type of the column. We also give you a brief description of how Oracle Field Service uses the column.

When a column is part of a table's primary key, we append the notation (PK) to the name of that column.

To help you understand which columns Oracle Field Service uses and which columns it does not use, we alert you to any unused column. When no module uses a database column, we show one of the following legends in the Description column:

|                            |  |
|----------------------------|--|
| <b>Not currently used</b>  | Oracle Field Service does not use this column, although the column might be used in a future release.  |
| <b>No longer used</b>      | Oracle Field Service no longer uses this column. AutoInstall installs this column. Subsequent versions of Oracle Field Service might not include this column.  |
| <b>No longer installed</b> | Oracle Field Service no longer uses this column. If you <i>upgraded</i> your software from an earlier version, you may still have this column, depending upon whether you chose to delete it during an upgrade process. If you <i>install</i> Oracle Field Service, you do not have this column. |

### Standard Who Columns

Most Oracle Field Service tables contain standard columns to support \ Row Who. When your program or SQL\*Plus command selects a row from a table, use these columns to determine who last updated the row. If your program or SQL\*Plus command updates or inserts a row in an interface table, you must populate each of the five standard Who columns:

|                  |  |
|------------------|--|
| LAST_UPDATE_DATE | Date when a user last updated this row                           |
| LAST_UPDATED_BY  | User who last updated this row (foreign key to FND_USER.USER_ID) |
| CREATION_DATE    | Date when this row was created                                   |

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|                          |  |
|--------------------------|--|
| <b>CREATED_BY</b>        | User who created this row (foreign key to FND_USER.USER_ID)  |
| <b>LAST_UPDATE_LOGIN</b> | Operating system login of user who last updated this row (foreign key to FND_LOGINS.LOGIN_ID). You should set this to NULL, or to 0 if NULL is not allowed |

Since every table containing Who columns has several foreign keys to the tables FND\_USER and FND\_LOGINS, we do not include the foreign key columns LAST\_UPDATED\_BY, CREATED\_BY, or LAST\_UPDATE\_LOGIN in a table's list of foreign keys.

### **Additional Who Columns for Concurrent Programs**

---

Some Oracle Field Service tables also contain several additional Who columns to distinguish between changes a user makes with a form and changes a concurrent program makes. When a concurrent program updates or inserts a row in a table, the concurrent program populates the following additional Who columns:

|                               |   |
|-------------------------------|---|
| <b>REQUEST_ID</b>             | Concurrent request ID of program that last updated this row (foreign key to FND_CONCURRENT_REQUESTS.REQUEST_ID) |
| <b>PROGRAM_APPLICATION_ID</b> | Application ID of program that last updated this row (foreign key to FND_APPLICATION.APPLICATION_ID)            |
| <b>PROGRAM_ID</b>             | Program ID of program that last updated this row (foreign key to FND_CONCURRENT_PROGRAM.CONCURRENT_PROGRAM_ID)  |
| <b>PROGRAM_UPDATE_DATE</b>    | Date when a program last updated this row   |

Since every table containing these additional Who columns has several foreign keys to the tables FND\_CONCURRENT\_REQUESTS, FND\_APPLICATION, and FND\_CONCURRENT\_PROGRAM, we do not include the foreign key columns REQUEST\_ID, PROGRAM\_APPLICATION\_ID, or PROGRAM\_ID in a table's list of foreign keys.

---

## Indexes

If an Oracle Field Service table uses an Oracle8i index, we list the database columns that comprise that index, in sequential order.

**Note:** The indexes we document in this manual correspond to unique keys we specified during product development and testing. In some cases, we may add additional indexes during the porting process to fine-tune performance on specific platforms; therefore, there may be minor differences between the indexes documented in this book and the indexes for production versions of Oracle Field Service.

---

## Sequences

Oracle Field Service uses Oracle8i sequence generators to generate unique integers. If any table column gets its value from an Oracle8i sequence generator, we list the name of the corresponding sequence generator and the name of the column that stores the unique integer.

---

## Database Triggers

If a table has one or more active database triggers, we provide a brief explanation of each database trigger and when it fires.

---

## View Derivation

For each Oracle Field Service view you may need to reference, we include important elements from the SQL statement that defines or creates a view. By studying this view definition, you can understand exactly how a view derives its contents.

## CSF\_DEBRIEF\_HEADERS

CSF\_DEBRIEF\_HEADERS contains the header information about the Field service report ie the information that a field service engineer records during a field visit . The primary key is CS\_DEBRIEF\_HEADER\_ID and this is a foreign key into CS\_DEBRIEF\_LINES. Each Task has resource assignments and each such task resource assignment is associated with a Field Service Report . Every Field service report header indicates an interaction with the customer.

### Foreign Keys

| Primary Key Table    | Primary Key Column | Foreign Key Column |
|----------------------|--------------------|--------------------|
| JTF_TASK_ASSIGNMENTS | TASK_ASSIGNMENT_ID | TASK_ASSIGNMENT_ID |

### Column Descriptions

| Name                   | Null?    | Type          | Description                                    |
|------------------------|----------|---------------|--|
| DEBRIEF_HEADER_ID (PK) | NOT NULL | NUMBER        | The unique identifier for header               |
| DEBRIEF_NUMBER         | NOT NULL | VARCHAR2(50)  | The unique number for field service report     |
| DEBRIEF_DATE           | NOT NULL | DATE          | The field service report date                  |
| DEBRIEF_STATUS_ID      | NULL     | NUMBER        | The Field Service Report status identifier     |
| TASK_ASSIGNMENT_ID     | NOT NULL | NUMBER        | The task assignment unique identifier          |
| CREATED_BY             | NOT NULL | NUMBER        | Standard who column                            |
| CREATION_DATE          | NOT NULL | DATE          | Standard who column                            |
| LAST_UPDATED_BY        | NOT NULL | NUMBER        | Standard who column                            |
| LAST_UPDATE_DATE       | NOT NULL | DATE          | Standard who column                            |
| LAST_UPDATE_LOGIN      | NULL     | NUMBER        | Standard who column                            |
| ATTRIBUTE1             | NULL     | VARCHAR2(150) | Descriptive Flexfield segment for attribute 1  |
| ATTRIBUTE2             | NULL     | VARCHAR2(150) | Descriptive flexfield segment for attribute 2  |
| ATTRIBUTE3             | NULL     | VARCHAR2(150) | Descriptive Flexfield segment for attribute 3  |
| ATTRIBUTE4             | NULL     | VARCHAR2(150) | Descriptive Flexfield segment for attribute 4  |
| ATTRIBUTE5             | NULL     | VARCHAR2(150) | Descriptive Flexfield segment for attribute 5  |
| ATTRIBUTE6             | NULL     | VARCHAR2(150) | Descriptive Flexfield segment for attribute 6  |
| ATTRIBUTE7             | NULL     | VARCHAR2(150) | Descriptive Flexfield segment for attribute 7  |
| ATTRIBUTE8             | NULL     | VARCHAR2(150) | Descriptive Flexfield segment for attribute 8  |
| ATTRIBUTE9             | NULL     | VARCHAR2(150) | Descriptive Flexfield segment for attribute 9  |
| ATTRIBUTE10            | NULL     | VARCHAR2(150) | Descriptive Flexfield segment for attribute 10 |
| ATTRIBUTE11            | NULL     | VARCHAR2(150) | Descriptive Flexfield segment for attribute 11 |
| ATTRIBUTE12            | NULL     | VARCHAR2(150) | Descriptive Flexfield segment for attribute 12 |

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|                    |      |               |   |
|--------------------|------|---------------|---|
| ATTRIBUTE13        | NULL | VARCHAR2(150) | Descriptive Flexfield segment for attribute 13  |
| ATTRIBUTE14        | NULL | VARCHAR2(150) | Descriptive Flexfield segment for attribute 14  |
| ATTRIBUTE15        | NULL | VARCHAR2(150) | Descriptive Flexfield segment for attribute 15  |
| ATTRIBUTE_CATEGORY | NULL | VARCHAR2(30)  | Descriptive flexfield structure defining column |

#### *Indexes*

| Index Name             | Index Type | Sequence | Column Name    |
|------------------------|------------|----------|----------------|
| CSF_DEBRIEF_HEADERS_U1 | UNIQUE     | 1        | DEBRIEF_NUMBER |

## CSF\_DEBRIEF\_LINES

CSF\_DEBRIEF\_LINES is a table that contains line information for a Field Service report. ie the information that a field service engineer records during a field visit . The primary key is CSF\_DEBRIEF\_LINE\_ID . Each Field Service Report can have multiple report lines that report material, labour and expenses incurred during a field service visit. This information is used to upload to Charges , Installed Base and Spares Inventory modules. Field Service Report data from mobile devices is also stored in here via public APIs.

### Foreign Keys

| Primary Key Table   | Primary Key Column | Foreign Key Column |
|---------------------|--------------------|--------------------|
| CSF_DEBRIEF_HEADERS | DEBRIEF_HEADER_ID  | DEBRIEF_HEADER_ID  |

### Column Descriptions

| Name                         | Null?    | Type         | Description   |
|------------------------------|----------|--------------|---|
| DEBRIEF_LINE_ID (PK)         | NOT NULL | NUMBER       | The unique line identifier for each field service report line |
| DEBRIEF_HEADER_ID            | NOT NULL | NUMBER       | The primary key for the field service headers.                |
| DEBRIEF_LINE_NUMBER          | NULL     | NUMBER       | The Field service line number                                 |
| SERVICE_DATE                 | NOT NULL | DATE         | Service date  |
| TXN_BILLING_TYPE_ID          | NOT NULL | NUMBER       | The transaction billing type identifier                       |
| INVENTORY_ITEM_ID            | NOT NULL | NUMBER       | The inventory item identifier                                 |
| ISSUING_INVENTORY_ORG_ID     | NULL     | NUMBER       | The issuing out inventory org identifier                      |
| RECEIVING_INVENTORY_ORG_ID   | NULL     | NUMBER       | Receiving inventory org identifier.                           |
| ISSUING_SUB_INVENTORY_CODE   | NULL     | VARCHAR2(10) | Issuing sub inventory code                                    |
| RECEIVING_SUB_INVENTORY_CODE | NULL     | VARCHAR2(10) | Receiving sub inventory code                                  |
| ISSUING_LOCATOR_ID           | NULL     | NUMBER       | Issuing locator identifier                                    |
| RECEIVING_LOCATOR_ID         | NULL     | NUMBER       | The receiving locator identifier                              |
| PARENT_PRODUCT_ID            | NULL     | NUMBER(15)   | The parent product identifier for the removed out item        |
| REMOVED_PRODUCT_ID           | NULL     | NUMBER(15)   | The product identifier for the removed item                   |
| STATUS_OF_RECEIVED_PART      | NULL     | VARCHAR2(30) | The status of the received part                               |
| ITEM_SERIAL_NUMBER           | NULL     | VARCHAR2(30) | Serial number of the item                                     |
| ITEM_REVISION                | NULL     | VARCHAR2(3)  | Revision of the item  |
| ITEM_LOTNUMBER               | NULL     | VARCHAR2(30) | Item lot number   |
| UOM_CODE                     | NULL     | VARCHAR2(3)  | The uom code of the item                                      |
| QUANTITY                     | NULL     | NUMBER       | The quantity of the item                                      |
| RMA_HEADER_ID                | NULL     | NUMBER       | The order identifier  |
| DISPOSITION_CODE             | NULL     | VARCHAR2(30) | The item disposition code                                     |
| MATERIAL_REASON_CODE         | NULL     | VARCHAR2(30) | The material line reason code                                 |
| LABOR_REASON_CODE            | NULL     | VARCHAR2(30) | The labor line reason code                                    |
| EXPENSE_REASON_CODE          | NULL     | VARCHAR2(30) | The expense line reason code                                  |
| LABOR_START_DATE             | NULL     | DATE         | The labor start date  |
| LABOR_END_DATE               | NULL     | DATE         | The labor end date  |
| STARTING_MILEAGE             | NULL     | NUMBER       | The starting mileage  |
| ENDING_MILEAGE               | NULL     | NUMBER       | The ending mileage  |

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|                        |          |               |   |
|------------------------|----------|---------------|---|
| EXPENSE_AMOUNT         | NULL     | NUMBER        | The expense amount                              |
| CURRENCY_CODE          | NULL     | VARCHAR2(15)  | The currency code                               |
| DEBRIEF_LINE_STATUS_ID | NULL     | NUMBER        | The line status identifier                      |
| CHANNEL_CODE           | NULL     | VARCHAR2(30)  | The channel code of the line                    |
| CHARGE_UPLOAD_STATUS   | NULL     | VARCHAR2(30)  | Charge update interface status                  |
| CHARGE_UPLOAD_MSG_CODE | NULL     | VARCHAR2(30)  | Charge update message code                      |
| CHARGE_UPLOAD_MESSAGE  | NULL     | VARCHAR2(240) | Charge update message                           |
| IB_UPDATE_STATUS       | NULL     | VARCHAR2(30)  | Installed base update interface status          |
| IB_UPDATE_MSG_CODE     | NULL     | VARCHAR2(30)  | Installed base update interface message code    |
| IB_UPDATE_MESSAGE      | NULL     | VARCHAR2(240) | Installed base update interface message         |
| SPARE_UPDATE_STATUS    | NULL     | VARCHAR2(30)  | Inventory update interface status               |
| SPARE_UPDATE_MSG_CODE  | NULL     | VARCHAR2(30)  | Inventory update interface message code         |
| SPARE_UPDATE_MESSAGE   | NULL     | VARCHAR2(240) | Inventory update interface message              |
| CREATED_BY             | NOT NULL | NUMBER(15)    | The standard who column                         |
| CREATION_DATE          | NOT NULL | DATE          | The standard who column                         |
| LAST_UPDATED_BY        | NOT NULL | NUMBER(15)    | The standard who column                         |
| LAST_UPDATE_DATE       | NOT NULL | DATE          | The standard who column                         |
| LAST_UPDATE_LOGIN      | NULL     | NUMBER(15)    | The standard who column                         |
| ATTRIBUTE1             | NULL     | VARCHAR2(150) | Descriptive flexfield segment for attribute1    |
| ATTRIBUTE2             | NULL     | VARCHAR2(150) | Descriptive flexfield segment for attribute2    |
| ATTRIBUTE3             | NULL     | VARCHAR2(150) | Descriptive flexfield segment for attribute 3   |
| ATTRIBUTE4             | NULL     | VARCHAR2(150) | Descriptive flexfield segment for attribute 4   |
| ATTRIBUTE5             | NULL     | VARCHAR2(150) | Descriptive flexfield segment for attribute 5   |
| ATTRIBUTE6             | NULL     | VARCHAR2(150) | Descriptive flexfield segment for attribute 6   |
| ATTRIBUTE7             | NULL     | VARCHAR2(150) | Descriptive flexfield segment for attribute 7   |
| ATTRIBUTE8             | NULL     | VARCHAR2(150) | Descriptive flexfield segment for attribute 8   |
| ATTRIBUTE9             | NULL     | VARCHAR2(150) | Descriptive flexfield segment for attribute 9   |
| ATTRIBUTE10            | NULL     | VARCHAR2(150) | Descriptive flexfield segment for attribute 10  |
| ATTRIBUTE11            | NULL     | VARCHAR2(150) | Descriptive flexfield segment for attribute 11  |
| ATTRIBUTE12            | NULL     | VARCHAR2(150) | Descriptive flexfield segment for attribute 12  |
| ATTRIBUTE13            | NULL     | VARCHAR2(150) | Descriptive flexfield segment for attribute 13  |
| ATTRIBUTE14            | NULL     | VARCHAR2(150) | Descriptive flexfield segment for attribute 14  |
| ATTRIBUTE15            | NULL     | VARCHAR2(150) | Descriptive flexfield segment for attribute 15  |
| ATTRIBUTE_CATEGORY     | NULL     | VARCHAR2(30)  | Descriptive flexfield structure defining column |

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## CSF\_LF\_BLOCKS

**DEFINITION** The Block table includes available address ranges for a certain roadsegment. Typically a block record describes the Start and End house number, both on the Left and Right side of the road segment.

**EXAMPLE MISCELLANEOUS** One roadsegment can have multiple blocks (e.g. commercial vs. base address range).

### Foreign Keys

| Primary Key Table   | Primary Key Column | Foreign Key Column |
|---------------------|--------------------|--------------------|
| CSF_LF_ROADSEGMENTS | ROADSEGMENT_ID     | ROADSEGMENT_ID     |

### Column Descriptions

| Name                 | Null?    | Type         | Description  |
|----------------------|----------|--------------|--|
| BLOCK_ID (PK)        | NOT NULL | NUMBER(30)   | Surrogate key used for primary unique identifiers                    |
| LEFT_ADDRESS_FORMAT  | NOT NULL | VARCHAR2(1)  | Address format (numeric, alphanumeric, unaddressed) for road segment |
| LEFT_ADDRESS_SCHEME  | NULL     | VARCHAR2(1)  | Address scheme (Odd, Even, Mixed) at Left Side of road segment       |
| START_LEFT_ADDRESS   | NULL     | VARCHAR2(10) | Left House Number at Reference Node                                  |
| END_LEFT_ADDRESS     | NULL     | VARCHAR2(10) | Left House Number at non-Reference node                              |
| RIGHT_ADDRESS_FORMAT | NOT NULL | VARCHAR2(1)  | Address format (numeric, alphanumeric, unaddressed) for road segment |
| RIGHT_ADDRESS_SCHEME | NULL     | VARCHAR2(1)  | Address scheme (Odd, Even, Mixed) at Right Side of road segment      |
| START_RIGHT_ADDRESS  | NULL     | VARCHAR2(10) | Right House Number at Reference Node                                 |
| END_RIGHT_ADDRESS    | NULL     | VARCHAR2(10) | Right House Number at Non-Reference Node                             |
| ADDRESS_TYPE         | NULL     | VARCHAR2(1)  | Type of block (base, commercial etc.)                                |
| ROADSEGMENT_ID       | NOT NULL | NUMBER(30)   | Permanent identifier for RoadSegment (=GDF3.0 Edge ID)               |

### Sequences

| Sequence         | Derived Column |
|------------------|----------------|
| CSF_LF_BLOCKS_S1 | BLOCK_ID       |

## CSF\_LF\_NAMES

**DEFINITION** The Name Table includes all Name information for: RoadSegment, POI and Place. **EXAMPLE MISCELLANEOUS** The Name table will have multiple entries when an entity has multiple names. Therefore the Name table includes all available Official, Alternate, Stale, Vanity names for entities.

### QuickCodes Columns

| Column                  | QuickCodes Type | QuickCodes Table |
|-------------------------|-----------------|------------------|
| EXIT_NUMBER             | YES_NO          | FND_LOOKUPS      |
|                         | N               | No               |
|                         | Y               | Yes              |
| JUNCTION_NAME           | YES_NO          | FND_LOOKUPS      |
|                         | N               | No               |
|                         | Y               | Yes              |
| STREET_TYPE_ATTACHED    | YES_NO_NEVER    | FND_LOOKUPS      |
| STREET_TYPE_BEFORE_BASE | YES_NO_NEVER    | FND_LOOKUPS      |

### Column Descriptions

| Name                    | Null?    | Type          | Description  |
|-------------------------|----------|---------------|--|
| NAME_ID (PK)            | NOT NULL | NUMBER(30)    | Unique key for Name  |
| NAME                    | NOT NULL | VARCHAR2(70)  | Actual name of the entity (Streetname, POI name, Place name) |
| LANGUAGE_CODE           | NOT NULL | VARCHAR2(3)   | 3 letter MARC language code for name                         |
| JUNCTION_NAME           | NULL     | VARCHAR2(3)   | Is Name a Junction Name?                                     |
| EXIT_NUMBER             | NULL     | VARCHAR2(3)   | Is Name an Exit Number?                                      |
| ROUTE_TYPE              | NULL     | NUMBER        | Indication of Route Number level (only for Route Nrs.)       |
| PREFIX                  | NULL     | VARCHAR2(1)   | Prefix for Street Name (e.g. E, W; US only)                  |
| BASE_NAME               | NULL     | VARCHAR2(240) | Base Name of Street Name (e.g. 'High' in High Street)        |
| STREET_TYPE             | NULL     | VARCHAR2(35)  | Street Type of Street Name (e.g. 'Street' in High Street)    |
| STREET_TYPE_ATTACHED    | NULL     | VARCHAR2(1)   | Street Type attached to Base Name?                           |
| STREET_TYPE_BEFORE_BASE | NULL     | VARCHAR2(1)   | Street Type before Base Name?                                |
| SUFFIX                  | NULL     | VARCHAR2(1)   | Suffix of Street Name (e.g. N, W; US only)                   |

### Sequences

| Sequence        | Derived Column |
|-----------------|----------------|
| CSF_LF_NAMES_S1 | NAME_ID        |

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## CSF\_LF\_PLACES

**DEFINITION** A place represents an administrative level. The administrative levels included differ per country. At a minimum the following administrative levels are included: – Settlement (also referred to as the built up area) – Municipality – Country Depending on the country, additional admin levels could be included. **EXAMPLE** Utrecht, Deutschland, Chicago, Illinois, Firenze, E17, La Defense

**MISCELLANEOUS**

### QuickCodes Columns

| Column            | QuickCodes Type | QuickCodes Table |
|-------------------|-----------------|------------------|
| PLACE_USAGE_ADMIN | YES_NO          | FND_LOOKUPS      |
|                   | N               | No               |
|                   | Y               | Yes              |
| PLACE_USAGE_ZONE  | YES_NO          | FND_LOOKUPS      |
|                   | N               | No               |
|                   | Y               | Yes              |

### Column Descriptions

| Name               | Null?    | Type        | Description  |
|--------------------|----------|-------------|--|
| PLACE_ID (PK)      | NOT NULL | NUMBER(30)  | Unique key that identifies the place                                 |
| PLACE_USAGE_ADMIN  | NOT NULL | VARCHAR2(3) | Identifies if the Place represents an Administrative unit            |
| PLACE_PARENT_LEVEL | NULL     | NUMBER      | Defines level of the parent admin unit (e.g. Municipality, Province) |
| PLACE_USAGE_ZONE   | NOT NULL | VARCHAR2(3) | Identifies if the Place represents a Zone                            |
| PARENT_PLACE_ID    | NULL     | NUMBER(30)  | The parent place id for the place table                              |

### Sequences

| Sequence         | Derived Column |
|------------------|----------------|
| CSF_LF_PLACES_S1 | PLACE_ID       |

## CSF\_LF\_PLACE\_NAMES

DEFINITION Intersection table required since one place can have many names (e.g. Exonyms, Synonyms) and one Name can be used by multiple Places (e.g. Utrecht city, municipality and province).  
EXAMPLE MISCELLANEOUS

Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|-------------------|--------------------|--------------------|
| CSF_LF_NAMES      | NAME_ID            | NAME_ID            |
| CSF_LF_PLACES     | PLACE_ID           | PLACE_ID           |

Column Descriptions

| Name               | Null?    | Type        | Description   |
|--------------------|----------|-------------|---|
| PLACE_NAME_ID (PK) | NOT NULL | NUMBER(30)  | Surrogate key used for primary unique identifiers                   |
| NAME_TYPE          | NOT NULL | VARCHAR2(1) | Indication if Name represents Official or Alternate name for Place. |
| PLACE_ID           | NOT NULL | NUMBER(30)  | Unique key that identifies the place                                |
| NAME_ID            | NOT NULL | NUMBER(30)  | Unique key for Name   |

Sequences

| Sequence              | Derived Column |
|-----------------------|----------------|
| CSF_LF_PLACE_NAMES_S1 | PLACE_NAME_ID  |

## CSF\_LF\_PLACE\_POSTCS

**DEFINITION** Intersection table required since one Postcode can be located in multiple Places, and one Place can have multiple Postcodes.

**EXAMPLE MISCELLANEOUS** The information is retrieved from the GDF3.0 relations 1018 and 1009. Relation Place–Postcode will only be available for Settlement and Municipality Place level.

Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|-------------------|--------------------|--------------------|
| CSF_LF_PLACES     | PLACE_ID           | PLACE_ID           |
| CSF_LF_POSTCODES  | POSTAL_CODE_ID     | POSTAL_CODE_ID     |

Column Descriptions

| Name                   | Null?    | Type       | Description                                    |
|------------------------|----------|------------|--|
| PLACE_POSTCODE_ID (PK) | NOT NULL | NUMBER(30) | Unique identifier for the Place Postcode table |
| PLACE_ID               | NOT NULL | NUMBER(30) | Unique key that identifies the place           |
| POSTAL_CODE_ID         | NOT NULL | NUMBER(30) | Primary key for the Postal Code table          |

Sequences

| Sequence               | Derived Column    |
|------------------------|-------------------|
| CSF_LF_PLACE_POSTCS_S1 | PLACE_POSTCODE_ID |

## CSF\_LF\_POIS

**DEFINITION** Points Of Interest (POI) are single points in the road network database that are typically known by their name, e.g. City Centres, Airports, Hotels. **EXAMPLE** Hotel Mayfair, Luchthaven Schiphol, Tour Eiffel, Buckingham Palace, New Orleans, Tai Chek  
**MISCELLANEOUS**

### Foreign Keys

| Primary Key Table   | Primary Key Column | Foreign Key Column |
|---------------------|--------------------|--------------------|
| CSF_LF_PLACES       | PLACE_ID           | PLACE_ID           |
| CSF_LF_ROADSEGMENTS | ROADSEGMENT_ID     | ROADSEGMENT_ID     |

### Column Descriptions

| Name             | Null?    | Type          | Description  |
|------------------|----------|---------------|--|
| POI_ID (PK)      | NOT NULL | NUMBER(30)    | Unique identifier for POI Table                        |
| FEATURE_CODE     | NOT NULL | NUMBER        | Describes type of POI                                  |
| POI_ADDRESS      | NULL     | VARCHAR2(240) | Full address of the POI (Streetname and HouseNr)       |
| TELEPHONE_NUMBER | NULL     | VARCHAR2(240) | Phone number of the POI                                |
| CHAIN_NAME       | NULL     | VARCHAR2(240) | Chain where the POI is part of                         |
| FOOD_TYPE        | NULL     | VARCHAR2(240) | Type of food served in Restau                          |
| IMPORTANCE       | NOT NULL | NUMBER        | Indication if POI is of National Importance            |
| POPULATION       | NULL     | NUMBER        | Estimated population for City Centre POI               |
| ROADSEGMENT_ID   | NOT NULL | NUMBER(30)    | Permanent identifier for RoadSegment (=GDF3.0 Edge ID) |
| PLACE_ID         | NOT NULL | NUMBER(30)    | Foreign key to place table                             |

### Sequences

| Sequence       | Derived Column |
|----------------|----------------|
| CSF_LF_POIS_S1 | POI_ID         |

# CSF\_LF\_POI\_NAMES

DEFINITION Intersection table required since one POI can have multiple names (i.e. Exonyms, Synonyms) and one Name can be shared by multiple POIs (e.g. Shell, Holiday Inn). EXAMPLE MISCELLANEOUS

Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|-------------------|--------------------|--------------------|
| CSF_LF_NAMES      | NAME_ID            | NAME_ID            |
| CSF_LF_POIS       | POI_ID             | POI_ID             |

Column Descriptions

| Name             | Null?    | Type        | Description  |
|------------------|----------|-------------|--|
| POI_NAME_ID (PK) | NOT NULL | NUMBER(30)  | Surrogate key used for primary unique identifiers                |
| NAME_TYPE        | NOT NULL | VARCHAR2(1) | Indication if name is used as Official or Alternate Name for POI |
| POI_ID           | NOT NULL | NUMBER(30)  | Unique identifier for POI Table                                  |
| NAME_ID          | NOT NULL | NUMBER(30)  | Unique key for Name  |

Sequences

| Sequence            | Derived Column |
|---------------------|----------------|
| CSF_LF_POI_NAMES_S1 | POI_NAME_ID    |

## CSF\_LF\_POSTCODES

**DEFINITION** Defines postal code that is valid for a RoadSegment or POI and represents the official numeric or alphanumeric postal code present in that country. **EXAMPLE MISCELLANEOUS** The PostCode table is related to the Place Table for retrieving Country ID. Postal Codes could be duplicated between countries, therefore the Country ID is required.

Column Descriptions

| Name                | Null?    | Type          | Description                                |
|---------------------|----------|---------------|--|
| POSTAL_CODE_ID (PK) | NOT NULL | NUMBER(30)    | Primary key for the Postal Code table      |
| POSTAL_CODE         | NOT NULL | VARCHAR2(240) | Actual numeric or alphanumeric Postal Code |
| COUNTRY_CODE        | NOT NULL | VARCHAR2(240) | The country for which the postcode is.     |

Sequences

| Sequence            | Derived Column |
|---------------------|----------------|
| CSF_LF_POSTCODES_S1 | POSTAL_CODE_ID |

# CSF\_LF\_ROADSEGMENTS

DEFINITION A Road Segment is a navigable feature such as a Road, Ferry or Walkway. Road Segments make up the navigable road network. A Road Segment is always bounded by two nodes. A road segment will have various attributes associated with it. EXAMPLE MISCELLANEOUS

Column Descriptions

| Name                | Null?    | Type       | Description  |
|---------------------|----------|------------|--|
| ROADSEGMENT_ID (PK) | NOT NULL | NUMBER(30) | Permanent identifier for RoadSegment (=GDF3.0 Edge ID) |
| ROADSEGMENT_LENGTH  | NOT NULL | NUMBER     | Length of road segment                                 |
| TIME_ZONE           | NULL     | NUMBER     | The time zone for this road segment                    |

Sequences

| Sequence               | Derived Column |
|------------------------|----------------|
| CSF_LF_ROADSEGMENTS_S1 | ROADSEGMENT_ID |

## CSF\_LF\_ROADSEGM\_NAMES

**DEFINITION** Intersection table since one roadsegment can have multiple names (e.g. E34 and A12) and one name can be used by multiple roadsegments. **EXAMPLE MISCELLANEOUS** Some roadsegments do not have a name in reality (so called 'Valid Unnamed'). For these roadsegment no entry exist in the Roadsegment Name table.

Foreign Keys

| Primary Key Table   | Primary Key Column | Foreign Key Column |
|---------------------|--------------------|--------------------|
| CSF_LF_NAMES        | NAME_ID            | NAME_ID            |
| CSF_LF_ROADSEGMENTS | ROADSEGMENT_ID     | ROADSEGMENT_ID     |

Column Descriptions

| Name                     | Null?    | Type        | Description  |
|--------------------------|----------|-------------|--|
| ROADSEGMENT_NAME_ID (PK) | NOT NULL | NUMBER(30)  | Unique identifier for RoadSegment Name table   |
| NAME_TYPE                | NOT NULL | VARCHAR2(1) | Indication if RoadSegment's Name represents Official, Alternate, Stale or Vanity Name' |
| ROADSEGMENT_ID           | NOT NULL | NUMBER(30)  | Permanent identifier for RoadSegment (=GDF3.0 Edge ID)                                 |
| NAME_ID                  | NOT NULL | NUMBER(30)  | Unique key for Name  |

Sequences

| Sequence                 | Derived Column      |
|--------------------------|---------------------|
| CSF_LF_ROADSEGM_NAMES_S1 | ROADSEGMENT_NAME_ID |



# CSF\_LF\_ROADSEGM\_PLACES

DEFINITION Intersection table required since one Segment can be located in multiple places (e.g. road on admin boundary) and one place contains multiple segments. EXAMPLE MISCELLANEOUS

Foreign Keys

| Primary Key Table   | Primary Key Column | Foreign Key Column |
|---------------------|--------------------|--------------------|
| CSF_LF_PLACES       | PLACE_ID           | PLACE_ID           |
| CSF_LF_ROADSEGMENTS | ROADSEGMENT_ID     | ROADSEGMENT_ID     |

Column Descriptions

| Name                   | Null?    | Type        | Description  |
|------------------------|----------|-------------|--|
| ROADSEGM_PLACE_ID (PK) | NOT NULL | NUMBER(30)  | Surrogate key used for primary unique identifiers      |
| PLACE_SIDE             | NULL     | VARCHAR2(1) | Specifies side of roadsegment to which Place belongs   |
| ROADSEGMENT_ID         | NOT NULL | NUMBER(30)  | Permanent identifier for RoadSegment (=GDF3.0 Edge ID) |
| PLACE_ID               | NOT NULL | NUMBER(30)  | Unique key that identifies the place                   |

Sequences

| Sequence                  | Derived Column    |
|---------------------------|-------------------|
| CSF_LF_ROADSEGM_PLACES_S1 | ROADSEGM_PLACE_ID |

## CSF\_LF\_ROADSEGM\_POSTS

**DEFINITION** Intersection table since one Roadsegment can contains multiple Postal Codes (e.g. roadsegment on postcode boundary --> left / right different Postal Code), and one Postal Code will be shared by multiple RoadSegments. **EXAMPLE MISCELLANEOUS**

Foreign Keys

| Primary Key Table   | Primary Key Column | Foreign Key Column |
|---------------------|--------------------|--------------------|
| CSF_LF_POSTCODES    | POSTAL_CODE_ID     | POSTAL_CODE_ID     |
| CSF_LF_ROADSEGMENTS | ROADSEGMENT_ID     | ROADSEGMENT_ID     |

Column Descriptions

| Name                         | Null?    | Type        | Description  |
|------------------------------|----------|-------------|--|
| ROADSEGMENT_POSTCODE_ID (PK) | NOT NULL | NUMBER(30)  | Surrogate key used for primary unique identifiers        |
| POSTCODE_SIDE                | NULL     | VARCHAR2(1) | Post Code exits on Left (L), Right (R) or Both (B) sides |
| ROADSEGMENT_ID               | NOT NULL | NUMBER(30)  | Permanent identifier for RoadSegment (=GDF3.0 Edge ID)   |
| POSTAL_CODE_ID               | NOT NULL | NUMBER(30)  | Primary key for the Postal Code table                    |

Sequences

| Sequence                 | Derived Column          |
|--------------------------|-------------------------|
| CSF_LF_ROADSEGM_POSTS_S1 | ROADSEGMENT_POSTCODE_ID |

# CSF\_L\_AGENDALAYOUTS

This table stores the agenda layout for the Engineers.

Column Descriptions

| Name                 | Null?    | Type          | Description                                     |
|----------------------|----------|---------------|---|
| AGENDALAYOUT_ID (PK) | NOT NULL | NUMBER(15)    | Unique identifier                               |
| LAST_UPDATE_DATE     | NOT NULL | DATE          | Standard Who column                             |
| LAST_UPDATED_BY      | NOT NULL | NUMBER(15)    | Standard Who column                             |
| CREATION_DATE        | NOT NULL | DATE          | Standard Who column                             |
| CREATED_BY           | NOT NULL | NUMBER(15)    | Standard Who column                             |
| LAST_UPDATE_LOGIN    | NOT NULL | NUMBER(15)    | Standard Who column                             |
| COL                  | NOT NULL | NUMBER(15)    | Col# in agenda                                  |
| FIELDNAME            | NOT NULL | VARCHAR2(50)  | FieldName                                       |
| USERFIELDNAME        | NOT NULL | VARCHAR2(50)  | Header Column name                              |
| VISIBLE              | NOT NULL | NUMBER(15)    | If Visible                                      |
| ATTRIBUTE_CATEGORY   | NULL     | VARCHAR2(30)  | Descriptive flexfield structure defining column |
| ATTRIBUTE1           | NULL     | VARCHAR2(150) | Descriptive flexfield segment                   |
| ATTRIBUTE2           | NULL     | VARCHAR2(150) | Descriptive flexfield segment                   |
| ATTRIBUTE3           | NULL     | VARCHAR2(150) | Descriptive flexfield segment                   |
| ATTRIBUTE4           | NULL     | VARCHAR2(150) | Descriptive flexfield segment                   |
| ATTRIBUTE5           | NULL     | VARCHAR2(150) | Descriptive flexfield segment                   |
| ATTRIBUTE6           | NULL     | VARCHAR2(150) | Descriptive flexfield segment                   |
| ATTRIBUTE7           | NULL     | VARCHAR2(150) | Descriptive flexfield segment                   |
| ATTRIBUTE8           | NULL     | VARCHAR2(150) | Descriptive flexfield segment                   |
| ATTRIBUTE9           | NULL     | VARCHAR2(150) | Descriptive flexfield segment                   |
| ATTRIBUTE10          | NULL     | VARCHAR2(150) | Descriptive flexfield segment                   |
| ATTRIBUTE11          | NULL     | VARCHAR2(150) | Descriptive flexfield segment                   |
| ATTRIBUTE12          | NULL     | VARCHAR2(150) | Descriptive flexfield segment                   |
| ATTRIBUTE13          | NULL     | VARCHAR2(150) | Descriptive flexfield segment                   |
| ATTRIBUTE14          | NULL     | VARCHAR2(150) | Descriptive flexfield segment                   |
| ATTRIBUTE15          | NULL     | VARCHAR2(150) | Descriptive flexfield segment                   |

Sequences

| Sequence              | Derived Column  |
|-----------------------|-----------------|
| CSF_L_AGENDALAYOUTS_S | AGENDALAYOUT_ID |

## CSF\_L\_QUERIES

The Queries table stores all user defined queries that are used on the Mobile Device. The FORMNAME indicates where the queries is to be used in the system.

### Column Descriptions

| Name               | Null?    | Type           | Description                                     |
|--------------------|----------|----------------|---|
| QUERY_ID (PK)      | NOT NULL | NUMBER(15)     | Unique identifier                               |
| LAST_UPDATE_DATE   | NOT NULL | DATE           | Standard Who column                             |
| LAST_UPDATED_BY    | NOT NULL | NUMBER(15)     | Standard Who column                             |
| CREATION_DATE      | NOT NULL | DATE           | Standard Who column                             |
| CREATED_BY         | NOT NULL | NUMBER(15)     | Standard Who column                             |
| LAST_UPDATE_LOGIN  | NOT NULL | NUMBER(15)     | Standard Who column                             |
| QUERYFOR           | NOT NULL | VARCHAR2(20)   | Query for which column                          |
| FORMNAME           | NOT NULL | VARCHAR2(20)   | Query for which form                            |
| SQLTITEL           | NOT NULL | VARCHAR2(20)   | Titel of query                                  |
| SQLSTRING          | NOT NULL | VARCHAR2(2000) | The Query                                       |
| RUNREMOTE          | NULL     | NUMBER(15)     | Query executable on Remote PC                   |
| REFRESHRATE        | NULL     | NUMBER(15)     | Refresh rate                                    |
| ATTRIBUTE_CATEGORY | NULL     | VARCHAR2(30)   | Descriptive flexfield structure defining column |
| ATTRIBUTE1         | NULL     | VARCHAR2(150)  | Descriptive flexfield segment                   |
| ATTRIBUTE2         | NULL     | VARCHAR2(150)  | Descriptive flexfield segment                   |
| ATTRIBUTE3         | NULL     | VARCHAR2(150)  | Descriptive flexfield segment                   |
| ATTRIBUTE4         | NULL     | VARCHAR2(150)  | Descriptive flexfield segment                   |
| ATTRIBUTE5         | NULL     | VARCHAR2(150)  | Descriptive flexfield segment                   |
| ATTRIBUTE6         | NULL     | VARCHAR2(150)  | Descriptive flexfield segment                   |
| ATTRIBUTE7         | NULL     | VARCHAR2(150)  | Descriptive flexfield segment                   |
| ATTRIBUTE8         | NULL     | VARCHAR2(150)  | Descriptive flexfield segment                   |
| ATTRIBUTE9         | NULL     | VARCHAR2(150)  | Descriptive flexfield segment                   |
| ATTRIBUTE10        | NULL     | VARCHAR2(150)  | Descriptive flexfield segment                   |
| ATTRIBUTE11        | NULL     | VARCHAR2(150)  | Descriptive flexfield segment                   |
| ATTRIBUTE12        | NULL     | VARCHAR2(150)  | Descriptive flexfield segment                   |
| ATTRIBUTE13        | NULL     | VARCHAR2(150)  | Descriptive flexfield segment                   |
| ATTRIBUTE14        | NULL     | VARCHAR2(150)  | Descriptive flexfield segment                   |
| ATTRIBUTE15        | NULL     | VARCHAR2(150)  | Descriptive flexfield segment                   |

### Sequences

| Sequence        | Derived Column |
|-----------------|----------------|
| CSF_L_QUERIES_S | QUERY_ID       |

# CSF\_L\_QUERYREQUESTS

## Requests for executing queries from remote on the server side

### Column Descriptions

| Name                 | Null?    | Type          | Description                                     |
|----------------------|----------|---------------|---|
| QUERYREQUEST_ID (PK) | NOT NULL | NUMBER(15)    | Unique identifier                               |
| LAST_UPDATE_DATE     | NOT NULL | DATE          | Standard Who column                             |
| LAST_UPDATED_BY      | NOT NULL | NUMBER(15)    | Standard Who column                             |
| CREATION_DATE        | NOT NULL | DATE          | Standard Who column                             |
| CREATED_BY           | NOT NULL | NUMBER(15)    | Standard Who column                             |
| LAST_UPDATE_LOGIN    | NOT NULL | NUMBER(15)    | Standard Who column                             |
| EMPLID               | NOT NULL | VARCHAR2(20)  | Employee ID                                     |
| REQUESTDATE          | NOT NULL | DATE          | Date Request                                    |
| QUERY_ID             | NOT NULL | NUMBER(15)    | ID of Query                                     |
| QUERYINPUT           | NULL     | VARCHAR2(255) | Parameter values                                |
| ATTRIBUTE_CATEGORY   | NULL     | VARCHAR2(30)  | Descriptive flexfield structure defining column |
| ATTRIBUTE1           | NULL     | VARCHAR2(150) | Descriptive flexfield segment                   |
| ATTRIBUTE2           | NULL     | VARCHAR2(150) | Descriptive flexfield segment                   |
| ATTRIBUTE3           | NULL     | VARCHAR2(150) | Descriptive flexfield segment                   |
| ATTRIBUTE4           | NULL     | VARCHAR2(150) | Descriptive flexfield segment                   |
| ATTRIBUTE5           | NULL     | VARCHAR2(150) | Descriptive flexfield segment                   |
| ATTRIBUTE6           | NULL     | VARCHAR2(150) | Descriptive flexfield segment                   |
| ATTRIBUTE7           | NULL     | VARCHAR2(150) | Descriptive flexfield segment                   |
| ATTRIBUTE8           | NULL     | VARCHAR2(150) | Descriptive flexfield segment                   |
| ATTRIBUTE9           | NULL     | VARCHAR2(150) | Descriptive flexfield segment                   |
| ATTRIBUTE10          | NULL     | VARCHAR2(150) | Descriptive flexfield segment                   |
| ATTRIBUTE11          | NULL     | VARCHAR2(150) | Descriptive flexfield segment                   |
| ATTRIBUTE12          | NULL     | VARCHAR2(150) | Descriptive flexfield segment                   |
| ATTRIBUTE13          | NULL     | VARCHAR2(150) | Descriptive flexfield segment                   |
| ATTRIBUTE14          | NULL     | VARCHAR2(150) | Descriptive flexfield segment                   |
| ATTRIBUTE15          | NULL     | VARCHAR2(150) | Descriptive flexfield segment                   |

### Sequences

| Sequence              | Derived Column  |
|-----------------------|-----------------|
| CSF_L_QUERYREQUESTS_S | QUERYREQUEST_ID |

## CSF\_L\_SODS

### List of Description of Service Orders

#### Column Descriptions

| Name               | Null?    | Type          | Description  |
|--------------------|----------|---------------|--|
| SOD_ID (PK)        | NOT NULL | NUMBER(15)    | Unique identifier                                  |
| LAST_UPDATE_DATE   | NOT NULL | DATE          | Standard Who column                                |
| LAST_UPDATED_BY    | NOT NULL | NUMBER(15)    | Standard Who column                                |
| CREATION_DATE      | NOT NULL | DATE          | Standard Who column                                |
| CREATED_BY         | NOT NULL | NUMBER(15)    | Standard Who column                                |
| LAST_UPDATE_LOGIN  | NOT NULL | NUMBER(15)    | Standard Who column                                |
| SOT_ID             | NOT NULL | NUMBER(15)    | ID of Service Order Type                           |
| SODTYPE            | NOT NULL | VARCHAR2(20)  | Type of Service Order<br>Description               |
| SODDESCR           | NOT NULL | VARCHAR2(50)  | Description of the Service<br>Order Description    |
| FILENAMEHDR        | NOT NULL | VARCHAR2(255) | ALX file name for the Header of<br>the section     |
| FILENAMEFTR        | NULL     | VARCHAR2(255) | ALX file name for the Footer of<br>the section     |
| DEFSOD_ID          | NOT NULL | NUMBER(15)    | Default Service Order<br>Description ID            |
| TASK_TYPE_ID       | NULL     | NUMBER        | ID of Task Type                                    |
| ITEM_PATTERN       | NULL     | VARCHAR2(240) | Item Pattern                                       |
| ATTRIBUTE_CATEGORY | NULL     | VARCHAR2(30)  | Descriptive flexfield structure<br>defining column |
| ATTRIBUTE1         | NULL     | VARCHAR2(150) | Descriptive flexfield segment                      |
| ATTRIBUTE2         | NULL     | VARCHAR2(150) | Descriptive flexfield segment                      |
| ATTRIBUTE3         | NULL     | VARCHAR2(150) | Descriptive flexfield segment                      |
| ATTRIBUTE4         | NULL     | VARCHAR2(150) | Descriptive flexfield segment                      |
| ATTRIBUTE5         | NULL     | VARCHAR2(150) | Descriptive flexfield segment                      |
| ATTRIBUTE6         | NULL     | VARCHAR2(150) | Descriptive flexfield segment                      |
| ATTRIBUTE7         | NULL     | VARCHAR2(150) | Descriptive flexfield segment                      |
| ATTRIBUTE8         | NULL     | VARCHAR2(150) | Descriptive flexfield segment                      |
| ATTRIBUTE9         | NULL     | VARCHAR2(150) | Descriptive flexfield segment                      |
| ATTRIBUTE10        | NULL     | VARCHAR2(150) | Descriptive flexfield segment                      |
| ATTRIBUTE11        | NULL     | VARCHAR2(150) | Descriptive flexfield segment                      |
| ATTRIBUTE12        | NULL     | VARCHAR2(150) | Descriptive flexfield segment                      |
| ATTRIBUTE13        | NULL     | VARCHAR2(150) | Descriptive flexfield segment                      |
| ATTRIBUTE14        | NULL     | VARCHAR2(150) | Descriptive flexfield segment                      |
| ATTRIBUTE15        | NULL     | VARCHAR2(150) | Descriptive flexfield segment                      |

#### Sequences

| Sequence     | Derived Column |
|--------------|----------------|
| CSF_L_SODS_S | SOD_ID         |

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List of Types of Service Order

Column Descriptions

| Name               | Null?    | Type          | Description                                     |
|--------------------|----------|---------------|---|
| SOT_ID (PK)        | NOT NULL | NUMBER(15)    | Unique identifier                               |
| LAST_UPDATE_DATE   | NOT NULL | DATE          | Standard Who column                             |
| LAST_UPDATED_BY    | NOT NULL | NUMBER(15)    | Standard Who column                             |
| CREATION_DATE      | NOT NULL | DATE          | Standard Who column                             |
| CREATED_BY         | NOT NULL | NUMBER(15)    | Standard Who column                             |
| LAST_UPDATE_LOGIN  | NOT NULL | NUMBER(15)    | Standard Who column                             |
| DESCR              | NOT NULL | VARCHAR2(50)  | Description                                     |
| ATTRIBUTE_CATEGORY | NULL     | VARCHAR2(30)  | Descriptive flexfield structure defining column |
| ATTRIBUTE1         | NULL     | VARCHAR2(150) | Descriptive flexfield segment                   |
| ATTRIBUTE2         | NULL     | VARCHAR2(150) | Descriptive flexfield segment                   |
| ATTRIBUTE3         | NULL     | VARCHAR2(150) | Descriptive flexfield segment                   |
| ATTRIBUTE4         | NULL     | VARCHAR2(150) | Descriptive flexfield segment                   |
| ATTRIBUTE5         | NULL     | VARCHAR2(150) | Descriptive flexfield segment                   |
| ATTRIBUTE6         | NULL     | VARCHAR2(150) | Descriptive flexfield segment                   |
| ATTRIBUTE7         | NULL     | VARCHAR2(150) | Descriptive flexfield segment                   |
| ATTRIBUTE8         | NULL     | VARCHAR2(150) | Descriptive flexfield segment                   |
| ATTRIBUTE9         | NULL     | VARCHAR2(150) | Descriptive flexfield segment                   |
| ATTRIBUTE10        | NULL     | VARCHAR2(150) | Descriptive flexfield segment                   |
| ATTRIBUTE11        | NULL     | VARCHAR2(150) | Descriptive flexfield segment                   |
| ATTRIBUTE12        | NULL     | VARCHAR2(150) | Descriptive flexfield segment                   |
| ATTRIBUTE13        | NULL     | VARCHAR2(150) | Descriptive flexfield segment                   |
| ATTRIBUTE14        | NULL     | VARCHAR2(150) | Descriptive flexfield segment                   |
| ATTRIBUTE15        | NULL     | VARCHAR2(150) | Descriptive flexfield segment                   |

Sequences

| Sequence     | Derived Column |
|--------------|----------------|
| CSF_L_SOTS_S | SOT_ID         |

## CSF\_MD\_ADM\_BOUNDS

DEFINITION A MD ADMIN BOUND defines an administrative boundary defined in a country. EXAMPLE MISCELLANEOUS The enitivity can be both linear and and polygon.

Foreign Keys

| Primary Key Table      | Primary Key Column | Foreign Key Column |
|------------------------|--------------------|--------------------|
| CSF_MD_INST_STYLE_SHTS | INST_STYLE_ID      | INST_STYLE_ID      |

Column Descriptions

| Name                | Null?    | Type       | Description  |
|---------------------|----------|------------|--|
| ADMIN_BOUND_ID (PK) | NOT NULL | NUMBER(30) | The ADMIN BOUND ID 's unique identifier.   |
| ADMIN_LEVEL         | NOT NULL | NUMBER     | The ADMIN LEVEL defines the administrative level represented by this carthographic entity. |
| FEATURE_CODE        | NOT NULL | NUMBER     | The FEATURE CODE defines the type of administrative level.                                 |
| INST_STYLE_ID       | NOT NULL | NUMBER(30) | Generic unique identifier for an entity  |
| AREA                | NULL     | NUMBER     | Defines the surface in square units.   |

Sequences

| Sequence             | Derived Column |
|----------------------|----------------|
| CSF_MD_ADM_BOUNDS_S1 | ADMIN_BOUND_ID |



# CSF\_MD\_HYDROS

DEFINITION A MD HYDROGRAPHY defines hydrographic cartographic feature. EXAMPLE MISCELLANEOUS

Foreign Keys

| Primary Key Table      | Primary Key Column | Foreign Key Column |
|------------------------|--------------------|--------------------|
| CSF_MD_INST_STYLE_SHTS | INST_STYLE_ID      | INST_STYLE_ID      |

Column Descriptions

| Name                | Null?    | Type       | Description   |
|---------------------|----------|------------|---|
| HYDROGRAPHY_ID (PK) | NOT NULL | NUMBER(30) | The HYDROGRAPHY ID defines the unique identifier of the entity. |
| FEATURE_CODE        | NOT NULL | NUMBER     | The FEATURE CODE defines the type of hydrography.               |
| INST_STYLE_ID       | NOT NULL | NUMBER(30) | Generic unique identifier for an entity                         |
| WATER_TYPE          | NULL     | NUMBER     | Defines type of water feature stored                            |
| AREA                | NULL     | NUMBER     | Defines the surface in square units.                            |

Sequences

| Sequence         | Derived Column |
|------------------|----------------|
| CSF_MD_HYDROS_S1 | HYDROGRAPHY_ID |

# CSF\_MD\_INST\_STYLE\_SHTS

## DEFINITION EXAMPLE MISCELLANEOUS

### Column Descriptions

| Name                 | Null?    | Type        | Description  |
|----------------------|----------|-------------|--|
| INST_STYLE_ID (PK)   | NOT NULL | NUMBER(30)  | Generic unique identifier for an entity                |
| STYLE_TYPE           | NOT NULL | VARCHAR2(8) | Style type   |
| COLOR                | NOT NULL | NUMBER      | Color  |
| DISPLAY_PRIORITY     | NOT NULL | NUMBER      | Priority which style sheet has to displayed first.     |
| ISS_SIZE             | NOT NULL | NUMBER      | Size style   |
| PATTERN              | NOT NULL | NUMBER      | pattern  |
| XOR_MODE             | NOT NULL | NUMBER      | Map drawing mode.                                      |
| XOR_COLOR            | NOT NULL | NUMBER      | Map drawing mode.                                      |
| LINE_MULTIPASS_STYLE | NOT NULL | NUMBER      | Map drawing line characteristic                        |
| LINE_CAP_STYLE       | NOT NULL | NUMBER      | Map drawing line characteristic                        |
| LINE_JOIN_STYLE      | NOT NULL | NUMBER      | Map drawing line characteristic                        |
| LINE_NODE_STYLE      | NOT NULL | NUMBER      | Map drawing line characteristic                        |
| AREA_ALPHA           | NOT NULL | NUMBER      | Defines the area alpha style                           |
| AREA_BORDER_STYLE    | NOT NULL | NUMBER      | Defines the map area border style                      |
| MARKER_TYPE          | NOT NULL | NUMBER      | Indicates the map marker type.                         |
| MARKER_TEXT_MBR      | NOT NULL | NUMBER      | Indicates the minimum bounding rectangle of the marker |
| TEXT_BACK_COLOR      | NOT NULL | NUMBER      | Map text characteristic                                |
| TEXT_FONT_HINT       | NOT NULL | NUMBER      | Map text characteristic                                |
| TEXT_BOLD            | NOT NULL | NUMBER      | Map text characteristic                                |
| TEXT_COLOR           | NOT NULL | NUMBER      | Map text characteristic                                |
| TEXT_HALO            | NOT NULL | NUMBER      | Map text characteristic                                |
| TEXT_ITALIC          | NOT NULL | NUMBER      | Map text characteristic                                |
| TEXT_SIZE            | NOT NULL | NUMBER      | Map text characteristic                                |
| TEXT_UNDERLINE       | NOT NULL | NUMBER      | Map text characteristic                                |
| TEXT_X_OFFSET        | NOT NULL | NUMBER      | Map text characteristic                                |
| TEXT_Y_OFFSET        | NOT NULL | NUMBER      | Map text characteristic                                |
| TEXT_ORIENTATION     | NOT NULL | NUMBER      | Map text characteristic                                |
| LABELING_ENABLED     | NULL     | VARCHAR2(1) | Indicate if labeling is enable in this style sheet.    |
| LABEL_TEXT_SIZE      | NULL     | NUMBER      | Label drawing characteristic                           |
| LABEL_COLOR          | NULL     | NUMBER      | Label drawing characteristic                           |

### Sequences

| Sequence                  | Derived Column |
|---------------------------|----------------|
| CSF_MD_INST_STYLE_SHTS_S1 | INST_STYLE_ID  |

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**CSF\_MD\_LAND\_USES**

DEFINITION A LAND USE defines the geometry of various land usages. EXAMPLE Some examples of land usages are: Parks, Forest, Industrial complex, Airport, Island, Military base, Reservations, etc. MISCELLANEOUS

Foreign Keys

| Primary Key Table      | Primary Key Column | Foreign Key Column |
|------------------------|--------------------|--------------------|
| CSF_MD_INST_STYLE_SHTS | INST_STYLE_ID      | INST_STYLE_ID      |

Column Descriptions

| Name            | Null?    | Type       | Description   |
|-----------------|----------|------------|---|
| LANDUSE_ID (PK) | NOT NULL | NUMBER(30) | Generic unique identifier for an entity                   |
| FEATURE_CODE    | NOT NULL | NUMBER     | The FEATURE CODE defines the type of land usage.          |
| INST_STYLE_ID   | NOT NULL | NUMBER(30) | Generic unique identifier for an entity                   |
| PARK_TYPE       | NULL     | NUMBER     | Defines type of Park, sub-attribute for Feature Code 7170 |
| AREA            | NULL     | NUMBER     | Specifies the surface in square units.                    |

Sequences

| Sequence            | Derived Column |
|---------------------|----------------|
| CSF_MD_LAND_USES_S1 | LANDUSE_ID     |

## CSF\_MD\_LYR\_METADATA

### DEFINITION EXAMPLE MISCELLANEOUS

#### Foreign Keys

| Primary Key Table      | Primary Key Column   | Foreign Key Column   |
|------------------------|----------------------|----------------------|
| CSF_MD_INST_STYLE_SHTS | INST_STYLE_ID        | INST_STYLE_ID        |
| CSF_MD_LYR_STYLE_SHTS  | LAYER_STYLE_SHEET_ID | LAYER_STYLE_SHEET_ID |
| CSF_MD_THEME_METADATA  | THEME_ID             | THEME_METADATA_ID    |

#### Column Descriptions

| Name                  | Null?    | Type           | Description  |
|-----------------------|----------|----------------|--|
| LAYER_METADATA_ID     | NOT NULL | NUMBER(30)     | Defines the unique identifier                                  |
| THEME_METADATA_ID     | NOT NULL | NUMBER(30)     | Foreign key to theme metadata                                  |
| LAYER_NAME            | NULL     | VARCHAR2(32)   | The name of the map layer                                      |
| LAYER_DB_LINK         | NULL     | VARCHAR2(32)   | Database name for layer data                                   |
| LAYER_OWNER           | NULL     | VARCHAR2(32)   | Owner name of layer data                                       |
| LAYER_TABLE           | NULL     | VARCHAR2(32)   | Table name that contains geometric data for a layer.           |
| LAYER_WHERE_CLAUSE    | NULL     | VARCHAR2(1024) | Spatial where clause for retrieving geometric data for a layer |
| LAYER_VERSION         | NULL     | VARCHAR2(32)   | Version string of a layer                                      |
| CREATION_DATE         | NULL     | DATE           | Date layer metadata was created                                |
| COPYRIGHT_DATE        | NULL     | DATE           | Copyright date for layer metadata                              |
| LAST_EDIT_DATE        | NULL     | DATE           | Date last edited   |
| CHAR_SET              | NULL     | VARCHAR2(32)   | Character set to use for display                               |
| LAYER_STYLE_SHEET_ID  | NOT NULL | NUMBER(30)     | Foreign key to style sheet of given layer metadata             |
| INST_STYLE_ID         | NOT NULL | NUMBER(30)     | Foreign key to instance style sheet                            |
| LAYER_TABLE_2         | NULL     | VARCHAR2(32)   | Secondary table name for display data                          |
| LAYER_TABLE_3         | NULL     | VARCHAR2(32)   | Third table name for display data                              |
| LAYER_WHERE_CLAUSE_2  | NULL     | VARCHAR2(1024) | Secondary where clause for geometric data query                |
| GEOMETRY_COLUMN_NAME  | NULL     | VARCHAR2(240)  | Column name containing geometric data                          |
| ID_COLUMN_NAME        | NULL     | VARCHAR2(240)  | Unique id column name of table containing geometric data       |
| ITEM_NAME_COLUMN_NAME | NULL     | VARCHAR2(240)  | Column name contain item name for geometric data               |

#### Sequences

| Sequence               | Derived Column    |
|------------------------|-------------------|
| CSF_MD_LYR_METADATA_S1 | LAYER_METADATA_ID |

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# CSF\_MD\_LYR\_STYLE\_SHTS

DEFINITION A MD LAYER STYLE SHEET defines the visual display characteristics of a map layer. EXAMPLE MISCELLANEOUS

Column Descriptions

| Name                      | Null?    | Type       | Description                                  |
|---------------------------|----------|------------|--|
| LAYER_STYLE_SHEET_ID (PK) | NOT NULL | NUMBER(30) | Unique layer style sheet identifier          |
| MIN_SCALE                 | NOT NULL | NUMBER     | Minimum scale of give layer style sheet      |
| MAX_SCALE                 | NOT NULL | NUMBER     | Maximum scale of given layer style sheet     |
| DEFAULT_SCALE             | NOT NULL | NUMBER     | Default scale for given layer style sheet    |
| DISPLAY_PRIORITY          | NOT NULL | NUMBER     | Display priority for given layer style sheet |

Sequences

| Sequence                 | Derived Column       |
|--------------------------|----------------------|
| CSF_MD_LYR_STYLE_SHTS_S1 | LAYER_STYLE_SHEET_ID |

## CSF\_MD\_NAMES

**DEFINITION** The MD NAME defines the name of the given geographic entities in the model. **EXAMPLE** Name of administrative boundaries, Points of interest, Road/road-segments, etc. **MISCELLANEOUS**

### Foreign Keys

| Primary Key Table | Primary Key Column  | Foreign Key Column  |
|-------------------|---------------------|---------------------|
| CSF_MD_ADM_BOUNDS | ADMIN_BOUND_ID      | ADMIN_BOUND_ID      |
| CSF_MD_HYDROS     | HYDROGRAPHY_ID      | HYDROGRAPHY_ID      |
| CSF_MD_LAND_USES  | LANDUSE_ID          | LANDUSE_ID          |
| CSF_MD_RAIL_SEGS  | RAILROAD_SEGMENT_ID | RAILROAD_SEGMENT_ID |

### QuickCodes Columns

| Column             | QuickCodes Type | QuickCodes Table |
|--------------------|-----------------|------------------|
| ROAD_EXIT_NUMBER   | YES_NO          | FND_LOOKUPS      |
|                    | N               | No               |
|                    | Y               | Yes              |
| ROAD_JUNCTION_NAME | YES_NO          | FND_LOOKUPS      |
|                    | N               | No               |
|                    | Y               | Yes              |

### Column Descriptions

| Name                | Null?    | Type         | Description   |
|---------------------|----------|--------------|---|
| NAME_ID (PK)        | NOT NULL | NUMBER(30)   | The NAME ID defines the unique identifier of the name.  |
| NAME                | NOT NULL | VARCHAR2(70) | The full name of the entity.  |
| NAME_TYPE           | NOT NULL | VARCHAR2(1)  | The NAME TYPE defines if the name is an official name, stale name, vanity name. etc.            |
| LANGUAGE_CODE       | NOT NULL | VARCHAR2(3)  | The LANGUAGE CODE defines the language in which the name is written.                            |
| ROUTE_TYPE          | NULL     | NUMBER       | The ROUTE TYPE defines the classification of route numbers by importance and regional function. |
| ROAD_JUNCTION_NAME  | NULL     | VARCHAR2(3)  | The ROAD JUNCTION NAME defines if the name represents a motorway junction.                      |
| ROAD_EXIT_NUMBER    | NULL     | VARCHAR2(3)  | The ROAD EXIT NUMBER defines if the name represents a road exit number.                         |
| RAILROAD_SEGMENT_ID | NULL     | NUMBER(30)   | Generic unique identifier for an entity   |
| LANDUSE_ID          | NULL     | NUMBER(30)   | Generic unique identifier for an entity   |
| ADMIN_BOUND_ID      | NULL     | NUMBER(30)   | The ADMIN BOUND ID 's unique identifier.  |
| HYDROGRAPHY_ID      | NULL     | NUMBER(30)   | The HYDROGRAPHY ID defines the unique identifier of the entity.                                 |

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Sequences

| Sequence        | Derived Column |
|-----------------|----------------|
| CSF_MD_NAMES_S1 | NAME_ID        |

## CSF\_MD\_POIS

**DEFINITION** This table defines POI (point of interest) for Map Display  
**EXAMPLE** Holiday Inn, Shell petrol station, etc. **MISCELLANEOUS**

### Foreign Keys

| Primary Key Table      | Primary Key Column | Foreign Key Column |
|------------------------|--------------------|--------------------|
| CSF_MD_INST_STYLE_SHTS | INST_STYLE_ID      | INST_STYLE_ID      |

### QuickCodes Columns

| Column     | QuickCodes Type | QuickCodes Table |
|------------|-----------------|------------------|
| IMPORTANCE | YES_NO          | FND_LOOKUPS      |
|            | N               | No               |
|            | Y               | Yes              |

### Column Descriptions

| Name             | Null?    | Type          | Description   |
|------------------|----------|---------------|---|
| POI_ID (PK)      | NOT NULL | NUMBER(30)    | A unique identifier for the POI.  |
| FEATURE_CODE     | NOT NULL | NUMBER        | The FEATURE CODE defines the type the POI.                                |
| FOOD_TYPE        | NULL     | VARCHAR2(240) | The FOOD TYPE defines the type of food served in restaurants.             |
| IMPORTANCE       | NOT NULL | VARCHAR2(3)   | The IMPORTANCE defines if the POI is of local or national importance.     |
| POI_ADDRESS      | NULL     | VARCHAR2(240) | The POI ADDRESS defines the streetname and house number of the POI.       |
| TELEPHONE_NUMBER | NULL     | VARCHAR2(240) | The POI telephone number  |
| POPULATION       | NULL     | NUMBER(25)    | The POPULATION defines the estimated number of inhabitants of the city.   |
| CHAIN_NAME       | NULL     | VARCHAR2(240) | The CHAIN NAME defines the name of the chain to which the POI belongs to. |
| INST_STYLE_ID    | NOT NULL | NUMBER(30)    | Generic unique identifier for an entity                                   |

### Sequences

| Sequence       | Derived Column |
|----------------|----------------|
| CSF_MD_POIS_S1 | POI_ID         |



## CSF\_MD\_POI\_NM\_ASGNS

DEFINITOIN A MD POI NAMES ASGN defines the M:M relationship between the MD NAME and the MD POI NAMES ASGN entity.  
EXAMPLE MISCELLANEOUS

### Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|-------------------|--------------------|--------------------|
| CSF_MD_NAMES      | NAME_ID            | NAME_ID            |
| CSF_MD_POIS       | POI_ID             | POI_ID             |

### Column Descriptions

| Name                | Null?    | Type        | Description   |
|---------------------|----------|-------------|---|
| POI_NM_ASGN_ID (PK) | NOT NULL | NUMBER(30)  | The POI NM ASGN ID defines the unique identifier of the entity. |
| NAME_TYPE           | NOT NULL | VARCHAR2(1) | The NAME TYPE defines type of the name given to the POI.        |
| NAME_ID             | NOT NULL | NUMBER(30)  | The NAME ID defines the unique identifier of the name.          |
| POI_ID              | NOT NULL | NUMBER(30)  | A unique identifier for the POI.                                |

### Sequences

| Sequence               | Derived Column |
|------------------------|----------------|
| CSF_MD_POI_NM_ASGNS_S1 | POI_NM_ASGN_ID |

# CSF\_MD\_RAIL\_SEGS

DEFINITION A RAIL SEGMENT defines an individual line segment representing a railroad. EXAMPLE MISCELLANEOUS

Foreign Keys

| Primary Key Table      | Primary Key Column | Foreign Key Column |
|------------------------|--------------------|--------------------|
| CSF_MD_INST_STYLE_SHTS | INST_STYLE_ID      | INST_STYLE_ID      |

Column Descriptions

| Name                     | Null?    | Type       | Description                                       |
|--------------------------|----------|------------|---|
| RAILROAD_SEGMENT_ID (PK) | NOT NULL | NUMBER(30) | Generic unique identifier for an entity           |
| FEATURE_CODE             | NOT NULL | NUMBER     | Surrogate key used for primary unique identifiers |
| INST_STYLE_ID            | NULL     | NUMBER(30) | Generic unique identifier for an entity           |

Sequences

| Sequence            | Derived Column      |
|---------------------|---------------------|
| CSF_MD_RAIL_SEGS_S1 | RAILROAD_SEGMENT_ID |

# CSF\_MD\_RDSEG\_NM\_ASGNS

DEFINITION A MD RDSEG NAME ASGN defines the M:M relationship between the MD NAME and MD ROAD SEGMENT entity.  
EXAMPLE MISCELLANEOUS

Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|-------------------|--------------------|--------------------|
| CSF_MD_NAMES      | NAME_ID            | NAME_ID            |
| CSF_MD_RD_SEGS    | ROAD_SEGMENT_ID    | ROAD_SEGMENT_ID    |

Column Descriptions

| Name              | Null?    | Type        | Description   |
|-------------------|----------|-------------|---|
| RD_SEG_NM_ID (PK) | NOT NULL | NUMBER(30)  | Generic unique identifier for an entity                               |
| NAME_TYPE         | NOT NULL | VARCHAR2(1) | The NAME TYPE defines the type of the name given to the road segment. |
| ROAD_SEGMENT_ID   | NOT NULL | NUMBER(30)  | The ROAD SEGMENT ID defines the unique identifier for a road segment. |
| NAME_ID           | NOT NULL | NUMBER(30)  | The NAME ID defines the unique identifier of the name.                |

## CSF\_MD\_RD\_SEGS

**DEFINITION** A MD ROAD SEGMENT defines a navigable feature. Elements in the MD ROAD SEGMENT a part of the navigable road network. **EXAMPLE** Some examples of navigable features are: Roads, Ferries, Walkway **MISCELLANEOUS**

### Foreign Keys

| Primary Key Table      | Primary Key Column | Foreign Key Column |
|------------------------|--------------------|--------------------|
| CSF_MD_INST_STYLE_SHTS | INST_STYLE_ID      | INST_STYLE_ID      |

### QuickCodes Columns

| Column            | QuickCodes Type | QuickCodes Table |
|-------------------|-----------------|------------------|
| ACCESS_BICYCLE    | YES_NO          | FND_LOOKUPS      |
|                   | N               | No               |
|                   | Y               | Yes              |
| ACCESS_BUS        | YES_NO          | FND_LOOKUPS      |
|                   | N               | No               |
|                   | Y               | Yes              |
| ACCESS_CAR        | YES_NO          | FND_LOOKUPS      |
|                   | N               | No               |
|                   | Y               | Yes              |
| ACCESS_CARPOOL    | YES_NO          | FND_LOOKUPS      |
|                   | N               | No               |
|                   | Y               | Yes              |
| ACCESS_DELIVERY   | YES_NO          | FND_LOOKUPS      |
|                   | N               | No               |
|                   | Y               | Yes              |
| ACCESS_EMERGENCY  | YES_NO          | FND_LOOKUPS      |
|                   | N               | No               |
|                   | Y               | Yes              |
| ACCESS_PEDESTRIAN | YES_NO          | FND_LOOKUPS      |
|                   | N               | No               |
|                   | Y               | Yes              |
| ACCESS_TAXI       | YES_NO          | FND_LOOKUPS      |
|                   | N               | No               |
|                   | Y               | Yes              |
| ACCESS_TRUCK      | YES_NO          | FND_LOOKUPS      |
|                   | N               | No               |
|                   | Y               | Yes              |
| PAVED             | YES_NO          | FND_LOOKUPS      |
|                   | N               | No               |
|                   | Y               | Yes              |
| TOLL_ROAD         | YES_NO          | FND_LOOKUPS      |
|                   | N               | No               |
|                   | Y               | Yes              |

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# Column Descriptions

| Name                 | Null?    | Type          | Description   |
|----------------------|----------|---------------|---|
| ROAD_SEGMENT_ID (PK) | NOT NULL | NUMBER(30)    | The ROAD SEGMENT ID defines the unique identifier for a road segment.   |
| FUNCTIONAL_CLASS     | NOT NULL | NUMBER        | The FUNCTIONAL CLASS defines the level of importance of the road.   |
| CONSTRUCTION_STATUS  | NULL     | NUMBER        | The CONSTRUCTION STATUS determines if a road segment is currently under construction .  |
| FORM_OF_WAY          | NULL     | NUMBER        | The FORM OF WAY determines the physical characteristics of the road segment.  |
| SPEED_CATEGORY       | NULL     | NUMBER        | The SPEED CATEGORY defines the legal speed that applies to the road segment.  |
| LANE_CATEGORY        | NULL     | NUMBER        | The LANE CATEGORY defines the number of lanes of the road segment.  |
| ONEWAY_DIRECTION     | NOT NULL | NUMBER        | The ONEWAY DIRECTORY determines in which end the road can be entered. The direction is specified using the start and end node.  |
| TOLL_ROAD            | NOT NULL | VARCHAR2(3)   | The TOLL ROAD defines if toll fee needs to be paid for using the road.  |
| PAVED                | NULL     | VARCHAR2(3)   | The PAVED attribute defines if a road is paved or unpaved.  |
| FEATURE_CODE         | NOT NULL | NUMBER        | The FEATURE CODE determines the type of road segment. Currently only one type is in use. In a later release this column will determine the aggregation state of a road segment. |
| FERRY_TYPE           | NULL     | VARCHAR2(240) | Date and time this occurrence ceases being active for user access   |
| ACCESS_CAR           | NOT NULL | VARCHAR2(3)   | The ACCESS CAR determines if the road segment is accessible for cars.   |
| ACCESS_CARPOOL       | NOT NULL | VARCHAR2(3)   | The ACCESS CARPOOL determines if the road segment is accessible for carpool vehicles.   |
| ACCESS_DELIVERY      | NOT NULL | VARCHAR2(3)   | The ACCESS DELIVERY determines if the road segment is accessible for delivery vehicles.   |
| ACCESS_TAXI          | NOT NULL | VARCHAR2(3)   | The ACCESS TAXI determines if the road segment is accessible for taxies.  |
| ACCESS_PEDESTRIAN    | NOT NULL | VARCHAR2(3)   | The ACCESS PEDESTRIAN determines if the road segment is accessible for pedestrians.   |
| ACCESS_BUS           | NOT NULL | VARCHAR2(3)   | The ACCESS BUS determines if the road segment is accessible for busses.   |
| ACCESS_BICYCLE       | NOT NULL | VARCHAR2(3)   | The ACCESS BICYCLE determines if the road segment is accessible for bicycles.   |
| ACCESS_EMERGENCY     | NOT NULL | VARCHAR2(3)   | The ACCESS EMERGENCY determines if the road segment is accessible for emergency vehicles.   |

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|               |          |             |   |
|---------------|----------|-------------|---|
| ACCESS_TRUCK  | NOT NULL | VARCHAR2(3) | The ACCESS TRUCK determines if the road segment is accessible for trucks. |
| INST_STYLE_ID | NOT NULL | NUMBER(30)  | Generic unique identifier for an entity                                   |

*Sequences*

| <u>Sequence</u>   | <u>Derived Column</u> |
|-------------------|-----------------------|
| CSF_MD_RD_SEGS_S1 | ROAD_SEGMENT_ID       |

# CSF\_MD\_THEME\_METADATA

DEFINITION A MD THEME METADATA defines the version information of an entire theme. EXAMPLE MISCELLANEOUS

Column Descriptions

| Name           | Null?    | Type         | Description                         |
|----------------|----------|--------------|-------------------------------------|
| THEME_ID (PK)  | NOT NULL | NUMBER(30)   | Unique identifier of theme metadata |
| THEME_NAME     | NOT NULL | VARCHAR2(32) | The name of the theme               |
| THEME_CODE     | NOT NULL | NUMBER       | Theme code                          |
| THEME_VERSION  | NOT NULL | VARCHAR2(32) | The version string of a given theme |
| CREATION_DATE  | NULL     | DATE         | Theme creation date                 |
| COPYRIGHT_DATE | NULL     | DATE         | Theme copyright date                |
| LAST_EDIT_DATE | NULL     | DATE         | Date the theme was last edited      |

Sequences

| Sequence                 | Derived Column |
|--------------------------|----------------|
| CSF_MD_THEME_METADATA_S1 | THEME_ID       |

# CSF\_PARAMS

## Stored Parameters voor Laptop and Palm

### Column Descriptions

| Name               | Null?    | Type           | Description                                     |
|--------------------|----------|----------------|---|
| PARAM_ID (PK)      | NOT NULL | NUMBER(15)     | Unique identifier                               |
| LAST_UPDATE_DATE   | NOT NULL | DATE           | Standard Who column                             |
| LAST_UPDATED_BY    | NOT NULL | NUMBER(15)     | Standard Who column                             |
| CREATION_DATE      | NOT NULL | DATE           | Standard Who column                             |
| CREATED_BY         | NOT NULL | NUMBER(15)     | Standard Who column                             |
| LAST_UPDATE_LOGIN  | NOT NULL | NUMBER(15)     | Standard Who column                             |
| NAME               | NOT NULL | VARCHAR2(50)   | Parameter Name                                  |
| VALUE              | NOT NULL | VARCHAR2(2000) | Parameter Value                                 |
| ATTRIBUTE_CATEGORY | NULL     | VARCHAR2(30)   | Descriptive flexfield structure defining column |
| ATTRIBUTE1         | NULL     | VARCHAR2(150)  | Descriptive flexfield segment                   |
| ATTRIBUTE2         | NULL     | VARCHAR2(150)  | Descriptive flexfield segment                   |
| ATTRIBUTE3         | NULL     | VARCHAR2(150)  | Descriptive flexfield segment                   |
| ATTRIBUTE4         | NULL     | VARCHAR2(150)  | Descriptive flexfield segment                   |
| ATTRIBUTE5         | NULL     | VARCHAR2(150)  | Descriptive flexfield segment                   |
| ATTRIBUTE6         | NULL     | VARCHAR2(150)  | Descriptive flexfield segment                   |
| ATTRIBUTE7         | NULL     | VARCHAR2(150)  | Descriptive flexfield segment                   |
| ATTRIBUTE8         | NULL     | VARCHAR2(150)  | Descriptive flexfield segment                   |
| ATTRIBUTE9         | NULL     | VARCHAR2(150)  | Descriptive flexfield segment                   |
| ATTRIBUTE10        | NULL     | VARCHAR2(150)  | Descriptive flexfield segment                   |
| ATTRIBUTE11        | NULL     | VARCHAR2(150)  | Descriptive flexfield segment                   |
| ATTRIBUTE12        | NULL     | VARCHAR2(150)  | Descriptive flexfield segment                   |
| ATTRIBUTE13        | NULL     | VARCHAR2(150)  | Descriptive flexfield segment                   |
| ATTRIBUTE14        | NULL     | VARCHAR2(150)  | Descriptive flexfield segment                   |
| ATTRIBUTE15        | NULL     | VARCHAR2(150)  | Descriptive flexfield segment                   |

### Sequences

| Sequence     | Derived Column |
|--------------|----------------|
| CSF_PARAMS_S | PARAM_ID       |



# CSF\_PLAN\_TERRS

This table maps territories to resource groups, thus making the resource group a planner group for those territories. This information is used for UI reasons. It limits the available number of resources in the Control Tower.

### Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|-------------------|--------------------|--------------------|
| JTF_RS_GROUPS_B   | GROUP_ID           | GROUP_ID           |
| JTF_TERR_ALL      | TERR_ID            | TERR_ID            |

### Column Descriptions

| Name                  | Null?    | Type   | Description   |
|-----------------------|----------|--------|---|
| PLAN_TERR_ID (PK)     | NOT NULL | NUMBER | Unique identifier                                   |
| LAST_UPDATE_DATE      | NOT NULL | DATE   | Standard Who column                                 |
| LAST_UPDATED_BY       | NOT NULL | NUMBER | Standard Who column                                 |
| CREATION_DATE         | NOT NULL | DATE   | Standard Who column                                 |
| CREATED_BY            | NOT NULL | NUMBER | Standard Who column                                 |
| LAST_UPDATE_LOGIN     | NULL     | NUMBER | Standard Who column                                 |
| OBJECT_VERSION_NUMBER | NOT NULL | NUMBER | Sequential number used for database locking control |
| TERR_ID               | NOT NULL | NUMBER | Foreign key to JTF_TERR_ALL                         |
| GROUP_ID              | NOT NULL | NUMBER | Foreign key to JTF_RS_GROUPS_B                      |

### Indexes

| Index Name        | Index Type | Sequence | Column Name |
|-------------------|------------|----------|-------------|
| CSF_PLAN_TERRS_U1 | UNIQUE     | 0        | TERR_ID     |
|                   |            | 0        | GROUP_ID    |

### Sequences

| Sequence         | Derived Column |
|------------------|----------------|
| CSF_PLAN_TERRS_S | PLAN_TERR_ID   |

## CSF\_SDM\_CTRY\_PROFILES

### DEFINITION EXAMPLE MISCELLANEOUS

#### Column Descriptions

| Name                     | Null?    | Type         | Description                                 |
|--------------------------|----------|--------------|---|
| COUNTRY_PROFILE_ID (PK)  | NOT NULL | NUMBER(30)   | Unique identifier for given country profile |
| COUNTRY_NAME             | NULL     | VARCHAR2(60) | The name of the country                     |
| COUNTRY_ID               | NULL     | NUMBER(30)   | ISO numeric country code                    |
| COUNTRY_CODE_A3          | NULL     | VARCHAR2(3)  | 3 letter country code                       |
| NATIONAL_LANG_CODE       | NULL     | VARCHAR2(3)  | ISO language code                           |
| NATIONAL_LANG_CODE2      | NULL     | VARCHAR2(3)  | ISO language code                           |
| DRIVING_SIDE             | NULL     | VARCHAR2(1)  | Driving side                                |
| HOUSE_NUMBER_POS         | NULL     | VARCHAR2(1)  | House number position                       |
| NUMBER_ADMIN_LEVELS      | NULL     | NUMBER       | Number of administrative levels             |
| ORDER_1_AREA_SIGNIFICANT | NULL     | VARCHAR2(3)  | Order 1 area significance                   |
| ORDER_2_AREA_SIGNIFICANT | NULL     | VARCHAR2(3)  | Order 2 area significance                   |
| ORDER_3_AREA_SIGNIFICANT | NULL     | VARCHAR2(3)  | Order 3 area significance                   |
| ORDER_4_AREA_SIGNIFICANT | NULL     | VARCHAR2(3)  | Order 4 area significance                   |
| ORDER_8_AREA_SIGNIFICANT | NULL     | VARCHAR2(3)  | Order 8 area significance                   |
| ORDER_9_AREA_SIGNIFICANT | NULL     | VARCHAR2(3)  | Order 9 area significance                   |
| MIN_MUNICIPAL_LEVEL      | NULL     | NUMBER       | Country's minimum municipality level        |
| PLACE_ID                 | NULL     | NUMBER(30)   | Place id                                    |
| DEFAULT_DISPLAY_WIDTH    | NULL     | NUMBER       | Default display width                       |

#### Sequences

| Sequence                 | Derived Column     |
|--------------------------|--------------------|
| CSF_SDM_CTRY_PROFILES_S1 | COUNTRY_PROFILE_ID |

# CSF\_TDS\_BINARY\_MAPS

DEFINITION A TDS BINARY MAP defines the digital roadmap (stored in blobs) upon which route calculations will be performed. EXAMPLE MISCELLANEOUS

Column Descriptions

| Name          | Null?    | Type          | Description                                    |
|---------------|----------|---------------|--|
| BINARY_MAP_ID | NOT NULL | NUMBER(30)    | Unique identifier for a binary map.            |
| DRIVING_SIDE  | NULL     | VARCHAR2(1)   | Determines the driving side for the given map. |
| VERSION       | NULL     | VARCHAR2(10)  | The version string for the given map.          |
| NAME          | NULL     | VARCHAR2(120) | A name string describing the given map.        |
| CONFIG        | NULL     | CLOB          | Contains TDS configuration data                |
| ROADBLOCKS    | NULL     | BLOB          | BLOB holding binary roadblock data.            |
| CONDITIONS    | NULL     | BLOB          | BLOB holding binary driving condition data.    |
| TIMEINTERVALS | NULL     | BLOB          | BLOB holding condition time interval data.     |

Sequences

| Sequence               | Derived Column |
|------------------------|----------------|
| CSF_TDS_BINARY_MAPS_S1 | BINARY_MAP_ID  |

## CSF\_TDS\_BINARY\_TILES

DEFINITION A BINARY TILE defines an spatial index to a digital map.  
EXAMPLE MISCELLANEOUS

Foreign Keys

| Primary Key Table   | Primary Key Column | Foreign Key Column |
|---------------------|--------------------|--------------------|
| CSF_TDS_BINARY_MAPS | BINARY_MAP_ID      | BINARY_MAP_ID      |

Column Descriptions

| Name           | Null?    | Type       | Description  |
|----------------|----------|------------|--|
| BINARY_TILE_ID | NOT NULL | NUMBER(30) | Unique identifier for a binary tile.               |
| BINARY_MAP_ID  | NOT NULL | NUMBER(30) | Unique identifier to the map this tile belongs to. |
| SEGMENTS       | NULL     | BLOB       | BLOB holding road network segment data.            |
| NODES          | NULL     | BLOB       | BLOB holding road network node data.               |

Sequences

| Sequence                | Derived Column |
|-------------------------|----------------|
| CSF_TDS_BINARY_TILES_S1 | BINARY_TILE_ID |

## CSF\_TDS\_CONDITIONS

**DEFINITION** A Condition defines a specific restriction that applies to a road segment or to a combination of road segments. It can include Vehicles type for which the condition applies and time constraints for a condition. **EXAMPLE** Turn Restriction, access limited by a Gate, temporary change in Oneway information, Construction on a road during certain period of time. **MISCELLANEOUS**

### Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|-------------------|--------------------|--------------------|
| CSF_TDS_INTERVALS | INTERVAL_ID        | INTERVAL_ID        |

### QuickCodes Columns

| Column                 | QuickCodes Type | QuickCodes Table |
|------------------------|-----------------|------------------|
| ACCESS_BICYCLE         | YES_NO          | FND_LOOKUPS      |
|                        | N               | No               |
|                        | Y               | Yes              |
| ACCESS_BUS             | YES_NO          | FND_LOOKUPS      |
|                        | N               | No               |
|                        | Y               | Yes              |
| ACCESS_CARPOOL         | YES_NO          | FND_LOOKUPS      |
|                        | N               | No               |
|                        | Y               | Yes              |
| ACCESS_CARS            | YES_NO          | FND_LOOKUPS      |
|                        | N               | No               |
|                        | Y               | Yes              |
| ACCESS_DELIVERY        | YES_NO          | FND_LOOKUPS      |
|                        | N               | No               |
|                        | Y               | Yes              |
| ACCESS_EMERGENCY       | YES_NO          | FND_LOOKUPS      |
|                        | N               | No               |
|                        | Y               | Yes              |
| ACCESS_PEDESTRIAN      | YES_NO          | FND_LOOKUPS      |
|                        | N               | No               |
|                        | Y               | Yes              |
| ACCESS_TAXI            | YES_NO          | FND_LOOKUPS      |
|                        | N               | No               |
|                        | Y               | Yes              |
| ACCESS_THROUGH_TRAFFIC | YES_NO          | FND_LOOKUPS      |
|                        | N               | No               |
|                        | Y               | Yes              |
| ACCESS_TRUCK           | YES_NO          | FND_LOOKUPS      |
|                        | N               | No               |
|                        | Y               | Yes              |

### Column Descriptions

| Name              | Null?    | Type       | Description                           |
|-------------------|----------|------------|---------------------------------------|
| CONDITION_ID (PK) | NOT NULL | NUMBER(30) | Unique identifier for Condition Table |

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|                        |          |             |  |
|------------------------|----------|-------------|--|
| ACCESS_BUS             | NOT NULL | VARCHAR2(3) | does condition apply to public buses?                        |
| ACCESS_BICYCLE         | NOT NULL | VARCHAR2(3) | does condition apply to bicycles?                            |
| ACCESS_CARS            | NOT NULL | VARCHAR2(3) | does condition apply to passenger cars?                      |
| ACCESS_TAXI            | NOT NULL | VARCHAR2(3) | does condition apply to taxis?                               |
| ACCESS_CARPOOL         | NOT NULL | VARCHAR2(3) | does condition apply to carpool cars?                        |
| ACCESS_DELIVERY        | NOT NULL | VARCHAR2(3) | does condition apply to delivery trucks?                     |
| ACCESS_TRUCK           | NOT NULL | VARCHAR2(3) | does condition apply to trucks?                              |
| ACCESS_EMERGENCY       | NOT NULL | VARCHAR2(3) | does condition apply to emergency vehicles?                  |
| ACCESS_PEDESTRIAN      | NOT NULL | VARCHAR2(3) | does condition apply to pedestrians?                         |
| ACCESS_THROUGH_TRAFFIC | NOT NULL | VARCHAR2(3) | can segment be used for through traffic?                     |
| BIN_INDEX              | NULL     | NUMBER      | used to generate segment index for binary TDS file           |
| CONDITION_TYPE         | NOT NULL | NUMBER(1)   | Defines the type of Conditions                               |
| NR_SEGMENT_INVOLVED    | NOT NULL | NUMBER(2)   | specifies how many roadsegment are involved in the condition |
| CONSTRUCTION_STATUS    | NULL     | NUMBER(1)   | specifies the type of construction (open or closed)          |
| DIRECTION_OF_TRAFFIC   | NULL     | NUMBER(1)   | specifies the oneway information for a segment               |
| INTERVAL_ID            | NULL     | NUMBER(30)  | Unique identifier for the Interval entity                    |

#### Sequences

| Sequence              | Derived Column |
|-----------------------|----------------|
| CSF_TDS_CONDITIONS_S1 | CONDITION_ID   |

## CSF\_TDS\_COND\_SEGS

**DEFINITION** Intersection table required since one segment can be part of multiple conditions and one condition can be composed of multiple segments. **EXAMPLE MISCELLANEOUS** The sequence number in the Condition Segment table defines where in the condition the segment occurs.

### Foreign Keys

| Primary Key Table  | Primary Key Column | Foreign Key Column |
|--------------------|--------------------|--------------------|
| CSF_TDS_CONDITIONS | CONDITION_ID       | CONDITION_ID       |
| CSF_TDS_SEGMENTS   | SEGMENT_ID         | SEGMENT_ID         |

### QuickCodes Columns

| Column         | QuickCodes Type | QuickCodes Table |
|----------------|-----------------|------------------|
| JUNC_NODE_FLAG | YES_NO          | FND_LOOKUPS      |
|                | N               | No               |
|                | Y               | Yes              |

### Column Descriptions

| Name                      | Null?    | Type        | Description   |
|---------------------------|----------|-------------|---|
| CONDITION_SEGMENT_ID (PK) | NOT NULL | NUMBER(30)  | Unique identifier for the Condition Segment Table       |
| SEQUENCE_NUMBER           | NOT NULL | NUMBER(1)   | Defines sequence of Segment in Condition                |
| CONDITION_ID              | NOT NULL | NUMBER(30)  | Unique identifier for Condition Table                   |
| SEGMENT_ID                | NOT NULL | NUMBER(30)  | Unique identifier for Segment Table                     |
| JUNC_NODE_FLAG            | NULL     | VARCHAR2(3) | Indicates that condition segment is part of a junction. |

### Sequences

| Sequence             | Derived Column       |
|----------------------|----------------------|
| CSF_TDS_COND_SEGS_S1 | CONDITION_SEGMENT_ID |

## CSF\_TDS\_INTERVALS

**DEFINITION** The INTERVAL table define the Time period during which a certain Condition, Roadblock or Daylight Saving Period is valid. **EXAMPLE MISCELLANEOUS** The Time period is defined as composite time-units (year, month, week, day, hour, minute). The Time period includes a start time and a period of duration.

### Column Descriptions

| Name             | Null?    | Type       | Description   |
|------------------|----------|------------|---|
| INTERVAL_ID (PK) | NOT NULL | NUMBER(30) | Unique identifier for the Interval entity                                     |
| S_INTERVAL_TYPE  | NOT NULL | NUMBER     | Defines the start period of the Time Interval as a certain Interval Type.     |
| S_YEAR           | NULL     | NUMBER     | Defines the Start time of the Interval as a precise Year.                     |
| S_MONTH_OF_YEAR  | NULL     | NUMBER     | Defines the End time of the Interval as a Month of the Year.                  |
| S_DAY_OF_YEAR    | NULL     | NUMBER     | Defines specific day in year at which time interval starts.                   |
| S_DAY_OF_MONTH   | NULL     | NUMBER     | Defines the Start time of the Interval as a fixed day of the Month.           |
| S_DAY_OF_WEEK    | NULL     | NUMBER     | Defines the Start time of the Interval as a fixed day in the Week.            |
| S_HOUR_OF_DAY    | NULL     | NUMBER     | Specifies the exact hour within the day at which the time interval starts.    |
| S_MINUTE_OF_HOUR | NULL     | NUMBER     | Specifies the exact minute within the hour at which the time interval starts. |
| E_INTERVAL_TYPE  | NOT NULL | NUMBER     | Defines the ending period of the Time Interval as a certain Interval Type.    |
| E_YEAR           | NULL     | NUMBER     | Defines the End time of the Interval as a precise Year.                       |
| E_MONTH_OF_YEAR  | NULL     | NUMBER     | Defines the End time of the Interval as a Month of the Year.                  |
| E_WEEK_OF_YEAR   | NULL     | NUMBER     | Defines the End time of the Interval as a Week of the Year.                   |
| E_DAY_OF_MONTH   | NULL     | NUMBER     | Defines the End time of the Interval as a fixed day of the Month.             |
| E_DAY_OF_WEEK    | NULL     | NUMBER     | Defines the End time of the Interval as a fixed day in the Week.              |
| E_HOUR_OF_DAY    | NULL     | NUMBER     | Specifies the exact hour within the day at which the time interval ends.      |
| E_MINUTE_OF_HOUR | NULL     | NUMBER     | Specifies the exact minute within the hour at which the time interval starts. |
| BIN_INDEX        | NULL     | NUMBER     | used to generate the segment index in the Binary TDS file                     |
| E_WEEK_OF_MONTH  | NULL     | NUMBER     | Defines week within month at which interval ends                              |

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|                        |                    |   |
|------------------------|--------------------|---|
| S_WEEK_OF_YEAR         | NULL NUMBER        | Defines the Start time of the Interval as a Week of the Year.   |
| E_DAY_OF_YEAR          | NULL NUMBER        | Defines specific day in year at which time interval ends.       |
| S_WEEK_OF_MONTH        | NULL NUMBER        | Defines week within month at which interval starts              |
| GDF_TIME_DOMAIN_STRING | NULL VARCHAR2(500) | Holds the GDF time domain string defining a condition interval. |

Sequences

| Sequence             | Derived Column |
|----------------------|----------------|
| CSF_TDS_INTERVALS_S1 | INTERVAL_ID    |

## CSF\_TDS\_NODES

**DEFINITION** A TDS NODE defined a junctions in a road network.  
**EXAMPLE MISCELLANEOUS** A node is always a start-/end point of a segment.

Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|-------------------|--------------------|--------------------|
| CSF_TDS_TILES     | TILE_ID            | TILE_ID            |

Column Descriptions

| Name         | Null?    | Type       | Description  |
|--------------|----------|------------|--|
| NODE_ID (PK) | NOT NULL | NUMBER(30) | The TDS NODE ID defines the unique identifier of the entity. |
| BIN_INDEX    | NULL     | NUMBER(10) | value used to generate segment index in binary TDS file      |
| TILE_ID      | NULL     | NUMBER(30) | The TILE ID defines the unique identifier of the entity.     |

Sequences

| Sequence         | Derived Column |
|------------------|----------------|
| CSF_TDS_NODES_S1 | NODE_ID        |

## CSF\_TDS\_RDBLCK\_INTVLS

DEFINITION Intersection table required since one Roadblock can have multiple time restrictions and one interval (time restriction) can be shared by multiple roadblocks. EXAMPLE MISCELLANEOUS

Foreign Keys

| Primary Key Table  | Primary Key Column | Foreign Key Column |
|--------------------|--------------------|--------------------|
| CSF_TDS_INTERVALS  | INTERVAL_ID        | INTERVAL_ID        |
| CSF_TDS_ROADBLOCKS | ROADBLOCK_ID       | ROADBLOCK_ID       |

Column Descriptions

| Name                       | Null?    | Type       | Description                                     |
|----------------------------|----------|------------|---|
| ROADBLOCK_INTERVAL_ID (PK) | NOT NULL | NUMBER(30) | unique identifier for Roadblock Interval entity |
| ROADBLOCK_ID               | NOT NULL | NUMBER(30) | Generic unique identifier for an entity         |
| INTERVAL_ID                | NOT NULL | NUMBER(30) | Unique identifier for the Interval entity       |

Sequences

| Sequence                 | Derived Column        |
|--------------------------|-----------------------|
| CSF_TDS_RDBLCK_INTVLS_S1 | ROADBLOCK_INTERVAL_ID |

## CSF\_TDS\_RDBLCK\_SGMNTS

DEFINITION The TDS RDBLCK SGMNT defines the M:M relationship between the TDS SEGMENT and TDS ROADBLOCK entity. EXAMPLE MISCELLANEOUS

Foreign Keys

| Primary Key Table  | Primary Key Column | Foreign Key Column |
|--------------------|--------------------|--------------------|
| CSF_TDS_ROADBLOCKS | ROADBLOCK_ID       | ROADBLOCK_ID       |
| CSF_TDS_SEGMENTS   | SEGMENT_ID         | SEGMENT_ID         |

Column Descriptions

| Name                      | Null?    | Type       | Description  |
|---------------------------|----------|------------|--|
| ROADBLOCK_SEGMENT_ID (PK) | NOT NULL | NUMBER(30) | Generic unique identifier for an entity                      |
| ROADBLOCK_ID              | NOT NULL | NUMBER(30) | Generic unique identifier for an entity                      |
| SEGMENT_ID                | NOT NULL | NUMBER(30) | The SEGMENT ID defines the unique identifier for the entity. |

Sequences

| Sequence                 | Derived Column       |
|--------------------------|----------------------|
| CSF_TDS_RDBLCK_SGMNTS_S1 | ROADBLOCK_SEGMENT_ID |

# CSF\_TDS\_ROADBLOCKS

DEFINITION A TDS ROADBLOCK defines a travel duration delay for a segment. EXAMPLE MISCELLANEOUS

Column Descriptions

| Name              | Null?    | Type       | Description  |
|-------------------|----------|------------|--|
| ROADBLOCK_ID (PK) | NOT NULL | NUMBER(30) | Generic unique identifier for an entity                                    |
| TRB_DELAY         | NOT NULL | NUMBER     | The DELAY defined the delay factor (as percentage) caused by the roadblock |
| BIN_INDEX         | NULL     | NUMBER     | Value used to generate segment index in binary TDS file                    |
| CREATED_BY        | NULL     | NUMBER(15) | User id of roadblock creator   |
| CREATION_DATE     | NULL     | DATE       | Date roadblock created on.   |
| LAST_UPDATED_BY   | NULL     | NUMBER(15) | User id of last updatore   |
| LAST_UPDATE_DATE  | NULL     | DATE       | Data last updated  |
| LAST_UPDATE_LOGIN | NULL     | NUMBER(15) | Last update login  |

## CSF\_TDS\_SEGMENTS

**DEFINITION** A TDS SEGMENT defines a connection between two nodes. **EXAMPLE MISCELLANEOUS** A segment is the smallest entity representing a road. A road is made up of several segments.

### Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|-------------------|--------------------|--------------------|
| CSF_TDS_INTERVALS | INTERVAL_ID        | INTERVAL_ID        |
| CSF_TDS_TILES     | TILE_ID            | TILE_ID            |

### QuickCodes Columns

| Column                 | QuickCodes Type | QuickCodes Table |
|------------------------|-----------------|------------------|
| ACCESS_BICYCLE         | YES_NO          | FND_LOOKUPS      |
|                        | N               | No               |
|                        | Y               | Yes              |
| ACCESS_BUS             | YES_NO          | FND_LOOKUPS      |
|                        | N               | No               |
|                        | Y               | Yes              |
| ACCESS_CARPOOL         | YES_NO          | FND_LOOKUPS      |
|                        | N               | No               |
|                        | Y               | Yes              |
| ACCESS_CARS            | YES_NO          | FND_LOOKUPS      |
|                        | N               | No               |
|                        | Y               | Yes              |
| ACCESS_DELIVERY        | YES_NO          | FND_LOOKUPS      |
|                        | N               | No               |
|                        | Y               | Yes              |
| ACCESS_EMERGENCY       | YES_NO          | FND_LOOKUPS      |
|                        | N               | No               |
|                        | Y               | Yes              |
| ACCESS_PEDESTRIAN      | YES_NO          | FND_LOOKUPS      |
|                        | N               | No               |
|                        | Y               | Yes              |
| ACCESS_TAXI            | YES_NO          | FND_LOOKUPS      |
|                        | N               | No               |
|                        | Y               | Yes              |
| ACCESS_THROUGH_TRAFFIC | YES_NO          | FND_LOOKUPS      |
|                        | N               | No               |
|                        | Y               | Yes              |
| ACCESS_TRUCK           | YES_NO          | FND_LOOKUPS      |
|                        | N               | No               |
|                        | Y               | Yes              |

### Column Descriptions

| Name             | Null?    | Type       | Description  |
|------------------|----------|------------|--|
| SEGMENT_ID (PK)  | NOT NULL | NUMBER(30) | Generic unique identifier for an entity                                    |
| FUNCTIONAL_CLASS | NOT NULL | NUMBER(1)  | The FUNCTIONAL CLASS defines the importance level of the road for routing. |

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|                      |          |                  |   |
|----------------------|----------|------------------|---|
| LENGTH               | NOT NULL | NUMBER           | The LENGTH defines the length of the segment in meters.   |
| LANE_CATEGORY        |          | NULL NUMBER(1)   | The LANE CATEGORY defines the number of lanes available in the segment.   |
| ONEWAY_DIRECTION     | NOT NULL | NUMBER(1)        | The ONEWAY DIRECTION defines the allowed direction of the traffic flow.   |
| ROAD_CONDITION       |          | NULL NUMBER(1)   | The ROAD CONDITION defines if a road is paved or not.   |
| SPECIAL_RESTRICTIONS |          | NULL NUMBER(1)   | The SPECIAL RESTRICTIONS defines if a segment is publicly accessible.   |
| TIME_ZONE            |          | NULL NUMBER      | The TIME ZONE defines the GMT offset of the segment.  |
| BRUNNEL_TYPE         |          | NULL NUMBER(1)   | The BRUNNEL TYPE defines if the segment is either a bridge or a tunnel.   |
| AVERAGE_SPEED        |          | NULL NUMBER(3)   | The AVERAGE SPEED defines the legal speed limit for a roadsegment in kilometers per hours.  |
| BIN_INDEX            |          | NULL NUMBER      | Used to generate an index for Segments in the Binary file   |
| TOLL_ROAD            | NOT NULL | NUMBER(1)        | The TOLL ROAD defines if the segment is or is part of a toll road.  |
| FERRY_TYPE           |          | NULL NUMBER(1)   | The FERRY TYPE defines the type of transport of the ferry.  |
| DIVIDED_ROAD_ELEMENT | NOT NULL | NUMBER(1)        | The DIVIDED ROAD ELEMENT defines if the segment is divided in terms of accessibility.   |
| DIVIDER_TYPE         |          | NULL NUMBER(1)   | The DIVIDER TYPE determines if the segment/road divider is either a legal or hysical barrier.   |
| ACCESS_CARS          |          | NULL VARCHAR2(3) | Specifies if a road is accessible by regular passenger cars.  |
| ACCESS_BUS           |          | NULL VARCHAR2(3) | Specifies if a roadsegment is accessible by Public Buses.   |
| ACCESS_TAXI          |          | NULL VARCHAR2(3) | Specifies if a roadsegment is accessible by Taxis.  |
| ACCESS_DELIVERY      |          | NULL VARCHAR2(3) | Specifies if a roadsegment is accessible by (small) Delivery Trucks.  |
| ACCESS_TRUCK         |          | NULL VARCHAR2(3) | Specifies if a roadsegment is accessible by larger Trucks.  |
| ACCESS_EMERGENCY     |          | NULL VARCHAR2(3) | Specifies is a roadsegment is accessible by Emergency Vehicles.   |
| ACCESS_PEDESTRIAN    |          | NULL VARCHAR2(3) | Specifies if the roadsegment is accessible by Pedestrians.  |
| ACCESS_BICYCLE       |          | NULL VARCHAR2(3) | Specifies is a roadsegment is accessible by Bicycles.   |
| ACCESS_CARPOOL       |          | NULL VARCHAR2(3) | Specifies if a roadsegment is accessible by High Occupancy Vehicles (i.e. passenger cars where a certain minimum number of passengers is required). |

|                        |                  |  |
|------------------------|------------------|--|
| ACCESS_THROUGH_TRAFFIC | NULL VARCHAR2(3) | The THROUGH TRAFFIC defines if the segment can be used for ongoing traffic. THROUGH TRAFFIC = N means that the road is only accessible for local resident that live in this area, and can not be used for transit traffic. |
| TILE_ID                | NULL NUMBER(30)  | The TILE ID defines the unique identifier of the entity.   |
| INTERVAL_ID            | NULL NUMBER(30)  | Unique identifier for the Interval entity  |

*Sequences*

| <u>Sequence</u>     | <u>Derived Column</u> |
|---------------------|-----------------------|
| CSF_TDS_SEGMENTS_S1 | SEGMENT_ID            |



# CSF\_TDS\_SEGM\_NODES

DEFINITION Intersection table required since one Node can be part of multiple segments and one Segment is composed of two node.  
EXAMPLE MISCELLANEOUS

Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|-------------------|--------------------|--------------------|
| CSF_TDS_NODES     | NODE_ID            | NODE_ID            |
| CSF_TDS_SEGMENTS  | SEGMENT_ID         | SEGMENT_ID         |

Column Descriptions

| Name                 | Null?    | Type       | Description  |
|----------------------|----------|------------|--|
| SEGMENT_NODE_ID (PK) | NOT NULL | NUMBER(30) | Unique identifier for Segment Node table                     |
| SEGM_NODE_TYPE       | NOT NULL | NUMBER(1)  | Defines wether a node Starting = 0 or Ending = 1             |
| NODE_ID              | NOT NULL | NUMBER(30) | The TDS NODE ID defines the unique identifier of the entity. |
| SEGMENT_ID           | NOT NULL | NUMBER(30) | Unique identifier to segment                                 |

Sequences

| Sequence              | Derived Column  |
|-----------------------|-----------------|
| CSF_TDS_SEGM_NODES_S1 | SEGMENT_NODE_ID |

## CSF\_TDS\_TILES

**DEFINITION** A TDS TILE defines the result of spatial index creation (tiling). **EXAMPLE MISCELLANEOUS** Rather a a rectangular region in the network containing nodes and edges (segments). A tile can be loaded separately into memory.

Column Descriptions

| Name         | Null?    | Type       | Description   |
|--------------|----------|------------|---|
| TILE_ID (PK) | NOT NULL | NUMBER(30) | The TILE ID defines the unique identifier of the entity.            |
| SUCC_TILE_1  | NULL     | NUMBER     | The SUCC TILE 1 defines a reference to the first successive tile.   |
| SUCC_TILE_2  | NULL     | NUMBER     | The SUCC TILE 2 defines a reference to the second successive tile.  |
| SUCC_TILE_3  | NULL     | NUMBER     | The SUCC TILE 3 defines a reference to the third successive tile.   |
| SUCC_TILE_4  | NULL     | NUMBER     | The SUCC TILE 4 defines a reference to the fourth successive tile.  |
| BIN_INDEX    | NULL     | NUMBER     | Numeric value used to generate index for Segment in Binary TDS file |

Sequences

| Sequence         | Derived Column |
|------------------|----------------|
| CSF_TDS_TILES_S1 | TILE_ID        |

# CS\_ESTIMATE\_DETAILS

CS\_ESTIMATE\_DETAILS stores billing information about a Depot repair/service request/Debrief record once the repair has been received , the service request has been created or Field Service Report(FSR) has been created. For each record in CSD\_REPAIRS\_ALL,CS\_INCIDENTS\_B\_ALL, CSF\_DEBRIEF\_LINES CS\_ESTIMATE\_DETAILS holds multiple records. INCIDENT\_ID specifies the service request that was created for repair or FSR CONTRACT\_ID specifies the contract which the customer may have purchased, to be used while estimating the repair charges. BUSINESS\_PROCESS\_ID associates the charge with a business process. LINE\_TYPE\_ID and PRICE\_LIST\_ID are associated with the Oracle Order Entry/Shipping information for Line\_Type and price list respectively. The bill-to and ship-to information is stored in INVOICE\_TO\_SITE\_USE\_ID and SHIP\_TO\_SITE\_USE\_ID.

TRANSACTION\_TYPE\_ID stores the transaction type for the chargel line and decides whether material, labor or expense is used. Installed base attributes, such as CUSTOMER\_PRODUCT\_ID, INSTALLED\_CP\_RETURN\_BY\_DATE,NEW\_CP\_RETURN\_BY\_DATE, and SYSTEM\_ID are used for certain transactions like loaners, advance replacements.

ORDER\_HEADER\_ID, ORDER\_LINE\_ID hold order-specific information for the line in Order Entry/Shipping. SELLING\_PRICE holds the unit price as obtained from the price list. AFTER\_WARRANTY\_COST holds the final amount to charge, after all contracts/discounts have been applied.

The primary key of this table is ESTIMATE\_DETAIL\_ID.

Foreign Keys

| Primary Key Table        | Primary Key Column  | Foreign Key Column   |
|--------------------------|---------------------|----------------------|
| CSD_REPAIRS              | REPAIR_LINE_ID      | SOURCE_ID            |
| CSF_DEBRIEF_LINES        | DEBRIEF_LINE_ID     | ORIGINAL_SOURCE_ID   |
| CS_BUS_PROCESS_TXNS      | BUSINESS_PROCESS_ID | BUSINESS_PROCESS_ID  |
| CS_CUSTOMER_PRODUCTS_ALL | CUSTOMER_PRODUCT_ID | CUSTOMER_PRODUCT_ID  |
| CS_INCIDENTS_ALL_B       | INCIDENT_ID         | INCIDENT_ID          |
| CS_TXN_BILLING_TYPES     | TXN_BILLING_TYPE_ID | TXN_BILLING_TYPE_ID  |
| HZ_CUST_ACCT_SITES_ALL   | CUST_ACCT_SITE_ID   | INVOICE_TO_ORG_ID    |
| HZ_PARTY_SITES           | PARTY_SITE_ID       | SHIP_TO_ORG_ID       |
| MTL_SYSTEM_ITEMS_B       | INVENTORY_ITEM_ID   | INVENTORY_ITEM_ID    |
| QP_LIST_HEADERS_B        | LIST_HEADER_ID      | PRICE_LIST_HEADER_ID |

# Column Descriptions

| Name                       | Null?    | Type         | Description   |
|----------------------------|----------|--------------|---|
| ESTIMATE_DETAIL_ID (PK)    | NOT NULL | NUMBER       | Unique identifier for the charge record   |
| BUSINESS_PROCESS_ID        | NOT NULL | NUMBER(15)   | Transaction group for the charge  |
| INCIDENT_ID                | NOT NULL | NUMBER(15)   | Unique identifier for service request   |
| ORIGINAL_SOURCE_ID         | NOT NULL | VARCHAR2(15) | Original source ID for the charge line eg - Debrief, Depot Repair                         |
| ORIGINAL_SOURCE_CODE       | NOT NULL | VARCHAR2(10) | Original source Code for the charge line eg - Debrief, Depot Repair                       |
| SOURCE_ID                  | NULL     | NUMBER(15)   | Current source ID for the charge line eg - Debrief, Depot Repair                          |
| SOURCE_CODE                | NULL     | VARCHAR2(10) | Current Source Code for the charge line eg - Debrief, Depot Repair                        |
| CONTRACT_ID                | NULL     | NUMBER       | Identifier for the contract   |
| COVERAGE_ID                | NULL     | NUMBER       | Coverage identifier   |
| COVERAGE_TXN_GROUP_ID      | NULL     | NUMBER       | Coverage Transaction Group Id   |
| INVOICE_TO_ORG_ID          | NULL     | NUMBER(15)   | Bill-to Information   |
| SHIP_TO_ORG_ID             | NULL     | NUMBER(15)   | Ship-To Information   |
| PURCHASE_ORDER_NUM         | NULL     | VARCHAR2(50) | Purchase Order Number in Order Management   |
| ORDER_HEADER_ID            | NOT NULL | NUMBER       | Order Management information for sales order created                                      |
| LINE_TYPE_ID               | NOT NULL | NUMBER       | Identifier of Line Type In Order Management   |
| LINE_CATEGORY_CODE         | NULL     | VARCHAR2(30) | Line Category Code in Order Management . It can have return or Order                      |
| CURRENCY_CODE              | NULL     | VARCHAR2(15) | Currency code   |
| CONVERSION_RATE            | NULL     | NUMBER(15)   | Conversion Rate   |
| CONVERSION_TYPE_CODE       | NULL     | VARCHAR2(30) | Conversion Type Code  |
| CONVERSION_RATE_DATE       | NULL     | DATE         | Conversion Date   |
| RETURN_REASON_CODE         | NULL     | VARCHAR2(30) | Reason for return   |
| ORDER_LINE_ID              | NOT NULL | NUMBER       | Order Line Information for Sales Order in Order Management                                |
| PRICE_LIST_HEADER_ID       | NULL     | NUMBER       | Price List identifier   |
| LINE_NUMBER                | NOT NULL | NUMBER       | Line number of the charge   |
| INVENTORY_ITEM_ID          | NULL     | NUMBER(15)   | Product used in inventory by the charge line  |
| SERIAL_NUMBER              | NULL     | VARCHAR2(30) | Serial number of the returned product   |
| TXN_BILLING_TYPE_ID        | NULL     | NUMBER(15)   | Transaction Billing Type  |
| QUANTITY_REQUIRED          | NULL     | NUMBER       | Quantity of the product used  |
| UNIT_OF_MEASURE_CODE       | NULL     | VARCHAR2(3)  | UOM of the product  |
| SELLING_PRICE              | NULL     | NUMBER       | Selling price of product in Order Management  |
| AFTER_WARRANTY_COST        | NULL     | NUMBER       | Cost after applying contract coverages or manual discounts                                |
| FUNC_CURR_AFT_WARR_COST    | NULL     | NUMBER(15)   | Cost in Functional Currency if the currency code selected is not a functional currency    |
| CUSTOMER_PRODUCT_ID        | NOT NULL | NUMBER(15)   | Installed base reference, if any, for the product chosen; needed for certain transactions |
| ORIG_SYSTEM_REFERENCE      | NULL     | VARCHAR2(50) | Not Used  |
| ORIG_SYSTEM_LINE_REFERENCE | NULL     | VARCHAR2(50) | Not Used  |

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|                             |      |               |   |
|-----------------------------|------|---------------|---|
| INSTALLED_CP_RETURN_BY_DATE | NULL | DATE          | Expected return date for the installed product  |
| NEW_CP_RETURN_BY_DATE       | NULL | DATE          | Expected return date for the new product  |
| INTERFACE_TO_OE_FLAG        | NULL | VARCHAR2(1)   | Indicates whether line has been interfaced to Order Entry/Shipping for sales order creation   |
| ROLLUP_FLAG                 | NULL | VARCHAR2(1)   | Indicates whether the item used should be rolled up to an item defined in a profile option for that item type- Material, Labor, Expense |
| ADD_TO_ORDER_FLAG           | NULL | VARCHAR2(1)   | Indicates whether the line is to be added to an existing order or a new order   |
| PRICING_CONTEXT             | NULL | VARCHAR2(30)  | Pricing Attributes descriptive flexfield structure defining column  |
| COVERAGE_BILL_RATE_ID       | NULL | NUMBER(15)    | Bill rate for the coverage being used. Only in conjunction with contracts   |
| EXCEPTION_COVERAGE_USED     | NULL | VARCHAR2(1)   | Flag which identifies whether exception coverage is used  |
| PRICING_ATTRIBUTE1          | NULL | VARCHAR2(150) | Pricing Attributes descriptive flexfield segment  |
| PRICING_ATTRIBUTE2          | NULL | VARCHAR2(150) | Pricing Attributes descriptive flexfield segment  |
| PRICING_ATTRIBUTE3          | NULL | VARCHAR2(150) | Pricing Attributes descriptive flexfield segment  |
| PRICING_ATTRIBUTE4          | NULL | VARCHAR2(150) | Pricing Attributes descriptive flexfield segment  |
| PRICING_ATTRIBUTE5          | NULL | VARCHAR2(150) | Pricing Attributes descriptive flexfield segment  |
| PRICING_ATTRIBUTE6          | NULL | VARCHAR2(150) | Pricing Attributes descriptive flexfield segment  |
| PRICING_ATTRIBUTE7          | NULL | VARCHAR2(150) | Pricing Attributes descriptive flexfield segment  |
| PRICING_ATTRIBUTE8          | NULL | VARCHAR2(150) | Pricing Attributes descriptive flexfield segment  |
| PRICING_ATTRIBUTE9          | NULL | VARCHAR2(150) | Pricing Attributes descriptive flexfield segment  |
| PRICING_ATTRIBUTE10         | NULL | VARCHAR2(150) | Pricing Attributes descriptive flexfield segment  |
| PRICING_ATTRIBUTE11         | NULL | VARCHAR2(150) | Pricing Attributes descriptive flexfield segment  |
| PRICING_ATTRIBUTE12         | NULL | VARCHAR2(150) | Pricing Attributes descriptive flexfield segment  |
| PRICING_ATTRIBUTE13         | NULL | VARCHAR2(150) | Pricing Attributes descriptive flexfield segment  |
| PRICING_ATTRIBUTE14         | NULL | VARCHAR2(150) | Pricing Attributes descriptive flexfield segment  |
| PRICING_ATTRIBUTE15         | NULL | VARCHAR2(150) | Pricing Attributes descriptive flexfield segment  |
| ATTRIBUTE1                  | NULL | VARCHAR2(150) | Descriptive flexfield segment   |
| ATTRIBUTE2                  | NULL | VARCHAR2(150) | Descriptive flexfield segment   |
| ATTRIBUTE3                  | NULL | VARCHAR2(150) | Descriptive flexfield segment   |
| ATTRIBUTE4                  | NULL | VARCHAR2(150) | Descriptive flexfield segment   |
| ATTRIBUTE5                  | NULL | VARCHAR2(150) | Descriptive flexfield segment   |
| ATTRIBUTE6                  | NULL | VARCHAR2(150) | Descriptive flexfield segment   |
| ATTRIBUTE7                  | NULL | VARCHAR2(150) | Descriptive flexfield segment   |
| ATTRIBUTE8                  | NULL | VARCHAR2(150) | Descriptive flexfield segment   |
| ATTRIBUTE9                  | NULL | VARCHAR2(150) | Descriptive flexfield segment   |

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|                       |          |               |  |
|-----------------------|----------|---------------|--|
| ATTRIBUTE10           | NULL     | VARCHAR2(150) | Descriptive flexfield segment                    |
| ATTRIBUTE11           | NULL     | VARCHAR2(150) | Descriptive flexfield segment                    |
| ATTRIBUTE12           | NULL     | VARCHAR2(150) | Descriptive flexfield segment                    |
| ATTRIBUTE13           | NULL     | VARCHAR2(150) | Descriptive flexfield segment                    |
| ATTRIBUTE14           | NULL     | VARCHAR2(150) | Descriptive flexfield segment                    |
| ATTRIBUTE15           | NULL     | VARCHAR2(150) | Descriptive flexfield segment                    |
| CONTEXT               | NULL     | VARCHAR2(30)  | Descriptive flexfield structure defining column  |
| TAX_CODE              | NULL     | VARCHAR2(30)  |  |
| EST_TAX_AMOUNT        | NULL     | NUMBER(15)    |  |
| LAST_UPDATE_DATE      | NOT NULL | DATE          | Standard Who column                              |
| LAST_UPDATE_LOGIN     | NULL     | NUMBER(15)    | Standard Who column                              |
| LAST_UPDATED_BY       | NOT NULL | NUMBER(15)    | Standard Who column                              |
| CREATION_DATE         | NOT NULL | DATE          | Standard Who column                              |
| CREATED_BY            | NOT NULL | NUMBER(15)    | Standard Who column                              |
| OBJECT_VERSION_NUMBER | NOT NULL | NUMBER        | Object Version Number                            |
| PRICING_ATTRIBUTE16   | NULL     | VARCHAR2(150) | Pricing Attributes descriptive flexfield segment |
| PRICING_ATTRIBUTE17   | NULL     | VARCHAR2(150) | Pricing Attributes descriptive flexfield segment |
| PRICING_ATTRIBUTE18   | NULL     | VARCHAR2(150) | Pricing Attributes descriptive flexfield segment |
| PRICING_ATTRIBUTE19   | NULL     | VARCHAR2(150) | Pricing Attributes descriptive flexfield segment |
| PRICING_ATTRIBUTE20   | NULL     | VARCHAR2(150) | Pricing Attributes descriptive flexfield segment |
| PRICING_ATTRIBUTE21   | NULL     | VARCHAR2(150) | Pricing Attributes descriptive flexfield segment |
| PRICING_ATTRIBUTE22   | NULL     | VARCHAR2(150) | Pricing Attributes descriptive flexfield segment |
| PRICING_ATTRIBUTE23   | NULL     | VARCHAR2(150) | Pricing Attributes descriptive flexfield segment |
| PRICING_ATTRIBUTE24   | NULL     | VARCHAR2(150) | Pricing Attributes descriptive flexfield segment |
| PRICING_ATTRIBUTE25   | NULL     | VARCHAR2(150) | Pricing Attributes descriptive flexfield segment |
| PRICING_ATTRIBUTE26   | NULL     | VARCHAR2(150) | Pricing Attributes descriptive flexfield segment |
| PRICING_ATTRIBUTE27   | NULL     | VARCHAR2(150) | Pricing Attributes descriptive flexfield segment |
| PRICING_ATTRIBUTE28   | NULL     | VARCHAR2(150) | Pricing Attributes descriptive flexfield segment |
| PRICING_ATTRIBUTE29   | NULL     | VARCHAR2(150) | Pricing Attributes descriptive flexfield segment |
| PRICING_ATTRIBUTE30   | NULL     | VARCHAR2(150) | Pricing Attributes descriptive flexfield segment |
| PRICING_ATTRIBUTE31   | NULL     | VARCHAR2(150) | Pricing Attributes descriptive flexfield segment |
| PRICING_ATTRIBUTE32   | NULL     | VARCHAR2(150) | Pricing Attributes descriptive flexfield segment |
| PRICING_ATTRIBUTE33   | NULL     | VARCHAR2(150) | Pricing Attributes descriptive flexfield segment |
| PRICING_ATTRIBUTE34   | NULL     | VARCHAR2(150) | Pricing Attributes descriptive flexfield segment |
| PRICING_ATTRIBUTE35   | NULL     | VARCHAR2(150) | Pricing Attributes descriptive flexfield segment |
| PRICING_ATTRIBUTE36   | NULL     | VARCHAR2(150) | Pricing Attributes descriptive flexfield segment |
| PRICING_ATTRIBUTE37   | NULL     | VARCHAR2(150) | Pricing Attributes descriptive flexfield segment |
| PRICING_ATTRIBUTE38   | NULL     | VARCHAR2(150) | Pricing Attributes descriptive flexfield segment |

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|                     |      |               |                    |                               |
|---------------------|------|---------------|--------------------|-------------------------------|
| PRICING_ATTRIBUTE39 | NULL | VARCHAR2(150) | Pricing Attributes | descriptive flexfield segment |
| PRICING_ATTRIBUTE40 | NULL | VARCHAR2(150) | Pricing Attributes | descriptive flexfield segment |
| PRICING_ATTRIBUTE41 | NULL | VARCHAR2(150) | Pricing Attributes | descriptive flexfield segment |
| PRICING_ATTRIBUTE42 | NULL | VARCHAR2(150) | Pricing Attributes | descriptive flexfield segment |
| PRICING_ATTRIBUTE43 | NULL | VARCHAR2(150) | Pricing Attributes | descriptive flexfield segment |
| PRICING_ATTRIBUTE44 | NULL | VARCHAR2(150) | Pricing Attributes | descriptive flexfield segment |
| PRICING_ATTRIBUTE45 | NULL | VARCHAR2(150) | Pricing Attributes | descriptive flexfield segment |
| PRICING_ATTRIBUTE46 | NULL | VARCHAR2(150) | Pricing Attributes | descriptive flexfield segment |
| PRICING_ATTRIBUTE47 | NULL | VARCHAR2(150) | Pricing Attributes | descriptive flexfield segment |
| PRICING_ATTRIBUTE48 | NULL | VARCHAR2(150) | Pricing Attributes | descriptive flexfield segment |
| PRICING_ATTRIBUTE49 | NULL | VARCHAR2(150) | Pricing Attributes | descriptive flexfield segment |
| PRICING_ATTRIBUTE50 | NULL | VARCHAR2(150) | Pricing Attributes | descriptive flexfield segment |
| PRICING_ATTRIBUTE51 | NULL | VARCHAR2(150) | Pricing Attributes | descriptive flexfield segment |
| PRICING_ATTRIBUTE52 | NULL | VARCHAR2(150) | Pricing Attributes | descriptive flexfield segment |
| PRICING_ATTRIBUTE53 | NULL | VARCHAR2(150) | Pricing Attributes | descriptive flexfield segment |
| PRICING_ATTRIBUTE54 | NULL | VARCHAR2(150) | Pricing Attributes | descriptive flexfield segment |
| PRICING_ATTRIBUTE55 | NULL | VARCHAR2(150) | Pricing Attributes | descriptive flexfield segment |
| PRICING_ATTRIBUTE56 | NULL | VARCHAR2(150) | Pricing Attributes | descriptive flexfield segment |
| PRICING_ATTRIBUTE57 | NULL | VARCHAR2(150) | Pricing Attributes | descriptive flexfield segment |
| PRICING_ATTRIBUTE58 | NULL | VARCHAR2(150) | Pricing Attributes | descriptive flexfield segment |
| PRICING_ATTRIBUTE59 | NULL | VARCHAR2(150) | Pricing Attributes | descriptive flexfield segment |
| PRICING_ATTRIBUTE61 | NULL | VARCHAR2(150) | Pricing Attributes | descriptive flexfield segment |
| PRICING_ATTRIBUTE62 | NULL | VARCHAR2(150) | Pricing Attributes | descriptive flexfield segment |
| PRICING_ATTRIBUTE63 | NULL | VARCHAR2(150) | Pricing Attributes | descriptive flexfield segment |
| PRICING_ATTRIBUTE64 | NULL | VARCHAR2(150) | Pricing Attributes | descriptive flexfield segment |
| PRICING_ATTRIBUTE65 | NULL | VARCHAR2(150) | Pricing Attributes | descriptive flexfield segment |
| PRICING_ATTRIBUTE66 | NULL | VARCHAR2(150) | Pricing Attributes | descriptive flexfield segment |
| PRICING_ATTRIBUTE67 | NULL | VARCHAR2(150) | Pricing Attributes | descriptive flexfield segment |
| PRICING_ATTRIBUTE68 | NULL | VARCHAR2(150) | Pricing Attributes | descriptive flexfield segment |
| PRICING_ATTRIBUTE69 | NULL | VARCHAR2(150) | Pricing Attributes | descriptive flexfield segment |
| PRICING_ATTRIBUTE70 | NULL | VARCHAR2(150) | Pricing Attributes | descriptive flexfield segment |
| PRICING_ATTRIBUTE71 | NULL | VARCHAR2(150) | Pricing Attributes | descriptive flexfield segment |

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|                      |      |               |  |
|----------------------|------|---------------|--|
| PRICING_ATTRIBUTE72  | NULL | VARCHAR2(150) | Pricing Attributes descriptive flexfield segment |
| PRICING_ATTRIBUTE73  | NULL | VARCHAR2(150) | Pricing Attributes descriptive flexfield segment |
| PRICING_ATTRIBUTE74  | NULL | VARCHAR2(150) | Pricing Attributes descriptive flexfield segment |
| PRICING_ATTRIBUTE75  | NULL | VARCHAR2(150) | Pricing Attributes descriptive flexfield segment |
| PRICING_ATTRIBUTE76  | NULL | VARCHAR2(150) | Pricing Attributes descriptive flexfield segment |
| PRICING_ATTRIBUTE77  | NULL | VARCHAR2(150) | Pricing Attributes descriptive flexfield segment |
| PRICING_ATTRIBUTE78  | NULL | VARCHAR2(150) | Pricing Attributes descriptive flexfield segment |
| PRICING_ATTRIBUTE79  | NULL | VARCHAR2(150) | Pricing Attributes descriptive flexfield segment |
| PRICING_ATTRIBUTE80  | NULL | VARCHAR2(150) | Pricing Attributes descriptive flexfield segment |
| PRICING_ATTRIBUTE81  | NULL | VARCHAR2(150) | Pricing Attributes descriptive flexfield segment |
| PRICING_ATTRIBUTE82  | NULL | VARCHAR2(150) | Pricing Attributes descriptive flexfield segment |
| PRICING_ATTRIBUTE83  | NULL | VARCHAR2(150) | Pricing Attributes descriptive flexfield segment |
| PRICING_ATTRIBUTE84  | NULL | VARCHAR2(150) | Pricing Attributes descriptive flexfield segment |
| PRICING_ATTRIBUTE85  | NULL | VARCHAR2(150) | Pricing Attributes descriptive flexfield segment |
| PRICING_ATTRIBUTE86  | NULL | VARCHAR2(150) | Pricing Attributes descriptive flexfield segment |
| PRICING_ATTRIBUTE87  | NULL | VARCHAR2(150) | Pricing Attributes descriptive flexfield segment |
| PRICING_ATTRIBUTE88  | NULL | VARCHAR2(150) | Pricing Attributes descriptive flexfield segment |
| PRICING_ATTRIBUTE89  | NULL | VARCHAR2(150) | Pricing Attributes descriptive flexfield segment |
| PRICING_ATTRIBUTE90  | NULL | VARCHAR2(150) | Pricing Attributes descriptive flexfield segment |
| PRICING_ATTRIBUTE91  | NULL | VARCHAR2(150) | Pricing Attributes descriptive flexfield segment |
| PRICING_ATTRIBUTE92  | NULL | VARCHAR2(150) | Pricing Attributes descriptive flexfield segment |
| PRICING_ATTRIBUTE93  | NULL | VARCHAR2(150) | Pricing Attributes descriptive flexfield segment |
| PRICING_ATTRIBUTE94  | NULL | VARCHAR2(150) | Pricing Attributes descriptive flexfield segment |
| PRICING_ATTRIBUTE95  | NULL | VARCHAR2(150) | Pricing Attributes descriptive flexfield segment |
| PRICING_ATTRIBUTE96  | NULL | VARCHAR2(150) | Pricing Attributes descriptive flexfield segment |
| PRICING_ATTRIBUTE97  | NULL | VARCHAR2(150) | Pricing Attributes descriptive flexfield segment |
| PRICING_ATTRIBUTE98  | NULL | VARCHAR2(150) | Pricing Attributes descriptive flexfield segment |
| PRICING_ATTRIBUTE99  | NULL | VARCHAR2(150) | Pricing Attributes descriptive flexfield segment |
| PRICING_ATTRIBUTE100 | NULL | VARCHAR2(150) | Pricing Attributes descriptive flexfield segment |
| PRICING_ATTRIBUTE60  | NULL | VARCHAR2(150) | Pricing Attributes descriptive flexfield segment |

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### Indexes

| Index Name             | Index Type | Sequence | Column Name           |
|------------------------|------------|----------|-----------------------|
| CS_ESTIMATE_DETAILS_N1 | NOT UNIQUE | 10       | INCIDENT_ID           |
| CS_ESTIMATE_DETAILS_N2 | NOT UNIQUE | 2        | ORIG_SYSTEM_REFERENCE |
| CS_ESTIMATE_DETAILS_U1 | UNIQUE     | 2        | ESTIMATE_DETAIL_ID    |

### Sequences

| Sequence              | Derived Column     |
|-----------------------|--------------------|
| CS_ESTIMATE_DETAILS_S | ESTIMATE_DETAIL_ID |

## CS\_INCIDENTS\_ALL\_B

CS\_INCIDENTS\_ALL\_B stores information about service requests. A service request can be logged against any product, any product in inventory, or any product in the install base. Each row contains information about a single service request. This table is partitioned by ORG\_ID in a multi-organizational environment. This is the multi-language support base table and contains all of the fields from this table that are not translatable.

### Foreign Keys

| Primary Key Table           | Primary Key Column   | Foreign Key Column         |
|-----------------------------|----------------------|----------------------------|
| CSS_DEF_LANGUAGES           | LANGUAGE_ID          | LANGUAGE_ID                |
| CSS_DEF_PLATFORMS           | PLATFORM_ID          | PLATFORM_ID                |
| CSS_DEF_PLAT_VERSIONS       | PLATFORM_VERSION_ID  | PLATFORM_VERSION_ID        |
| CS_CP_REVISIONS             | CP_REVISION_ID       | CP_COMPONENT_VERSION_ID    |
| CS_CP_REVISIONS             | CP_REVISION_ID       | CP_SUBCOMPONENT_VERSION_ID |
| CS_CP_REVISIONS             | CP_REVISION_ID       | CP_REVISION_ID             |
| CS_CP_SERVICES_ALL_OBSOLETE | CP_SERVICE_ID        | CONTRACT_SERVICE_ID        |
| CS_CUSTOMER_PRODUCTS_ALL    | CUSTOMER_PRODUCT_ID  | CUSTOMER_PRODUCT_ID        |
| CS_CUSTOMER_PRODUCTS_ALL    | CUSTOMER_PRODUCT_ID  | CP_COMPONENT_ID            |
| CS_CUSTOMER_PRODUCTS_ALL    | CUSTOMER_PRODUCT_ID  | CP_SUBCOMPONENT_ID         |
| CS_INCIDENT_SEVERITIES_B    | INCIDENT_SEVERITY_ID | INCIDENT_SEVERITY_ID       |
| CS_INCIDENT_STATUSES_B      | INCIDENT_STATUS_ID   | INCIDENT_STATUS_ID         |
| CS_INCIDENT_TYPES_B         | INCIDENT_TYPE_ID     | INCIDENT_TYPE_ID           |
| CS_INCIDENT_URGENCIES_B     | INCIDENT_URGENCY_ID  | INCIDENT_URGENCY_ID        |
| CS_TIME_ZONES               | TIME_ZONE_ID         | TIME_ZONE_ID               |
| FND_LOOKUP_VALUES           | LOOKUP_CODE          | PROBLEM_CODE               |
| FND_LOOKUP_VALUES           | LOOKUP_CODE          | RESOLUTION_CODE            |
| HZ_CUST_ACCOUNTS            | ORG_ID               | ORG_ID                     |
|                             | CUST_ACCOUNT_ID      | ACCOUNT_ID                 |
| HZ_CUST_ACCOUNTS            | CUST_ACCOUNT_ID      | ACCOUNT_ID                 |
| HZ_CUST_SITE_USES_ALL       | SITE_USE_ID          | BILL_TO_SITE_USE_ID        |
| HZ_CUST_SITE_USES_ALL       | SITE_USE_ID          | SHIP_TO_SITE_USE_ID        |
| HZ_CUST_SITE_USES_ALL       | SITE_USE_ID          | INSTALL_SITE_USE_ID        |
| HZ_PARTIES                  | PARTY_ID             | CUSTOMER_ID                |
| HZ_PARTIES                  | PARTY_ID             | BILL_TO_CONTACT_ID         |
| HZ_PARTIES                  | PARTY_ID             | SHIP_TO_CONTACT_ID         |
| HZ_PARTY_SITE_USES          | PARTY_SITE_ID        | SITE_ID                    |
| HZ_PARTY_SITE_USES          | PARTY_SITE_ID        | CUSTOMER_SITE_ID           |
| HZ_TIMEZONES                | TIMEZONE_ID          | TIME_ZONE_ID               |
| JTF_RESOURCES_V             | RESOURCE_NUMBER      | INCIDENT_OWNER_ID          |
| JTF_RESOURCE_SUBTYPES_B     | RESOURCE_SUBTYPE_ID  | RESOURCE_SUBTYPE_ID        |
| JTF_RS_GROUPS_B             | GROUP_ID             | INCIDENT_OWNER_ID          |
| JTF_RS_RESOURCE_EXTNS       | RESOURCE_ID          | INCIDENT_OWNER_ID          |
| JTF_RS_TEAMS_B              | TEAM_ID              | INCIDENT_OWNER_ID          |
| JTF_TERR_RSC_ALL            | RESOURCE_ID          | INCIDENT_OWNER_ID          |
|                             | TERR_ID              | TERRITORY_ID               |
| MTL_SYSTEM_ITEMS_B          | INVENTORY_ITEM_ID    | INVENTORY_ITEM_ID          |
| MTL_SYSTEM_ITEMS_B          | INVENTORY_ITEM_ID    | INV_COMPONENT_ID           |
| MTL_SYSTEM_ITEMS_B          | INVENTORY_ITEM_ID    | INV_SUBCOMPONENT_ID        |
| OKC_K_LINES_B               | ID                   | CONTRACT_SERVICE_ID        |
| PER_ALL_PEOPLE_F            | PERSON_ID            | EMPLOYEE_ID                |
| QA_PLANS                    | PLAN_ID              | QA_COLLECTION_ID           |

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#### QuickCodes Columns

| Column          | QuickCodes Type         | QuickCodes Table |
|-----------------|-------------------------|------------------|
| PROBLEM_CODE    | REQUEST_PROBLEM_CODE    | CS_LOOKUPS       |
| RESOLUTION_CODE | REQUEST_RESOLUTION_CODE | CS_LOOKUPS       |

#### Column Descriptions

| Name                     | Null?    | Type         | Description   |
|--------------------------|----------|--------------|---|
| INCIDENT_ID (PK)         | NOT NULL | NUMBER(15)   | Service request identifier  |
| LAST_UPDATE_DATE         | NOT NULL | DATE         | Standard Who column   |
| LAST_UPDATED_BY          | NOT NULL | NUMBER(15)   | Standard Who column - with the user id from FND_USER  |
| CREATION_DATE            | NOT NULL | DATE         | Standard Who column   |
| CREATED_BY               | NOT NULL | NUMBER(15)   | Standard Who column - with the user id from FND_USER  |
| LAST_UPDATE_LOGIN        |          | NUMBER(15)   | Standard Who column   |
| INCIDENT_NUMBER          | NOT NULL | VARCHAR2(64) | Service request number  |
| INCIDENT_DATE            |          | DATE         | Service request date  |
| INCIDENT_STATUS_ID       | NOT NULL | NUMBER(15)   | Identifier for service request status   |
| INCIDENT_TYPE_ID         | NOT NULL | NUMBER(15)   | Identifier for service request type   |
| INCIDENT_URGENCY_ID      |          | NUMBER(15)   | Identifier for service request urgency  |
| INCIDENT_SEVERITY_ID     | NOT NULL | NUMBER(15)   | Identifier for service request severity   |
| INCIDENT_OWNER_ID        | NOT NULL | NUMBER(15)   | Identifier for the owner of the service request   |
| RESOURCE_TYPE            |          | VARCHAR2(30) | Identifier for the owner type of the service request. The owner type could be an Employee, a Group or a Team. |
| RESOURCE_SUBTYPE_ID      |          | NUMBER       | Not used.   |
| INVENTORY_ITEM_ID        |          | NUMBER(15)   | Item identifier   |
| CUSTOMER_ID              |          | NUMBER(15)   | Customer identifier   |
| ACCOUNT_ID               |          | NUMBER       | Account Identifier  |
| BILL_TO_SITE_USE_ID      |          | NUMBER(15)   | Identifier for bill-to site use   |
| PURCHASE_ORDER_NUM       |          | VARCHAR2(50) | Purchase order number   |
| EMPLOYEE_ID              |          | NUMBER(15)   | Identifier for the employee if the service request is made by an employee                                     |
| FILED_BY_EMPLOYEE_FLAG   |          | VARCHAR2(1)  | Indicates whether the request was made by an employee   |
| SHIP_TO_SITE_USE_ID      |          | NUMBER(15)   | Identifier for ship- to site use  |
| PROBLEM_CODE             |          | VARCHAR2(50) | Problem code  |
| EXPECTED_RESOLUTION_DATE |          | DATE         | Expected date for the problem resolution  |
| ACTUAL_RESOLUTION_DATE   |          | DATE         | Actual date of resolution   |
| CUSTOMER_PRODUCT_ID      |          | NUMBER(15)   | Customer product identifier   |
| INSTALL_SITE_USE_ID      |          | NUMBER(15)   | Identifier for installed site use   |
| BILL_TO_CONTACT_ID       |          | NUMBER(15)   | Bill-to contact identifier  |
| SHIP_TO_CONTACT_ID       |          | NUMBER(15)   | Ship-to contact identifier  |
| CURRENT_SERIAL_NUMBER    |          | VARCHAR2(30) | Product serial number for product not in installed base   |
| CUSTOMER_NUMBER          |          | VARCHAR2(30) | Customer number for non-verified requests   |
| SYSTEM_ID                |          | NUMBER(15)   | Not used  |

|                          |      |               |   |
|--------------------------|------|---------------|---|
| INCIDENT_ATTRIBUTE_1     | NULL | VARCHAR2(150) | Descriptive flexfield segment column  |
| INCIDENT_ATTRIBUTE_2     | NULL | VARCHAR2(150) | Descriptive flexfield segment column  |
| INCIDENT_ATTRIBUTE_3     | NULL | VARCHAR2(150) | Descriptive flexfield segment column  |
| INCIDENT_ATTRIBUTE_4     | NULL | VARCHAR2(150) | Descriptive flexfield segment column  |
| INCIDENT_ATTRIBUTE_5     | NULL | VARCHAR2(150) | Descriptive flexfield segment column  |
| INCIDENT_ATTRIBUTE_6     | NULL | VARCHAR2(150) | Descriptive flexfield segment column  |
| INCIDENT_ATTRIBUTE_7     | NULL | VARCHAR2(150) | Descriptive flexfield segment column  |
| INCIDENT_ATTRIBUTE_8     | NULL | VARCHAR2(150) | Descriptive flexfield segment column  |
| INCIDENT_ATTRIBUTE_9     | NULL | VARCHAR2(150) | Descriptive flexfield segment column  |
| INCIDENT_ATTRIBUTE_10    | NULL | VARCHAR2(150) | Descriptive flexfield segment column  |
| INCIDENT_ATTRIBUTE_11    | NULL | VARCHAR2(150) | Descriptive flexfield segment column  |
| INCIDENT_ATTRIBUTE_12    | NULL | VARCHAR2(150) | Descriptive flexfield segment column  |
| INCIDENT_ATTRIBUTE_13    | NULL | VARCHAR2(150) | Descriptive flexfield segment column  |
| INCIDENT_ATTRIBUTE_14    | NULL | VARCHAR2(150) | Descriptive flexfield segment column  |
| INCIDENT_ATTRIBUTE_15    | NULL | VARCHAR2(150) | Descriptive flexfield segment column  |
| INCIDENT_CONTEXT         | NULL | VARCHAR2(30)  | Descriptive flexfield structure defining column   |
| RECORD_IS_VALID_FLAG     | NULL | VARCHAR2(1)   | Flag to denote if the service request is verified or not  |
| RESOLUTION_CODE          | NULL | VARCHAR2(50)  | Problem resolution quick code   |
| ORG_ID                   | NULL | NUMBER        | Operating unit identifier   |
| ORIGINAL_ORDER_NUMBER    | NULL | NUMBER        | Order number for the product if installed base is not used                                      |
| WORKFLOW_PROCESS_ID      | NULL | NUMBER        | Sequence number used for this action's last workflow process                                    |
| CLOSE_DATE               | NULL | DATE          | Date the service request is closed  |
| PUBLISH_FLAG             | NULL | VARCHAR2(1)   | Flag to denote whether the service request is published or not.                                 |
| INTERFACED_TO_DEPOT_FLAG | NULL | VARCHAR2(1)   | Flag to denote service request is linked to repairs   |
| QA_COLLECTION_ID         | NULL | NUMBER        | Foreign key to Quality results table  |
| CONTRACT_SERVICE_ID      | NULL | NUMBER        | Service line unique identifier  |
| KB_TYPE                  | NULL | VARCHAR2(15)  | Not used.   |
| KB_SOLUTION_ID           | NULL | VARCHAR2(240) | External knowledge base solution identifier.  |
| TIME_ZONE_ID             | NULL | NUMBER(15)    | This field stores the time zone id of the time zone specified in the field service request form |
| TIME_DIFFERENCE          | NULL | NUMBER        | GMT offset of the contact person's time.  |
| CUSTOMER_PO_NUMBER       | NULL | VARCHAR2(50)  | Customers Purchase Order number.  |
| OWNER_GROUP_ID           | NULL | NUMBER        | Not used  |

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|                            |          |              |   |
|----------------------------|----------|--------------|---|
| CUSTOMER_TICKET_NUMBER     | NULL     | VARCHAR2(50) | Customer's internal helpdesk tracking number.   |
| OBLIGATION_DATE            | NULL     | DATE         | Obligation Date   |
| SITE_ID                    | NULL     | NUMBER       | Identifier for Support Site.  |
| CUSTOMER_SITE_ID           | NULL     | NUMBER       | Identifier for Customer Site.   |
| CALLER_TYPE                | NOT NULL | VARCHAR2(30) | Type of the Calling Party. It could be an Organization, Person, Employee.                           |
| PLATFORM_VERSION_ID        | NULL     | NUMBER       | Identifier for Platform Version.  |
| OBJECT_VERSION_NUMBER      | NULL     | NUMBER(9)    | Sequential number used for database locking control when using HTML as a user interface             |
| CP_COMPONENT_ID            | NULL     | NUMBER       | Identifier for Installed Base Component.  |
| CP_COMPONENT_VERSION_ID    | NULL     | NUMBER       | Identifier for Installed Base Component Revision.   |
| CP_SUBCOMPONENT_ID         | NULL     | NUMBER       | Identifier for Installed Base Subcomponent.   |
| CP_SUBCOMPONENT_VERSION_ID | NULL     | NUMBER       | Identifier for Installed Base Subcomponent Revision.  |
| PLATFORM_ID                | NULL     | NUMBER       | Identifier for Platform.  |
| LANGUAGE_ID                | NULL     | NUMBER       | Identifier for the Product's Language.  |
| TERRITORY_ID               | NULL     | NUMBER       | Identifier for the Territory of the Service Request.  |
| CP_REVISION_ID             | NULL     | NUMBER       | Identifier for Installed Base Product Revision.   |
| INV_ITEM_REVISION          | NULL     | VARCHAR2(3)  | Identifier for the Item Revision for a product not in Installed Base.                               |
| INV_COMPONENT_ID           | NULL     | NUMBER       | Identifier for the Component for a product not in Installed Base.                                   |
| INV_COMPONENT_VERSION      | NULL     | VARCHAR2(3)  | Identifier for the Component Revision for a product not in Installed Base.                          |
| INV_SUBCOMPONENT_ID        | NULL     | NUMBER       | Identifier for the Subcomponent for a product not in Installed Base.                                |
| INV_SUBCOMPONENT_VERSION   | NULL     | VARCHAR2(3)  | Identifier for the Subcomponent Revision for a product not in Installed Base.                       |
| PROJECT_ID                 | NULL     | NUMBER       | This column is not currently used.  |
| TASK_ID                    | NULL     | NUMBER       | This column is not currently used.  |
| INV_ORGANIZATION_ID        | NULL     | NUMBER       | This field stores the inventory organization id based on the profile<br>AS_PRODUCT_ORGANIZATION_ID. |

#### Indexes

| Index Name       | Index Type | Sequence | Column Name              |
|------------------|------------|----------|--------------------------|
| CS_INCIDENTS_N1  | NOT UNIQUE | 4        | INVENTORY_ITEM_ID        |
| CS_INCIDENTS_N12 | NOT UNIQUE | 2        | CLOSE_DATE               |
|                  |            | 5        | EXPECTED_RESOLUTION_DATE |
| CS_INCIDENTS_N13 | NOT UNIQUE | 2        | EXPECTED_RESOLUTION_DATE |
|                  |            | 5        | CLOSE_DATE               |
| CS_INCIDENTS_N2  | NOT UNIQUE | 2        | CUSTOMER_ID              |
| CS_INCIDENTS_N3  | NOT UNIQUE | 2        | INCIDENT_OWNER_ID        |
| CS_INCIDENTS_N4  | NOT UNIQUE | 1        | INCIDENT_STATUS_ID       |

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|                 |            |   |                      |
|-----------------|------------|---|----------------------|
| CS_INCIDENTS_N5 | NOT UNIQUE | 1 | INCIDENT_TYPE_ID     |
| CS_INCIDENTS_N6 | NOT UNIQUE | 1 | INCIDENT_URGENCY_ID  |
| CS_INCIDENTS_N7 | NOT UNIQUE | 1 | INCIDENT_SEVERITY_ID |
| CS_INCIDENTS_N8 | NOT UNIQUE | 1 | CUSTOMER_PRODUCT_ID  |
| CS_INCIDENTS_N9 | NOT UNIQUE | 1 | INCIDENT_DATE        |
| CS_INCIDENTS_U1 | UNIQUE     | 5 | INCIDENT_ID          |
| CS_INCIDENTS_U2 | UNIQUE     | 2 | INCIDENT_NUMBER      |

#### *Sequences*

| <u>Sequence</u>       | <u>Derived Column</u> |
|-----------------------|-----------------------|
| CS_INCIDENTS_S        | INCIDENT_ID           |
| CS_INCIDENTS_NUMBER_S | INCIDENT_NUMBER       |
| CS_WF_PROCESS_ID_S    | WORKFLOW_PROCESS_ID   |

## JTF\_IH\_INTERACTIONS

A contact point between a customer, customer system or potential customer and a single human or automated agent (Handler and Handler Resource). An Interaction can be timed and has an outcome and result that can be tracked. Multiple Interaction Activities can occur during an Interaction. A single Interaction can be can include multiple forms of communications (Media Items) between the customer and agent. An Interaction can be related to Customers, Campaigns, Users, Orders, Quotes, etc

### Foreign Keys

| Primary Key Table         | Primary Key Column      | Foreign Key Column    |
|---------------------------|-------------------------|-----------------------|
| AMS_SOURCE_CODES          | SOURCE_CODE_ID          | SOURCE_CODE_ID        |
| FND_APPLICATION           | APPLICATION_ID          | HANDLER_ID            |
| HZ_PARTIES                | PARTY_ID                | PARTY_ID              |
| JTF_IH_INTERACTION_INTERS | INTERACT_INTERACTION_ID | INTERACTION_INTERS_ID |
| JTF_IH_OUTCOMES_B         | OUTCOME_ID              | OUTCOME_ID            |
| JTF_IH_REASONS_B          | REASON_ID               | REASON_ID             |
| JTF_IH_RESULTS_B          | RESULT_ID               | RESULT_ID             |
| JTF_IH_SCRIPTS            | SCRIPT_ID               | SCRIPT_ID             |
| JTF_RS_RESOURCE_EXTNS     | RESOURCE_ID             | RESOURCE_ID           |

### Column Descriptions

| Name                  | Null?    | Type           | Description  |
|-----------------------|----------|----------------|--|
| INTERACTION_ID (PK)   | NOT NULL | NUMBER(15)     | Unique Interaction Identifier  |
| OBJECT_VERSION_NUMBER | NULL     | NUMBER(9)      | Sequential number used for database locking control when using HTML as a user interface. |
| CREATION_DATE         | NOT NULL | DATE           | Standard Who column  |
| CREATED_BY            | NOT NULL | NUMBER(15)     | Standard Who column - with the user id from FND_USER.                                    |
| LAST_UPDATE_DATE      | NOT NULL | DATE           | Standard Who column  |
| LAST_UPDATED_BY       | NOT NULL | NUMBER(15)     | Standard Who column - with the user id from FND_USER                                     |
| LAST_UPDATE_LOGIN     | NULL     | NUMBER(15)     | Standard Who column  |
| INTERACTION_INTERS_ID | NULL     | NUMBER         | Links Interactions   |
| OBJECT_ID             | NULL     | NUMBER         | The Primary Key for the Oracle Marketing table relating to the object type.              |
| OBJECT_TYPE           | NULL     | VARCHAR2(30)   | Oracle Marketing type of source code.  |
| SOURCE_CODE           | NULL     | VARCHAR2(30)   | Source Code provided by the customer   |
| SOURCE_CODE_ID        | NULL     | NUMBER         | Unique identifier for Marketing Source Code  |
| REFERENCE_FORM        | NULL     | VARCHAR2(1000) | Legacy column for 3i Interaction Manager   |
| DURATION              | NULL     | NUMBER         | The number of seconds that the interaction was active                                    |
| END_DATE_TIME         | NULL     | DATE           | The date and time the interaction ended  |
| FOLLOW_UP_ACTION      | NULL     | VARCHAR2(80)   | Legacy column for 3i Interaction Manager   |

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|                            |          |               |   |
|----------------------------|----------|---------------|---|
| NON_PRODUCTIVE_TIME_AMOUNT | NULL     | NUMBER        | The number of seconds the agent was considered non-productive since the end of the last interaction and end of the current interaction. |
| RESULT_ID                  | NULL     | NUMBER(15)    | Result Identifier   |
| REASON_ID                  | NULL     | NUMBER(15)    | Reason Identifier   |
| START_DATE_TIME            | NULL     | DATE          | The date and time the interaction started   |
| OUTCOME_ID                 | NOT NULL | NUMBER(15)    | Outcome Identifier  |
| PREVIEW_TIME_AMOUNT        | NULL     | NUMBER        | The number of seconds the agent previewed the interaction item before initiating the interaction  |
| PRODUCTIVE_TIME_AMOUNT     | NULL     | NUMBER        | The number of seconds the agent was considered productive since the end of the last interaction and end of the current interaction.     |
| HANDLER_ID                 | NOT NULL | NUMBER        | Handler Identifier from FND_APPLICATION   |
| INTER_INTERACTION_DURATION | NULL     | NUMBER        | The number of seconds between the end of the last interaction and the beginning of the current interaction                              |
| WRAP_UP_TIME_AMOUNT        | NULL     | NUMBER        | The number of seconds that agent spent on the interaction from the closing of the last media item to the conclusion of the interaction. |
| SCRIPT_ID                  | NULL     | NUMBER(15)    | Script Identifier   |
| PARTY_ID                   | NOT NULL | NUMBER(15)    | Party Identifier for Customer   |
| RESOURCE_ID                | NOT NULL | NUMBER        | Resource Identifier for Agent   |
| METHOD_CODE                | NULL     | VARCHAR2(30)  | Legacy column for 3i Interaction Manager  |
| ORG_ID                     | NULL     | NUMBER(32)    | Multi-Org   |
| ATTRIBUTE_CATEGORY         | NULL     | VARCHAR2(30)  | Descriptive Flexfield Structure Defining Column   |
| ATTRIBUTE1                 | NULL     | VARCHAR2(150) | Descriptive Flexfield Segment Column  |
| ATTRIBUTE2                 | NULL     | VARCHAR2(150) | Descriptive Flexfield Segment Column  |
| ATTRIBUTE3                 | NULL     | VARCHAR2(150) | Descriptive Flexfield Segment Column  |
| ATTRIBUTE4                 | NULL     | VARCHAR2(150) | Descriptive Flexfield Segment Column  |
| ATTRIBUTE5                 | NULL     | VARCHAR2(150) | Descriptive Flexfield Segment Column  |
| ATTRIBUTE6                 | NULL     | VARCHAR2(150) | Descriptive Flexfield Segment Column  |
| ATTRIBUTE7                 | NULL     | VARCHAR2(150) | Descriptive Flexfield Segment Column  |
| ATTRIBUTE8                 | NULL     | VARCHAR2(150) | Descriptive Flexfield Segment Column  |
| ATTRIBUTE9                 | NULL     | VARCHAR2(150) | Descriptive Flexfield Segment Column  |
| ATTRIBUTE10                | NULL     | VARCHAR2(150) | Descriptive Flexfield Segment Column  |
| ATTRIBUTE11                | NULL     | VARCHAR2(150) | Descriptive Flexfield Segment Column  |
| ATTRIBUTE12                | NULL     | VARCHAR2(150) | Descriptive Flexfield Segment Column  |
| ATTRIBUTE13                | NULL     | VARCHAR2(150) | Descriptive Flexfield Segment Column  |

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|             |          |               |                                       |
|-------------|----------|---------------|---------------------------------------|
| ATTRIBUTE14 | NULL     | VARCHAR2(150) | Decriptive Flexfield Segment Column   |
| ATTRIBUTE15 | NULL     | VARCHAR2(150) | Decriptive Flexfield Segment Column   |
| ACTIVE      | NOT NULL | VARCHAR2(1)   | Used for Interaction History caching. |

#### *Indexes*

| Index Name             | Index Type | Sequence | Column Name    |
|------------------------|------------|----------|----------------|
| JTF_IH_INTERACTIONS_N1 | NOT UNIQUE | 1        | RESULT_ID      |
| JTF_IH_INTERACTIONS_N2 | NOT UNIQUE | 1        | HANDLER_ID     |
| JTF_IH_INTERACTIONS_N3 | NOT UNIQUE | 1        | REASON_ID      |
| JTF_IH_INTERACTIONS_N4 | NOT UNIQUE | 1        | OUTCOME_ID     |
| JTF_IH_INTERACTIONS_N5 | NOT UNIQUE | 1        | SCRIPT_ID      |
| JTF_IH_INTERACTIONS_U1 | UNIQUE     | 1        | INTERACTION_ID |

#### *Sequences*

| Sequence               | Derived Column |
|------------------------|----------------|
| JTF_IH_INTERACTIONS_S1 | INTERACTION_ID |

## JTF\_NOTES\_B

JTF\_NOTES\_B stores all non-translated information about Notes. Notes may be created for any object mapped for object usage in JTF\_OBJECTS; the JTF\_OBJECT that the note is linked to is stored as the source\_object\_code and source\_object\_id. The actual text of the note, which is stored in the JTF\_NOTES\_TL, is split into two parts under columns NOTES and NOTE\_DETAILS. Typically, the NOTES should hold the short form or the first part of the note. NOTE\_DETAILS for added details, or whenever the note is longer than the 2000 character limit for the NOTES column. The NOTE\_STATUS flags the note as being personal (P), Internal (I), or Publish(E).

### Foreign Keys

| Primary Key Table  | Primary Key Column | Foreign Key Column |
|--------------------|--------------------|--------------------|
| AS_LEADS_ALL       | LEAD_ID            | SOURCE_OBJECT_ID   |
| AS_SALES_LEADS     | SALES_LEAD_ID      | SOURCE_OBJECT_ID   |
| CS_INCIDENTS_ALL_B | INCIDENT_ID        | SOURCE_OBJECT_ID   |
| FND_LOOKUP_VALUES  | LOOKUP_CODE        | NOTE_TYPE          |
| JTF_NOTES_B        | JTF_NOTE_ID        | PARENT_NOTE_ID     |
| JTF_OBJECTS_B      | OBJECT_CODE        | SOURCE_OBJECT_CODE |

### Column Descriptions

| Name               | Null?    | Type          | Description   |
|--------------------|----------|---------------|---|
| JTF_NOTE_ID (PK)   | NOT NULL | NUMBER        | Unique Note identifier (PK)   |
| PARENT_NOTE_ID     | NULL     | NUMBER        | Note id of the parent of the current note   |
| SOURCE_OBJECT_ID   | NOT NULL | NUMBER        | Primary Key of the source form.   |
| SOURCE_OBJECT_CODE | NOT NULL | VARCHAR2(240) | Identifies the source. Linked to the lookup code in the fnd lookups table where lookup_type = 'JTF_OBJECT_SOURCE_TYPE'        |
| LAST_UPDATE_DATE   | NOT NULL | DATE          | Standard WHO column   |
| LAST_UPDATED_BY    | NOT NULL | NUMBER(15)    | Standard WHO column   |
| CREATION_DATE      | NOT NULL | DATE          | Standard WHO column   |
| CREATED_BY         | NOT NULL | NUMBER(15)    | Standard WHO column   |
| LAST_UPDATE_LOGIN  | NULL     | NUMBER(15)    | Standard WHO column   |
| NOTE_STATUS        | NULL     | VARCHAR2(1)   | This flag determines whether the note is allowed to be published in the web or not.   |
| ENTERED_BY         | NOT NULL | NUMBER(15)    | The person who entered the note.  |
| ENTERED_DATE       | NOT NULL | DATE          | The date on which the note was entered.   |
| NOTE_TYPE          | NULL     | VARCHAR2(30)  | The type of the note. Normally user defined from the setup screen. Stored in fnd_lookups for the lookup type of JTF_NOTE_TYPE |
| ATTRIBUTE1         | NULL     | VARCHAR2(150) | Standard flex Field Column  |
| ATTRIBUTE2         | NULL     | VARCHAR2(150) | Standard flex Field Column  |
| ATTRIBUTE3         | NULL     | VARCHAR2(150) | Standard flex Field Column  |
| ATTRIBUTE4         | NULL     | VARCHAR2(150) | Standard flex Field Column  |
| ATTRIBUTE5         | NULL     | VARCHAR2(150) | Standard flex Field Column  |
| ATTRIBUTE6         | NULL     | VARCHAR2(150) | Standard flex Field Column  |

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|             |      |               |                            |
|-------------|------|---------------|----------------------------|
| ATTRIBUTE7  | NULL | VARCHAR2(150) | Standard flex Field Column |
| ATTRIBUTE8  | NULL | VARCHAR2(150) | Standard flex Field Column |
| ATTRIBUTE9  | NULL | VARCHAR2(150) | Standard flex Field Column |
| ATTRIBUTE10 | NULL | VARCHAR2(150) | Standard flex Field Column |
| ATTRIBUTE11 | NULL | VARCHAR2(150) | Standard flex Field Column |
| ATTRIBUTE12 | NULL | VARCHAR2(150) | Standard flex Field Column |
| ATTRIBUTE13 | NULL | VARCHAR2(150) | Standard flex Field Column |
| ATTRIBUTE14 | NULL | VARCHAR2(150) | Standard flex Field Column |
| ATTRIBUTE15 | NULL | VARCHAR2(150) | Standard flex Field Column |
| CONTEXT     | NULL | VARCHAR2(30)  | Standard flex Field Column |

#### *Indexes*

| <u>Index Name</u> | <u>Index Type</u> | <u>Sequence</u> | <u>Column Name</u> |
|-------------------|-------------------|-----------------|--------------------|
| CC_JT_FK_I        | NOT UNIQUE        | 1               | JTF_NOTE_ID        |
| JTF_NOTES_N1      | NOT UNIQUE        | 10              | SOURCE_OBJECT_CODE |
|                   |                   | 15              | SOURCE_OBJECT_ID   |

#### *Sequences*

| <u>Sequence</u> | <u>Derived Column</u> |
|-----------------|-----------------------|
| JTF_NOTES_S     | JTF_NOTE_ID           |

## JTF\_RS\_GROUPS\_B

Base Table JTF\_RS\_GROUPS\_B stores general information about a given Group.

### Column Descriptions

| Name                  | Null?    | Type          | Description  |
|-----------------------|----------|---------------|--|
| GROUP_ID (PK)         | NOT NULL | NUMBER        | Resource group unique identifier                     |
| GROUP_NUMBER          | NOT NULL | VARCHAR2(30)  | Group Number   |
| CREATED_BY            | NOT NULL | NUMBER        | Standard Who column - with the user id from FND_USER |
| CREATION_DATE         | NOT NULL | DATE          | Standard Who column                                  |
| LAST_UPDATED_BY       | NOT NULL | NUMBER        | Standard Who column - with the user id from FND_USER |
| LAST_UPDATE_DATE      | NOT NULL | DATE          | Standard Who column                                  |
| LAST_UPDATE_LOGIN     | NULL     | NUMBER        | Standard Who column                                  |
| EXCLUSIVE_FLAG        | NULL     | VARCHAR2(1)   | Indicates whether the group is exclusive             |
| START_DATE_ACTIVE     | NULL     | DATE          | Date before which the group is not enabled           |
| END_DATE_ACTIVE       | NULL     | DATE          | Date after which the group is not enabled            |
| ACCOUNTING_CODE       | NULL     | VARCHAR2(80)  | Account code, used by Sales                          |
| ATTRIBUTE1            | NULL     | VARCHAR2(150) | Descriptive flexfield segment Column                 |
| ATTRIBUTE2            | NULL     | VARCHAR2(150) | Descriptive flexfield segment Column                 |
| ATTRIBUTE3            | NULL     | VARCHAR2(150) | Descriptive flexfield segment Column                 |
| ATTRIBUTE4            | NULL     | VARCHAR2(150) | Descriptive flexfield segment Column                 |
| ATTRIBUTE5            | NULL     | VARCHAR2(150) | Descriptive flexfield segment Column                 |
| ATTRIBUTE6            | NULL     | VARCHAR2(150) | Descriptive flexfield segment Column                 |
| ATTRIBUTE7            | NULL     | VARCHAR2(150) | Descriptive flexfield segment Column                 |
| ATTRIBUTE8            | NULL     | VARCHAR2(150) | Descriptive flexfield segment Column                 |
| ATTRIBUTE9            | NULL     | VARCHAR2(150) | Descriptive flexfield segment Column                 |
| ATTRIBUTE10           | NULL     | VARCHAR2(150) | Descriptive flexfield segment Column                 |
| ATTRIBUTE11           | NULL     | VARCHAR2(150) | Descriptive flexfield segment Column                 |
| ATTRIBUTE12           | NULL     | VARCHAR2(150) | Descriptive flexfield segment Column                 |
| ATTRIBUTE13           | NULL     | VARCHAR2(150) | Descriptive flexfield segment Column                 |
| ATTRIBUTE14           | NULL     | VARCHAR2(150) | Descriptive flexfield segment Column                 |
| ATTRIBUTE15           | NULL     | VARCHAR2(150) | Descriptive flexfield segment Column                 |
| ATTRIBUTE_CATEGORY    | NULL     | VARCHAR2(30)  | Descriptive flexfield structure defining column      |
| EMAIL_ADDRESS         | NULL     | VARCHAR2(240) | Email Address of Group                               |
| OBJECT_VERSION_NUMBER | NOT NULL | NUMBER        | Sequential number used for database locking control  |

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*Indexes*

| <u>Index Name</u>  | <u>Index Type</u> | <u>Sequence</u> | <u>Column Name</u> |
|--------------------|-------------------|-----------------|--------------------|
| JTF_RS_GROUPS_B_U1 | UNIQUE            | 1               | GROUP_ID           |

*Sequences*

| <u>Sequence</u>       | <u>Derived Column</u> |
|-----------------------|-----------------------|
| JTF_RS_GROUPS_S       | GROUP_ID              |
| JTF_RS_GROUP_NUMBER_S | GROUP_NUMBER          |

## JTF\_RS\_RESOURCE\_EXTNS

This is table stores all important information about Resources. These Resources are coming from HR or HZ or Vonder table etc. Primary key is resource\_id. Resource\_number, user\_id sre also unique keys.

### Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|-------------------|--------------------|--------------------|
| JTF_OBJECTS_B     | OBJECT_CODE        | CATEGORY           |

### Column Descriptions

| Name                 | Null?    | Type          | Description  |
|----------------------|----------|---------------|--|
| RESOURCE_ID (PK)     | NOT NULL | NUMBER        | Resource Identifier  |
| CREATED_BY           | NOT NULL | NUMBER        | Standard who column - with user_id from FND_USERS  |
| CREATION_DATE        | NOT NULL | DATE          | Standard who column  |
| LAST_UPDATED_BY      | NOT NULL | NUMBER        | Standard who column - with user_id from FND_USERS  |
| LAST_UPDATE_DATE     | NOT NULL | DATE          | Standard who column  |
| LAST_UPDATE_LOGIN    | NULL     | NUMBER        | Standard who column  |
| CATEGORY             | NOT NULL | VARCHAR2(30)  | Category of Resource. Validating from JTF_OBJECTS_VL. Allowed values: EMPLOYEE, PARTNER, PARTY, SUPPLIER_CONTACT, OTHER    |
| RESOURCE_NUMBER      | NOT NULL | VARCHAR2(30)  | Resource Number. This is a Unique and shown to user on forms.  |
| SOURCE_ID            | NULL     | NUMBER        | Source identifier (foreign key to PER_ALL_PEOPLE_F) or (foreign key to HZ_PARTIES) or ( foreign key to PO_VENDOR_CONTACTS) |
| ADDRESS_ID           | NULL     | NUMBER        | Address identifier (foreign key to HZ_PARTY_SITES)   |
| CONTACT_ID           | NULL     | NUMBER        | Contact identifier (foreign key to HZ_ORG_CONTACTS)  |
| MANAGING_EMPLOYEE_ID | NULL     | NUMBER        | Managing Employee Identifier   |
| START_DATE_ACTIVE    | NOT NULL | DATE          | Date this Resource becomes active, if limited  |
| END_DATE_ACTIVE      | NULL     | DATE          | Date this Resource becomes inactive, if limited  |
| TIME_ZONE            | NULL     | NUMBER        | This field is used by Service for time zone information (foreign key to HZ_TIMEZONES)                                      |
| COST_PER_HR          | NULL     | NUMBER        | This field is used by Service for cost per hour of the resource  |
| PRIMARY_LANGUAGE     | NULL     | VARCHAR2(30)  | This field is used by Service for the primary language of the resource   |
| SECONDARY_LANGUAGE   | NULL     | VARCHAR2(30)  | This field is used by Service for the secondary language of the resource   |
| IES_AGENT_LOGIN      | NULL     | VARCHAR2(240) | Email Center Agent Login   |
| SERVER_GROUP_ID      | NULL     | NUMBER        | Server Group Identifier to which this resource is attached. FK to IEO_SVR_GROUPS , used by interaction centers.            |
| ASSIGNED_TO_GROUP_ID | NULL     | NUMBER        | Assigned to User Identifier , Foreign Key to FND_USER.   |

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|                            |          |               |   |
|----------------------------|----------|---------------|---|
| COST_CENTER                | NULL     | VARCHAR2(30)  | Cost Center to which this resource is attached  |
| CHARGE_TO_COST_CENTER      | NULL     | VARCHAR2(30)  | Cost center which will be charged for this resource                                     |
| COMPENSATION_CURRENCY_CODE | NULL     | VARCHAR2(15)  | The currency code in which the resource will be compensated.                            |
| COMMISSIONABLE_FLAG        | NULL     | VARCHAR2(1)   | Flag indicating whether the resource is commissionable or not                           |
| HOLD_REASON_CODE           | NULL     | VARCHAR2(30)  | Reason Code why the payment will be hold  |
| HOLD_PAYMENT               | NULL     | VARCHAR2(1)   | Flag indicating whether the payment for the resource is on hold or not.                 |
| COMP_SERVICE_TEAM_ID       | NULL     | NUMBER        | Comp Service Team Id , FK to jtf_rs_teams_vl  |
| TRANSACTION_NUMBER         | NULL     | NUMBER        | Transaction Number. This will be used at the time of importing Resources.               |
| OBJECT_VERSION_NUMBER      | NOT NULL | NUMBER        | Sequential number used for database locking control when using HTML as a user interface |
| ATTRIBUTE1                 | NULL     | VARCHAR2(150) | Descriptive flexfield segment Column  |
| ATTRIBUTE2                 | NULL     | VARCHAR2(150) | Descriptive flexfield segment Column  |
| ATTRIBUTE3                 | NULL     | VARCHAR2(150) | Descriptive flexfield segment Column  |
| ATTRIBUTE4                 | NULL     | VARCHAR2(150) | Descriptive flexfield segment Column  |
| ATTRIBUTE5                 | NULL     | VARCHAR2(150) | Descriptive flexfield segment Column  |
| ATTRIBUTE6                 | NULL     | VARCHAR2(150) | Descriptive flexfield segment Column  |
| ATTRIBUTE7                 | NULL     | VARCHAR2(150) | Descriptive flexfield segment Column  |
| ATTRIBUTE8                 | NULL     | VARCHAR2(150) | Descriptive flexfield segment Column  |
| ATTRIBUTE9                 | NULL     | VARCHAR2(150) | Descriptive flexfield segment Column  |
| ATTRIBUTE10                | NULL     | VARCHAR2(150) | Descriptive flexfield segment Column  |
| ATTRIBUTE11                | NULL     | VARCHAR2(150) | Descriptive flexfield segment Column  |
| ATTRIBUTE12                | NULL     | VARCHAR2(150) | Descriptive flexfield segment Column  |
| ATTRIBUTE13                | NULL     | VARCHAR2(150) | Descriptive flexfield segment Column  |
| ATTRIBUTE14                | NULL     | VARCHAR2(150) | Descriptive flexfield segment Column  |
| ATTRIBUTE15                | NULL     | VARCHAR2(150) | Descriptive flexfield segment Column  |
| ATTRIBUTE_CATEGORY         | NULL     | VARCHAR2(30)  | Descriptive flexfield structure defining column   |
| USER_ID                    | NULL     | NUMBER        | User Id from FND_USER   |
| SUPPORT_SITE_ID            | NULL     | NUMBER        | Support Site from Service   |

#### Indexes

| Index Name               | Index Type | Sequence | Column Name     |
|--------------------------|------------|----------|-----------------|
| JTF_RS_RESOURCE_EXTNS_U1 | UNIQUE     | 1        | RESOURCE_ID     |
| JTF_RS_RESOURCE_EXTNS_U2 | UNIQUE     | 1        | RESOURCE_NUMBER |
| JTF_RS_RESOURCE_EXTNS_U3 | UNIQUE     | 1        | USER_ID         |

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### *Sequences*

| <u>Sequence</u>          | <u>Derived Column</u> |
|--------------------------|-----------------------|
| JTF_RS_RESOURCE_EXTNS_S  | RESOURCE_ID           |
| JTF_RS_RESOURCE_NUMBER_S | RESOURCE_NUMBER       |
| JTF_RS_TRANSACTION_NUM_S | TRANSACTION_NUMBER    |



## JTF\_TASKS\_B

Base Table JTF\_TASKS\_B stores general information about a given Task. Each line includes details about owner, source object, customer, dates, effort and duration. Also, this table contains multiple flags used by the various consumers of the foundation Task Manager.

### Foreign Keys

| Primary Key Table     | Primary Key Column | Foreign Key Column      |
|-----------------------|--------------------|-------------------------|
| CS_INCIDENTS_ALL_B    | INCIDENT_ID        | SOURCE_OBJECT_ID        |
| FND_CURRENCIES        | CURRENCY_CODE      | CURRENCY_CODE           |
| HZ_CUST_ACCOUNTS      | CUST_ACCOUNT_ID    | CUST_ACCOUNT_ID         |
| HZ_PARTIES            | PARTY_ID           | SOURCE_OBJECT_TYPE_CODE |
| HZ_PARTIES            | PARTY_ID           | SOURCE_OBJECT_TYPE_CODE |
| HZ_PARTY_SITES        | PARTY_SITE_ID      | ADDRESS_ID              |
| JTF_OBJECTS_B         | OBJECT_CODE        | SOURCE_OBJECT_TYPE_CODE |
| JTF_TASKS_B           | TASK_ID            | PARENT_TASK_ID          |
| JTF_TASK_PRIORITIES_B | TASK_PRIORITY_ID   | TASK_PRIORITY_ID        |
| JTF_TASK_RECUR_RULES  | RECURRENCE_RULE_ID | RECURRENCE_RULE_ID      |
| JTF_TASK_STATUSES_B   | TASK_STATUS_ID     | TASK_STATUS_ID          |
| JTF_TASK_TYPES_B      | TASK_TYPE_ID       | TASK_TYPE_ID            |

### Column Descriptions

| Name                  | Null?    | Type         | Description   |
|-----------------------|----------|--------------|---|
| TASK_ID (PK)          | NOT NULL | NUMBER       | Unique task identifier (PK)   |
| CREATED_BY            | NOT NULL | NUMBER(15)   | Standard Who column - with the user id from FND_USER                                    |
| CREATION_DATE         | NOT NULL | DATE         | Standard Who column   |
| LAST_UPDATED_BY       | NOT NULL | NUMBER(15)   | Standard Who column - with the user id from FND_USER                                    |
| LAST_UPDATE_DATE      | NOT NULL | DATE         | Standard Who column   |
| LAST_UPDATE_LOGIN     |          | NUMBER(15)   | Standard Who column - with the user id from FND_USER                                    |
| OBJECT_VERSION_NUMBER |          | NUMBER       | Sequential number used for database locking control when using HTML as a user interface |
| TASK_NUMBER           | NOT NULL | VARCHAR2(30) | Task Number   |
| TASK_TYPE_ID          | NOT NULL | NUMBER       | Task type (foreign key to JTF_TASK_TYPES)   |
| TASK_STATUS_ID        | NOT NULL | NUMBER       | Task status (foreign key to JTF_TASK_STATUSES)  |
| TASK_PRIORITY_ID      |          | NUMBER       | Task priority (foreign key to JTF_TASK_PRIORITIES)                                      |
| OWNER_ID              | NOT NULL | NUMBER       | Owner of the task   |
| OWNER_TYPE_CODE       | NOT NULL | VARCHAR2(30) | Resource type identifier of task owner  |
| OWNER_TERRITORY_ID    |          | NUMBER       | Territory identifier of the Owner   |
| ASSIGNED_BY_ID        |          | NUMBER       | User who assigned the task to current owner   |
| CUST_ACCOUNT_ID       |          | NUMBER       | Customer account identifier   |
| CUSTOMER_ID           |          | NUMBER       | Customer associated with task   |
| ADDRESS_ID            |          | NUMBER       | Address Identifier  |
| PLANNED_START_DATE    |          | DATE         | Planned start date  |
| PLANNED_END_DATE      |          | DATE         | Planned end date  |
| SCHEDULED_START_DATE  |          | DATE         | Scheduled start date  |

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|                         |                   |  |
|-------------------------|-------------------|--|
| SCHEDULED_END_DATE      | NULL DATE         | Scheduled end date   |
| ACTUAL_START_DATE       | NULL DATE         | Actual start date  |
| ACTUAL_END_DATE         | NULL DATE         | Actual end date  |
| SOURCE_OBJECT_TYPE_CODE | NULL VARCHAR2(30) | Type of source object (foreign key to JTF_TASK_OBJECT_TYPES)                                   |
| TIMEZONE_ID             | NULL NUMBER       | Time zone identifier   |
| SOURCE_OBJECT_ID        | NULL NUMBER       | Internal ID of source object   |
| SOURCE_OBJECT_NAME      | NULL VARCHAR2(80) | User-visible source object identifier  |
| DURATION                | NULL NUMBER       | Duration of task   |
| DURATION_UOM            | NULL VARCHAR2(3)  | Unit of measure for duration   |
| PLANNED_EFFORT          | NULL NUMBER       | Planned effort   |
| PLANNED_EFFORT_UOM      | NULL VARCHAR2(3)  | Unit of measure for planned effort   |
| ACTUAL_EFFORT           | NULL NUMBER       | Actual amount of effort spent on a task by all assignees                                       |
| ACTUAL_EFFORT_UOM       | NULL VARCHAR2(3)  | Unit of measure for actual work  |
| PERCENTAGE_COMPLETE     | NULL NUMBER       | Percentage completion of task  |
| REASON_CODE             | NULL VARCHAR2(30) | Reason for rejecting a task, reassigning a task, etc.  |
| PRIVATE_FLAG            | NULL VARCHAR2(1)  | Indicates whether the task is private or public  |
| PUBLISH_FLAG            | NULL VARCHAR2(1)  | Indicates whether the task should be published.  |
| RESTRICT_CLOSURE_FLAG   | NULL VARCHAR2(1)  | Indicates whether completing the task is necessary for the source object to be deemed complete |
| MULTI_BOOKED_FLAG       | NULL VARCHAR2(1)  | Indicates whether the task can book resources that are already assigned to other tasks         |
| MILESTONE_FLAG          | NULL VARCHAR2(1)  | Indicates whether the task is a milestone delivery date  |
| HOLIDAY_FLAG            | NULL VARCHAR2(1)  | Indicates whether the task can be performed on holidays  |
| BILLABLE_FLAG           | NULL VARCHAR2(1)  | Indicates whether the task is billable.  |
| BOUND_MODE_CODE         | NULL VARCHAR2(30) | Used for Scheduling.   |
| SOFT_BOUND_FLAG         | NULL VARCHAR2(1)  | Used for Scheduling.   |
| WORKFLOW_PROCESS_ID     | NULL NUMBER       | Identifier of las workflow process launched for this task                                      |
| NOTIFICATION_FLAG       | NULL VARCHAR2(1)  | Flag indicating whether notification workflow will be automatically launched.                  |
| NOTIFICATION_PERIOD     | NULL NUMBER       | Time before the scheduled start date that a notification is sent to the assignees              |
| NOTIFICATION_PERIOD_UOM | NULL VARCHAR2(3)  | Unit of measure for notification period  |
| PARENT_TASK_ID          | NULL NUMBER       | Parent Task's ID   |
| RECURRENCE_RULE_ID      | NULL NUMBER       | Recurrence rule identifier   |
| ALARM_START             | NULL NUMBER       | Indicates when the first alarm should be fired   |
| ALARM_START_UOM         | NULL VARCHAR2(3)  | Unit of measure for ALARM_START  |
| ALARM_ON                | NULL VARCHAR2(1)  | Indicates whether the alarm is on  |
| ALARM_COUNT             | NULL NUMBER       | Total number of alarms to fire   |
| ALARM_FIRED_COUNT       | NULL NUMBER       | Number of alarms fired   |
| ALARM_INTERVAL          | NULL NUMBER       | Alarm interval   |
| ALARM_INTERVAL_UOM      | NULL VARCHAR2(3)  | Unit of measure for Alarm Interval   |

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|                    |      |               |   |
|--------------------|------|---------------|---|
| DELETED_FLAG       | NULL | VARCHAR2(1)   | Flag indicating the task has been deleted       |
| PALM_FLAG          | NULL | VARCHAR2(1)   | Used by Mobile Device                           |
| WINCE_FLAG         | NULL | VARCHAR2(1)   | Used by Mobile Device                           |
| LAPTOP_FLAG        | NULL | VARCHAR2(1)   | Used by Mobile Device                           |
| DEVICE1_FLAG       | NULL | VARCHAR2(1)   | Used by Mobile Device                           |
| DEVICE2_FLAG       | NULL | VARCHAR2(1)   | Used by Mobile Device                           |
| DEVICE3_FLAG       | NULL | VARCHAR2(1)   | Used by Mobile Device                           |
| COSTS              | NULL | NUMBER        | Used by Marketing                               |
| CURRENCY_CODE      | NULL | VARCHAR2(15)  | Used by Marketing.                              |
| ORG_ID             | NULL | NUMBER        | Operating unit identifier                       |
| ESCALATION_LEVEL   | NULL | VARCHAR2(30)  | Escalation Level                                |
| ATTRIBUTE1         | NULL | VARCHAR2(150) | Descriptive flexfield segment column            |
| ATTRIBUTE2         | NULL | VARCHAR2(150) | Descriptive flexfield segment column            |
| ATTRIBUTE3         | NULL | VARCHAR2(150) | Descriptive flexfield segment column            |
| ATTRIBUTE4         | NULL | VARCHAR2(150) | Descriptive flexfield segment column            |
| ATTRIBUTE5         | NULL | VARCHAR2(150) | Descriptive flexfield segment column            |
| ATTRIBUTE6         | NULL | VARCHAR2(150) | Descriptive flexfield segment column            |
| ATTRIBUTE7         | NULL | VARCHAR2(150) | Descriptive flexfield segment column            |
| ATTRIBUTE8         | NULL | VARCHAR2(150) | Descriptive flexfield segment column            |
| ATTRIBUTE9         | NULL | VARCHAR2(150) | Descriptive flexfield segment column            |
| ATTRIBUTE10        | NULL | VARCHAR2(150) | Descriptive flexfield segment column            |
| ATTRIBUTE11        | NULL | VARCHAR2(150) | Descriptive flexfield segment column            |
| ATTRIBUTE12        | NULL | VARCHAR2(150) | Descriptive flexfield segment column            |
| ATTRIBUTE13        | NULL | VARCHAR2(150) | Descriptive flexfield segment column            |
| ATTRIBUTE14        | NULL | VARCHAR2(150) | Descriptive flexfield segment column            |
| ATTRIBUTE15        | NULL | VARCHAR2(150) | Descriptive flexfield segment column            |
| ATTRIBUTE_CATEGORY | NULL | VARCHAR2(150) | Descriptive flexfield structure defining column |

#### Indexes

| Index Name   | Index Type | Sequence | Column Name |
|--------------|------------|----------|-------------|
| JTF_TASKS_U1 | UNIQUE     | 1        | TASK_ID     |

#### Sequences

| Sequence                    | Derived Column      |
|-----------------------------|---------------------|
| JTF_TASKS_S                 | TASK_ID             |
| JTF_TASK_NUMBER_S           | TASK_NUMBER         |
| JTF_TASK_WORKFLOW_PROCESS_S | WORKFLOW_PROCESS_ID |

## JTF\_TASK\_ASSIGNMENTS

JTF\_TASK\_ASSIGNMENTS stores information about the resource assignments associated with the task. RESOURCE\_TYPE\_CODE identifier stores the resource category which is a foreign key to JTF\_OBJECT\_TYPES. For each resource assignment, this table stores duration and distance used by the Oracle Scheduler . Also, every assigned resource can have contact details.

### Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|-------------------|--------------------|--------------------|
| JTF_OBJECTS_B     | OBJECT_CODE        | RESOURCE_TYPE_CODE |
| JTF_TASKS_B       | TASK_ID            | TASK_ID            |

### Column Descriptions

| Name                      | Null?    | Type          | Description   |
|---------------------------|----------|---------------|---|
| TASK_ASSIGNMENT_ID (PK)   | NOT NULL | NUMBER        | Unique task assignment identifier   |
| CREATED_BY                | NOT NULL | NUMBER        | Standard Who column - with the user id from FND_USER  |
| CREATION_DATE             | NOT NULL | DATE          | Standard Who column   |
| LAST_UPDATED_BY           | NOT NULL | NUMBER        | Standard Who column - with the user id from FND_USER  |
| LAST_UPDATE_DATE          | NOT NULL | DATE          | Standard Who column   |
| LAST_UPDATE_LOGIN         | NULL     | NUMBER        | Standard Who column   |
| OBJECT_VERSION_NUMBER     | NOT NULL | NUMBER        | Sequential number used for database locking control when using HTML as a user interface                   |
| TASK_ID                   | NOT NULL | NUMBER        | Task ID (foreign key to JTF_TASKS_ALL)  |
| RESOURCE_TYPE_CODE        | NOT NULL | VARCHAR2(30)  | Resource type identifier  |
| RESOURCE_ID               | NOT NULL | NUMBER        | Resource ID   |
| ASSIGNMENT_STATUS_ID      | NOT NULL | NUMBER        | Status identifier of the assignee   |
| ACTUAL_EFFORT             | NULL     | NUMBER        | Actual amount of effort spent on a task   |
| RESOURCE_TERRITORY_ID     | NULL     | NUMBER        | Territory identifier of the assignee  |
| ACTUAL_EFFORT_UOM         | NULL     | VARCHAR2(3)   | Unit of measure for actual effort   |
| SCHEDULE_FLAG             | NULL     | VARCHAR2(1)   | Indicates whether the resource should be scheduled by the Scheduler                                       |
| ALARM_TYPE_CODE           | NULL     | VARCHAR2(30)  | A lookup code that indicates how alarms should be sent to the resource., e.g., 'EMAIL', 'PAGER', 'PHONE'  |
| ALARM_CONTACT             | NULL     | VARCHAR2(200) | Contact information for sending alarms, this field may store email address, pager number, or phone number |
| SHIFT_CONSTRUCT_ID        | NULL     | NUMBER        | Shift construct identifier for the assignment   |
| SCHED_TRAVEL_DISTANCE     | NULL     | NUMBER        | Scheduled Travel Distance   |
| SCHED_TRAVEL_DURATION     | NULL     | NUMBER        | Scheduled Travel Duration   |
| SCHED_TRAVEL_DURATION_UOM | NULL     | VARCHAR2(3)   | Unit of measure for Scheduled Travel Duration   |

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|                            |      |               |   |
|----------------------------|------|---------------|---|
| ACTUAL_TRAVEL_DISTANCE     | NULL | NUMBER        | Actual Travel Duration                          |
| ACTUAL_TRAVEL_DURATION     | NULL | NUMBER        | Actual Travel Duration                          |
| ACTUAL_TRAVEL_DURATION_UOM | NULL | VARCHAR2(3)   | Unit of Measure for Actual Travel Duration      |
| ACTUAL_START_DATE          | NULL | DATE          | Actual start date                               |
| ACTUAL_END_DATE            | NULL | DATE          | Actual end date                                 |
| PALM_FLAG                  | NULL | VARCHAR2(1)   | Used by Mobile Device                           |
| WINCE_FLAG                 | NULL | VARCHAR2(1)   | Used by Mobile Device                           |
| LAPTOP_FLAG                | NULL | VARCHAR2(1)   | Used by Mobile Device                           |
| DEVICE1_FLAG               | NULL | VARCHAR2(1)   | Used by Mobile Device                           |
| DEVICE2_FLAG               | NULL | VARCHAR2(1)   | Used by Mobile Device                           |
| DEVICE3_FLAG               | NULL | VARCHAR2(1)   | Used by Mobile Device                           |
| ATTRIBUTE1                 | NULL | VARCHAR2(150) | Descriptive flexfield segment column            |
| ATTRIBUTE2                 | NULL | VARCHAR2(150) | Descriptive flexfield segment column            |
| ATTRIBUTE3                 | NULL | VARCHAR2(150) | Descriptive flexfield segment column            |
| ATTRIBUTE4                 | NULL | VARCHAR2(150) | Descriptive flexfield segment column            |
| ATTRIBUTE5                 | NULL | VARCHAR2(150) | Descriptive flexfield segment column            |
| ATTRIBUTE6                 | NULL | VARCHAR2(150) | Descriptive flexfield segment column            |
| ATTRIBUTE7                 | NULL | VARCHAR2(150) | Descriptive flexfield segment column            |
| ATTRIBUTE8                 | NULL | VARCHAR2(150) | Descriptive flexfield segment column            |
| ATTRIBUTE9                 | NULL | VARCHAR2(150) | Descriptive flexfield segment column            |
| ATTRIBUTE10                | NULL | VARCHAR2(150) | Descriptive flexfield segment column            |
| ATTRIBUTE11                | NULL | VARCHAR2(150) | Descriptive flexfield segment column            |
| ATTRIBUTE12                | NULL | VARCHAR2(150) | Descriptive flexfield segment column            |
| ATTRIBUTE13                | NULL | VARCHAR2(150) | Descriptive flexfield segment column            |
| ATTRIBUTE14                | NULL | VARCHAR2(150) | Descriptive flexfield segment column            |
| ATTRIBUTE15                | NULL | VARCHAR2(150) | Descriptive flexfield segment column            |
| ATTRIBUTE_CATEGORY         | NULL | VARCHAR2(30)  | Descriptive flexfield structure defining column |

#### Indexes

| Index Name              | Index Type | Sequence | Column Name        |
|-------------------------|------------|----------|--------------------|
| JTF_TASK_ASSIGNMENTS_U1 | UNIQUE     | 2        | TASK_ASSIGNMENT_ID |

#### Sequences

| Sequence               | Derived Column     |
|------------------------|--------------------|
| JTF_TASK_ASSIGNMENTS_S | TASK_ASSIGNMENT_ID |

## JTF\_TERR\_ALL

Stores the definition of the territories. There are 3 types of territories, Standard, Escalation and Template. Information stored in this table also includes comment about this territory, effective dates, and what type of territory it is.

### Foreign Keys

| Primary Key Table  | Primary Key Column | Foreign Key Column      |
|--------------------|--------------------|-------------------------|
| JTF_TERR_ALL       | TERR_ID            | ESCALATION_TERRITORY_ID |
| JTF_TERR_ALL       | TERR_ID            | TEMPLATE_TERRITORY_ID   |
| JTF_TERR_ALL       | TERR_ID            | PARENT_TERRITORY_ID     |
| JTF_TERR_TYPES_ALL | TERR_TYPE_ID       | TERRITORY_TYPE_ID       |

### Column Descriptions

| Name                    | Null?    | Type           | Description  |
|-------------------------|----------|----------------|--|
| TERR_ID (PK)            | NOT NULL | NUMBER         | Territory Identifier (Oracle Sequence).                                    |
| LAST_UPDATE_DATE        | NOT NULL | DATE           | Standard who column.   |
| LAST_UPDATED_BY         | NOT NULL | NUMBER         | Standard who column.   |
| CREATION_DATE           | NOT NULL | DATE           | Standard who column.   |
| CREATED_BY              | NOT NULL | NUMBER         | Standard who column.   |
| LAST_UPDATE_LOGIN       | NOT NULL | NUMBER         | Standard who column.   |
| REQUEST_ID              | NULL     | NUMBER         | Request identifier of last concurrent program to update record.            |
| PROGRAM_APPLICATION_ID  | NULL     | NUMBER         | Application identifier of last concurrent program to update record.        |
| PROGRAM_ID              | NULL     | NUMBER         | Identifier of last concurrent program to update record.                    |
| PROGRAM_UPDATE_DATE     | NULL     | DATE           | Last date concurrent program updated record.                               |
| APPLICATION_SHORT_NAME  | NOT NULL | VARCHAR2(50)   | Application short name of last concurrent program to update record.        |
| NAME                    | NOT NULL | VARCHAR2(2000) | The name of the territory.   |
| ENABLED_FLAG            | NOT NULL | VARCHAR2(1)    | Flag to indicate whether the territory is enabled.                         |
| START_DATE_ACTIVE       | NULL     | DATE           | Date this territory becomes active, if limited.                            |
| END_DATE_ACTIVE         | NULL     | DATE           | Date this territory becomes inactive, if limited.                          |
| PLANNED_FLAG            | NULL     | VARCHAR2(1)    | Not used.  |
| PARENT_TERRITORY_ID     | NULL     | NUMBER         | Foreign key to JTF_TERR_ALL table. Identifier of the parent territory.     |
| TERRITORY_TYPE_ID       | NULL     | NUMBER         | Foreign key to JTF_TERR_TYPES_ALL table.                                   |
| TEMPLATE_TERRITORY_ID   | NULL     | NUMBER         | Foreign key to JTF_TERR_ALL table. Identifier of the template territory.   |
| TEMPLATE_FLAG           | NULL     | VARCHAR2(1)    | Flag to indicate if this territory is being used as a territory template.  |
| ESCALATION_TERRITORY_ID | NULL     | NUMBER         | Foreign key to JTF_TERR_ALL table. Identifier of the escalation territory. |

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|                            |      |               |   |
|----------------------------|------|---------------|---|
| ESCALATION_TERRITORY_FLAG  | NULL | VARCHAR2(1)   | Flag to indicate if this territory is being used as an escalation territory.                            |
| OVERLAP_ALLOWED_FLAG       | NULL | VARCHAR2(1)   | Indicates whether this territory allows its qualifier values to overlap with that of another territory. |
| RANK                       | NULL | NUMBER        | The ranking for this territory.   |
| DESCRIPTION                | NULL | VARCHAR2(240) | Description of this territory.  |
| UPDATE_FLAG                | NULL | VARCHAR2(1)   | Not Used.   |
| AUTO_ASSIGN_RESOURCES_FLAG | NULL | VARCHAR2(1)   | Not Used.   |
| ATTRIBUTE_CATEGORY         | NULL | VARCHAR2(30)  | Descriptive flexfield structure defining column.  |
| ATTRIBUTE1                 | NULL | VARCHAR2(150) | Descriptive flexfield segment column.   |
| ATTRIBUTE2                 | NULL | VARCHAR2(150) | Descriptive flexfield segment column.   |
| ATTRIBUTE3                 | NULL | VARCHAR2(150) | Descriptive flexfield segment column.   |
| ATTRIBUTE4                 | NULL | VARCHAR2(150) | Descriptive flexfield segment column.   |
| ATTRIBUTE5                 | NULL | VARCHAR2(150) | Descriptive flexfield segment column.   |
| ATTRIBUTE6                 | NULL | VARCHAR2(150) | Descriptive flexfield segment column.   |
| ATTRIBUTE7                 | NULL | VARCHAR2(150) | Descriptive flexfield segment column.   |
| ATTRIBUTE8                 | NULL | VARCHAR2(150) | Descriptive flexfield segment column.   |
| ATTRIBUTE9                 | NULL | VARCHAR2(150) | Descriptive flexfield segment column.   |
| ATTRIBUTE10                | NULL | VARCHAR2(150) | Descriptive flexfield segment column.   |
| ATTRIBUTE11                | NULL | VARCHAR2(150) | Descriptive flexfield segment column.   |
| ATTRIBUTE12                | NULL | VARCHAR2(150) | Descriptive flexfield segment column.   |
| ATTRIBUTE13                | NULL | VARCHAR2(150) | Descriptive flexfield segment column.   |
| ATTRIBUTE14                | NULL | VARCHAR2(150) | Descriptive flexfield segment column.   |
| ATTRIBUTE15                | NULL | VARCHAR2(150) | Descriptive flexfield segment column.   |
| ORG_ID                     | NULL | NUMBER        | Operating unit which performed this transaction.  |

#### Indexes

| Index Name  | Index Type | Sequence | Column Name             |
|-------------|------------|----------|-------------------------|
| JTF_TERR_N1 | NOT UNIQUE | 2        | END_DATE_ACTIVE         |
|             |            | 4        | START_DATE_ACTIVE       |
|             |            | 6        | ENABLED_FLAG            |
|             |            | 8        | APPLICATION_SHORT_NAME  |
| JTF_TERR_N2 | NOT UNIQUE | 5        | PARENT_TERRITORY_ID     |
| JTF_TERR_N3 | NOT UNIQUE | 5        | TERRITORY_TYPE_ID       |
| JTF_TERR_N4 | NOT UNIQUE | 5        | TEMPLATE_TERRITORY_ID   |
| JTF_TERR_N5 | NOT UNIQUE | 5        | ESCALATION_TERRITORY_ID |
| JTF_TERR_U1 | UNIQUE     | 5        | TERR_ID                 |

#### Sequences

| Sequence   | Derived Column |
|------------|----------------|
| JTF_TERR_S | TERR_ID        |

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If you find any errors or have any other suggestions for improvement, please indicate the topic, chapter, and page number below:

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