

Oracle® Common Application Components

API Reference Guide

Release 11*i*

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Oracle Common Application Components API Reference Guide, Release 11i

Part No. B10562-01

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Oracle Common Application Components API Reference Guide, Release 11*i*

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Oracle Corporation welcomes your comments and suggestions on the quality and usefulness of this publication. Your input is an important part of the information used for revision.

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- Is the information clearly presented?
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USA

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Preface

Audience for This Guide

Welcome to Release 11*i* of the *Oracle Common Application Components API Reference Guide*. This manual describes the Oracle Common Application Components' public APIs, and provides information to help you work effectively with these public APIs.

Note: This document provides API information for the following Oracle Common Application Components only:

- Resource Manager
 - Task Manager
 - Notes
-
-

This guide assumes you have a working knowledge of the following:

- **The principles and customary practices of your business area**
- **Oracle Common Application Components**

If you have never used the Oracle Common Application Components modules, Oracle suggests you attend one or more of the Oracle Common Application Components training classes available through Oracle University.

- **The Oracle Applications graphical user interface**

To learn more about the Oracle Applications graphical user interface, read the *Oracle Applications User's Guide*. See "[Other Information Sources](#)" for more information about Oracle Applications product information.

This preface explains how the Reference Guide is organized and introduces other sources of information that can help you.

How To Use This Guide

This manual contains the following chapters:

Chapter	Title	Summary
Chapter 1	Introduction	Discusses the following topics: <ul style="list-style-type: none">▪ API and parameter specifications▪ Standard IN and OUT parameters▪ Status messages
Chapter 2	Resource Manager Public APIs	Discusses the following Resource Manager public packages, and the associated public APIs: <ul style="list-style-type: none">▪ JTF_RESOURCES_PUB▪ JTF_RS_GROUP_PUB▪ JTF_RS_SALESREPS_PUB
Chapter 3	Task Manager Public APIs	Discusses the following Task Manager public packages, and the associated public APIs: <ul style="list-style-type: none">▪ JTF_TASKS_PUB▪ JTF_TASK_ASSIGNMENT_PUB▪ JTF_TASK_REFERENCES_PUB
Chapter 4	Notes Public APIs	Discusses the Notes public package (JTF_NOTES_PUB), and the associated public APIs.

Typographic Conventions

This document uses the following typographic conventions:

Convention	Description
Monospace text	Monospace text represents code or SQL statements.

Convention	Description
<i>lowercase italics</i>	Lowercase italics in the text represent variables. Substitute an appropriate value for the variable.
UPPERCASE	Uppercase characters within the text represent command names, SQL reserved words and keywords, and terms associated with the Oracle database.
Indentation	Indentation helps to show structure within code examples, but is not required.
<text>	Text inside angle brackets can mean either of the following: <ul style="list-style-type: none"> ■ It denotes a variable that is replaced with an actual value at runtime. ■ In indicates XML elements in discussions about XML code.

Documentation Accessibility

Our goal is to make Oracle products, services, and supporting documentation accessible, with good usability, to the disabled community. To that end, our documentation includes features that make information available to users of assistive technology. This documentation is available in HTML format, and contains markup to facilitate access by the disabled community. Standards will continue to evolve over time, and Oracle Corporation is actively engaged with other market-leading technology vendors to address technical obstacles so that our documentation can be accessible to all of our customers. For additional information, visit the Oracle Accessibility Program Web site at <http://www.oracle.com/accessibility/>

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JAWS, a Windows screen reader, may not always correctly read the code examples in this document. The conventions for writing code require that closing braces should appear on an otherwise empty line; however, JAWS may not always read a line of text that consists solely of a bracket or brace.

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Other Information Sources

You can choose from many sources of information, including online documentation, training, and support services, to increase your knowledge and understanding of Oracle Common Application Components.

If this guide refers you to other Oracle Applications documentation, use only the Release 11*i* versions of those guides.

Online Documentation

All Oracle Applications documentation is available online (HTML or PDF). Online help patches are available on MetaLink.

Related Documentation

Oracle Common Application Components shares business and setup information with other Oracle Applications products. Therefore, you may want to refer to other product documentation when you set up and use Oracle Common Application Components

You can read the documents online by reading from the Oracle Applications Document Library CD included in your media pack, or by using a Web browser with a URL that your system administrator provides.

If you require printed guides, you can purchase them from the Oracle Store at <http://oraclestore.oracle.com>.

Documents Related to All Products

Oracle Applications User's Guide

This guide explains how to enter data, query, run reports, and navigate using the graphical user interface (GUI) available with this release of Oracle Common Application Components (and any other Oracle Applications products). This guide also includes information on setting user profiles, as well as running and reviewing reports and concurrent processes.

You can access this user's guide online by choosing "Getting Started with Oracle Applications" from any Oracle Applications help file.

Documents Related to This Product

Oracle Common Application Components Implementation Guide

Use this manual to understand the necessary configuration and setup steps that need to be performed after the Oracle Common Application Components modules are installed.

Oracle Common Application Components User's Guide

This manual provides basic conceptual and reference information needed to understand the Oracle Common Application Components modules. In addition, it details the procedures performed by a typical end-user of the Oracle Common Application Components modules.

Installation and System Administration

Oracle Applications Concepts

This guide provides an introduction to the concepts, features, technology stack, architecture, and terminology for Oracle Applications Release 11*i*. It provides a useful first book to read before an installation of Oracle Applications. This guide also introduces the concepts behind Applications-wide features such as Business Intelligence (BIS), languages and character sets, and Self-Service Web Applications.

Installing Oracle Applications

This guide provides instructions for managing the installation of Oracle Applications products. In Release 11*i*, much of the installation process is handled using Oracle Rapid Install, which minimizes the time to install Oracle Applications, the Oracle8 technology stack, and the Oracle8*i* Server technology stack by automating many of the required steps. This guide contains instructions for using Oracle Rapid Install and lists the tasks you need to perform to finish your installation. You should use this guide in conjunction with individual product user's guides and implementation guides.

Oracle Applications Supplemental Common Application Components Installation Steps

This guide contains specific steps needed to complete installation of a few of the Common Application Components products. The steps should be done immediately following the tasks given in the Installing Oracle Applications guide.

Upgrading Oracle Applications

Refer to this guide if you are upgrading your Oracle Applications Release 10.7 or Release 11.0 products to Release 11*i*. This guide describes the upgrade process and lists database and product-specific upgrade tasks. You must be either at Release 10.7 (NCA, SmartClient, or character mode) or Release 11.0, to upgrade to Release 11*i*. You cannot upgrade to Release 11*i* directly from releases prior to 10.7.

Maintaining Oracle Applications

Use this guide to help you run the various AD utilities, such as AutoUpgrade, AutoPatch, AD Administration, AD Controller, AD Relink, License Manager, and others. It contains how-to steps, screenshots, and other information that you need to run the AD utilities. This guide also provides information on maintaining the Oracle applications file system and database.

Oracle Applications System Administrator's Guide

This guide provides planning and reference information for the Oracle Applications System Administrator. It contains information on how to define security, customize menus and online help, and manage concurrent processing.

Oracle Alert User's Guide

This guide explains how to define periodic and event alerts to monitor the status of your Oracle Applications data.

Oracle Applications Developer's Guide

This guide contains the coding standards followed by the Oracle Applications development staff. It describes the Oracle Application Object Library components needed to implement the Oracle Applications user interface described in the *Oracle Applications User Interface Standards for Forms-Based Products*. It also provides information to help you build your custom Oracle Forms Developer 6*i* forms so that they integrate with Oracle Applications.

Oracle Applications User Interface Standards for Forms-Based Products

This guide contains the user interface (UI) standards followed by the Oracle Applications development staff. It describes the UI for the Oracle Applications products and how to apply this UI to the design of an application built by using Oracle Forms.

Other Implementation Documentation

Oracle Workflow Administrator's Guide

This guide explains how to complete the setup steps necessary for any Oracle Applications product that includes workflow-enabled processes, as well as how to monitor the progress of runtime workflow processes.

Oracle Workflow Developer's Guide

This guide explains how to define new workflow business processes and customize existing Oracle Applications-embedded workflow processes. It also describes how to define and customize business events and event subscriptions.

Oracle Workflow User's Guide

This guide describes how Oracle Applications users can view and respond to workflow notifications and monitor the progress of their workflow processes.

Oracle Workflow API Reference

This guide describes the APIs provided for developers and administrators to access Oracle Workflow.

Oracle eTechnical Reference Manuals

Each eTechnical Reference Manual (eTRM) contains database diagrams and a detailed description of database tables, forms, reports, and programs for a specific Oracle Applications product. This information helps you convert data from your existing applications, integrate Oracle Applications data with non-Oracle applications, and write custom reports for Oracle Applications products. Oracle eTRM is available on Metalink

Oracle Manufacturing APIs and Open Interfaces Manual

This manual contains up-to-date information about integrating with other Oracle Manufacturing applications and with your other systems. This documentation includes APIs and open interfaces found in Oracle Manufacturing.

Oracle Order Management Suite APIs and Open Interfaces Manual

This manual contains up-to-date information about integrating with other Oracle Manufacturing applications and with your other systems. This documentation includes APIs and open interfaces found in Oracle Order Management Suite.

Oracle Applications Message Reference Manual

This manual describes Oracle Applications messages. This manual is available in HTML format on the documentation CD-ROM for Release 11i.

Training and Support

Training

Oracle offers training courses to help you and your staff master the Oracle Common Application Components modules and reach full productivity quickly. You have a choice of educational environments:

- You can attend courses offered by Oracle University at any one of our many Education Centers.
- You can arrange for our trainers to teach at your facility.
- You can use Oracle Learning Network (OLN), Oracle University's online education utility.

In addition, Oracle training professionals can tailor standard courses or develop custom courses to meet your needs. For example, you may want to use your organization's structure, terminology, and data as examples in a customized training session delivered at your own facility.

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Self-Service Toolkit: You may also find information by navigating to the Self-Service Toolkit page as follows: Technical Libraries/ERP Applications/Applications Installation and Upgrade.

Do Not Use Database Tools to Modify Oracle Applications Data

*Oracle STRONGLY RECOMMENDS that you never use SQL*Plus, Oracle Data Browser, database triggers, or any other tool to modify Oracle Applications data unless otherwise instructed.*

Oracle provides powerful tools you can use to create, store, change, retrieve, and maintain information in an Oracle database. But if you use Oracle tools such as SQL*Plus to modify Oracle Applications data, you risk destroying the integrity of your data and you lose the ability to audit changes to your data.

Because Oracle Applications tables are interrelated, any change you make using Oracle Applications can update many tables at once. But when you modify Oracle Applications data using anything other than Oracle Applications, you may change a row in one table without making corresponding changes in related tables. If your tables get out of synchronization with each other, you risk retrieving erroneous information and you risk unpredictable results throughout Oracle Applications.

When you use Oracle Applications to modify your data, Oracle Applications automatically checks that your changes are valid. Oracle Applications also keeps track of who changes information. If you enter information into database tables using database tools, you may store invalid information. You also lose the ability to track who has changed your information because SQL*Plus and other database tools do not keep a record of changes.

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 160

software modules for financial management, supply chain management, manufacturing, project systems, human resources and customer relationship 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.

Introduction

The Oracle e-Business Suite contains the following types of APIs:

- **Private APIs** are for internal, development use only. Details are not provided to anyone outside of the immediate development environment, nor are they intended for use by anyone outside of the e-Business Suite development environment.
- **Public APIs** are designed for customers and Oracle consultants to integrate non-Oracle systems into Oracle e-Business Suite or to extend the functionality of the base products. Oracle does not support public APIs unless they are published in a reference manual such as this one. The user accepts all risk and responsibility for working with non-published public APIs.
- **Public, published APIs** are guaranteed by Oracle to remain valid from release to release and that patches will not alter the API behavior. Public, published APIs are supported by Oracle to the same extent as released software.

For non-published APIs, Oracle expressly does not provide any guarantees regarding consistency of naming, usage, or behavior of any API (public or private) between releases. It is also possible that a patch could alter any characteristic of any non-published e-Business Suite API. As such, those who choose to use these APIs do so at their own risk. However, Oracle does attempt to minimize all changes to public APIs, even if not published.

Note: In Applications release 11.5.9, many of the Applications' PL/SQL server side APIs have been enhanced to utilize the pass by reference semantics of PL/SQL. This improves performance considerably and reduces memory consumption. In the normal processing case (i.e. success), there is no change of behavior, and callers of these APIs are not impacted. However, in the case of exceptions, there is a behavior change which results in assignments being exposed to the caller, which are made in the API prior to any exceptions being raised. The previous behavior would rollback these assignments made by the API if an exception occurred in this API. Developers writing custom extensions to Oracle Applications, or third party integrators which use the standard Applications' APIs should be aware of this change in semantics.

The Common Application Components APIs

The public APIs provided by the Oracle Common Application Components and described in this document are divided into groups of public packages. There are one or more packages for each of the following Oracle Common Application Components modules covered here:

- Resource Manager
- Task Manager
- Notes

Each published API provides an API specification, and definitions as for its parameters, data structures, and status messages. Sample scripts and documented process flow diagrams are included where applicable.

Note: The words *procedure* and *API* are used interchangeably in this document.

1.1 Parameter Specifications

The specifications for the public APIs provided by the Oracle Common Application Components define four categories of parameters:

- Standard IN
- Standard OUT

- Procedure specific IN
- Procedure specific OUT

Standard IN and OUT parameters are specified by the Oracle Applications business object API Coding Standards, and are discussed in the following sections.

Procedure specific IN and OUT parameter are related to the API being specified, and are discussed with that individual API.

1.1.1 Standard IN Parameters

The following table describes standard IN parameters, which are common to all public APIs provided by Oracle Common Application Components.

Table 1–1 Standard IN Parameters

Parameter	Data Type	Required	Description
p_api_version	NUMBER	Yes	This must match the version number of the API. An unexpected error is returned if the calling program version number is incompatible with the current API version number (provided in the documentation).
p_init_msg_list	VARCHAR2	Yes	<p>The valid values for this parameter are:</p> <ul style="list-style-type: none"> ■ True = FND_API.G_TRUE ■ False = FND_API.G_FALSE ■ Default = FND_API.G_FALSE <p>If set to true, then the API makes a call to <i>fnd_msg_pub.initialize</i> to initialize the message stack. To set to true, use the value, "T".</p> <p>If set to false then the calling program must initialize the message stack. This action is required to be performed only once, even in the case where more than one API is called. To set to false, use the value, "F".</p>

Table 1–1 Standard IN Parameters

Parameter	Data Type	Required	Description
p_commit	VARCHAR2(1)	No	<p>The valid values for this parameter are:</p> <ul style="list-style-type: none"> ■ True = FND_API.G_TRUE ■ False = FND_API.G_FALSE ■ Default = FND_API.G_FALSE <p>If set to true, then the API commits before returning to the calling program. To set to true, use the value, "T".</p> <p>If set to false, then it is the calling program's responsibility to commit the transaction. To set to false, use the value, "F".</p>

1.1.2 Standard OUT Parameters

The following table describes standard OUT parameters, which are common to all public APIs provided by Oracle Common Application Components.

Note: All standard OUT parameters are required.

Table 1–2 Standard OUT Parameters

Parameter	Data Type	Description
x_return_status	VARCHAR2(1)	<p>Indicates the return status of the API. The values returned are one of the following:</p> <ul style="list-style-type: none"> ■ FND_API.G_RET_STS_SUCCESS Success: Indicates the API call was successful ■ FND_API.G_RET_STS_ERROR Expected Error: There is a validation error, or missing data error. ■ FND_API.G_RET_STS_UNEXP_ERROR Unexpected Error: The calling program can not correct the error.
x_msg_count	NUMBER	Holds the number of messages in the message list.

Table 1–2 Standard OUT Parameters

Parameter	Data Type	Description
x_msg_data	VARCHAR2(2000)	Holds the encoded message if <i>x_msg_count</i> is equal to one.

1.1.3 Parameter Size

Verify the size of the column from the base table for that column when passing a parameter of a specific length. For example, if you pass a NUMBER value, first query to find the exact value to pass. An incorrect value can cause the API call to fail.

1.1.4 Missing Parameter Attributes

The following table describes optional IN parameters which are initialized to pre-defined values representing missing constants. These constants are defined for the common PL/SQL data types and should be used in the initialization of the API formal parameters.

Table 1–3 Initialized IN Parameters

Parameter	Type	Initialized Value
G_MISS_NUM	CONSTANT	NUMBER:= 9.99E125
G_MISS_CHAR	CONSTANT	VARCHAR2(1):= chr(0)
G_MISS_DATE	CONSTANT	DATE:= TO_DATE('1','j');

These constants are defined in the package FND_API in the file *fnppapis.pls*. All columns in a record definition are set to the G_MISS_X constant as defined for the data type.

1.1.5 Parameter Validations

The following types of parameters are always validated during the API call:

- Standard IN
- Standard OUT
- Mandatory procedure specific IN
- Procedure specific OUT

1.1.6 Invalid Parameters

If the API encounters any invalid parameters during the API call, then one of the following actions will occur:

- An exception is raised.
- An error message identifying the invalid parameter is generated.
- All API actions are cancelled.

1.2 Version Information

It is mandatory that every API call pass a version number for that API as its first parameter (*p_api_version*).

This version number must match the internal version number of that API. An unexpected error is returned if the calling program version number is incompatible with the current API version number.

Warning: The currently supported version at this time is 1.0. Use only this for the API version number.

In addition, the object version number **must** be input for all update and delete APIs.

- If the *object_version_number* passed by the API matches that of the object in the database, then the update is completed.
- If the *object_version_number* passed by the API does not match that of the object in the database, then an error condition is generated.

1.3 Status Messages

Note: It is not required that all status notifications provide a number identifier along with the message, although, in many cases, it is provided.

Every API must return one of the following states as parameter *x_return_status* after the API is called:

- S (Success)

- E (Error)
- U (Unexpected error)

Each state can be associated with a status message. The following table describes each state.

Table 1–4 Status Message and Description

Status	Description
S	<p>Indicates that the API performed all the operations requested by its caller.</p> <ul style="list-style-type: none"> ■ A success return status may or may not be accompanied by messages in the API message list. ■ Currently, the Oracle Common Application Components APIs do not provide a message for a return status of success.
E	<p>Indicates that the API failed to perform one or more of the operations requested by its caller.</p> <p>An error return status is accompanied by one or more messages describing the error.</p>
U	<p>Indicates that the API encountered an error condition it did not expect, or could not handle, and that it is unable to continue with its regular processing.</p> <ul style="list-style-type: none"> ■ For example, certain programming errors such as attempting to divide by zero causes this error. ■ These types of errors usually cannot be corrected by the user and requires a system administrator or application developer to correct.

Warning and Information Messages

In addition to these three types of possible status messages, you can also code the following additional message types:

- Warnings
- Information

To create a warning message, perform the following steps:

1. Create a global variable to be used to signal a warning condition. For example, this could be similar to the following:

```
G_RET_STS_WARNING := 'W'
```

This global variable is not part of the FND_API package.

2. Return this value if the warning condition is encountered. For example, using the same example as in step one, set up the following code in the API to process the warning condition:

```
x_return_status := G_RET_STS_WARNING
```

This code replaces the more usual:

```
x_return_status := fnd_api.g_ret_sts_unexp_error for "U"
```

3. If desired, perform a similar procedure to create Information messages.

Resource Manager Public APIs

Resource Manager provides the Common Application Components with a common framework for importing, defining and viewing resources, creating teams and groups, and organizing resources within those teams and groups. Other Common Application Components access resources through Resource Manager. Resource Manager acts as the central repository and provides a consistent API interface for working with resources.

The following topics are discussed in this chapter:

- [Resource Manager Public Packages](#)
- [Messages and Notifications](#)
- [Sample Code](#)

2.1 Resource Manager Public Packages

There are three public Resource Manager packages:

- [Package JTF_RS_RESOURCE_PUB](#)
- [Package JTF_RS_GROUPS_PUB](#)
- [Package JTF_RS_SALESREPS_PUB](#)

Package JTF_RS_RESOURCE_PUB

All public procedures (APIs) relating to creating or updating a resource are stored in package JTF_RS_RESOURCE_PUB. This package contains the following APIs:

- [Create_Resource](#)
- [Update_Resource](#)

Package JTF_RS_GROUPS_PUB

All public procedures (APIs) relating to creating or updating a resource group are stored in package JTF_RS_GROUPS_PUB. This package contains the following APIs:

- [Create_Resource_Group](#)
- [Update_Resource_Group](#)

Package JTF_RS_SALESREPS_PUB

All public procedures (APIs) relating to creating or updating a salesperson are stored in package JTF_RS_SALESREPS_PUB. This package contains the following APIs:

- [Create_SalesRep](#)
- [Update_SalesRep](#)

2.1.1 Resource Manager Public APIs

The following table describes the public APIs which are discussed in this chapter.

Table 2–1 Resource Manager Public APIs

Procedure	Description
Create_Resource	Creates all categories of resources like Employee, Party, Supplier Contact, Other, Partner, and To Be Hired.
Update_Resource	Updates resource attributes like Resource Name, Start Date, End Date, and User Identifier.
Create_Resource_Group	Creates a Resource Group.
Update_Resource_Group	Updates Resource Group attributes such as Group Name, Group Description, Start and End Date effectively.
Create_SalesRep	Creates a salesperson. The API verifies the resource ID parameter from the jtf_rs_resourc_extns table.
Update_SalesRep	Updates SalesRep attributes like SalesRep Number, Sales Credit Type, Start and End Date effectively.

2.2 Package JTF_RS_RESOURCE_PUB

This package contains the following APIs:

- [Create_Resource](#)
- [Update_Resource](#)

2.2.1 Create_Resource

The Create_Resource API create s all resource categories including Employee, Party, Supplier Contact, and Other. Before creating the resource, the Create_Resource API first determines that it does not exist in the Resources table. After in creates the resource, the API inserts Call Center, Compensation, and Account Receivables information that pertain to the resource into resource tables and generates the following unique identifiers:

- resource_id
- resource_number

Resource Information versus Source Information

Within the Resource Manager, resource information and source information are two different types of information.

- **Resource** information (name, number, category, and similar items) is defined within the Resource Manager, or through its APIs. This information can be changed or modified at will.
- **Source** information (source_id, source_name, source_number, and similar items) are pulled into the Resource Manager from another "source." Information extracted from a source external to the Resource Manager is not changed by the Resource Manager or its APIs.

Example sources include:

- Oracle Human Resources tables
- Oracle HZ Party tables

Note: The calling application must pass in the resource name to both p_resource_name and p_source_name. To ensure correct operation of the API, neither of these values can be NULL.

Procedure Specification

PROCEDURE create_resource

```
(
  p_api_version          in number,
  p_init_msg_list       in varchar2 default fnd_api.g_false,
  p_commit              in varchar2 default fnd_api.g_false,
  p_category            in jtf_rs_resource_extns.category%type,
  p_source_id          in jtf_rs_resource_extns.source_id%type          default null,
  p_address_id         in jtf_rs_resource_extns.address_id%type       default null,
  p_contact_id         in jtf_rs_resource_extns.contact_id%type       default null,
  p_managing_emp_id    in jtf_rs_resource_extns.managing_employee_id%type default null,
  p_managing_emp_num   in per_employees_current_x.employee_num%type   default null,
  p_start_date_active  in jtf_rs_resource_extns.start_date_active%type,
  p_end_date_active    in jtf_rs_resource_extns.end_date_active%type   default null,
  p_time_zone          in jtf_rs_resource_extns.time_zone%type        default null,
  p_cost_per_hr        in jtf_rs_resource_extns.cost_per_hr%type       default null,
  p_primary_language   in jtf_rs_resource_extns.primary_language%type  default null,
  p_secondary_language in jtf_rs_resource_extns.secondary_language%type default null,
  p_support_site_id    in jtf_rs_resource_extns.support_site_id%type   default null,
  p_ies_agent_login    in jtf_rs_resource_extns.ies_agent_login%type    default null,
  p_server_group_id    in jtf_rs_resource_extns.server_group_id%type    default null,
  p_interaction_center_name in varchar2 default null,
  p_assigned_to_group_id in jtf_rs_resource_extns.assigned_to_group_id%type default null,
  p_cost_center        in jtf_rs_resource_extns.cost_center%type       default null,
  p_charge_to_cost_center in jtf_rs_resource_extns.charge_to_cost_center%type default null,
  p_comp_currency_code in jtf_rs_resource_extns.compensation_currency_code%type default null,
  p_commissionable_flag in jtf_rs_resource_extns.commissionable_flag%type default 'y',
  p_hold_reason_code   in jtf_rs_resource_extns.hold_reason_code%type   default null,
  p_hold_payment       in jtf_rs_resource_extns.hold_payment%type       default 'n',
  p_comp_service_team_id in jtf_rs_resource_extns.comp_service_team_id%type default null,
  p_user_id            in jtf_rs_resource_extns.user_id%type           default null,
  p_transaction_number in jtf_rs_resource_extns.transaction_number%type default null,
  x_return_status      out varchar2,
  x_msg_count          out number,
  x_msg_data           out varchar2,
  x_resource_id        out jtf_rs_resource_extns.resource_id%type,
  x_resource_number    out jtf_rs_resource_extns.resource_number%type,
  p_resource_name      in jtf_rs_resource_extns_tl.resource_name%type    default null,
  p_source_name        in jtf_rs_resource_extns.source_name%type,
  p_source_number      in jtf_rs_resource_extns.source_number%type       default null,
  p_source_job_title   in jtf_rs_resource_extns.source_job_title%type    default null,
  p_source_email       in jtf_rs_resource_extns.source_email%type       default null,
  p_source_phone       in jtf_rs_resource_extns.source_phone%type       default null,
  p_source_org_id      in jtf_rs_resource_extns.source_org_id%type       default null,
  p_source_org_name    in jtf_rs_resource_extns.source_org_name%type     default null,
```

```

p_source_address1      in  jtf_rs_resource_extns.source_address1%type      default null,
p_source_address2      in  jtf_rs_resource_extns.source_address2%type      default null,
p_source_address3      in  jtf_rs_resource_extns.source_address3%type      default null,
p_source_address4      in  jtf_rs_resource_extns.source_address4%type      default null,
p_source_city          in  jtf_rs_resource_extns.source_city%type          default null,
p_source_postal_code   in  jtf_rs_resource_extns.source_postal_code%type   default null,
p_source_state         in  jtf_rs_resource_extns.source_state%type         default null,
p_source_province     in  jtf_rs_resource_extns.source_province%type     default null,
p_source_county        in  jtf_rs_resource_extns.source_county%type        default null,
p_source_country       in  jtf_rs_resource_extns.source_country%type       default null,
p_source_mgr_id        in  jtf_rs_resource_extns.source_mgr_id%type        default null,
p_source_mgr_name      in  jtf_rs_resource_extns.source_mgr_name%type      default null,
p_source_business_grp_id in jtf_rs_resource_extns.source_business_grp_id%type default null,
p_source_business_grp_name in jtf_rs_resource_extns.source_business_grp_name%type default null,
p_source_first_name    in  jtf_rs_resource_extns.source_first_name%type    default null,
p_source_last_name     in  jtf_rs_resource_extns.source_last_name%type     default null,
p_source_middle_name   in  jtf_rs_resource_extns.source_middle_name%type   default null,
p_source_category      in  jtf_rs_resource_extns.source_category%type      default null,
p_source_status        in  jtf_rs_resource_extns.source_status%type        default null,
p_source_office        in  jtf_rs_resource_extns.source_office%type        default null,
p_source_location      in  jtf_rs_resource_extns.source_location%type      default null,
p_source_mailstop      in  jtf_rs_resource_extns.source_mailstop%type      default null,
p_user_name            varchar2,
p_source_mobile_phone  in  jtf_rs_resource_extns.source_mobile_phone%type  default null,
p_source_pager         in  jtf_rs_resource_extns.source_pager%type         default null
);

```

Current Version

1.0

Parameter Descriptions

The following table describes the IN parameters associated with this API.

Table 2–2 Create_Resource IN Parameters

Parameter	Data Type	Required	Descriptions and Validations
p_api_version	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_init_msg_list	VARCHAR2	No	See "Standard IN Parameters" on page 1-3.

Table 2–2 Create_Resource IN Parameters

Parameter	Data Type	Required	Descriptions and Validations
p_commit	VARCHAR2	No	See "Standard IN Parameters" on page 1-3.
p_category	jtf_rs_resource_extns.category%type	Yes	Type of resource, valid types are: <ul style="list-style-type: none"> ▪ EMPLOYEE ▪ PARTNER ▪ SUPPLIER_CONTACT ▪ OTHER ▪ PARTY ▪ TBH ▪ VENUE
p_source_id	jtf_rs_resource_extns.resource_id%type	No	Resource identifier, this parameter is only used with the following categories: <ul style="list-style-type: none"> ▪ EMPLOYEE ▪ VENUE ▪ PARTY ▪ SUPPLIER_CONTACT ▪ PARTNER
p_address_id	jtf_rs_resource_extns.address_id%type	No	Resource address.
p_contact_id	jtf_rs_resource_extns.contact_id%type	No	Resource contact identifier.
p_managing_emp_id	jtf_rs_resource_extns.managing_employee_id%type	No	Identifier for the manager of the resource.
p_managing_emp_num	per_employees_current_x.employee_num%type	No	Employee number of the resource's manager.
p_start_date_active	jtf_rs_resource_extns.start_date_active%type	Yes	Date on which the resource becomes active. This value can not be NULL, and the start date must be less than the end date.

Table 2–2 Create_Resource IN Parameters

Parameter	Data Type	Required	Descriptions and Validations
p_end_date_active	jtf_rs_resource_extns.end_date_active%type	No	Date on which the resource is no longer active. If no end date is provided, the resource is active indefinitely.
p_time_zone	jtf_rs_resource_extns.time_zone %type	No	Time zone, this value must be a valid time zone as defined in table HZ_TIMEZONES .
p_cost_per_hr	jtf_rs_resource_extns.cost_per_hr %type	No	The salary cost per hour for this resource. This value is used in conjunction with the p_comp_currency_code parameter.
p_primary_language	jtf_rs_resource_extns.primary_language %type	No	The resource's primary language. This value must be a valid NLS language as defined in table FND_LANGUAGES .
p_secondary_language	jtf_rs_resource_extns.secondary_language %type	No	The resource's secondary language. This value must be a valid NLS language as defined in table FND_LANGUAGES .
p_support_site_id	jtf_rs_resource_extns.support_site_id%type	No	Value used by the Service applications.
p_ies_agent_login	jtf_rs_resource_extns.ies_agent_login%type	No	Value used by Interaction Center applications (if using Oracle Scripting).
p_server_group_id	jtf_rs_resource_extns.server_group_id%type	No	Value used by Interaction Center applications.
p_interaction_center_name	VARCHAR2	No	Value used by Interaction Center applications.
p_assigned_to_group_id	jtf_rs_resource_extns.assigned_to_group_id%type	No	The group to which this resource is assigned.
p_cost_center	jtf_rs_resource_extns.cost_center%type	No	The cost center to which this resource is assigned.

Table 2–2 Create_Resource IN Parameters

Parameter	Data Type	Required	Descriptions and Validations
p_charge_to_cost_center	jtf_rs_resource_extns.charge_to_cost_center%type	No	Cost center to charge against, this may be different than the resource's current cost center.
p_comp_currency_code	jtf_rs_resource_extns.compensation_currency_code	No	Compensation currency type, this value must be a valid currency code as listed in table FND_CURRENCIES. This value is used in conjunction with the p_cost_per_hour parameter.
p_commissionable_flag	jtf_rs_resource_extns.commissionable_flag%type	No	Boolean value: <ul style="list-style-type: none"> ■ Yes - This resource is eligible for a commission. ■ No - This resource is not eligible for a commission. The default is Yes.
p_hold_reason_code	jtf_rs_resource_extns.hold_reason_code%type	No	The reason that compensation is being withheld. This value must be one of the lookup codes for JTF_RS_HOLD_REASON_TYPE in table FND_LOOKUPS.
p_hold_payment	jtf_rs_resource_extns.hold_payment%type	No	Boolean value: <ul style="list-style-type: none"> ■ Yes - Withhold compensation. ■ No - Do not withhold compensation. The default is No.
p_comp_service_team_id	jtf_rs_resource_extns.comp_service_team_id%type	No	The identifier for the team to which this resource belongs.

Table 2–2 Create_Resource IN Parameters

Parameter	Data Type	Required	Descriptions and Validations
p_user_id	jtf_rs_resource_extns.user_id%type	No	Specify this value only if the following categories are used: <ul style="list-style-type: none"> ■ EMPLOYEE ■ PARTY ■ 'SUPPLIER_CONTACT' If a category other than these three is specified, the API exits with an unexpected error condition. This value is validated against table FND_USERS.
p_transaction_number	jtf_rs_resource_extns.transaction_number%type	No	Transaction identifier
p_resource_name	jtf_rs_resource_extns_tl.resource_name%type	No	The calling application must pass the resource name.
p_source_name	jtf_rs_resource_extns.source_name%type	Yes	The calling application passes the source name. See Resource Information versus Source Information .
p_source_number	jtf_rs_resource_extns.source_number%type	No	See Resource Information versus Source Information .
p_source_job_title	jtf_rs_resource_extns.source_job_title%type	No	See Resource Information versus Source Information .
p_source_email	jtf_rs_resource_extns.source_email%type	No	See Resource Information versus Source Information .
p_source_phone	jtf_rs_resource_extns.source_phone%type	No	See Resource Information versus Source Information .
p_source_org_id	jtf_rs_resource_extns.source_org_id%type	No	See Resource Information versus Source Information .
p_source_org_name	jtf_rs_resource_extns.source_org_name%type	No	See Resource Information versus Source Information .
p_source_address1	jtf_rs_resource_extns.source_address1%type	No	See Resource Information versus Source Information .

Table 2–2 Create_Resource IN Parameters

Parameter	Data Type	Required	Descriptions and Validations
p_source_address2	jtf_rs_resource_extns.source_address2%type	No	See Resource Information versus Source Information .
p_source_address3	jtf_rs_resource_extns.source_address3%type	No	See Resource Information versus Source Information .
p_source_address4	jtf_rs_resource_extns.source_address4%type	No	See Resource Information versus Source Information .
p_source_city	jtf_rs_resource_extns.source_city%type	No	See Resource Information versus Source Information .
p_source_postal_code	jtf_rs_resource_extns.source_postal_code%type	No	See Resource Information versus Source Information .
p_source_state	jtf_rs_resource_extns.source_state%type	No	See Resource Information versus Source Information .
p_source_province	jtf_rs_resource_extns.source_province%type	No	See Resource Information versus Source Information .
p_source_county	jtf_rs_resource_extns.source_county%type	No	See Resource Information versus Source Information .
p_source_country	jtf_rs_resource_extns.source_country%type	No	See Resource Information versus Source Information .
p_source_mgr_id	jtf_rs_resource_extns.source_mgr_id%type	No	See Resource Information versus Source Information .
p_source_mgr_name	jtf_rs_resource_extns.source_mgr_name%type	No	See Resource Information versus Source Information .
p_source_business_grp_id	jtf_rs_resource_extns.source_business_grp_id%type	No	See Resource Information versus Source Information .
p_source_business_grp_name	jtf_rs_resource_extns.source_business_grp_name%type	No	See Resource Information versus Source Information .
p_source_first_name	jtf_rs_resource_extns.source_first_name%type	No	See Resource Information versus Source Information .
p_source_last_name	jtf_rs_resource_extns.source_last_name%type	No	See Resource Information versus Source Information .
p_source_middle_name	jtf_rs_resource_extns.source_middle_name%type	No	See Resource Information versus Source Information .
p_source_category	jtf_rs_resource_extns.source_category%type	No	See Resource Information versus Source Information .

Table 2–2 Create_Resource IN Parameters

Parameter	Data Type	Required	Descriptions and Validations
p_source_status	jtf_rs_resource_extns.source_status%type	No	See Resource Information versus Source Information .
p_source_office	jtf_rs_resource_extns.source_office%type	No	See Resource Information versus Source Information .
p_source_location	jtf_rs_resource_extns.source_location%type	No	See Resource Information versus Source Information .
p_source_mailstop	jtf_rs_resource_extns.source_mailstop%type	No	See Resource Information versus Source Information .
p_user_name	VARCHAR2	Yes	The identifier of the person entering values into the source.
p_source_mobile_phone	jtf_rs_resource_extns.source_mobile_phone%type	No	See Resource Information versus Source Information .
p_source_pager	jtf_rs_resource_extns.source_pager%type	No	See Resource Information versus Source Information .

The following table describes the OUT parameters associated with this API.

Table 2–3 Create_Resource OUT Parameters

Parameter	Data type	Description
x_return_status	VARCHAR2	See " Standard OUT Parameters " on page 1-4.
x_msg_count	NUMBER	See " Standard OUT Parameters " on page 1-4.
x_msg_data	VARCHAR2	See " Standard OUT Parameters " on page 1-4.
x_resource_id	jtf_rs_resource_extns.resource_id %type	The automatically generated resource identifier that is created through an internal call to JTF_RS_RESOURCE_EXTNS_S.
x_resource_number	jtf_rs_resource_extns.resource_number %type	The automatically generated resource number that is created through an internal call to JTF_RS_RESOURCE_NUMBER_S.

2.2.2 Update_Resource

The Update_Resource API updates resource attributes such as Resource Name, Start Date, End Date, and User ID. Before updating these attributes, the API first verifies

that the resource exists in the Resources table. The Update_Resource API updates resource information in the Call Center, Compensation, and the Account Receivables tables.

Procedure Specification

PROCEDURE update_resource

```
(
  p_api_version      in  number,
  p_init_msg_list    in  varchar2                                default fnd_api.g_false,
  p_commit           in  varchar2                                default fnd_api.g_false,
  p_resource_id      in  jtf_rs_resource_extns.resource_id%type,
  p_resource_number  in  jtf_rs_resource_extns.resource_number%type,
  p_managing_emp_id  in  jtf_rs_resource_extns.managing_employee_id%type    default fnd_api.g_miss_num,
  p_start_date_active in  jtf_rs_resource_extns.start_date_active%type      default fnd_api.g_miss_date,
  p_end_date_active  in  jtf_rs_resource_extns.end_date_active%type          default fnd_api.g_miss_date,
  p_time_zone        in  jtf_rs_resource_extns.time_zone%type              default fnd_api.g_miss_num,
  p_cost_per_hr      in  jtf_rs_resource_extns.cost_per_hr%type            default fnd_api.g_miss_num,
  p_primary_language in  jtf_rs_resource_extns.primary_language%type       default fnd_api.g_miss_char,
  p_secondary_language in jtf_rs_resource_extns.secondary_language%type     default fnd_api.g_miss_char,
  p_support_site_id  in  jtf_rs_resource_extns.support_site_id%type         default fnd_api.g_miss_num,
  p_ies_agent_login  in  jtf_rs_resource_extns.ies_agent_login%type         default fnd_api.g_miss_char,
  p_server_group_id  in  jtf_rs_resource_extns.server_group_id%type        default fnd_api.g_miss_num,
  p_assigned_to_group_id in jtf_rs_resource_extns.assigned_to_group_id%type default fnd_api.g_miss_num,
  p_cost_center      in  jtf_rs_resource_extns.cost_center%type           default fnd_api.g_miss_char,
  p_charge_to_cost_center in jtf_rs_resource_extns.charge_to_cost_center%type default fnd_api.g_miss_char,
  p_comp_currency_code in jtf_rs_resource_extns.compensation_currency_code%type
                                                                default fnd_api.g_miss_char,
  p_commissionable_flag in jtf_rs_resource_extns.commissionable_flag%type  default fnd_api.g_miss_char,
  p_hold_reason_code in  jtf_rs_resource_extns.hold_reason_code%type       default fnd_api.g_miss_char,
  p_hold_payment     in  jtf_rs_resource_extns.hold_payment%type           default fnd_api.g_miss_char,
  p_comp_service_team_id in jtf_rs_resource_extns.comp_service_team_id%type default fnd_api.g_miss_num,
  p_user_id          in  jtf_rs_resource_extns.user_id%type                default fnd_api.g_miss_num,
  p_resource_name    in  jtf_rs_resource_extns_tl.resource_name%type       default fnd_api.g_miss_char,
  p_source_name      in  jtf_rs_resource_extns.source_name%type,
  p_source_number    in  jtf_rs_resource_extns.source_number%type          default fnd_api.g_miss_char,
  p_source_job_title in  jtf_rs_resource_extns.source_job_title%type       default fnd_api.g_miss_char,
  p_source_email     in  jtf_rs_resource_extns.source_email%type           default fnd_api.g_miss_char,
  p_source_phone     in  jtf_rs_resource_extns.source_phone%type           default fnd_api.g_miss_char,
  p_source_org_id    in  number                                             default fnd_api.g_miss_num,
  p_source_org_name  in  jtf_rs_resource_extns.source_org_name%type        default fnd_api.g_miss_char,
  p_source_address1  in  jtf_rs_resource_extns.source_address1%type        default fnd_api.g_miss_char,
  p_source_address2  in  jtf_rs_resource_extns.source_address2%type        default fnd_api.g_miss_char,
  p_source_address3  in  jtf_rs_resource_extns.source_address3%type        default fnd_api.g_miss_char,
  p_source_address4  in  jtf_rs_resource_extns.source_address4%type        default fnd_api.g_miss_char,
  p_source_city      in  jtf_rs_resource_extns.source_city%type            default fnd_api.g_miss_char,
  p_source_postal_code in jtf_rs_resource_extns.source_postal_code%type     default fnd_api.g_miss_char,
  p_source_state     in  jtf_rs_resource_extns.source_state%type           default fnd_api.g_miss_char,
  p_source_province  in  jtf_rs_resource_extns.source_province%type        default fnd_api.g_miss_char,
```

```

p_source_county      in  jtf_rs_resource_extns.source_county%type      default fnd_api.g_miss_char,
p_source_country     in  jtf_rs_resource_extns.source_country%type      default fnd_api.g_miss_char,
p_source_mgr_id      in  jtf_rs_resource_extns.source_mgr_id%type        default fnd_api.g_miss_num,
p_source_mgr_name    in  jtf_rs_resource_extns.source_mgr_name%type      default fnd_api.g_miss_char,
p_source_business_grp_id in jtf_rs_resource_extns.source_business_grp_id%type
                                                              default fnd_api.g_miss_num,
p_source_business_grp_name in jtf_rs_resource_extns.source_business_grp_name%type
                                                              default fnd_api.g_miss_char,
p_source_first_name  in  jtf_rs_resource_extns.source_first_name%type          default fnd_api.g_miss_char,
p_source_last_name   in  jtf_rs_resource_extns.source_last_name%type           default fnd_api.g_miss_char,
p_source_middle_name in  jtf_rs_resource_extns.source_middle_name%type default fnd_api.g_miss_char,
p_source_category    in  jtf_rs_resource_extns.source_category%type            default fnd_api.g_miss_char,
p_source_status      in  jtf_rs_resource_extns.source_status%type              default fnd_api.g_miss_char,
p_source_office      in  jtf_rs_resource_extns.source_office%type               default fnd_api.g_miss_char,
p_source_location    in  jtf_rs_resource_extns.source_location%type            default fnd_api.g_miss_char,
p_source_mailstop    in  jtf_rs_resource_extns.source_mailstop%type            default fnd_api.g_miss_char,
p_address_id         in  jtf_rs_resource_extns.address_id%type                  default fnd_api.g_miss_num,
p_object_version_num in out jtf_rs_resource_extns.object_version_number%type,
p_user_name          in  varchar2
x_return_status      out varchar2,
x_msg_count          out number,
x_msg_data           out varchar2,
p_source_mobile_phone in jtf_rs_resource_extns.source_mobile_phone%type default null,
p_source_pager       in  jtf_rs_resource_extns.source_pager%type default null
);

```

Current Version

1.0

Parameter Descriptions

The following table describes the IN parameters associated with this API.

Table 2–4 Update_Resource IN Parameters

Parameter	Data Type	Required	Descriptions and Validations
p_api_version	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_init_msg_list	VARCHAR2	No	See "Standard IN Parameters" on page 1-3.
p_commit	VARCHAR2	No	See "Standard IN Parameters" on page 1-3.

Table 2–4 Update_Resource IN Parameters

Parameter	Data Type	Required	Descriptions and Validations
p_resource_id	jtf_rs_resource_extns.resource_id %type	Yes	This value is created through an internal call in the Create_Resource API. The reference identifier is validated for existence in JTF_RS_RESOURCE_EXTNS.
p_resource_number	jtf_rs_resource_extns.resource_number%type	Yes	This value is created through an internal call in the Create_Resource API. The reference number is validated for existence in JTF_RS_RESOURCE_EXTNS.
p_managing_emp_id	jtf_rs_resource_extns.managing_employee_id%type	No	Identifier for the manager of the resource.
p_managing_emp_num	per_employees_current_x.employee_num%type	No	Employee number of the resource's manager.
p_start_date_active	jtf_rs_resource_extns.start_date_active%type	No	Date on which the resource becomes active. This value can not be NULL, and the start date must be less than the end date.
p_end_date_active	jtf_rs_resource_extns.end_date_active%type	No	Date on which the resource is no longer active. If no end date is provided, the resource is active indefinitely.
p_time_zone	jtf_rs_resource_extns.time_zone %type	No	Time zone, this value must be a valid time zone as defined in table HZ_TIMEZONES .
p_cost_per_hr	jtf_rs_resource_extns.cost_per_hr %type	No	The salary cost per hour for this resource.
p_primary_language	jtf_rs_resource_extns.primary_language %type	No	The resource's primary language. This value must be a valid NLS language as defined in table FND_LANGUAGES .
p_secondary_language	jtf_rs_resource_extns.secondary_language %type	No	The resource's secondary language. This value must be a valid NLS language as defined in table FND_LANGUAGES .

Table 2-4 Update_Resource IN Parameters

Parameter	Data Type	Required	Descriptions and Validations
p_support_site_id	jtf_rs_resource_extns.support_site_id%type	No	Value used by Service applications.
p_ies_agent_login	jtf_rs_resource_extns.ies_agent_login%type	No	Value used by Interaction Center applications (if using Oracle Scripting).
p_server_group_id	jtf_rs_resource_extns.server_group_id%type	No	Value used by Interaction Center applications.
p_assigned_to_group_id	jtf_rs_resource_extns.assigned_to_group_id%type	No	The group to which this resource is assigned.
p_cost_center	jtf_rs_resource_extns.cost_center%type	No	The cost center to which this resource is assigned.
p_charge_to_cost_center	jtf_rs_resource_extns.charge_to_cost_center%type	No	Cost center to charge against, this may be different than the resources current cost center.
p_comp_currency_code	jtf_rs_resource_extns.compensation_currency_code	No	Compensation currency type, this value must be a valid currency code as listed in view FND_CURRENCIES_ACTIVE_MONET_V (from table FND_CURRENCIES) .
p_commissionable_flag	jtf_rs_resource_extns.commissionable_flag%type	No	Boolean value: <ul style="list-style-type: none"> ■ Yes - This resource is eligible for a commission. ■ No - This resource is not eligible for a commission. The default is Yes.
p_hold_reason_code	jtf_rs_resource_extns.hold_reason_code%type	No	The reason that compensation is being withheld. This value must be one of the lookup codes for JTF_RS_HOLD_REASON_TYPE in table FND_LOOKUPS.

Table 2–4 Update_Resource IN Parameters

Parameter	Data Type	Required	Descriptions and Validations
p_hold_payment	jtf_rs_resource_extns.hold_payment%type	No	Boolean value: <ul style="list-style-type: none"> ■ Yes - Withhold compensation. ■ No - Do not withhold compensation. The default is No.
p_comp_service_team_id	jtf_rs_resource_extns.comp_service_team_id%type	No	The identifier for the team to which this resource belongs.
p_user_id	jtf_rs_resource_extns.user_id%type	No	Specify this value only if the following categories are used: <ul style="list-style-type: none"> ■ EMPLOYEE ■ PARTY ■ 'SUPPLIER_CONTACT' If a category other than these three is specified, the API exits with an unexpected error condition. <p>This value is validated against table FND_USERS.</p>
p_resource_name	jtf_rs_resource_extns_tl.resource_name%type	No	The calling application must pass the resource name. This value can not be NULL.
p_source_name	jtf_rs_resource_extns.source_name%type	Yes	The calling application must pass the resource name. This value can not be NULL. <p>See Resource Information versus Source Information.</p>
p_source_number	jtf_rs_resource_extns.source_number%type	No	See Resource Information versus Source Information .
p_source_job_title	jtf_rs_resource_extns.source_job_title%type	No	See Resource Information versus Source Information .
p_source_email	jtf_rs_resource_extns.source_email%type	No	See Resource Information versus Source Information .
p_source_phone	jtf_rs_resource_extns.source_phone%type	No	See Resource Information versus Source Information .

Table 2-4 Update_Resource IN Parameters

Parameter	Data Type	Required	Descriptions and Validations
p_source_org_id	jtf_rs_resource_extns.source_org_id%type	No	See Resource Information versus Source Information .
p_source_org_name	jtf_rs_resource_extns.source_org_name%type	No	See Resource Information versus Source Information .
p_source_address1	jtf_rs_resource_extns.source_address1%type	No	See Resource Information versus Source Information .
p_source_address2	jtf_rs_resource_extns.source_address2%type	No	See Resource Information versus Source Information .
p_source_address3	jtf_rs_resource_extns.source_address3%type	No	See Resource Information versus Source Information .
p_source_address4	jtf_rs_resource_extns.source_address4%type	No	See Resource Information versus Source Information .
p_source_city	jtf_rs_resource_extns.source_city%type	No	See Resource Information versus Source Information .
p_source_postal_code	jtf_rs_resource_extns.source_postal_code%type	No	See Resource Information versus Source Information .
p_source_state	jtf_rs_resource_extns.source_state%type	No	See Resource Information versus Source Information .
p_source_province	jtf_rs_resource_extns.source_province%type	No	See Resource Information versus Source Information .
p_source_county	jtf_rs_resource_extns.source_county%type	No	See Resource Information versus Source Information .
p_source_country	jtf_rs_resource_extns.source_country%type	No	See Resource Information versus Source Information .
p_source_mgr_id	jtf_rs_resource_extns.source_mgr_id%type	No	See Resource Information versus Source Information .
p_source_mgr_name	jtf_rs_resource_extns.source_mgr_name%type	No	See Resource Information versus Source Information .
p_source_business_grp_id	jtf_rs_resource_extns.source_business_grp_id%type	No	See Resource Information versus Source Information .
p_source_business_grp_name	jtf_rs_resource_extns.source_business_grp_name%type	No	See Resource Information versus Source Information .
p_source_first_name	jtf_rs_resource_extns.source_first_name%type	No	See Resource Information versus Source Information .

Table 2–4 Update_Resource IN Parameters

Parameter	Data Type	Required	Descriptions and Validations
p_source_last_name	jtf_rs_resource_extns.source_last_name%type	No	See Resource Information versus Source Information .
p_source_middle_name	jtf_rs_resource_extns.source_middle_name%type	No	See Resource Information versus Source Information .
p_source_category	jtf_rs_resource_extns.source_category%type	No	See Resource Information versus Source Information .
p_source_status	jtf_rs_resource_extns.source_status%type	No	See Resource Information versus Source Information .
p_source_office	jtf_rs_resource_extns.source_office%type	No	See Resource Information versus Source Information .
p_source_location	jtf_rs_resource_extns.source_location%type	No	See Resource Information versus Source Information .
p_source_mailstop	jtf_rs_resource_extns.source_mailstop%type	No	See Resource Information versus Source Information .
p_address_id	jtf_rs_resource_extns.address_id%type	No	See Resource Information versus Source Information .
p_object_version_num	jtf_rs_resource_extns.object_version_number%type,	Yes	The object version number of the resource ID derives from the jtf_rs_resource_extns table.
p_user_name	VARCHAR2	No	The name of the person entering values into the source.
p_source_mobile_phone	jtf_rs_resource_extns.source_mobile_phone%type	No	See Resource Information versus Source Information .
p_source_pager	jtf_rs_resource_extns.source_pager%type	No	See Resource Information versus Source Information .

The following table describes the OUT parameters associated with this API.

Table 2–5 Update_Resource OUT Parameters

Parameter	Data Type	Descriptions
x_return_status	VARCHAR2	See "Standard OUT Parameters" on page 1-4.
x_msg_count	NUMBER	See "Standard OUT Parameters" on page 1-4.
x_msg_data	VARCHAR2	See "Standard OUT Parameters" on page 1-4.

2.3 Package JTF_RS_GROUPS_PUB

This package contains the following APIs:

- [Create_Resource_Group](#)
- [Update_Resource_Group](#)

2.3.1 Create_Resource_Group

The Create_Resource Group API creates a Resource Group and generates the *group_id* number.

Procedure Specification

```
PROCEDURE create_resource_group
(
  p_api_version          in  number,
  p_init_msg_list       in  varchar2  default fnd_api.g_false,
  p_commit              in  varchar2  default fnd_api.g_false,
  p_group_name          in  jtf_rs_groups_vl.group_name%type,
  p_group_desc          in  jtf_rs_groups_vl.group_desc%type          default null,
  p_exclusive_flag      in  jtf_rs_groups_vl.exclusive_flag%type    default 'n',
  p_email_address       in  jtf_rs_groups_vl.email_address%type     default null,
  p_start_date_active   in  jtf_rs_groups_vl.start_date_active%type,
  p_end_date_active     in  jtf_rs_groups_vl.end_date_active%type   default null,
  p_accounting_code     in  jtf_rs_groups_vl.accounting_code%type   default null,
  x_return_status       out  varchar2,
  x_msg_count           out  number,
  x_msg_data            out  varchar2,
  x_group_id            out  jtf_rs_groups_vl.group_id%type,
  x_group_number        out  jtf_rs_groups_vl.group_number%type
);
```

Current Version

1.0

Parameter Descriptions

The following table describes the IN parameters associated with this API.

Table 2–6 Create_Resource_Group IN Parameters

Parameter	Data Type	Required	Descriptions and Validations
p_api_version	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_init_msg_list	VARCHAR2	No	See "Standard IN Parameters" on page 1-3.
p_commit	VARCHAR2	No	See "Standard IN Parameters" on page 1-3.
p_group_name	jtf_rs_groups_vl.group_name%type	Yes	The name of the resource group.
p_group_desc	jtf_rs_groups_vl.group_desc%type	No	A description of the resource group.
p_exclusive_flag	jtf_rs_groups_vl.exclusive_flag%type	No	<p>Boolean value:</p> <ul style="list-style-type: none"> ■ Yes - Assign resources only to this group with a particular member role and group usage that is not assigned to any other exclusive group with the same role and usage in the same time frame. ■ No - Disable this feature. <p>If p_exclusive_flag is set to yes, then you can assign resources only to this group with a particular member role and group usage that is not assigned to any other exclusive group with the same role and usage in the same time frame.</p> <p>Because you specify the resource in this group exclusively, the same resource with the same member roles cannot be assigned to another group during the overlapping time frame.</p>

Table 2-6 Create_Resource_Group IN Parameters

Parameter	Data Type	Required	Descriptions and Validations
p_email_address	jtf_rs_groups_vl.email_address%type	No	The email address of the group owner.
p_start_date_active	jtf_rs_groups_vl.start_date_active%type	Yes	Date on which the resource group becomes active. This value can not be NULL, and the start date must be less than the end date.
p_end_date_active	jtf_rs_groups_vl.end_date_active%type	No	Date on which the resource group is no longer active. If no end date is provided, the group is active indefinitely.
p_accounting_code	jtf_rs_groups_vl.accounting_code%type	No	Account code, for internal use only.

The following table describes the OUT parameters associated with this API.

Table 2-7 Create_Resource OUT Parameters

Parameter	Data Type	Descriptions
x_return_status	VARCHAR2	See " Standard OUT Parameters " on page 1-4.
x_msg_count	NUMBER	See " Standard OUT Parameters " on page 1-4.
x_msg_data	VARCHAR2	See " Standard OUT Parameters " on page 1-4.
x_group_id	jtf_rs_groups_vl.group_id%type,	The automatically generated group identifier that is created through an internal call to JTF_RS_GROUPS_S.
x_group_number	jtf_rs_groups_vl.group_number%type	The automatically generated group number that is created through an internal call to JTF_RS_GROUP_NUMBER_S.

2.3.2 Update_Resource_Group

The Update_Resource API updates resource group attributes such as Group Name, Group Description, Start and End Date effectively.

Procedure Specification

```
PROCEDURE update_resource_group
(
```

```

p_api_version          in number,
p_init_msg_list        in varchar2                default fnd_api.g_false,
p_commit              in varchar2                default fnd_api.g_false,
p_group_id            in jtf_rs_groups_vl.group_id%type,
p_group_number        in jtf_rs_groups_vl.group_number%type,
p_group_name          in jtf_rs_groups_vl.group_name%type    default fnd_api.g_miss_char,
p_group_desc          in jtf_rs_groups_vl.group_desc%type    default fnd_api.g_miss_char,
p_exclusive_flag      in jtf_rs_groups_vl.exclusive_flag%type default fnd_api.g_miss_char,
p_email_address       in jtf_rs_groups_vl.email_address%type default fnd_api.g_miss_char,
p_start_date_active   in jtf_rs_groups_vl.start_date_active%type default fnd_api.g_miss_date,
p_end_date_active     in jtf_rs_groups_vl.end_date_active%type default fnd_api.g_miss_date,
p_accounting_code     in jtf_rs_groups_vl.accounting_code%type    default fnd_api.g_miss_char,
p_object_version_num  in out jtf_rs_groups_vl.object_version_number%type,
x_return_status       out varchar2,
x_msg_count           out number,
x_msg_data            out varchar2
);

```

Current Version

1.0

Parameter Descriptions

The following table describes the IN parameters associated with this API.

Table 2–8 Update_Resource_Group IN Parameters

Parameter	Data Type	Required	Descriptions and Validations
p_api_version	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_init_msg_list	VARCHAR2	No	See "Standard IN Parameters" on page 1-3.
p_commit	VARCHAR2	No	See "Standard IN Parameters" on page 1-3.
p_group_id	jtf_rs_groups_vl.group_id%type	Yes	The value is created through an internal call in the Create_Resource API. This parameter is validated for existence in table JTF_RS_GROUPS_B.
p_group_number	jtf_rs_groups.group_id%type	No	The value is created through an internal call in the Create_Resource API.

Table 2–8 Update_Resource_Group IN Parameters

Parameter	Data Type	Required	Descriptions and Validations
p_group_name	jtf_rs_groups_vl. group_name%type	Yes	The name of the resource group.
p_group_desc	jtf_rs_groups_vl. group_desc%type	No	A description of the resource group.
p_exclusive_flag	jtf_rs_groups_vl. exclusive_flag%type	No	<p>Boolean value:</p> <ul style="list-style-type: none"> ■ Yes - Assign resources only to this group with a particular member role and group usage that is not assigned to any other exclusive group with the same role and usage in the same time frame. ■ No - Disable this feature. <p>If p_exclusive_flag is set to yes, then you can assign resources only to this group with a particular member role and group usage that is not assigned to any other exclusive group with the same role and usage in the same time frame.</p> <p>Because you specify the resource in this group exclusively, the same resource with the same member roles cannot be assigned to another group during the overlapping time frame.</p> <p>The default is No.</p>
p_email_address	jtf_rs_groups_vl. email_address%type	No	The email address of the group owner.
p_start_date_active	jtf_rs_groups_vl. start_date_active%type	Yes	Date on which the resource group becomes active. This value can not be NULL, and the start date must be less than the end date.

Table 2–8 Update_Resource_Group IN Parameters

Parameter	Data Type	Required	Descriptions and Validations
p_end_date_active	jtf_rs_groups_vl.end_date_active%type	No	Date on which the resource group is no longer active. If no end date is provided, the resource is active indefinitely.
p_accounting_code	jtf_rs_groups_vl.accounting_code%type	No	Account Code, for internal use only.
p_object_version_num	jtf_rs_groups_vl.object_version_number%type	Yes	The object version number of the group ID derives from the jtf_rs_groups_extns table.

The following table describes the OUT parameters associated with this API.

Table 2–9 Update_Resource_Group OUT Parameters

Parameter	Data Type	Descriptions
x_return_status	VARCHAR2	See "Standard OUT Parameters" on page 1-4.
x_msg_count	NUMBER	See "Standard OUT Parameters" on page 1-4.
x_msg_data	VARCHAR2	See "Standard OUT Parameters" on page 1-4.

2.4 Package JTF_RS_SALESREPS_PUB

This package contains the following APIs:

- [Create_SalesRep](#)
- [Update_SalesRep](#)

2.4.1 Create_SalesRep

The Create_SalesRep API creates a resource of type Salesrep. The API verifies the resource ID parameter from the JTF_RS_RESOURCE_EXTNS table which is created using the Create_Resource API.

2.4.1.1 Setting the org_context

When using a script to call the the Create_Salesrep API, the following commands must be used to properly set the org_context:

```
mo_global.set_org_context(999, NULL);
```

where 999 is the org_id parameter value to which the context is set. This should be done every time you call the Create_Salesrep API.

Procedure Specification

```
PROCEDURE create_salesrep
(
  p_api_version          in    number,
  p_init_msg_list       in    varchar2  default fnd_api.g_false,
  p_commit              in    varchar2  default fnd_api.g_false,
  p_resource_id         in    jtf_rs_salesreps.resource_id%type,
  p_sales_credit_type_id in    jtf_rs_salesreps.sales_credit_type_id%type,
  p_name               in    jtf_rs_salesreps.name%type                default null,
  p_status             in    jtf_rs_salesreps.status%type            default null,
  p_start_date_active  in    jtf_rs_salesreps.start_date_active%type default null,
  p_end_date_active    in    jtf_rs_salesreps.end_date_active%type   default sysdate,
  p_gl_id_rev          in    jtf_rs_salesreps.gl_id_rev%type         default null,
  p_gl_id_freight      in    jtf_rs_salesreps.gl_id_freight%type     default null,
  p_gl_id_rec          in    jtf_rs_salesreps.gl_id_rec%type        default null,
  p_set_of_books_id    in    jtf_rs_salesreps.set_of_books_id%type   default null,
  p_salesrep_number    in    jtf_rs_salesreps.salesrep_number%type   default null,
  p_email_address      in    jtf_rs_salesreps.email_address%type    default null,
  p_wh_update_date     in    jtf_rs_salesreps.wh_update_date%type   default null,
  p_sales_tax_geocode  in    jtf_rs_salesreps.sales_tax_geocode%type default null,
  p_sales_tax_inside_city_limits in jtf_rs_salesreps.sales_tax_inside_city_limits%type
                                                                    default null,

  x_return_status      out    varchar2,
  x_msg_count          out    number,
  x_msg_data           out    varchar2,
  x_salesrep_id        out    jtf_rs_salesreps.salesrep_id%type
);
```

Current Version

1.0

Parameter Descriptions

The following table describes the IN parameters associated with this API.

Table 2–10 Create_SalesRep IN Parameters

Parameter	Data Type	Required	Descriptions and Validations
p_api_version	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_init_msg_list	VARCHAR2	No	See "Standard IN Parameters" on page 1-3.
p_commit	VARCHAR2	No	See "Standard IN Parameters" on page 1-3.
p_resource_id	jtf_rs_salesreps.resource_id%type	Yes	This value is created through an internal call in the Create_Resource API. The reference identifier is validated for existence in JTF_RS_RESOURCE_EXTNS.
p_sales_credit_type_id	jtf_rs_salesreps.sales_credit_type_id%type	Yes	This value is validated against table OE_SALES_CREDIT_TYPES.
p_name	jtf_rs_salesreps.name%type	No	The sales person's name.
p_status	jtf_rs_salesreps.status%type	No	The status of this salesperson. For example, this could be set to Active.
p_start_date_active	jtf_rs_salesreps.start_date_active%type	No	Date on which the salesperson becomes active. This value can not be NULL, and the start date must be less than the end date.
p_end_date_active	jtf_rs_salesreps.end_date_active%type	No	The effective end date for the salespersons. If no end date is provided, the salesperson is active indefinitely.
p_gl_id_rev	jtf_rs_salesreps.gl_id_rev%type	No	Accounting flexfield used for Revenue accounts. This value is used by Oracle Accounts Receivables only to determine the revenue accounts for invoices assigned to this salesperson.

Table 2–10 Create_SalesRep IN Parameters

Parameter	Data Type	Required	Descriptions and Validations
p_gl_id_freight	jtf_rs_salesreps.gl_id_frieght%type	No	Accounting flexfield used for Freight accounts. This value is used by Oracle Accounts Receivables only to determine the freight accounts for invoices assigned to this salesperson.
p_gl_id_rec	jtf_rs_salesreps.gl_id_rec%type	No	Accounting flexfield used for Receivables accounts. This value is used by Oracle Accounts Receivables only to determine the receivable accounts for invoices assigned to this salesperson.
p_set_of_books_id	jtf_rs_salesreps.set_of_books_id%type	No	Set of books identifier, used by Oracle Accounts Receivables.
p_salesrep_number	jtf_rs_salesreps.salesrep_number%type	No	This typical alphanumeric designation is user generated.
p_email_address	jtf_rs_salesreps.email_address%type	No	Email address of the salesperson.
p_wh_update_date	jtf_rs_salesreps.wh_update_date%type	No	This date is sent to the data warehouse. This parameter is used for backwards compatibility with Oracle Accounts Receivables and is written to table RA_SALESREPS_ALL.
p_sales_tax_geocode	jtf_rs_salesreps.sales_tax_geocode%type	No	Sales tax code, it associates the salesperson with a unique tax jurisdiction. Use only if a sales tax vendor is also installed.
p_sales_tax_inside_city_limits	jtf_rs_salesreps.sales_tax_inside_city_limits%type	No	Indicates that the tax jurisdiction for this address is within city limits. Use only if a value for p_sales_tax_geocode is supplied.

The following table describes the OUT parameters associated with this API.

Table 2–11 Create_SalesRep OUT Parameters

Parameter	Data Type	Description
x_return_status	VARCHAR2	See "Standard OUT Parameters" on page 1-4.
x_msg_count	NUMBER	See "Standard OUT Parameters" on page 1-4.
x_msg_data	VARCHAR2	See "Standard OUT Parameters" on page 1-4.
x_salesrep_id	jtf_rs_salesrep.salesrep_id%type	The automatically generated salesperson identifier that is created through an internal call to JTF_RS_SALESREPS_S.

2.4.2 Update_SalesRep

The Update_SalesRep API updates SalesRep attributes such as Salesperson Number, Sales Credit Type, Start and End Date.

2.4.2.1 Setting the org_context

When using a script to call the the Update_Salesrep API, the following commands must be used to properly set the org_context:

```
mo_global.set_org_context(999, NULL);
```

where 999 is the org_id parameter value to which the context is set. This should be done every time you call the Update_Salesrep API.

Procedure Specification

```
PROCEDURE update_salesrep
(
  p_api_version          in    number,
  p_init_msg_list       in    varchar2                                default fnd_api.g_false,
  p_commit              in    varchar2                                default fnd_api.g_false,
  p_salesrep_id         in    jtf_rs_salesreps.salesrep_id%type,
  p_sales_credit_type_id in    jtf_rs_salesreps.sales_credit_type_id%type,
  p_name                in    jtf_rs_salesreps.name%type            default fnd_api.g_miss_char,
  p_status              in    jtf_rs_salesreps.status%type         default fnd_api.g_miss_char,
  p_start_date_active   in    jtf_rs_salesreps.start_date_active%type default fnd_api.g_miss_date,
  p_end_date_active     in    jtf_rs_salesreps.end_date_active%type default fnd_api.g_miss_date,
  p_gl_id_rev           in    jtf_rs_salesreps.gl_id_rev%type       default fnd_api.g_miss_num,
  p_gl_id_freight       in    jtf_rs_salesreps.gl_id_freight%type   default fnd_api.g_miss_num,
```

```

p_gl_id_rec          in    jtf_rs_salesreps.gl_id_rec%type          default  fnd_api.g_miss_num,
p_set_of_books_id   in    jtf_rs_salesreps.set_of_books_id%type          default  fnd_api.g_miss_num,
p_salesrep_number   in    jtf_rs_salesreps.salesrep_number%type       default  fnd_api.g_miss_char,
p_email_address     in    jtf_rs_salesreps.email_address%type       default  fnd_api.g_miss_char,
p_wh_update_date    in    jtf_rs_salesreps.wh_update_date%type       default  fnd_api.g_miss_date,
p_sales_tax_geocode in    jtf_rs_salesreps.sales_tax_geocode%type   default  fnd_api.g_miss_char,
p_sales_tax_inside_city_limits in  jtf_rs_salesreps.sales_tax_inside_city_limits%type default  fnd_api.g_miss_char,
p_org_id            in    jtf_rs_salesreps.org_id%type,
p_object_version_number in out jtf_rs_salesreps.object_version_number%type,
x_return_status     out   varchar2,
x_msg_count         out   number,
x_msg_data          out   varchar2
);

```

Current Version

1.0

Parameter Descriptions

The following table describes the IN parameters associated with this API.

Table 2–12 Update_SalesRep IN Parameters

Parameter	Data Type	Required	Descriptions and Validations
p_api_version	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_init_msg_list	VARCHAR2	No	See "Standard IN Parameters" on page 1-3.
p_commit	VARCHAR2	No	See "Standard IN Parameters" on page 1-3.
p_salesrep_id	jtf_rs_salesreps.salesrep_id%type	Yes	This value is created through an internal call in the Create_SalesRep API. If a valid value is not supplied, the API exits with an unexpected error condition.
p_sales_credit_type_id	jtf_rs_salesreps.sales_credit_type_id%type	Yes	This value is validated against table OE_SALES_CREDIT_TYPES.
p_name	jtf_rs_salesreps.name%type	No	The sales person's name.

Table 2–12 Update_SalesRep IN Parameters

Parameter	Data Type	Required	Descriptions and Validations
p_status	jtf_rs_salesreps.status%type	No	The status of this salesperson. For example, this could be set to Active.
p_start_date_active	jtf_rs_slasreps.start_date_active%type	No	Date on which the salesperson becomes active. This value can not be NULL, and the start date must be less than the end date.
p_end_date_active	jtf_rs_salesreps.end_date_active%type	No	The effective end date for the salesperson. If no end date is provided, the salesperson is active indefinitely.
p_gl_id_rev	jtf_rs_salesreps.gl_id_freight%type	No	Accounting flexfield used for Revenue accounts. This value is used by Oracle Accounts Receivables only to determine the revenue accounts for invoices assigned to this salesperson.
p_gl_id_freight	jtf_rs_salesreps.gl_id_freight%type	No	Accounting flexfield used for Freight accounts. This value is used by Oracle Accounts Receivables only to determine the freight accounts for invoices assigned to this salesperson.
p_gl_id_rec	jtf_rs_salesreps.gl_id_rec%type	No	Accounting flexfield used for Receivables accounts. This value is used by Oracle Accounts Receivables only to determine the receivable accounts for invoices assigned to this salesperson.
p_set_of_books_id	jtf_rs_salesreps.set_of_books_id%type	No	Parameter used by Oracle Accounts Receivables.
p_salesrep_number	jtf_rs_salesreps.salesrep_number%type	No	This typical alphanumeric designation is user generated.
p_email_address	jtf_rs_salesreps.email_address%type	No	Email address of the salesperson.

Table 2–12 Update_SalesRep IN Parameters

Parameter	Data Type	Required	Descriptions and Validations
p_wh_update_date	jtf_rs_salesreps.wh_update_date%type	No	This date is sent to the data warehouse. This parameter is used for backwards compatibility with Oracle Accounts Receivables and is written to table RS_SALESREPS_ALL.
p_sales_tax_geocode	jtf_rs_salesreps.sales_tax_geocode%type	No	Sales tax code, it associates the salesperson with a unique tax jurisdiction. Use only if a sales tax vendor is also installed.
p_sales_tax_inside_city_limits	jtf_rs_salesreps.sales_tax_inside_city_limits%type	No	Indicates that the tax jurisdiction for this address is within city limits. Use only if a value for p_sales_tax_geocode is supplied.
p_org_id	jtf_rs_salesreps.org_id%type	Yes	Organization Identifier
p_object_version_number	jtf_rs_salesreps.object_version_number%type	Yes	The object version number of the salesrep ID derives from the JTF_RS_SALESREPS table.

The following table describes the OUT parameters associated with this API.

Table 2–13 Update_SalesRep OUT Parameters

Parameter	Data Type	Descriptions and Validations
x_return_status	VARCHAR2	See " Standard OUT Parameters " on page 1-4.
x_msg_count	NUMBER	See " Standard OUT Parameters " on page 1-4.
x_msg_data	VARCHAR2	See " Standard OUT Parameters " on page 1-4.

2.5 Messages and Notifications

The APIs contained in the Resource Manager public packages generate messages and notifications as needed. These messages are detailed in the following sections.

- [JTF_RS_RESOURCE_PUB](#)
- [JTF_RS_GROUPS_PUB](#)
- [JTF_RS_SALESREPS_PUB](#)

Note: It is not required that all status notifications provide a number identifier along with the message, although, in many cases, it is provided.

2.5.1 JTF_RS_RESOURCE_PUB

This section describes the messages and notifications generated by the APIs contained in the JTF_RS_RESOURCE_PUB package.

2.5.1.1 Create_Resource

The following table lists the messages and notifications generated by the Create_Resource API.

Table 2–14 *Create_Resource Messages*

Number	Type	Name	Text
210209	E	JTF_RS_INVALID_EMP_RESOURCE_ID	Employee Resource ID &P_EMP_RESOURCE_ID is not Valid or the Resource is Inactive.
210211	E	JTF_RS_RESOURCE_CATEGORY_NULL	Resource Category should not be NULL.
210212	E	JTF_RS_INVALID_RES_CATEGORY	Resource Category &P_RESOURCE_CATEGORY is not Valid.
210213	E	JTF_RS_TIME_ZONE_NULL	Time Zone is Null.
210214	E	JTF_RS_INVALID_TIME_ZONE	Time Zone ID &P_TIME_ZONE_ID is not Valid.
210215	E	JTF_RS_LANGUAGE_NULL	Language is Null.
210216	E	JTF_RS_INVALID_LANGUAGE	NLS Language &P_LANGUAGE is not Valid.
210224	U	JTF_RS_SOURCE_ID_NULL	Source Identifier should not be NULL.

Table 2–14 Create_Resource Messages

Number	Type	Name	Text
210328	U	JTF_RS_USERID_ERROR	For the specified Category, User ID should be NULL.
210229	U	JTF_RS_EMP_IDS_NOT_NULL	For Resource Category EMPLOYEE address_id and contact_id should be NULL.
210230	U	JTF_RS_ERR_ASSIGN_TO_GRP_ID	Assigned To Group ID, p_assigned_to_group_id is not Valid.
210231	U	JTF_RS_INVALID_FLAG_VALUE	Flag value should either be "Y" or "N."
210235	E	JTF_RS_SUPPORT_SITE_NULL	Support Site should Not be Null.
210236	E	JTF_RS_INVALID_SUPPORT_SITE	Support Site &P_SUPPORT_SITE is Not Valid.
210237	E	JTF_RS_INVALID_SRV_GROUP_ID	Server Group ID &P_SERVER_GROUP_ID is Not Valid.
210238	E	JTF_RS_INVALID_SVR_GROUP_NAME	Interaction Center Name &P_SERVER_GROUP_NAME is Not Valid.
210239	E	JTF_RS_CURRENCY_NULL	Currency Code should Not be Null.
210240	E	JTF_RS_INVALID_CURRENCY	Currency Code &P_CURRENCY is Not Valid.
210241	E	JTF_RS_HOLD_REASON_CODE_NULL	Hold Reason Code should Not be Null.
210242	E	JTF_RS_INVALID_HOLD_REASON_COD	Hold Reason Code &P_HOLD_REASON_CODE is Not Valid.
210243	E	JTF_RS_TEAM_NULL	Team ID and Team Number are Null.
210244	E	JTF_RS_INVALID_TEAM	Team ID &P_TEAM_ID is Not Valid.
210245	E	JTF_RS_INVALID_TEAM_NUMBER	Team Number &P_TEAM_NUMBER is Not Valid.
210259	E	JTF_RS_USER_ID_NULL	User ID cannot be Null.
210260	E	JTF_RS_INVALID_USER_ID	User ID &P_USER_ID is Not Valid.
210340	U	JTF_RS_INVALID_RL_RES_TYPE	Role Resource Type does not exist in JTF Objects.
210346	U	JTF_RS_INVALID_OBJ_USER_CODE	Invalid Object User code.
210393	U	JTF_RS_UNEXP_ERROR	An unexpected error was encountered in &P_API_NAME.
210218	E	JTF_RS_TABLE_HANDLER_ERROR	Error in the Table Handler.

Table 2–14 Create_Resource Messages

Number	Type	Name	Text
210265	E	JTF_RS_ERR_POST_CUST_USR_HOOK	Returned Error status from the Post Customer User Hook.
210266	E	JTF_RS_ERR_POST_VERT_USR_HOOK	Returned Error status from the Post Vertical User Hook.
210327	E	JTF_RS_ERR_POST_INT_USR_HOOK	Returned Error status from the Post Internal User Hook.
210267	E	JTF_RS_ERR_MESG_GENERATE_API	Returned Error status from the Message Generation API.
210393	E	JTF_RS_UNEXP_ERROR	Program Error: An unexpected error was encountered in &P_API_NAME.
210207	U	JTF_RS_RESOURCE_NULL	Resource identifier and Resource Number are NULL.
210219	U	JTF_RS_START_DATE_NULL	Start Date Active cannot be NULL.
210220	U	JTF_RS_OTHER_IDS_NOT_NULL	For Resource Category OTHER/TBH the Source identifier, Address identifier, Contact identifier, and Managing Emp identifier should be NULL.
210221	U	JTF_RS_PARTNER_IDS_NULL	For Resource Category PARTNER the Source_id should not be NULL.
210222	U	JTF_RS_INVALID_PARTNER_IDS	Partner does not exist for the passed Source_id.
210223	U	JTF_RS_ERR_PARTNER_CONTACT_ID	Partner contact id p_contact_id is not valid.
210225	U	JTF_RS_INVALID_SOURCE_ID	Source identifier p_source_id is not valid.
210226	U	JTF_RS_INVALID_PARTY_ADDRESS	Party Address identifier <Address_id> is Not Valid.
210227	U	JTF_RS_ERR_PARTY_CONTACT_ID	Party Contact identifier <Contact_id> is Not Valid.
210228	U	JTF_RS_SC_IDS_NOT_NULL	For Resource Category SUPPLIER_CONTACT Address_id and Contact_id should be NULL.
210374	U	JTF_RS_ERR_DUPLICATE_USER_ID	The user identifier <User_id> already exist.
380060	E	JTF_RS_NOT_PRIMARY_ADDR	The address ID passed in is not the primary address of the PARTY/PARTNER.
210383	U	JTF_RS_ERR_PARTNER_ADDRESS_ID	Partner address identifier p_address_id is not valid.

2.5.1.2 Update_Resource

The following table lists the messages and notifications generated by the Update_Resource API.

Table 2–15 Update_Resource Messages

Number	Type	Name	Text
210204	U	JTF_RS_INVALID_RESOURCE	Resource identifier <Resource_id> is not valid or is inactive.
210208	U	JTF_RS_INVALID_RESOURCE_NUMBER	Resource Number <Resource_number> is not valid or the resource is inactive.
210209	E	JTF_RS_INVALID_EMP_RESOURCE_ID	Employee Resource ID &P_EMP_RESOURCE_ID is not Valid or the Resource is Inactive.
210213	E	JTF_RS_TIME_ZONE_NULL	Time Zone is Null.
210214	E	JTF_RS_INVALID_TIME_ZONE	Time Zone ID &P_TIME_ZONE_ID is not Valid.
210215	E	JTF_RS_LANGUAGE_NULL	Language is Null.
210216	E	JTF_RS_INVALID_LANGUAGE	NLS Language &P_LANGUAGE is not Valid.
210218	U	JTF_RS_TABLE_HANDLER_ERROR	Error in the Table Handler.
210219	U	JTF_RS_START_DATE_NULL	Start Date Active cannot be NULL.
210327	E	JTF_RS_ERR_POST_INT_USR_HOOK	Returned Error status from the Post Internal User Hook.
210230	U	JTF_RS_ERR_ASSIGN_TO_GRP_ID	Assigned To Group identifier <Assigned_to_group_id> is not valid.
210231	U	JTF_RS_INVALID_FLAG_VALUE	Flag value should either be "Y" or "N."
210232	E	JTF_RS_ERR_STDT_GREATER_EDDT	Start Date Active cannot be greater than the End Date Active.
210236	E	JTF_RS_INVALID_SUPPORT_SITE	Support Site &P_SUPPORT_SITE is Not Valid.
210237	E	JTF_RS_INVALID_SRV_GROUP_ID	Server Group ID &P_SERVER_GROUP_ID is Not Valid.
210238	E	JTF_RS_INVALID_SVR_GROUP_NAME	Interaction Center Name &P_SERVER_GROUP_NAME is Not Valid.
210239	E	JTF_RS_CURRENCY_NULL	Currency Code should Not be Null.
210240	E	JTF_RS_INVALID_CURRENCY	Currency Code &P_CURRENCY is Not Valid.
210241	E	JTF_RS_HOLD_REASON_CODE_NULL	Hold Reason Code should Not be Null.

Table 2–15 Update_Resource Messages

Number	Type	Name	Text
210242	E	JTF_RS_INVALID_HOLD_REASON_COD	Hold Reason Code &P_HOLD_REASON_CODE is Not Valid.
210243	E	JTF_RS_TEAM_NULL	Team ID and Team Number are Null.
210244	E	JTF_RS_INVALID_TEAM	Team ID &P_TEAM_ID is Not Valid.
210245	E	JTF_RS_INVALID_TEAM_NUMBER	Team Number &P_TEAM_NUMBER is Not Valid.
210254	E	JTF_RS_ROW_LOCK_ERROR	This record has been updated by another user. Please requery and try again.
210259	E	JTF_RS_USER_ID_NULL	User ID cannot be Null.
210260	E	JTF_RS_INVALID_USER_ID	User ID &P_USER_ID is Not Valid.
210265	E	JTF_RS_ERR_POST_CUST_USR_HOOK	Returned Error status from the Post Customer User Hook.
210266	E	JTF_RS_ERR_POST_VERT_USR_HOOK	Returned Error status from the Post Vertical User Hook.
210267	E	JTF_RS_ERR_MESG_GENERATE_API	Returned Error status from the Message Generation API.
210275	E	JTF_RS_ERR_RES_ROLE_START_DATE	Resource Start Date out of range for the role related start dates of the Resource.
210276	E	JTF_RS_ERR_RES_ROLE_END_DATE	Resource End Date out of range for the role related End dates of the Resource.
210277	E	JTF_RS_ERR_RES_GMBR_START_DATE	Resource Start Date out of range for the group member role related start dates for the Resource.
210278	E	JTF_RS_ERR_RES_GMBR_END_DATE	Resource End Date out of range for the group member role related end dates for the Resource.
210279	E	JTF_RS_ERR_RES_TMBR_START_DATE	Resource Start Date out of range for the Team Member role related start dates for the Resource, where the Team Member is a Resource.
210280	E	JTF_RS_ERR_RES_TMBR_END_DATE	Resource End Date out of range for the Team Member role related end dates for the Resource, where the Team Member is a Resource.
210281	E	JTF_RS_ERR_RES_SRP_START_DATE	Resource Start Date out of range for the salesperson related start dates of the resource.
210282	E	JTF_RS_ERR_RES_SRP_END_DATE	Resource End Date out of range for the salesperson related End dates of the Resource.

Table 2–15 Update_Resource Messages

Number	Type	Name	Text
210328	U	JTF_RS_USERID_ERROR	For the specified Category, User identifier should be NULL.
210374	U	JTF_RS_ERR_DUPLICATE_USER_ID	The user identifier <User_id> already exist.
210393	U	JTF_RS_UNEXP_ERROR	An unexpected error was encountered in &P_API_NAME.
380001	E	JTF_RS_XMLGEN_ERR	Package JTF_USR_HKS is invalid.
380002	E	JTF_RS_JUHK_ERR	Package JTF_USR_HKS is invalid.
380060	E	JTF_RS_NOT_PRIMARY_ADDR	The address ID passed in is not the primary address of the PARTY/PARTNER.

2.5.2 JTF_RS_GROUPS_PUB

This section describes the messages and notifications generated by the APIs contained in the JTF_RS_GROUPS_PUB package.

2.5.2.1 Create_Resource_Group

The following table lists the messages and notifications generated by the Create_Resource_Group API.

Table 2–16 Create_Resource_Group Messages

Number	Type	Name	Text
210201	U	JTF_RS_GROUP_NAME_NULL	Group Name cannot be NULL.
210218	U	JTF_RS_TABLE_HANDLER_ERROR	Error in the Table Handler.
210219	U	JTF_RS_START_DATE_NULL	Start Date Active cannot be NULL.
210232	E	JTF_RS_ERR_STDT_GREATER_EDDT	Start Date Active cannot be greater than the End Date Active.
210261	E	JTF_RS_ERR_PRE_CUST_USR_HOOK	Returned Error status from the Pre Customer User Hook.
210262	E	JTF_RS_ERR_PRE_VERT_USR_HOOK	Returned Error status from the Pre Vertical User Hook.
210265	E	JTF_RS_ERR_POST_CUST_USR_HOOK	Returned Error status from the Post Customer User Hook.

Table 2–16 Create_Resource_Group Messages

Number	Type	Name	Text
210266	E	JTF_RS_ERR_POST_VERT_USR_HOOK	Returned Error status from the Post Vertical User Hook.
210267	E	JTF_RS_ERR_MESG_GENERATE_API	Returned Error status from the Message Generation API.
210327	E	JTF_RS_ERR_POST_INT_USR_HOOK	Returned Error status from the Post Internal User Hook.
210371	E	JTF_RS_ERR_PRE_INT_USR_HOOK	Returned Error status from the Pre Internal User Hook.

2.5.2.2 Update_Resource_Group

The following table lists the messages and notifications generated by the Update_Resource_Group API.

Table 2–17 Update_Resource_Group Messages

Number	Type	Name	Text
210201	U	JTF_RS_GROUP_NAME_NULL	Group Name cannot be NULL.
210246	E	JTF_RS_ERR_ROLE_START_DATE	Group Start Date Out of Range for the Related Roles Start dates for the Group.
210247	E	JTF_RS_ERR_ROLE_END_DATE	Group End Date Out of Range for the Related Roles End dates for the Group.
210248	E	JTF_RS_ERR_GRP_MBR_START_DATE	Group Start Date Out of Range for the Group Member Role Related Start Dates.
210249	E	JTF_RS_ERR_GRP_MBR_END_DATE	Group End Date Out of Range for the Group Member Role Related End Dates.
210250	E	JTF_RS_ERR_GRP_REL_START_DATE	Group Start Date Out of Range for the Group Relations Related Start Dates.
210251	E	JTF_RS_ERR_GRP_REL_END_DATE	Group End Date Out of Range for the Group Relations Related End Dates.
210252	E	JTF_RS_ERR_TEAM_MBR_START_DATE	Group Start Date Out of Range for the Team Member Role Related Start Dates for the Group, where the Team Member is a Group.
210253	E	JTF_RS_ERR_TEAM_MBR_END_DATE	Group End Date Out of Range for the Team Member Role Related End Dates for the Group, where the Team Member is a Group.

Table 2–17 Update_Resource_Group Messages

Number	Type	Name	Text
210254	E	JTF_RS_ROW_LOCK_ERROR	This record has been updated by another user. Please requery and try again.
210261	E	JTF_RS_ERR_PRE_CUST_USR_HOOK	Returned Error status from the Pre Customer User Hook.
210262	E	JTF_RS_ERR_PRE_VERT_USR_HOOK	Returned Error status from the Pre Vertical User Hook.
210264	E	JTF_RS_EXCLUSIVE_GROUP	Group usage cannot be created as one of the member dates overlap with another record for the same resource assigned to another exclusive group with the same usage in the same time period.
210266	E	JTF_RS_ERR_POST_VERT_USR_HOOK	Returned Error status from the Post Vertical User Hook.
210268	E	JTF_RS_INVALID_GROUP	Usage &P_USAGE is not setup for the Group ID &P_GROUP_ID.
210371	E	JTF_RS_ERR_PRE_INT_USR_HOOK	Returned Error status from the Pre Internal User Hook.

2.5.3 JTF_RS_SALESREPS_PUB

This section describes the messages and notifications generated by the APIs contained in the JTF_RS_SALESREPS_PUB package.

2.5.3.1 Create_SalesRep

The following table lists the messages and notifications generated by the Create_SalesRep API.

Table 2–18 Create_SalesRep Messages

Number	Type	Name	Text
210204	E	JTF_RS_INVALID_RESOURCE	Resource identifier <Resource_id> is not valid or is inactive.
210207	U	JTF_RS_RESOURCE_NULL	Resource identifier and Resource Number are NULL.
210208	E	JTF_RS_INVALID_RESOURCE_NUMBER	Resource Number <Resource_number> is not valid or the resource is inactive.

Table 2–18 Create_SalesRep Messages

Number	Type	Name	Text
210218	U	JTF_RS_TABLE_HANDLER_ERROR	Error in the Table Handler.
210219	E	JTF_RS_START_DATE_NULL	Start Date Active cannot be null.
210232	E	JTF_RS_ERR_STDT_GREATER_EDDT	Start Date Active cannot be greater than the End Date Active.
210261	E	JTF_RS_ERR_PRE_CUST_USR_HOOK	Returned Error status from the Pre Customer User Hook.
210262	E	JTF_RS_ERR_PRE_VERT_USR_HOOK	Returned Error status from the Pre Vertical User Hook.
210265	E	JTF_RS_ERR_POST_CUST_USR_HOOK	Returned Error status from the Post Customer User Hook.
210266	E	JTF_RS_ERR_POST_VERT_USR_HOOK	Returned Error status from the Post Vertical User Hook.
210267	E	JTF_RS_ERR_MESG_GENERATE_API	Returned Error status from the Message Generation API.
210283	E	JTF_RS_ERR_SALESREP_NUMBER	Salesperson Number &P_SALESREP_NUMBER already exists.
210284	E	JTF_RS_SALESREP_NUMBER_NULL	Salesperson Number cannot be Null.
210285	E	JTF_RS_ERR_SALES_CREDIT_TYPE	Sales Credit Type identifier <Sales_credit_type_id> is invalid.
210286	E	JTF_RS_SALES_CREDIT_TYPE_NULL	Sales Credit Type identifier cannot be NULL.
210327	E	JTF_RS_ERR_POST_INT_USR_HOOK	Returned Error status from the Post Internal User Hook.
210371	E	JTF_RS_ERR_PRE_INT_USR_HOOK	Returned Error status from the Pre Internal User Hook.

2.5.3.2 Update_SalesRep

The following table lists the messages and notifications generated by the Update_SalesRep API.

Table 2–19 Update_SalesRep Messages

Number	Type	Name	Text
210218	E	JTF_RS_TABLE_HANDLER_ERROR	Error in the Table Handler.
210219	U	JTF_RS_START_DATE_NULL	Start Date Active cannot be NULL.
210232	E	JTF_RS_ERR_STDT_GREATER_EDDT	Start Date Active cannot be greater than the End Date Active.
210261	E	JTF_RS_ERR_PRE_CUST_USR_HOOK	Returned Error status from the Pre Customer User Hook.
210262	E	JTF_RS_ERR_PRE_VERT_USR_HOOK	Returned Error status from the Pre Vertical User Hook.
210265	E	JTF_RS_ERR_POST_CUST_USR_HOOK	Returned Error status from the Post Customer User Hook.
210266	E	JTF_RS_ERR_POST_VERT_USR_HOOK	Returned Error status from the Post Vertical User Hook.
210267	E	JTF_RS_ERR_MESG_GENERATE_API	Returned Error status from the Message Generation API.
210283	E	JTF_RS_ERR_SALESREP_NUMBER	Salesperson Number & P_SALESREP_NUMBER already exists.
210284	E	JTF_RS_SALESREP_NUMBER_NULL	Salesperson Number cannot be Null.
210285	E	JTF_RS_ERR_SALES_CREDIT_TYPE	Sales Credit Type identifier <Sales_credit_type_id> is invalid.
210286	E	JTF_RS_SALES_CREDIT_TYPE_NULL	Sales Credit Type identifier cannot be NULL.
210315	E	JTF_RS_SALESREP_ID_NULL	Salesperson identifier cannot be NULL.
210316	E	JTF_RS_INVALID_SALESREP_ID	Salesperson identifier <Salesrep_id> is invalid.
210327	E	JTF_RS_ERR_POST_INT_USR_HOOK	Returned Error status from the Post Internal User Hook.
210371	E	JTF_RS_ERR_PRE_INT_USR_HOOK	Returned Error status from the Pre Internal User Hook.

2.6 Sample Code

This section contains SQL scripts that call the Resource Manager public APIs stored in the following packages and insert values as required:

- [JTF_RS_RESOURCE_PUB](#)
- [JTF_RS_GROUPS_PUB](#)
- [JTF_RS_SALESREPS_PUB](#)

2.6.1 JTF_RS_RESOURCE_PUB

The SQL scripts in this section create and update a resource by calling the APIs contained in the JTF_RS_RESOURCE_PUB package in succession and by providing them with the appropriate values.

2.6.1.1 Create_Resource

This script calls the Create_Resource API and provides the values listed in the following table using the Create_Resource IN parameters. Calling applications can optionally insert more values than the ones listed in this section.

Table 2–20 Create_Resource API Sample Code Variables

Variable	Description
l_api_version	Version is 1.0.
l_category	Category is Employee.
l_source_id	Source ID is equal to 10001.
l_resource_name	Resource name is Rachel Abbott.
l_managing_emp_id	Her employee ID number is 1100.
l_user_id	User ID is 2294.
l_time_zone	Time zone is 92.
l_cost_per_hr	Her rate is \$25.00 per hour.
l_primary_language	The primary language is American English.
l_secondary_language	The secondary language is Candian French.
l_support_site_id	The support site ID number is 22917.
l_ies_agent_login	The agent login is "guest".

Table 2–20 Create_Resource API Sample Code Variables

Variable	Description
l_server_group_id	The server group ID number is 112.
l_interaction_center_name	The interaction center name for the group is 'CCTAGENT01'.
l_assigned_to_group_id	The assigned group ID number is 1548.
l_cost_center	The cost center number is OA55.
l_charge_to_cost_center	The charge to the cost center is 250.
l_comp_currency_code	The currency code is AUD.
l_commissionable_flag	The flag is set to "Y".
l_hold_reason_code	The hold reason code is HRC-1.
l_hold_payment	The hold payment flag is set to "N".
l_comp_service_team_id	The comp service team ID is 10072.
l_source_name	The source name is Abbott, Ms. Rachel (Rachel).
l_source_number	The source number is 159.
l_source_job_title	The source title is SAL600.Sales Representative.
l_source_email	Her email address is rabbott@visionhr.com.
l_source_phone	Her phone number is 650-555-1212.

```
SET SERVEROUTPUT ON
```

```
declare
```

```

l_api_version          number                := 1.0;
l_category             jtf_rs_resource_extns.category%type := 'EMPLOYEE';
l_source_id           jtf_rs_resource_extns.source_id%type := 10001;
l_resource_name       jtf_rs_resource_extns_tl.resource_name%type := 'Rachel Abbott';
l_managing_emp_id     jtf_rs_resource_extns.managing_employee_id%type := 1100;
l_user_id            jtf_rs_resource_extns.user_id%type      := 2294;
l_time_zone          jtf_rs_resource_extns.time_zone%type    := 92;
l_cost_per_hr        jtf_rs_resource_extns.cost_per_hr%type   := 25;
l_primary_language    jtf_rs_resource_extns.primary_language%type := 'AMERICAN';
l_secondary_language  jtf_rs_resource_extns.secondary_language%type := 'CANADIAN FRENCH';
l_support_site_id     jtf_rs_resource_extns.support_site_id%type := 22917;
l_ies_agent_login     jtf_rs_resource_extns.ies_agent_login%type := 'guest';
l_server_group_id     jtf_rs_resource_extns.server_group_id%type := 112;

```

Sample Code

```
l_interaction_center_name    ieo_svr_groups.group_name%type           := 'CCTAGENT01';
l_assigned_to_group_id      jtf_rs_resource_extns.assigned_to_group_id%type := 1548;
l_cost_center               jtf_rs_resource_extns.cost_center%type           := '0A55';
l_charge_to_cost_center     jtf_rs_resource_extns.charge_to_cost_center%type := '250';
l_comp_currency_code        jtf_rs_resource_extns.compensation_currency_code%type := 'AUD';
l_commissionable_flag      jtf_rs_resource_extns.commissionable_flag%type   := 'Y';
l_hold_reason_code          jtf_rs_resource_extns.hold_reason_code%type     := 'HRC-1';
l_hold_payment              jtf_rs_resource_extns.hold_payment%type         := 'N';
l_comp_service_team_id     jtf_rs_resource_extns.comp_service_team_id%type  := 10072;
l_source_name               jtf_rs_resource_extns.source_name%type          := 'Abbott, Ms. Rachel
(Rachel)';
l_source_number             jtf_rs_resource_extns.source_number%type         := 159;
l_source_job_title         jtf_rs_resource_extns.source_job_title%type      := 'SAL600.Sales
Representative';
l_source_email              jtf_rs_resource_extns.source_email%type         := 'rabbott@visionhr.com';
l_source_phone              jtf_rs_resource_extns.source_phone%type         := '650-555-1212';

l_return_status             varchar2(1);
l_msg_count                 number;
l_msg_data                  varchar2(2000);
l_resource_id               jtf_rs_resource_extns.resource_id%type;
l_resource_number           jtf_rs_resource_extns.resource_number%type;

l_msg_data1                 varchar2(2000);
l_msg_index_out             number;

begin

jtf_rs_resource_pub.create_resource
(P_API_VERSION              => l_api_version,
P_CATEGORY                  => l_category,
P_START_DATE_ACTIVE        => sysdate,
P_END_DATE_ACTIVE          => null,
P_SOURCE_ID                 => l_source_id,
P_RESOURCE_NAME             => l_resource_name,
P_MANAGING_EMP_ID          => l_managing_emp_id,
P_USER_ID                   => l_user_id,
P_TIME_ZONE                 => l_time_zone,
P_COST_PER_HR               => l_cost_per_hr,
P_PRIMARY_LANGUAGE         => l_primary_language,
P_SECONDARY_LANGUAGE        => l_secondary_language,
P_SUPPORT_SITE_ID          => l_support_site_id,
P_IES_AGENT_LOGIN           => l_ies_agent_login,
P_SERVER_GROUP_ID          => l_server_group_id,
P_INTERACTION_CENTER_NAME  => l_interaction_center_name,
P_ASSIGNED_TO_GROUP_ID     => l_assigned_to_group_id,
P_COST_CENTER               => l_cost_center,
P_CHARGE_TO_COST_CENTER    => l_charge_to_cost_center,
P_COMP_CURRENCY_CODE        => l_comp_currency_code,
P_COMMISSIONABLE_FLAG      => l_commissionable_flag,
```

```

P_HOLD_REASON_CODE      => l_hold_reason_code,
P_HOLD_PAYMENT          => l_hold_payment,
P_COMP_SERVICE_TEAM_ID => l_comp_service_team_id,
P_SOURCE_NAME           => l_source_name,
P_SOURCE_NUMBER         => l_source_number,
P_SOURCE_JOB_TITLE      => l_source_job_title,
P_SOURCE_EMAIL          => l_source_email,
P_SOURCE_PHONE          => l_source_phone,
X_RETURN_STATUS         => l_return_status,
X_MSG_COUNT             => l_msg_count,
X_MSG_DATA              => l_msg_data,
X_RESOURCE_ID           => l_resource_id,
X_RESOURCE_NUMBER       => l_resource_number
);

if (l_return_status <> 'S') then
  if (fnd_msg_pub.count_msg > 0) then
    for i in 1..fnd_msg_pub.count_msg loop
      fnd_msg_pub.get
        (p_msg_index => i,
         p_data => l_msg_data,
         p_encoded => 'F',
         p_msg_index_out => l_msg_index_out
        );
      l_msg_data1 := l_msg_data1 || ' ' || l_msg_data;
    end loop;
    fnd_message.set_encoded(l_msg_data1);
    dbms_output.put_line(l_msg_data1);
  end if;
else
  dbms_output.put_line ('Return Status - ' || l_return_status);
  dbms_output.put_line ('Resource ID - ' || l_resource_id);
  dbms_output.put_line ('Resource Number - ' || l_resource_number);
end if;

end;
/

```

2.6.1.2 Update_Resource

This script calls the Update_Resource API and provides the values listed in the following table using the Update_Resource IN parameters. Calling applications can optionally insert more values than the ones listed in this section.

Table 2–21 Update_Resource API Sample Code Variables

Variable	Description
l_api_version	Version is 1.0.

Table 2–21 Update_Resource API Sample Code Variables

Variable	Description
l_resource_id	The resource ID is 10000.
l_resource_number	The resource number is 10005.
l_resource_name	Resource name is Rachel Abbott.
l_managing_emp_id	Her employee ID number is 1100.
l_user_id	User ID is 2294.
l_time_zone	Time zone is 92.
l_cost_per_hr	Her rate is \$25.00 per hour.
l_primary_language	The primary language is American English.
l_secondary_language	The secondary language is Candian French.
l_support_site_id	The support site ID number is 22917.
l_ies_agent_login	The agent login is "guest".
l_server_group_id	The server group ID number is 112.
l_assigned_to_group_id	The assigned group ID number is 1548.
l_cost_center	The cost center number is OA55.
l_charge_to_cost_center	The charge to the cost center is 250.
l_comp_currency_code	The currency code is AUD.
l_commissionable_flag	The flag is set to "Y".
l_hold_reason_code	The hold reason code is HRC-1.
l_hold_payment	The hold payment flag is set to "N".
l_comp_service_team_id	The comp service team ID is 10072.
l_source_name	The source name is Abbott, Ms. Rachel (Rachel).
l_source_number	The source number is 159.
l_source_job_title	The source title is SAL600.Sales Representative.
l_source_email	Her email address is rabbott@visionhr.com.
l_source_phone	Her phone number is 650-555-1212.

SET SERVEROUTPUT ON

```

declare

l_api_version          number                := 1.0;
l_resource_id         jtf_rs_resource_extns.resource_id%type := 10000;
l_resource_number     jtf_rs_resource_extns.resource_number%type := '10005';
l_resource_name       jtf_rs_resource_extns_tl.resource_name%type := 'Rachel Abbott';
l_managing_emp_id     jtf_rs_resource_extns.managing_employee_id%type := 1100;
l_user_id             jtf_rs_resource_extns.user_id%type := 2294;
l_time_zone           jtf_rs_resource_extns.time_zone%type := 92;
l_cost_per_hr         jtf_rs_resource_extns.cost_per_hr%type := 25;
l_primary_language    jtf_rs_resource_extns.primary_language%type := 'AMERICAN';
l_secondary_language  jtf_rs_resource_extns.secondary_language%type := 'CANADIAN FRENCH';
l_support_site_id     jtf_rs_resource_extns.support_site_id%type := 22917;
l_ies_agent_login     jtf_rs_resource_extns.ies_agent_login%type := 'guest';
l_server_group_id    jtf_rs_resource_extns.server_group_id%type := 112;
l_assigned_to_group_id jtf_rs_resource_extns.assigned_to_group_id%type := 1548;
l_cost_center         jtf_rs_resource_extns.cost_center%type := '0A55';
l_charge_to_cost_center jtf_rs_resource_extns.charge_to_cost_center%type := '250';
l_comp_currency_code  jtf_rs_resource_extns.compensation_currency_code%type := 'AUD';
l_commissionable_flag jtf_rs_resource_extns.commissionable_flag%type := 'Y';
l_hold_reason_code    jtf_rs_resource_extns.hold_reason_code%type := 'HRC-1';
l_hold_payment        jtf_rs_resource_extns.hold_payment%type := 'N';
l_comp_service_team_id jtf_rs_resource_extns.comp_service_team_id%type := 10072;
l_source_name         jtf_rs_resource_extns.source_name%type := 'Abbott, Ms. Rachel
(Rachel)';
l_source_number       jtf_rs_resource_extns.source_number%type := 159;
l_source_job_title    jtf_rs_resource_extns.source_job_title%type := 'SAL600.Sales
Representative';
l_source_email        jtf_rs_resource_extns.source_email%type := 'rabbott@visionhr.com';
l_source_phone        jtf_rs_resource_extns.source_phone%type := '650-555-1212';
l_object_version_number jtf_rs_resource_extns.object_version_number%type;

l_return_status       varchar2(1);
l_msg_count           number;
l_msg_data            varchar2(2000);
l_msg_data1           varchar2(2000);
l_msg_index_out       number;

begin

select object_version_number
into l_object_version_number
from jtf_rs_resource_extns
where resource_id = l_resource_id;

jtf_rs_resource_pub.update_resource
(P_API_VERSION          => l_api_version,
P_RESOURCE_ID          => l_resource_id,
P_RESOURCE_NUMBER      => l_resource_number,

```

Sample Code

```
P_START_DATE_ACTIVE      => sysdate,
P_END_DATE_ACTIVE        => null,
P_RESOURCE_NAME          => l_resource_name,
P_MANAGING_EMP_ID        => l_managing_emp_id,
P_USER_ID                => l_user_id,
P_TIME_ZONE              => l_time_zone,
P_COST_PER_HR            => l_cost_per_hr,
P_PRIMARY_LANGUAGE       => l_primary_language,
P_SECONDARY_LANGUAGE     => l_secondary_language,
P_SUPPORT_SITE_ID        => l_support_site_id,
P_IES_AGENT_LOGIN        => l_ies_agent_login,
P_SERVER_GROUP_ID        => l_server_group_id,
P_ASSIGNED_TO_GROUP_ID   => l_assigned_to_group_id,
P_COST_CENTER            => l_cost_center,
P_CHARGE_TO_COST_CENTER  => l_charge_to_cost_center,
P_COMP_CURRENCY_CODE     => l_comp_currency_code,
P_COMMISSIONABLE_FLAG    => l_commissionable_flag,
P_HOLD_REASON_CODE       => l_hold_reason_code,
P_HOLD_PAYMENT           => l_hold_payment,
P_COMP_SERVICE_TEAM_ID   => l_comp_service_team_id,
P_SOURCE_NAME            => l_source_name,
P_SOURCE_NUMBER          => l_source_number,
P_SOURCE_JOB_TITLE       => l_source_job_title,
P_SOURCE_EMAIL           => l_source_email,
P_SOURCE_PHONE           => l_source_phone,
P_OBJECT_VERSION_NUM     => l_object_version_number,
X_RETURN_STATUS          => l_return_status,
X_MSG_COUNT              => l_msg_count,
X_MSG_DATA               => l_msg_data
);

if (l_return_status <> 'S') then
  if (fnd_msg_pub.count_msg > 0) then
    for i in 1..fnd_msg_pub.count_msg loop
      fnd_msg_pub.get
        (p_msg_index => i,
         p_data => l_msg_data,
         p_encoded => 'F',
         p_msg_index_out => l_msg_index_out
        );
      l_msg_data1 := l_msg_data1 || ' ' || l_msg_data;
    end loop;
    fnd_message.set_encoded(l_msg_data1);
    dbms_output.put_line(l_msg_data1);
  end if;
else
  dbms_output.put_line ('Return Status - ' || l_return_status);
end if;

end;
```

/

2.6.2 JTF_RS_GROUPS_PUB

The SQL scripts in this section create and update a resource group by calling the APIs contained in the JTF_RS_GROUPS_PUB package in succession and by providing them with the appropriate values.

2.6.2.1 Create_Resource_Group Sample Code

This script calls the Create_Resource_Group API and provides the values listed in the following table using the Create_Resource_Group IN parameters. Calling applications can optionally insert more values than the ones listed in this section..

Table 2-22 Create_Resource_Group API Sample Code Variables

Variable	Description
l_api_version	Version is 1.0.
l_group_name	The group name is Sales Group.
l_group_desc	The description of the group is Sales Group Representative.
l_exclusive_flag	The exclusive flag is set to "Y".
l_email_address	The group's email address is sales_us@oracle.com.
l_start_date_active	The start date is the same as the sysdate.
l_end_date_active	The active end date is set to null.
l_accounting_code	The accounting code is "Payment".

```
SET SERVEROUTPUT ON
```

```
declare
```

```

l_api_version          number                := 1.0;
l_group_name           jtf_rs_groups_v1.group_name%type := 'Sales Group';
l_group_desc           jtf_rs_groups_v1.group_desc%type := 'Sales Group
Representative';
l_exclusive_flag       jtf_rs_groups_b.exclusive_flag%type := 'Y';
l_email_address        jtf_rs_groups_b.email_address%type := 'sales_us@oracle.com';
l_start_date_active    jtf_rs_groups_b.start_date_active%type := sysdate;
l_end_date_active      jtf_rs_groups_b.end_date_active%type := null;

```

Sample Code

```
l_accounting_code          jtf_rs_groups_b.accounting_code%type    := 'Payment';

l_return_status           varchar2(1);
l_msg_count               number;
l_msg_data                varchar2(2000);
l_group_id                jtf_rs_groups_b.group_id%type;
l_group_number            jtf_rs_groups_b.group_number%type;

l_msg_data1               varchar2(2000);
l_msg_index_out           number;

begin

jtf_rs_groups_pub.create_resource_group
(P_API_VERSION            => l_api_version,
P_GROUP_NAME              => l_group_name,
P_GROUP_DESC              => l_group_desc,
P_EXCLUSIVE_FLAG          => l_exclusive_flag,
P_ACCOUNTING_CODE         => l_accounting_code,
P_EMAIL_ADDRESS           => l_email_address,
P_START_DATE_ACTIVE       => l_start_date_active,
P_END_DATE_ACTIVE         => l_end_date_active,
X_RETURN_STATUS           => l_return_status,
X_MSG_COUNT               => l_msg_count,
X_MSG_DATA                => l_msg_data,
X_GROUP_ID                => l_group_id,
X_GROUP_NUMBER            => l_group_number
);

if (l_return_status <> 'S') then
  if (fnd_msg_pub.count_msg > 0) then
    for i in 1..fnd_msg_pub.count_msg loop
      fnd_msg_pub.get
        (p_msg_index => i,
         p_data => l_msg_data,
         p_encoded => 'F',
         p_msg_index_out => l_msg_index_out
        );
      l_msg_data1 := l_msg_data1 || ' ' || l_msg_data;
    end loop;
    fnd_message.set_encoded(l_msg_data1);
    dbms_output.put_line(l_msg_data1);
  end if;
else
  dbms_output.put_line ('Return Status - ' || l_return_status);
end if;
```

```

        dbms_output.put_line ('Group ID - ' || l_group_id);
        dbms_output.put_line ('Group Number - ' || l_group_number);
    end if;

end;
/

```

2.6.2.2 Update_Resource_Group Sample Code

This script calls the Update_Resource_Group API and provides the values listed in the following table using the Update_Resource_Group IN parameters. Calling applications can optionally insert more values than the ones listed in this section.

Table 2–23 Update_Resource_Group API Sample Code Variables

Variable	Description
l_api_version	Version is 1.0.
l_group_id	The group ID is 10000.
l_group_desc	The description of the group is Sales Group Representative.
l_group_number	The group number is 10005.
l_group_name	The group name is "Sales Group".
l_group_desc	The group description is Sales Group Representative.
l_exclusive_flag	The exclusive flag is set to "Y".
l_email_address	The group's email address is sales_us@oracle.com.
l_start_date_active	The start date is the same as the sysdate.
l_end_date_active	The active end date is set to null.
l_accounting_code	The accounting code is "Payment".

```
SET SERVEROUTPUT ON
```

```
declare
```

```

l_api_version          number                := 1.0;
l_group_id             jtf_rs_groups_b.group_id%type    := 10000;
l_group_number        jtf_rs_groups_b.group_number%type := '10005';
l_group_name          jtf_rs_groups_v1.group_name%type  := 'Sales Group';
l_group_desc          jtf_rs_groups_v1.group_desc%type  := 'Sales Group Representative';
l_exclusive_flag      jtf_rs_groups_b.exclusive_flag%type := 'Y';
l_email_address       jtf_rs_groups_b.email_address%type := 'sales_us@oracle.com';

```

Sample Code

```
l_start_date_active      jtf_rs_groups_b.start_date_active%type := sysdate;
l_end_date_active        jtf_rs_groups_b.end_date_active%type   := null;
l_accounting_code        jtf_rs_groups_b.accounting_code%type   := 'Payment';

l_object_version_number  jtf_rs_groups_b.object_version_number%type;
l_return_status          varchar2(1);
l_msg_count              number;
l_msg_data               varchar2(2000);
l_msg_data1              varchar2(2000);
l_msg_index_out          number;

begin

  select object_version_number
  into l_object_version_number
  from jtf_rs_groups_b
  where group_id = l_group_id;

  jtf_rs_groups_pub.update_resource_group
  (P_API_VERSION          => l_api_version,
  P_GROUP_ID              => l_group_id,
  P_GROUP_NUMBER          => l_group_number,
  P_GROUP_NAME            => l_group_name,
  P_GROUP_DESC            => l_group_desc,
  P_EXCLUSIVE_FLAG        => l_exclusive_flag,
  P_ACCOUNTING_CODE       => l_accounting_code,
  P_EMAIL_ADDRESS         => l_email_address,
  P_START_DATE_ACTIVE     => l_start_date_active,
  P_END_DATE_ACTIVE       => l_end_date_active,
  P_OBJECT_VERSION_NUM    => l_object_version_number,
  X_RETURN_STATUS         => l_return_status,
  X_MSG_COUNT             => l_msg_count,
  X_MSG_DATA              => l_msg_data
  );

  if (l_return_status <> 'S') then
    if (fnd_msg_pub.count_msg > 0) then
      for i in 1..fnd_msg_pub.count_msg loop
        fnd_msg_pub.get
          (p_msg_index => i,
           p_data => l_msg_data,
           p_encoded => 'F',
           p_msg_index_out => l_msg_index_out
          );
        l_msg_data1 := l_msg_data1 || ' ' || l_msg_data;
      end loop;
      fnd_message.set_encoded(l_msg_data1);
      dbms_output.put_line(l_msg_data1);
    end if;
  else
```

```

    dbms_output.put_line ('Return Status - ' || l_return_status);
end if;

end;
/

```

2.6.3 JTF_RS_SALESREPS_PUB

The SQL scripts in this section create and update a sales representative by calling the APIs contained in the JTF_RS_SALESREPS_PUB package in succession and by providing them with the appropriate values.

2.6.3.1 Create_SalesRep Sample Code

This script calls the Create_SalesRep API and provides the values listed in the following table using the Create_SalesRep IN parameters. Calling applications can optionally insert more values than the ones listed in this section.

Table 2–24 Create_SalesRep API Sample Code Variables

Variable	Description
l_api_version	Version is 1.0.
l_resource_id	The resource ID number is 10001.
l_sales_credit_type_id	The sales credit type ID is 5.
l_name	The name is set to John Doe.
l_status	The status is set to "A".
l_start_date_active	The start date is equal to the sysdate.
l_end_date_active	The end date is set to null.
l_gl_id_rev	The global ID is 17736.
l_gl_id_freight	The global freight ID is 17734.
l_gl_id_rec	The global REC ID is 17703.
l_set_of_books_id	The set of books ID is 23.
l_salesrep_number	The salesrep number is 42549.
l_email_address	The email address is john.doe@oracle.com

Table 2–24 Create_SalesRep API Sample Code Variables

Variable	Description
<code>l_wh_update_date</code>	Wh_update is equal to the sysdate.
<code>l_sales_tax_geocode</code>	The sales tax geocode is set to null.
<code>l_sales_tax_inside_city_limits</code>	The sales tax inside city limits is set to null.

```
SET SERVEROUTPUT ON
```

```
declare
```

```

l_api_version          number                := 1.0;
l_resource_id         jtf_rs_salesreps.resource_id%type := 10001;
l_sales_credit_type_id jtf_rs_salesreps.sales_credit_type_id%type := 5;
l_name               jtf_rs_salesreps.name%type      := 'John Doe';
l_status             jtf_rs_salesreps.status%type     := 'A';
l_start_date_active  jtf_rs_salesreps.start_date_active%type := sysdate;
l_end_date_active    jtf_rs_salesreps.end_date_active%type := null;
l_gl_id_rev          jtf_rs_salesreps.gl_id_rev%type   := 17736;
l_gl_id_freight      jtf_rs_salesreps.gl_id_freight%type := 17734;
l_gl_id_rec          jtf_rs_salesreps.gl_id_rec%type   := 17703;
l_set_of_books_id    jtf_rs_salesreps.set_of_books_id%type := 23;
l_salesrep_number    jtf_rs_salesreps.salesrep_number%type := '42549';
l_email_address      jtf_rs_salesreps.email_address%type :=
'john.doe@oracle.com';
l_wh_update_date     jtf_rs_salesreps.wh_update_date%type := sysdate;
l_sales_tax_geocode  jtf_rs_salesreps.sales_tax_geocode%type := null;
l_sales_tax_inside_city_limits jtf_rs_salesreps.sales_tax_inside_city_limits%type := null;

```

```

l_return_status      varchar2(1);
l_msg_count          number;
l_msg_data           varchar2(2000);
l_salesrep_id        jtf_rs_salesreps.salesrep_id%type;

```

```

l_msg_data1         varchar2(2000);
l_msg_index_out     number;

```

```
begin
```

```

jtf_rs_salesreps_pub.create_salesrep
(P_API_VERSION          => l_api_version,
P_RESOURCE_ID          => l_resource_id,
P_SALES_CREDIT_TYPE_ID => l_sales_credit_type_id,
P_NAME                 => l_name,
P_STATUS               => l_status,

```

```

P_START_DATE_ACTIVE          => l_start_date_active,
P_END_DATE_ACTIVE           => l_end_date_active,
P_GL_ID_REV                 => l_gl_id_rev,
P_GL_ID_FREIGHT             => l_gl_id_freight,
P_GL_ID_REC                 => l_gl_id_rec,
P_SET_OF_BOOKS_ID          => l_set_of_books_id,
P_SALESREP_NUMBER          => l_salesrep_number,
P_EMAIL_ADDRESS            => l_email_address,
P_WH_UPDATE_DATE           => l_wh_update_date,
P_SALES_TAX_GEOCODE        => l_sales_tax_geocode,
P_SALES_TAX_INSIDE_CITY_LIMITS => l_sales_tax_inside_city_limits,
X_RETURN_STATUS            => l_return_status,
X_MSG_COUNT                => l_msg_count,
X_MSG_DATA                 => l_msg_data,
X_SALESREP_ID              => l_salesrep_id
);

if (l_return_status <> 'S') then
  if (fnd_msg_pub.count_msg > 0) then
    for i in 1..fnd_msg_pub.count_msg loop
      fnd_msg_pub.get
        (p_msg_index => i,
         p_data => l_msg_data,
         p_encoded => 'F',
         p_msg_index_out => l_msg_index_out
        );
      l_msg_data1 := l_msg_data1 || ' ' || l_msg_data;
    end loop;
    fnd_message.set_encoded(l_msg_data1);
    dbms_output.put_line(l_msg_data1);
  end if;
else
  dbms_output.put_line ('Return Status - ' || l_return_status);
  dbms_output.put_line ('Salesperson ID - ' || l_salesrep_id);
end if;

end;
/

```

2.6.3.2 Update_SalesRep Sample Code

This script calls the Update_SalesRep API and provides the values listed in the following table using the Update_SalesRep IN parameters. Calling applications can optionally insert more values than the ones listed in this section.

Table 2–25 Update_SalesRep API Sample Code Variables

Variable	Description
l_api_version	Version is 1.0.
l_salesrep_id	The salesrep ID is 1000.
l_sales_credit_type_id	The sales credit type ID is 5.
l_name	The name is set to John Doe.
l_status	The status is set to "A".
l_start_date_active	The start date is equal to the sysdate.
l_end_date_active	The end date is set to null.
l_gl_id_rev	The global ID is 17736.
l_gl_id_freight	The global freight ID is 17734.
l_gl_id_rec	The global REC ID is 17703.
l_set_of_books_id	The set of books ID is 23.
l_salesrep_number	The salesrep number is 42549.
l_email_address	The email address is john.doe@oracle.com
l_wh_update_date	Wh_update is equal to the sysdate.
l_sales_tax_geocode	The sales tax geocode is set to null.
l_sales_tax_inside_city_limits	The sales tax inside city limits is set to null.
l_org_id	The org ID is set to 204.

```
SET SERVEROUTPUT ON
```

```
declare
```

```

l_api_version          number                := 1.0;
l_salesrep_id          jtf_rs_salesreps.salesrep_id%type := 1000;
l_sales_credit_type_id jtf_rs_salesreps.sales_credit_type_id%type := 5;
l_name                 jtf_rs_salesreps.name%type       := 'John
Doe';
l_status               jtf_rs_salesreps.status%type      := 'A';
l_start_date_active   jtf_rs_salesreps.start_date_active%type := sysdate;
l_end_date_active     jtf_rs_salesreps.end_date_active%type := null;

```

```

l_gl_id_rev                jtf_rs_salesreps.gl_id_rev%type                := 17736;
l_gl_id_freight            jtf_rs_salesreps.gl_id_freight%type            := 17734;
l_gl_id_rec                jtf_rs_salesreps.gl_id_rec%type                := 17703;
l_set_of_books_id         jtf_rs_salesreps.set_of_books_id%type            := 23;
l_salesrep_number          jtf_rs_salesreps.salesrep_number%type          := '42549';
l_email_address            jtf_rs_salesreps.email_address%type          :=
'john.doe@oracle.com';
l_wh_update_date           jtf_rs_salesreps.wh_update_date%type           := sysdate;
l_sales_tax_geocode        jtf_rs_salesreps.sales_tax_geocode%type        := null;
l_sales_tax_inside_city_limits jtf_rs_salesreps.sales_tax_inside_city_limits%type := null;
l_org_id                   jtf_rs_salesreps.org_id%type                   := 204;

l_object_version_number    jtf_rs_salesreps.object_version_number%type;
l_return_status            varchar2(1);
l_msg_count                number;
l_msg_data                 varchar2(2000);
l_msg_data1                varchar2(2000);
l_msg_index_out            number;

begin

select object_version_number
into l_object_version_number
from jtf_rs_salesreps
where salesrep_id = l_salesrep_id;

jtf_rs_salesreps_pub.update_salesrep
(P_API_VERSION                => l_api_version,
P_SALESREP_ID                 => l_salesrep_id,
P_SALES_CREDIT_TYPE_ID        => l_sales_credit_type_id,
P_NAME                         => l_name,
P_STATUS                       => l_status,
P_START_DATE_ACTIVE           => l_start_date_active,
P_END_DATE_ACTIVE             => l_end_date_active,
P_GL_ID_REV                   => l_gl_id_rev,
P_GL_ID_FREIGHT               => l_gl_id_freight,
P_GL_ID_REC                   => l_gl_id_rec,
P_SET_OF_BOOKS_ID             => l_set_of_books_id,
P_SALESREP_NUMBER             => l_salesrep_number,
P_EMAIL_ADDRESS               => l_email_address,
P_WH_UPDATE_DATE              => l_wh_update_date,
P_SALES_TAX_GEOCODE           => l_sales_tax_geocode,
P_SALES_TAX_INSIDE_CITY_LIMITS => l_sales_tax_inside_city_limits,
P_ORG_ID                      => l_org_id,
P_OBJECT_VERSION_NUMBER       => l_object_version_number,

```

Sample Code

```
X_RETURN_STATUS          => l_return_status,
X_MSG_COUNT              => l_msg_count,
X_MSG_DATA               => l_msg_data
);

if (l_return_status <> 'S') then
  if (fnd_msg_pub.count_msg > 0) then
    for i in 1..fnd_msg_pub.count_msg loop
      fnd_msg_pub.get
        (p_msg_index => i,
         p_data => l_msg_data,
         p_encoded => 'F',
         p_msg_index_out => l_msg_index_out
        );
      l_msg_data1 := l_msg_data1 || ' ' || l_msg_data;
    end loop;
    fnd_message.set_encoded(l_msg_data1);
    dbms_output.put_line(l_msg_data1);
  end if;
else
  dbms_output.put_line ('Return Status - ' || l_return_status);
end if;

end;
/
```

Task Manager Public APIs

Task Manager provides Oracle e-Business Suite products with task management capability. Task Manager can be accessed as a standalone module or as an integrated component of other applications. When Task Manager is called by another application the values supplied by that application populate the relevant Task Manager fields. Other e-Business Suite modules call the Task Manager public APIs to insert, update, delete, and query task records.

Note: In Applications release 11.5.9, many of the Task Manager's PL/SQL server side APIs have been enhanced to utilize the pass by reference semantics of PL/SQL. This improves performance considerably and reduces memory consumption. In the normal processing case (i.e. success), there is no change of behavior, and callers of these APIs are not impacted. However, in the case of exceptions, there is a behavior change which results in assignments being exposed to the caller, which are made in the API prior to any exceptions being raised. The previous behavior would rollback these assignments made by the API if an exception occurred in this API. Developers writing custom extensions to Oracle Applications, or third party integrators which use the standard Applications' APIs should be aware of this change in semantics.

This chapter discusses the following topics:

- [Task Manager Public Packages](#)
- [Messages and Notifications](#)
- [Sample Code](#)

3.1 Task Manager Public Packages

All public procedures (APIs) relating to creating, updating, or deleting tasks, task references, or task assignments are stored in the following public packages:

- JTF_TASKS_PUB
- JTF_TASK_ASSIGNMENTS_PUB
- JTF_TASK_REFERENCES_PUB

The following tables describe the Task Manager public APIs.

Table 3–1 Tasks APIs

Procedure	Description
Create_Task	Creates a task and provides the task with values supplied by the calling application. It also creates the dependencies, resource requirements, assignments, references, dates, recurrences, and contacts.
Update_Task	Updates a task with values supplied by the calling application.
Delete_Task	Soft deletes a task by marking the task as deleted without removing the task record from the database table in which it is stored.

Table 3–2 Task Assignments APIs

Procedure	Description
Create_Task_Assignment	Creates a task assignment for a specified task. The level of effort can be specified for each resource assigned to the task.
Update_Task_Assignment	Updates a task assignment for a given task. For each resource assigned to the task, the actual effort can be specified.
Delete_Task_Assignment	Deletes a task assignment for a specified task.

Table 3–3 Task References APIs

Procedure	Description
Create_References	Creates references to a task. For example, a task created for a service request can establish reference to an inventory part number using references.
Update_References	Updates references to a task.

Table 3–3 Task References APIs

Procedure	Description
Delete_References	Deletes references to a task.

Note:

The following are referenced throughout the table's "Validations and Descriptions" column in all of the Task APIs.

1. The Task APIs support calls by values not internal IDs. For example, the Account Number can be passed to the API instead of the Account ID. However, using these IDs improves the API performance.
2. The customer account should belong to the same customer which is specified for the task.
3. The address (*party_site_id* and *party_site_number*) specified for the task, should be the address registered for the customer in the TCA schema. The address can only be specified if the customer for the task is specified. In addition, the customer address specified for the task must be specified for the same customer at the task level.
4. To specify the unit of measure (UOM) for the effort and duration fields, the profile *jtf_time_uom_class* must be populated with the unit of measure class. For example, the customer can create a unit of measure class called TIME. The profile must be populated with this value. Further, the customer should create unit of measure codes such as minutes, hours, and days for the Time class. While specifying values to the APIs, the customer can pass values for these unit of measure codes.
5. Child and Parent tasks must have the same source. For example, the child task cannot have the source as Lead and the Parent task cannot have the source as Service Request.
6. Each task must have an owner associated with it. The owner for a task can be populated with the following two fields:
 - * *Owner_type_code* (for example *rs_employee*)
 - * *Owner_id* (for example *resource_id* of the employee)

The *owner_type_code* is a Foreign Key to *jtf_objects_vl* for objects with a usage of "Resources." The object definition in *jtf_objects* contains all the relevant

information to create a PL/SQL statement. Using this PL/SQL statement, the *owner_id* is validated.

For example, for *rs_employee*, the SELECT statement that is created at run time is:

```
SELECT resource_id, full_name from JTF_RS_EMP_DTLS_VL
```

Owner IDs passed to this API are validated against resources in the system.

7. Every task is associated with a source. Some examples of sources are: Service Requests, Leads, Opportunity, Campaigns, Defects, and Contracts. The source of a task drives most of the business rules for the task.

For example, Service Request #100 is the source for Task #101, Task #105, and Task #107. Therefore, the parent entity, Service Request #100, can create multiple tasks with the same source.

To create a source, the entity must be defined in JTF_OBJECTS. This can be accomplished by logging into **CRM Administrator Responsibility > Task and Escalation Manager > Setups > Objects Meta > Data**.

Continuing with the previous example, you will have the values of the parameters to create a task with a source of Service Request # 100.

```
p_source_object_type_code = SR
```

```
p_source_object_id = 100
```

```
p_source_object_name = A101
```

The *Source_object_type_code* is a Foreign Key to the JTF_OBJECTS with a usage of Task.

The *source_object_id* is the internal identifier which represents the instance of the source, in this case, service request identifier. This is generally the Primary Key of the "Source table," in this case, service request table.

The *p_source_object_name* is the external identifier which represents the instance of the source, in this case, service request number. The source object name is displayed on the user interface.

The same concept is used to established references to a task.

8. While updating or deleting any of the three public packages: tasks, task assignments, or task references, the *object_version_number* must be passed to the APIs. If the *object_version_number* that is passed into the API is the same as in the tables (tasks, assignments, and references), then the attempt is made to update or delete the record. Otherwise, an error is returned. You

should get the *object_version_number* when selecting the record, then pass it to the update and delete APIs.

3.2 Package JTF_TASKS_PUB

The JTF_TASKS_PUB API contains the following APIs:

- [Create_Task](#)
- [Update_Task](#)
- [Delete_Task](#)

3.2.1 Data Structure Specifications

The following data structures are used in the JTF_TASKS_PUB API:

- [Task Assign Record Type](#)
- [Task Dependency Record Type](#)
- [Task Reference Record Type](#)
- [Task Recurrence Record Type](#)
- [Task Dates Record Type](#)
- [Task Contact Record Type](#)
- [Task Notes Record Type](#)
- [Sort Record Type](#)

3.2.1.1 Task Assign Record Type

This composite record type enumerates task assignment details that are ultimately stored in the JTF_TASK_ASSIGN table.

```
TYPE task_assign_rec IS RECORD.
(
  resource_type_code          number,
  resource_id                 number,
  actual_start_date           date := null,
  actual_end_date             date := null,
  actual_effort_duration      number := null,
  actual_effort_dur_uom       varchar2(3) := null,
  scheduled_travel_distance   number :=null,
  scheduled_travel_duration   number :=null,
```

```
    scheduled_travel_duration_uom  varchar2(3) :=null,  
    actual_travel_distance          number :=null,  
    actual_travel_duration         number :=null,  
    scheduled_travel_duration_uom  varchar2(3) :=null,  
    schedule_flag                  varchar2(1) := null,  
    alarm_type_code                varchar2(30) := null,  
    alarm_contact                  varchar2(200) := null  
);
```

3.2.1.2 Task Dependency Record Type

This composite record type enumerates the dependency information between two tasks that is ultimately stored in the JTF_TASK_DEPENDS table. When *template_flag*='Y', the dependency exists between the templates. When this field is not set to 'Y' the dependency exists between the tasks. The *Adjustment_time* and *adjustment_time_uom* fields indicate the lead or lag time between the two tasks.

```
TYPE task_depends_rec IS RECORD.  
(  
    dependent_on_task_id          number,  
    dependent_on_task_number     number := null,  
    dependency_type_code         varchar2(30),  
    adjustment_time              number := null,  
    adjustment_time_uom         varchar2(3) := null  
);
```

3.2.1.3 Task Reference Record Type

This composite record type enumerates the reference details for a specific task that are ultimately stored in the JTF_TASK_REFERENCES table. The *reference_code* field retrieves the value from Lookup code stored in the JTF_TASK_REFERENCE_CODES table.

```
TYPE task_refer_rec IS RECORD.  
(  
    object_type_code             varchar2(10),  
    object_type_name            varchar2(80)  
    object_name                  varchar2(80),  
    object_id                   number,  
    object_details              varchar2(2000),  
    reference_code              varchar2(30),  
    usage                       varchar2(2000)  
);
```

3.2.1.4 Task Recurrence Record Type

This composite record type enumerates recurring task information that is ultimately stored in the JTF_TASK_RECUR_REC table.

```
TYPE task_recur_rec IS RECORD.
(
  occurs_which          number,
  day_of_week          number,
  date_of_month        number,
  occurs_month         number,
  occurs_uom           varchar2(3),
  occurs_every         number,
  occurs_number        number
  start_date_active    date := null,
  end_date_active      date := null
);
```

3.2.1.5 Task Dates Record Type

This composite record type enumerates task date values that are ultimately stored in the JTF_TASK_DATES table. The *date_type_id* field is a foreign key to the JTF_TASK_DATE_TYPES table.

```
TYPE task_dates_rec IS RECORD.
(
  date_type_id          number default null,
  date_type_name        varchar2(30) default null,
  date_type             varchar2(30) default null,
  date_value            date
);
```

3.2.1.6 Task Contact Record Type

This composite record type enumerates customer contact information that is ultimately stored in the JTF_TASK_CONTACTS table.

```
TYPE task_contacts_rec IS RECORD.
(
  contact_id            number default null,
  contact_type_code     varchar2(30) default null,
  escalation_notify_flag varchar2(1) default null,
  escalation_requester_flag varchar2(1) default null
);
```

3.2.1.7 Task Notes Record Type

This composite record type enumerates notes information that is ultimately stored in the JTF_TASK_NOTES table.

```
TYPE task_notes_rec IS RECORD
(
  parent_note_id      number,
  org_id              number,
  notes               varchar2(4000),
  notes_detail        varchar2(32767),
  note_status         varchar2(1),
  entered_by          number,
  entered_date        date,
  note_type           varchar2(30),
  jtf_note_id         number,
  attribute1          varchar2(150),
  attribute2          varchar2(150),
  attribute3          varchar2(150),
  attribute4          varchar2(150),
  attribute5          varchar2(150),
  attribute6          varchar2(150),
  attribute7          varchar2(150),
  attribute8          varchar2(150),
  attribute9          varchar2(150),
  attribute10         varchar2(150),
  attribute11         varchar2(150),
  attribute12         varchar2(150),
  attribute13         varchar2(150),
  attribute14         varchar2(150),
  attribute15         varchar2(150),
  context             varchar2(30)
);
```

3.2.1.8 Sort Record Type

This composite record type enumerates task sorting information that is ultimately stored in the SORT_REC table.

```
TYPE sort_rec IS RECORD
(
  field_name          varchar2(30),
  asc_dsc_flag        char(1) default 'A'
);
```

3.2.2 Create_Task

This procedure creates a task with the given specifications. Also, it creates the dependencies, resource requirements, assignments, references, dates, recurrences, and contacts for the task created.

Procedure Specification

```
PROCEDURE create_task
(
  p_api_version          in    number,
  p_init_msg_list       in    varchar2    default fnd_api.g_false,
  p_commit              in    varchar2    default fnd_api.g_false,
  p_task_id            in    number      default null,
  p_task_name          in    varchar2,
  P_task_type_name     in    varchar2    default null,
  p_task_type_id       in    number      default null,
  p_description        in    varchar2    default null,
  p_task_status_name   in    varchar2    default null,
  p_task_status_id     in    number      default null,
  p_task_priority_name in    varchar2    default null,
  p_task_priority_id   in    number      default null,
  p_owner_type_name    in    varchar2    default null,
  p_owner_type_code    in    varchar2    default null,
  p_owner_id          in    number      default null,
  p_owner_territory_id in    number      default null,
  p_assigned_by_name   in    varchar2    default null,
  p_assigned_by_id     in    number      default null,
  p_customer_number    in    varchar2    default null,
  p_customer_id        in    number      default null,
  p_cust_account_number in    varchar2    default null,
  p_cust_account_id    in    number      default null,
  p_address_id         in    number      default null,
  p_address_number     in    varchar2    default null,
  p_planned_start_date in    date        default null,
  p_planned_end_date   in    date        default null,
  p_scheduled_start_date in    date      default null,
  p_scheduled_end_date in    date        default null,
  p_actual_start_date  in    date        default null,
  p_actual_end_date    in    date        default null,
  p_timezone_id        in    number      default null,
  p_timezone_name      in    varchar2    default null,
  p_source_object_type_code in    varchar2    default null,
  p_source_object_id   in    number      default null,
  p_source_object_name in    varchar2    default null,
```

p_duration	in	number	default null,
p_duration_uom	in	varchar2	default null,
p_planned_effort	in	number	default null,
p_planned_effort_uom	in	varchar2	default null,
p_actual_effort	in	number	default null,
p_actual_effort_uom	in	varchar2	default null,
p_percentage_complete	in	number	default null,
p_reason_code	in	varchar2	default null,
p_private_flag	in	varchar2	default null,
p_publish_flag	in	varchar2	default null,
p_restrict_closure_flag	in	varchar2	default null,
p_multi_booked_flag	in	varchar2	default null,
p_milestone_flag	in	varchar2	default null,
p_holiday_flag	in	varchar2	default null,
p_billable_flag	in	varchar2	default null,
p_bound_mode_code	in	varchar2	default null,
p_soft_bound_flag	in	varchar2	default null,
p_workflow_process_id	in	number	default null,
p_notification_flag	in	varchar2	default null,
p_notification_period	in	number	default null,
p_notification_period_uom	in	varchar2	default null,
p_parent_task_number	in	varchar2	default null,
p_parent_task_id	in	number	default null,
p_alarm_start	in	number	default null,
p_alarm_start_uom	in	varchar2	default null,
p_alarm_on	in	varchar2	default null,
p_alarm_count	in	number	default null,
p_alarm_interval	in	number	default null,
p_alarm_interval_uom	in	varchar2	default null,
p_palm_flag	in	varchar2	default null,
p_wince_flag	in	varchar2	default null,
p_laptop_flag	in	varchar2	default null,
p_device1_flag	in	varchar2	default null,
p_device2_flag	in	varchar2	default null,
p_device3_flag	in	varchar2	default null,
p_costs	in	number	default null,
p_currency_code	in	varchar2	default null,
p_escalation_level	in	varchar2	default null,
p_task_assign_tbl	in	task_assign_tbl	default g_miss_task_assign_tbl,
p_task_depends_tbl	in	task_depends_tbl	default g_miss_task_depends_tbl,
p_task_rsrc_req_tbl	in	task_rsrc_req_tbl	default g_miss_task_rsrc_req_tbl,
p_task_refer_tbl	in	task_refer_tbl	default g_miss_task_refer_tbl,
p_task_dates_tbl	in	task_dates_tbl	default g_miss_task_dates_tbl,
p_task_notes_tbl	in	task_notes_tbl	default g_miss_task_notes_tbl,
p_task_recur_rec	in	task_recur_rec	default g_miss_task_recur_rec,

```

p_task_contacts_tbl      in      task_contacts_tbl  default g_miss_task_contacts_tbl,
x_return_status         out      varchar2,
x_msg_count             out      number,
x_msg_data              out      varchar2,
x_task_id               out      number,
p_attribute1            in      varchar2           default null,
p_attribute2            in      varchar2           default null,
p_attribute3            in      varchar2           default null,
p_attribute4            in      varchar2           default null,
p_attribute5            in      varchar2           default null,
p_attribute6            in      varchar2           default null,
p_attribute7            in      varchar2           default null,
p_attribute8            in      varchar2           default null,
p_attribute9            in      varchar2           default null,
p_attribute10           in      varchar2           default null,
p_attribute11           in      varchar2           default null,
p_attribute12           in      varchar2           default null,
p_attribute13           in      varchar2           default null,
p_attribute14           in      varchar2           default null,
p_attribute15           in      varchar2           default null,
p_attribute_category    in      varchar2           default null,
p_date_selected         in      varchar2           default null,
p_category_id           in      number             default null,
p_show_on_calendar      in      varchar2           default null,
p_owner_status_id      in      number             default null,
p_template_id           in      number             default null,
p_template_group_id     in      number             default null,
p_enable_workflow       in      varchar2,
p_abort_workflow        in      varchar2
);

```

Current Version

1.0

Parameter Descriptions

The following table describes the IN parameters associated with this API.

Table 3–4 Create_Task IN Parameters

Parameter	Data Type	Required	Descriptions and Validations
p_api_version	NUMBER	Yes	See " Standard IN Parameters " on page 1-3.

Table 3–4 Create_Task IN Parameters

Parameter	Data Type	Required	Descriptions and Validations
p_init_msg_list	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_commit	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_task_id	NUMBER	No	Unique task identifier (Primary Key). If <i>task_id</i> is not specified, then the <i>task_id</i> is automatically generated and passed as an out parameter <i>x_task_id</i> .
p_task_name	VARCHAR2	Yes	This defines the task name.
p_task_type_name	VARCHAR2	Yes	This defines the task type name.
p_task_type_id	NUMBER	Yes	This is the task type identifier.
p_description	VARCHAR2	No	This is the description of the task.
p_task_status_name	VARCHAR2	No	This defines the task status name.
p_task_status_id	NUMBER	No	Unique task status identifier
p_task_priority_name	VARCHAR2	No	Currently not supported
p_task_priority_id	NUMBER	No	This defines the task priority (Foreign Key to JTF_TASK_PRIORITIES).
p_owner_type_code	VARCHAR2	Yes	Owner type of the task (Foreign Key to JTF_OBJECTS_VL for an object with a usage of "Resources").
p_owner_id	NUMBER	Yes	Owner of the task (resource ID of the task owner. Foreign key to JTF_RS_RESOURCE_EXTNS_VL, JTF_RS_GROUPS_VL, JTF_RS_TEAMS_VL depending on the value of <i>owner_type_code</i>).
p_owner_territory_id	NUMBER	No	Territory of the owner. Currently not supported
p_assigned_by_name	VARCHAR2	No	Currently not supported
p_assigned_by_id	NUMBER	No	This is the user who assigned the task, (Foreign Key to FND_USER).

Table 3–4 Create_Task IN Parameters

Parameter	Data Type	Required	Descriptions and Validations
p_customer_number	VARCHAR2	No	Customer number (Foreign Key to <i>hz_parties.party_number</i>).
p_customer_id	NUMBER	No	This is the customer identifier (Foreign Key to <i>hz_parties.party_id</i>).
p_cust_account_number	VARCHAR2	No	Customer account number (Foreign Key to <i>hz_cust_accounts.cust_account_number</i>).
p_cust_account_id	NUMBER	No	Customer account identifier (Foreign Key to <i>hz_cust_accounts.cust_account_id</i>). The customer account should belong to the same customer which is specified for the task.
p_address_id	NUMBER	No	This is the address identifier (Foreign Key to <i>hz_party_sites.party_site_id</i>). See Note: 3 on page 3-3.
p_address_number	VARCHAR2	No	Address number (Foreign Key to <i>hz_party_sites.party_site_number</i>). See Note: 3 on page 3-3.
p_planned_start_date	DATE	No	This defines the Planned Start Date.
p_planned_end_date	DATE	No	This defines the Planned End Date.
p_scheduled_start_date	DATE	No	This defines the Scheduled Start Date.
p_scheduled_end_date	DATE	No	This defines the Scheduled End Date.
p_actual_start_date	DATE	No	This defines the Actual Start Date.
p_actual_end_date	DATE	No	This defines the Actual End Date.
p_timezone_id	NUMBER	No	This is the time zone identifier (timezone for the planned, scheduled, and actual dates.) Foreign Key to <i>hz_timezones.timezone_id</i> .

Table 3–4 Create_Task IN Parameters

Parameter	Data Type	Required	Descriptions and Validations
p_timezone_name	VARCHAR2	No	Currently not supported.
p_source_object_type_code	VARCHAR2	No	The Source object code for the task. (Foreign Key to JTF_OBJECTS_VL for objects with a usage of "Task").
p_source_object_id	NUMBER	No	This is the internal ID of source object. Validated from the table registered in JTF_OBJECTS_VL for the <i>object_type_code</i> .
p_source_object_name	VARCHAR2	No	This is the user-visible source object identifier. Validated from the table registered in JTF_OBJECTS_VL for the <i>object_type_code</i> .
p_duration	NUMBER	No	This defines the duration of task.
p_duration_uom	VARCHAR2	No	This defines the unit of measure for duration. See Note: 5 on page 3-3.
p_planned_effort	NUMBER	No	This defines the planned effort.
p_planned_effort_uom	VARCHAR2	No	This defines the unit of measure for planned effort.
p_actual_effort	NUMBER	No	This defines the actual amount of effort spent on a task by all assignees.
p_actual_effort_uom	VARCHAR2	No	This defines the unit of measure for actual work. See Note: 5 on page 3-3.
p_percentage_complete	NUMBER	No	This defines the percentage of completion of the task.
p_reason_code	VARCHAR2	No	Reason for rejecting a task, reassigning a task, etc.
p_private_flag	VARCHAR2	No	Indicates whether the task is private or public. Checks if the value is Y or N.
p_publish_flag	VARCHAR2	No	Indicates whether the task should be published. Checks if the value is Y or N.

Table 3–4 Create_Task IN Parameters

Parameter	Data Type	Required	Descriptions and Validations
p_restrict_closure_flag	VARCHAR2	No	Indicates whether completing the task is necessary for the source object to be deemed complete. Checks if the value is Y or N.
p_multi_booked_flag	VARCHAR2	No	Indicates whether the task can book resources that are already assigned to other tasks. Checks if the value is Y or N.
p_milestone_flag	VARCHAR2	No	Indicates whether the task is a milestone delivery date. Checks if the value is Y or N.
p_holiday_flag	VARCHAR2	No	Indicates whether the task can be performed on holidays. Checks if the value is Y or N.
p_billable_flag	VARCHAR2	No	Indicates whether the task is billable. Checks if the value is Y or N.
p_bound_mode_code	VARCHAR2	No	For internal use only
p_soft_bound_flag	VARCHAR2	No	For internal use only
p_workflow_process_id	NUMBER	No	Identifier of last workflow process launched for this task.
p_notification_flag	VARCHAR2	No	Flag indicating whether notification workflow will be automatically launched.
p_notification_period	NUMBER	No	Time before the scheduled start date that a notification is sent to the assignees.
p_notification_period_uom	VARCHAR2	No	This is the unit of measure for the notification period.
p_parent_task_number	VARCHAR2	No	The Task number of the parent task.
p_parent_task_id	NUMBER	No	The Task identifier of the parent task.
p_alarm_start	NUMBER	No	Indicates when the first alarm should be fired. This parameter is currently not supported.

Table 3–4 Create_Task IN Parameters

Parameter	Data Type	Required	Descriptions and Validations
p_alarm_start_uom	VARCHAR2	No	Unit of measure for <i>alarm_start</i> . This parameter is currently not supported.
p_alarm_on	VARCHAR2	No	Indicates whether the alarm is on. This parameter is currently not supported.
p_alarm_count	NUMBER	No	Total number of alarms to fire. This parameter is currently not supported.
p_alarm_interval	NUMBER	No	Alarm interval. This parameter is currently not supported.
p_alarm_interval_uom	VARCHAR2	No	Unit of measure for alarm interval. This parameter is currently not supported.
p_palm_flag	VARCHAR2	No	Used by mobile devices. Checks if the value is Y or N.
p_wince_flag	VARCHAR2	No	Used by mobile devices. Checks if the value is Y or N.
p_laptop_flag	VARCHAR2	No	Used by mobile devices. Checks if the value is Y or N.
p_device1_flag	VARCHAR2	No	Used by mobile devices. Checks if the value is Y or N.
p_device2_flag	VARCHAR2	No	Used by mobile devices. Checks if the value is Y or N.
p_device3_flag	VARCHAR2	No	Used by mobile devices. Checks if the value is Y or N.
p_costs	NUMBER	No	For internal use only
p_currency_code	VARCHAR2	No	For internal use only
p_escalation_level	VARCHAR2	No	Escalation level. This parameter is not used for the Task Module
p_task_assign_tbl	TASK_ASSIGN_TBL	No	Table of PL/SQL records to specify the assignment specifications of the task.
p_task_depends_tbl	TASK_DEPENDS_TBL	No	Table of PL/SQL records to specify the task dependencies.
p_task_rsrc_req_tbl	TASK_RSRC_REQ_TBL	No	Table of PL/SQL records to specify the resource requirements. This is not supported.

Table 3–4 Create_Task IN Parameters

Parameter	Data Type	Required	Descriptions and Validations
p_task_refer_tbl	TASK_REFER_TBL	No	Table of PL/SQL records to specify the task references.
p_task_dates_tbl	TASK_DATES_TBL	No	Table of PL/SQL records to specify the task dates. Currently not supported.
p_task_notes_tbl	TASK_NOTES_TBL	No	Table of PL/SQL records to specify the notes.
p_task_recur_rec	TASK_RECUR_REC	No	Table of PL/SQL records to specify the task recurrences.
p_task_contacts_tbl	TASK_CONTACTS_TBL	No	Table of PL/SQL records to specify the task contacts.
p_attribute1	VARCHAR2	No	Descriptive flexfield segment column
p_attribute2	VARCHAR2	No	Descriptive flexfield segment column
p_attribute3	VARCHAR2	No	Descriptive flexfield segment column
p_attribute4	VARCHAR2	No	Descriptive flexfield segment column
p_attribute5	VARCHAR2	No	Descriptive flexfield segment column
p_attribute6	VARCHAR2	No	Descriptive flexfield segment column
p_attribute7	VARCHAR2	No	Descriptive flexfield segment column
p_attribute8	VARCHAR2	No	Descriptive flexfield segment column
p_attribute9	VARCHAR2	No	Descriptive flexfield segment column
p_attribute10	VARCHAR2	No	Descriptive flexfield segment column
p_attribute11	VARCHAR2	No	Descriptive flexfield segment column
p_attribute12	VARCHAR2	No	Descriptive flexfield segment column
p_attribute13	VARCHAR2	No	Descriptive flexfield segment column
p_attribute14	VARCHAR2	No	Descriptive flexfield segment column
p_attribute15	VARCHAR2	No	Descriptive flexfield segment column
p_attribute_category	VARCHAR2	No	Descriptive flexfield structure defining column

Table 3–4 Create_Task IN Parameters

Parameter	Data Type	Required	Descriptions and Validations
p_date_selected	VARCHAR2	No	This date is copied from the Task profile option and copied to the Calendar Start date. Valid values include Planned, Scheduled, or Actual.
p_category_id	NUMBER	No	This defines the task category ID.
p_show_on_calendar	VARCHAR2	No	Displays Tasks on the HTML Calendar. Checks if the Value is Y or N.
p_owner_status_id	NUMBER	Yes	The status of the task level.
p_template_id	NUMBER	No	Identifier for when you are creating a task from a template.
p_template_group_id	NUMBER	No	Identifier for when you are creating a task from a template group.
p_enable_workflow	VARCHAR2	Yes	Determines whether or not to send automatic notifications from the application. Checks if the value is Y or N.
p_abort_workflow	VARCHAR2	Yes	Determines whether or not to abort the previous Workflow process before starting the next one. Checks if the value is Y or N.

The following table describes the OUT parameters associated with this API.

Table 3–5 Create_Task Out Parameters

Parameter	Data Type	Descriptions
x_return_status	VARCHAR2	See " Standard OUT Parameters " on page 1-4.
x_msg_count	NUMBER	See " Standard OUT Parameters " on page 1-4.
x_msg_data	VARCHAR2	See " Standard OUT Parameters " on page 1-4.
x_task_id	NUMBER	This is the task identifier.

3.2.3 Update_Task

This procedure updates a task with the given specifications. While calling the Update_Task API, *task_id* and *task_number* should be input to the API. The *task_id* or the *task_number* must be specified to indicate the task that is being updated.

Procedure Specification

```
PROCEDURE update_task
(
  p_api_version          in          number
  p_init_msg_list        in          varchar2    default fnd_api.g_false,
  p_commit               in          varchar2    default fnd_api.g_false,
  p_object_version_number in out    number,
  p_task_id              in          number      default fnd_api.g_miss_num,
  p_task_number          in          varchar2    default fnd_api.g_miss_char,
  p_task_name            in          varchar2    default fnd_api.g_miss_char,
  p_task_type_name       in          varchar2    default fnd_api.g_miss_char,
  p_task_type_id         in          number      default fnd_api.g_miss_num,
  p_description          in          varchar2    default fnd_api.g_miss_char,
  p_task_status_name     in          varchar2    default fnd_api.g_miss_char,
  p_task_status_id       in          number      default fnd_api.g_miss_num,
  p_task_priority_name   in          varchar2    default fnd_api.g_miss_char,
  p_task_priority_id     in          number      default fnd_api.g_miss_num,
  p_owner_type_name      in          varchar2    default fnd_api.g_miss_char,
  p_owner_type_code      in          varchar2    default fnd_api.g_miss_char,
  p_owner_id             in          number      default fnd_api.g_miss_num,
  p_owner_territory_id   in          number      default fnd_api.g_miss_num,
  p_assigned_by_name     in          varchar2    default fnd_api.g_miss_char,
  p_assigned_by_id       in          number      default fnd_api.g_miss_num,
  p_customer_number      in          varchar2    default fnd_api.g_miss_char,
  p_customer_id          in          number      default fnd_api.g_miss_num,
  p_cust_account_number  in          varchar2    default fnd_api.g_miss_char,
  p_cust_account_id      in          number      default fnd_api.g_miss_num,
  p_address_id           in          number      default fnd_api.g_miss_num,
  p_address_number       in          varchar2    default fnd_api.g_miss_char,
  p_planned_start_date   in          date        default fnd_api.g_miss_date,
  p_planned_end_date     in          date        default fnd_api.g_miss_date,
  p_scheduled_start_date in          date        default fnd_api.g_miss_date,
  p_scheduled_end_date  in          date        default fnd_api.g_miss_date,
  p_actual_start_date    in          date        default fnd_api.g_miss_date,
  p_actual_end_date      in          date        default fnd_api.g_miss_date,
  p_timezone_id          in          number      default fnd_api.g_miss_num,
  p_timezone_name        in          varchar2    default fnd_api.g_miss_char,
  p_source_object_type_code in        varchar2    default fnd_api.g_miss_char,
```

p_source_object_id	in	number	default fnd_api.g_miss_num,
p_source_object_name	in	varchar2	default fnd_api.g_miss_char,
p_duration	in	number	default fnd_api.g_miss_num,
p_duration_uom	in	varchar2	default fnd_api.g_miss_char,
p_planned_effort	in	number	default fnd_api.g_miss_num,
p_planned_effort_uom	in	varchar2	default fnd_api.g_miss_char,
p_actual_effort	in	number	default fnd_api.g_miss_num,
p_actual_effort_uom	in	varchar2	default fnd_api.g_miss_char,
p_percentage_complete	in	number	default fnd_api.g_miss_num,
p_reason_code	in	varchar2	default fnd_api.g_miss_char,
p_private_flag	in	varchar2	default fnd_api.g_miss_char,
p_publish_flag	in	varchar2	default fnd_api.g_miss_char,
p_restrict_closure_flag	in	varchar2	default fnd_api.g_miss_char,
p_multi_booked_flag	in	varchar2	default fnd_api.g_miss_char,
p_milestone_flag	in	varchar2	default fnd_api.g_miss_char,
p_holiday_flag	in	varchar2	default fnd_api.g_miss_char,
p_billable_flag	in	varchar2	default fnd_api.g_miss_char,
p_bound_mode_code	in	varchar2	default fnd_api.g_miss_char,
p_soft_bound_flag	in	varchar2	default fnd_api.g_miss_char,
p_workflow_process_id	in	number	default fnd_api.g_miss_num,
p_notification_flag	in	varchar2	default fnd_api.g_miss_char,
p_notification_period	in	number	default fnd_api.g_miss_num,
p_notification_period_uom	in	varchar2	default fnd_api.g_miss_char,
p_alarm_start	in	number	default fnd_api.g_miss_num,
p_alarm_start_uom	in	varchar2	default fnd_api.g_miss_char,
p_alarm_on	in	varchar2	default fnd_api.g_miss_char,
p_alarm_count	in	number	default fnd_api.g_miss_num,
p_alarm_fired_count	in	number	default fnd_api.g_miss_num,
p_alarm_interval	in	number	default fnd_api.g_miss_num,
p_alarm_interval_uom	in	varchar2	default fnd_api.g_miss_char,
p_palm_flag	in	varchar2	default fnd_api.g_miss_char,
p_wince_flag	in	varchar2	default fnd_api.g_miss_char,
p_laptop_flag	in	varchar2	default fnd_api.g_miss_char,
p_device1_flag	in	varchar2	default fnd_api.g_miss_char,
p_device2_flag	in	varchar2	default fnd_api.g_miss_char,
p_device3_flag	in	varchar2	default fnd_api.g_miss_char,
p_costs	in	number	default fnd_api.g_miss_num,
p_currency_code	in	varchar2	default fnd_api.g_miss_char,
p_escalation_level	in	varchar2	default fnd_api.g_miss_char,
x_return_status	out	varchar2,	
x_msg_count	out	number,	
x_msg_data	out	varchar2,	
p_attribute1	in	varchar2	default jtf_task_utl.g_miss_char,
p_attribute2	in	varchar2	default jtf_task_utl.g_miss_char,
p_attribute3	in	varchar2	default jtf_task_utl.g_miss_char,

```

p_attribute4          in          varchar2    default jtf_task_utl.g_miss_char,
p_attribute5          in          varchar2    default jtf_task_utl.g_miss_char,
p_attribute6          in          varchar2    default jtf_task_utl.g_miss_char,
p_attribute7          in          varchar2    default jtf_task_utl.g_miss_char,
p_attribute8          in          varchar2    default jtf_task_utl.g_miss_char,
p_attribute9          in          varchar2    default jtf_task_utl.g_miss_char,
p_attribute10         in          varchar2    default jtf_task_utl.g_miss_char,
p_attribute11         in          varchar2    default jtf_task_utl.g_miss_char,
p_attribute12         in          varchar2    default jtf_task_utl.g_miss_char,
p_attribute13         in          varchar2    default jtf_task_utl.g_miss_char,
p_attribute14         in          varchar2    default jtf_task_utl.g_miss_char,
p_attribute15         in          varchar2    default jtf_task_utl.g_miss_char,
p_attribute_category  in          varchar2    default jtf_task_utl.g_miss_char
p_date_selected       in          varchar2    default jtf_task_utl.g_miss_char,
p_category_id        in          number       default jtf_task_utl.g_miss_number,
p_show_on_calendar   in          varchar2    default jtf_task_utl.g_miss_char,
p_owner_status_id    in          number       default jtf_task_utl.g_miss_number,
p_parent_task_id     in          number       default jtf_task_utl.g_miss_number,
p_parent_task_number in          varchar2    default jtf_task_utl.g_miss_char
);

```

Current Version

1.0

Parameter Descriptions

The following tables describes the IN parameters associated with this API.

Table 3-6 Update_Task IN Parameters

Parameter	Data Type	Required	Descriptions and Validations
p_api_version	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_init_msg_list	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_commit	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_object_version_number	NUMBER	Yes	This parameter is for internal use only. Do not modify in any way.

Table 3–6 Update_Task IN Parameters

Parameter	Data Type	Required	Descriptions and Validations
p_task_id	NUMBER	No	This is the unique task identifier (Primary Key). If <i>task_id</i> is not specified, then the <i>task_id</i> is automatically generated and passed as an OUT parameter <i>x_task_id</i> .
p_task_number	VARCHAR2	No	This defines the task number.
p_task_name	VARCHAR2	Yes	This defines the task name.
p_task_type_name	VARCHAR2	No	This defines the task type name.
p_task_type_id	NUMBER	Yes	This defines the task type identifier.
p_description	VARCHAR2	No	This is the description of the task.
p_task_status_name	VARCHAR2	No	This is the task status name.
p_task_status_id	NUMBER	No	This is the unique task status identifier.
p_task_priority_name	VARCHAR2	No	Currently not supported.
p_task_priority_id	NUMBER	No	Task priority (Foreign Key to JTF_TASK_PRIORITIES).
p_owner_type_name	VARCHAR2	No	Currently not supported.
p_owner_type_code	VARCHAR2	Yes	Owner type of the task (Foreign Key to JTF_OBJECTS_VL for an object with a usage of "Resources").
p_owner_id	NUMBER	Yes	Owner of the task (resource ID of the task owner. Foreign Key to JTF_RS_RESOURCE_EXTNS_VL, JTF_RS_GROUPS_VL, JTF_RS_TEAMS_VL depending on the value of <i>owner_type_code</i>).
p_owner_territory_id	NUMBER	No	Territory identifier of the owner.
p_assigned_by_name	VARCHAR2	No	Currently not supported.
p_assigned_by_id	NUMBER	No	User who assigned the task, (Foreign Key to FND_USER).

Table 3–6 Update_Task IN Parameters

Parameter	Data Type	Required	Descriptions and Validations
p_customer_number	VARCHAR2	No	Customer number (Foreign Key to <i>hz_parties.party_number</i>).
p_customer_id	NUMBER	No	Customer identifier (Foreign Key to <i>hz_parties.party_id</i>).
p_cust_account_number	VARCHAR2	No	Customer account number (Foreign Key to <i>hz_cust_accounts.cust_account_number</i>).
p_cust_account_id	NUMBER	No	Customer account identifier (Foreign Key to <i>hz_cust_accounts.cust_account_id</i>). The customer account should belong to the same customer who is specified for the task.
p_address_id	NUMBER	No	This is the address identifier.
p_address_number	VARCHAR2	No	Address number (Foreign key to <i>hz_party_sites.party_site_number</i>). See Note: 3 on page 3-3.
p_planned_start_date	DATE	No	This defines the Planned start date.
p_planned_end_date	DATE	No	This defines the Planned end date.
p_scheduled_start_date	DATE	No	This defines the Scheduled start date.
p_scheduled_end_date	DATE	No	This defines the Scheduled end date.
p_actual_start_date	DATE	No	This defines the Actual start date.
p_actual_end_date	DATE	No	This defines the Actual end date.
p_timezone_id	NUMBER	No	Time zone identifier (timezone for the planned, scheduled, and actual dates.) Foreign Key to <i>hz_timezones.timezone_id</i> .
p_timezone_name	VARCHAR2	No	Currently not supported.

Table 3–6 Update_Task IN Parameters

Parameter	Data Type	Required	Descriptions and Validations
p_source_object_type_code	VARCHAR2	No	Only supported in Create Tasks.
p_source_object_id	NUMBER	No	Only supported in Create Tasks.
p_source_object_name	VARCHAR2	No	Only supported in Create Tasks.
p_duration	NUMBER	No	The duration of task.
p_duration_uom	VARCHAR2	No	Unit of measure for duration. See Note: 5 on page 3-3.
p_planned_effort	NUMBER	No	This defines the planned effort.
p_planned_effort_uom	VARCHAR2	No	The unit of measure for planned effort.
p_actual_effort	NUMBER	No	Actual amount of effort spent on a task by all assignees.
p_actual_effort_uom	VARCHAR2	No	Unit of measure for actual work. See Note: 5 on page 3-3.
p_percentage_complete	NUMBER	No	Percentage completion of task.
p_reason_code	VARCHAR2	No	Reason for rejecting a task, reassigning a task, etc.
p_private_flag	VARCHAR2	No	Indicates whether the task is private or public. Checks if the value is Y or N.
p_publish_flag	VARCHAR2	No	Indicates whether the task should be published. Checks if the value is Y or N.
p_restrict_closure_flag	VARCHAR2	No	Indicates whether completing the task is necessary for the source object to be deemed complete. Checks if the value is Y or N.
p_multi_booked_flag	VARCHAR2	No	Indicates whether the task can book resources that are already assigned to other tasks. Checks if the value is Y or N.

Table 3-6 Update_Task IN Parameters

Parameter	Data Type	Required	Descriptions and Validations
p_milestone_flag	VARCHAR2	No	Indicates whether the task is a milestone delivery date. Checks if the value is Y or N.
p_holiday_flag	VARCHAR2	No	Indicates whether the task can be performed on holidays. Checks if the value is Y or N.
p_billable_flag	VARCHAR2	No	Indicates whether the task is billable. Checks if the value is Y or N.
p_bound_mode_code	VARCHAR2	No	For internal use only.
p_soft_bound_flag	VARCHAR2	No	For internal use only.
p_workflow_process_id	NUMBER	No	Identifier of last workflow process launched for this task.
p_notification_flag	VARCHAR2	No	Flag indicating whether notification workflow will be automatically launched.
p_notification_period	NUMBER	No	Time before the scheduled start date that a notification is sent to the assignees.
p_notification_period_uom	VARCHAR2	No	Unit of measure for notification period.
p_alarm_start	NUMBER	No	Indicates when the first alarm should be fired. This parameter is currently not supported.
p_alarm_start_uom	VARCHAR2	No	The unit of measure for <i>alarm_start</i> . This parameter is currently not supported.
p_alarm_on	VARCHAR2	No	Indicates whether the alarm is on. This parameter is currently not supported.
p_alarm_count	NUMBER	No	Total number of alarms to fire. This parameter is currently not supported.
p_alarm_fired_count	NUMBER	No	Number of times the alarm has been fired.
p_alarm_interval	NUMBER	No	Alarm interval. This parameter is currently not supported.

Table 3–6 Update_Task IN Parameters

Parameter	Data Type	Required	Descriptions and Validations
p_alarm_interval_uom	VARCHAR2	No	Unit of measure for alarm interval. This parameter is currently not supported.
p_palm_flag	VARCHAR2	No	Used by mobile devices. Checks if the value is Y or N.
p_wince_flag	VARCHAR2	No	Used by mobile devices. Checks if the value is Y or N.
p_laptop_flag	VARCHAR2	No	Used by mobile devices. Checks if the value is Y or N.
p_device1_flag	VARCHAR2	No	Used by mobile devices. Checks if the value is Y or N.
p_device2_flag	VARCHAR2	No	Used by mobile devices. Checks if the value is Y or N.
p_device3_flag	VARCHAR2	No	Used by mobile devices. Checks if the value is Y or N.
p_costs	NUMBER	No	For internal use only.
p_currency_code	VARCHAR2	No	For internal use only.
p_escalation_level	VARCHAR2	No	Escalation level. This parameter is not used for the Task Module.
p_attribute1	VARCHAR2	No	Descriptive flexfield segment column.
p_attribute2	VARCHAR2	No	Descriptive flexfield segment column.
p_attribute3	VARCHAR2	No	Descriptive flexfield segment column.
p_attribute4	VARCHAR2	No	Descriptive flexfield segment column.
p_attribute5	VARCHAR2	No	Descriptive flexfield segment column.
p_attribute6	VARCHAR2	No	Descriptive flexfield segment column.
p_attribute7	VARCHAR2	No	Descriptive flexfield segment column.
p_attribute8	VARCHAR2	No	Descriptive flexfield segment column.
p_attribute9	VARCHAR2	No	Descriptive flexfield segment column.
p_attribute10	VARCHAR2	No	Descriptive flexfield segment column.
p_attribute11	VARCHAR2	No	Descriptive flexfield segment column.
p_attribute12	VARCHAR2	No	Descriptive flexfield segment column.

Table 3–6 Update_Task IN Parameters

Parameter	Data Type	Required	Descriptions and Validations
p_attribute13	VARCHAR2	No	Descriptive flexfield segment column.
p_attribute14	VARCHAR2	No	Descriptive flexfield segment column.
p_attribute15	VARCHAR2	No	Descriptive flexfield segment column.
p_attribute_category	VARCHAR2	No	Descriptive flexfield structure defining column.
p_date_selected	VARCHAR2	No	This date is copied from the task profile option and copied to the Calendar Start date. Valid values include Planned, Scheduled, or Actual.
p_category_id	NUMBER	No	Task Category ID
p_show_on_calendar	VARCHAR2	No	Displays Tasks on the HTML Calendar. Checks if the Value is Y or N.
p_owner_status_id	NUMBER	Yes	The status of the task level.
p_parent_task_id	NUMBER	No	Identifier for the parent task.
p_parent_task_number	VARCHAR2	No	The parent task number.

The following table describes the OUT parameters associated with this API.

Table 3–7 Update_Task OUT Parameters

Parameter	Data Type	Descriptions
x_return_status	VARCHAR2	See " Standard OUT Parameters " on page 1-4.
x_msg_count	NUMBER	See " Standard OUT Parameters " on page 1-4.
x_msg_data	VARCHAR2	See " Standard OUT Parameters " on page 1-4.

3.2.4 Delete_Task

This procedure soft deletes a task with the given specifications. It marks the task as deleted but does not physically remove the record from the table. If the task is recurring, then all the future tasks can be deleted by setting the value of the parameter *p_delete_future_reurrences* to *fnl_api.g_true*.

Procedure Specification

```

PROCEDURE delete_task
(
  p_api_version           in    number,
  p_init_msg_list        in    varchar2 default fnd_api.g_false,
  p_commit                in    varchar2 default fnd_api.g_false,
  p_object_version_number in    number,
  p_task_id              in    number  default null,
  p_task_number          in    varchar2 default null,
  p_delete_future_recurrences in varchar2 default fnd_api.g_false,
  x_return_status        out    varchar2,
  x_msg_count            out    number,
  x_msg_data             out    varchar2
);

```

Current Version

1.0

Parameter Descriptions

The following table describes the IN parameters associated with this API.

Table 3–8 Delete_Task IN Parameters

Parameter	Data Type	Required	Descriptions and Validations
p_api_version	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_init_msg_list	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_commit	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_object_version_number	NUMBER	No	This parameter is for internal use only. Do not modify in any way.
p_task_id	NUMBER	No	Unique task identifier (Primary Key). If <i>task_id</i> is not specified, then the <i>task_id</i> is automatically generated and passed as an out parameter <i>x_task_id</i> .
p_task_number	VARCHAR2	No	This defines the task number.

Table 3–8 Delete_Task IN Parameters

Parameter	Data Type	Required	Descriptions and Validations
p_delete_future_reurrences	VARCHAR2	No	Used for recurring tasks. If the value of the parameter is set to: <i>find_api.g_true</i> , then all the future recurring tasks are deleted.

The following table describes the OUT parameters associated with this API.

Table 3–9 Delete_Task OUT Parameters

Parameter	Data Type	Descriptions
x_return_status	VARCHAR2	See " Standard OUT Parameters " on page 1-4.
x_msg_count	NUMBER	See " Standard OUT Parameters " on page 1-4.
x_msg_data	VARCHAR2	See " Standard OUT Parameters " on page 1-4.

3.3 Package JTF_TASKS_ASSIGNMENTS_PUB

The Task Assignment APIs contains the following APIs:

- [Create_Task_Assignment](#)
- [Update_Task_Assignment](#)
- [Delete_Task_Assignment](#)

3.3.1 Data Structure Specifications

The following data structure is used in the JTF_TASKS_ASSIGNMENTS_PUB API.

3.3.1.1 Task Assignments Record Type

The JTF_TASK_ASSIGNMENTS_REC creates the assignment details for a given task.

```
TYPE task_assignments_rec IS RECORD (
    task_assignment_id          number,
    object_version_number      number,
    task_id                    number,
    resource_type_code         varchar2(30),
    resource_id                number,
    assignment_status_id       number,
    actual_effort               number,
```

```

        resource_territory_id      number,
        actual_effort_uom          varchar2(3),
        schedule_flag             varchar2(1),
        alarm_type_code           varchar2(30),
        alarm_contact             varchar2(200),
        shift_construct_id        number,
        sched_travel_distance      number,
        sched_travel_duration      number,
        sched_travel_duration_uom varchar2(3),
        actual_travel_distance     number,
        actual_travel_duration     number,
        actual_travel_duration_uom varchar2(3),
        actual_start_date         date,
        actual_end_date           date,
        palm_flag                 varchar2(1),
        wince_flag                varchar2(1),
        laptop_flag               varchar2(1),
        device1_flag              varchar2(1),
        device2_flag              varchar2(1),
        device3_flag              varchar2(1),
        attribute1                 varchar2(150),
        attribute2                 varchar2(150),
        attribute3                 varchar2(150),
        attribute4                 varchar2(150),
        attribute5                 varchar2(150),
        attribute6                 varchar2(150),
        attribute7                 varchar2(150),
        attribute8                 varchar2(150),
        attribute9                 varchar2(150),
        attribute10                varchar2(150),
        attribute11                varchar2(150),
        attribute12                varchar2(150),
        attribute13                varchar2(150),
        attribute14                varchar2(150),
        attribute15                varchar2(150),
        attribute_category         varchar2(30),
        show_on_calendar           varchar2(1),
        category_id                number
    );

```

3.3.2 Create_Task_Assignment

This procedure creates a task assignment for a given task with the following specifications. Each task has a single owner, however, the task can have multiple

assignees. For each resource assigned to the task, the actual effort can be specified. The task identifier **or** the task number for which the assignments are being created must be specified.

```
PROCEDURE create_task_assignment
(
    p_api_version          in    number,
    p_init_msg_list       in    varchar2    default fnd_api.g_false,
    p_commit              in    varchar2    default fnd_api.g_false,
    p_task_assignment_id  in    number      default null,
    p_task_id            in    number      default null,
    p_task_number        in    varchar2    default null,
    p_task_name          in    varchar2,    default null,
    p_resource_type_code in    varchar2,
    p_resource_id        in    number,
    p_resource_name      in    varchar2    default null,
    p_actual_effort      in    number      default null,
    p_actual_effort_uom in    varchar2    default null,
    p_schedule_flag      in    varchar2    default null,
    p_alarm_type_code    in    varchar2    default null,
    p_alarm_contact      in    varchar2    default null,
    p_sched_travel_distance in number      default null,
    p_sched_travel_duration in number      default null,
    p_sched_travel_duration_uom in varchar2 default null,
    p_actual_travel_distance in number      default null,
    p_actual_travel_duration in number      default null,
    p_actual_travel_duration_uom in varchar2 default null,
    p_actual_start_date  in    date        default null,
    p_actual_end_date    in    date        default null,
    p_palm_flag          in    varchar2    default null,
    p_wince_flag        in    varchar2    default null,
    p_laptop_flag       in    varchar2    default null,
    p_device1_flag      in    varchar2    default null,
    p_device2_flag      in    varchar2    default null,
    p_device3_flag      in    varchar2    default null,
    p_resource_territory_id in number,    default null,
    p_assignment_status_id in number,
    p_shift_construct_id in    number      default null,
    x_return_status      out   varchar2,
    x_msg_count          out   number,
    x_msg_data          out   varchar2,
    x_task_assignment_id out   number,
    p_attribute1        in    varchar2    default null,
    p_attribute2        in    varchar2    default null,
    p_attribute3        in    varchar2    default null,
```

```

    p_attribute4          in  varchar2      default null,
    p_attribute5          in  varchar2      default null,
    p_attribute6          in  varchar2      default null,
    p_attribute7          in  varchar2      default null,
    p_attribute8          in  varchar2      default null,
    p_attribute9          in  varchar2      default null,
    p_attribute10         in  varchar2      default null,
    p_attribute11         in  varchar2      default null,
    p_attribute12         in  varchar2      default null,
    p_attribute13         in  varchar2      default null,
    p_attribute14         in  varchar2      default null,
    p_attribute15         in  varchar2      default null,
    p_attribute_category  in  varchar2      default null
    p_show_on_calendar    in  varchar2      default jtf_task_utl.g_yes_char,
    p_category_id         in  number         default null,
    p_enable_workflow     in  varchar2,
    p_abort_workflow      in  varchar2
);

```

Current Version

1.0

Parameter Descriptions

The following table describes the IN parameters associated with this API.

Table 3–10 Create_Task_Assignment IN Parameters

Parameter	Data Type	Required	Descriptions and Validations
p_api_version	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_init_msg_list	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_commit	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_task_assignment_id	NUMBER	Yes	For internal use only.
p_task_id	NUMBER	Yes	The is the unique task identifier (Primary Key).
p_task_number	VARCHAR2	No	This defines the task number. See Note: 1 on page 3-3.

Table 3–10 Create_Task_Assignment IN Parameters

Parameter	Data Type	Required	Descriptions and Validations
p_task_name	VARCHAR2	No	This defines the task name.
p_resource_type_code	VARCHAR2	Yes	Assignee type of the task. (Foreign Key to JTF_OBJECTS_VL for a object with a usage of “Resources”).
p_resource_id	NUMBER	Yes	Assignee of the task. Resource identifier of the task owner. (Foreign Key to JTF_RS_RESOURCE_EXTNS_VL, JTF_RS_GROUPS_VL, JTF_RS_TEAMS_VL depending on the value of <i>resource_type_code</i>).
p_resource_name	VARCHAR2	No	This defines the resource name. Not supported.
p_actual_effort	NUMBER	No	Actual amount of effort spent on a task by the assignees.
p_actual_effort_uom	VARCHAR2	No	Unit of measure for actual work. See Note: 5 on page 3-3.
p_schedule_flag	VARCHAR2	No	Indicates whether the resource should be scheduled by the Scheduler. The value must be Y, N, or NULL.
p_alarm_type_code	VARCHAR2	No	A lookup code that indicates how alarms should be sent to the resource. For example, e-mail, pager, phone. Not supported.
p_alarm_contact	VARCHAR2	No	Contact information for sending alarms. This field may store e-mail address, pager number, or phone number. Not supported.
p_sched_travel_distance	NUMBER	No	Scheduled travel distance. Not supported.
p_sched_travel_duration	NUMBER	No	Scheduled travel duration. Not supported.
p_sched_travel_duration_uom	VARCHAR2	No	Unit of measure for scheduled travel duration. Not supported.
p_actual_travel_distance	NUMBER	No	Actual travel duration. Not supported.

Table 3–10 Create_Task_Assignment IN Parameters

Parameter	Data Type	Required	Descriptions and Validations
p_actual_travel_duration	NUMBER	No	Actual travel duration. Not supported.
p_actual_travel_duration_uom	VARCHAR2	No	Unit of measure for actual travel duration. Not supported.
p_actual_start_date	DATE	No	This defines the actual start date.
p_actual_end_date	DATE	No	This defines the actual end date.
p_palm_flag	VARCHAR2	No	Used by mobile devices. Not supported.
p_wince_flag	VARCHAR2	No	Used by mobile devices. Not supported.
p_laptop_flag	VARCHAR2	No	Used by mobile devices. Not supported.
p_device1_flag	VARCHAR2	No	Used by mobile devices. Not supported.
p_device2_flag	VARCHAR2	No	Used by mobile devices. Not supported.
p_device3_flag	VARCHAR2	No	Used by mobile devices. Not supported.
p_resource_territory_id	NUMBER	No	Currently not supported.
p_assignment_status_id	NUMBER	No	Status identifier of the assignee. (Foreign Key to JTF_TASK_STATUSES_VL).
p_shift_construct_id	NUMBER	No	Shift construct identifier for the assignment.
p_attribute1	VARCHAR2	No	Descriptive flexfield segment column.
p_attribute2	VARCHAR2	No	Descriptive flexfield segment column.
p_attribute3	VARCHAR2	No	Descriptive flexfield segment column.
p_attribute4	VARCHAR2	No	Descriptive flexfield segment column.
p_attribute5	VARCHAR2	No	Descriptive flexfield segment column.
p_attribute6	VARCHAR2	No	Descriptive flexfield segment column.
p_attribute7	VARCHAR2	No	Descriptive flexfield segment column.
p_attribute8	VARCHAR2	No	Descriptive flexfield segment column.
p_attribute9	VARCHAR2	No	Descriptive flexfield segment column.

Table 3–10 Create_Task_Assignment IN Parameters

Parameter	Data Type	Required	Descriptions and Validations
p_attribute10	VARCHAR2	No	Descriptive flexfield segment column.
p_attribute11	VARCHAR2	No	Descriptive flexfield segment column.
p_attribute12	VARCHAR2	No	Descriptive flexfield segment column.
p_attribute13	VARCHAR2	No	Descriptive flexfield segment column.
p_attribute14	VARCHAR2	No	Descriptive flexfield segment column.
p_attribute15	VARCHAR2	No	Descriptive flexfield segment column.
p_attribute_category	VARCHAR2	No	Descriptive flexfield structure defining column.
p_show_on_calendar	VARCHAR2	No	Displays Tasks on the HTML Calendar. Checks if the Value is Y or N.
p_category_id	NUMBER	No	This defines the task category ID.
p_enable_workflow	VARCHAR2	No	Determines whether or not to send automatic notifications from the application. Checks if the value is Y or N.
p_abort_workflow	VARCHAR2	No	Determines whether or not to abort the previous Workflow process before starting the next one. Checks if the value is Y or N.

The following table describes the OUT parameters associated with this API.

Table 3–11 Create_Task_Assignment OUT Parameters

Parameter	Data Type	Descriptions
x_return_status	VARCHAR2	See "Standard OUT Parameters" on page 1-4.
x_msg_count	NUMBER	See "Standard OUT Parameters" on page 1-4.
x_msg_data	VARCHAR2	See "Standard OUT Parameters" on page 1-4.
x_task_assignment_id	NUMBER	This is the unique task assignment identifier.

3.3.3 Update_Task_Assignment

This procedure updates a task assignment for a given task. The *resource_type_code* parameter indicates the type of resource. *Resource_id* indicates an actual identifier. For each resource assigned to the task, the actual effort can be specified. The task assignment identifier must be specified.

Procedure Specification

PROCEDURE update_task_assignment

```
(
  p_api_version           in           number,
  p_object_version_number in out      number,
  p_init_msg_list        in           varchar2 default fnd_api.g_false,
  p_commit               in           varchar2 default fnd_api.g_false,
  p_task_assignment_id   in           number,
  p_task_id              in           number default fnd_api.g_miss_num,
  p_task_number          in           varchar2 default fnd_api.g_miss_char,
  p_task_name            in           varchar2 default fnd_api.g_miss_char,
  p_resource_type_code   in           varchar2 default fnd_api.g_miss_char,
  p_resource_id          in           number default fnd_api.g_miss_num,
  p_resource_name        in           varchar2 default fnd_api.g_miss_char,
  p_actual_effort        in           number default fnd_api.g_miss_num,
  p_actual_effort_uom    in           varchar2 default fnd_api.g_miss_char,
  p_schedule_flag        in           varchar2 default fnd_api.g_miss_char,
  p_alarm_type_code     in           varchar2 default fnd_api.g_miss_char,
  p_alarm_contact        in           varchar2 default fnd_api.g_miss_char,
  p_sched_travel_distance in          number default fnd_api.g_miss_num,
  p_sched_travel_duration in          number default fnd_api.g_miss_num,
  p_sched_travel_duration_uom in      varchar2 default fnd_api.g_miss_char,
  p_actual_travel_distance in          number default fnd_api.g_miss_num,
  p_actual_travel_duration in          number default fnd_api.g_miss_num,
  p_actual_travel_duration_uom in      varchar2 default fnd_api.g_miss_char,
  p_actual_start_date    in           date default fnd_api.g_miss_date,
  p_actual_end_date      in           date default fnd_api.g_miss_date,
  p_palm_flag            in           varchar2 default fnd_api.g_miss_char,
  p_wince_flag           in           varchar2 default fnd_api.g_miss_char,
  p_laptop_flag          in           varchar2 default fnd_api.g_miss_char,
  p_device1_flag         in           varchar2 default fnd_api.g_miss_char,
  p_device2_flag         in           varchar2 default fnd_api.g_miss_char,
  p_device3_flag         in           varchar2 default fnd_api.g_miss_char,
  p_resource_territory_id in          number default fnd_api.g_miss_num,
  p_assignment_status_id in          number default fnd_api.g_miss_num,
  p_shift_construct_id   in          number default fnd_api.g_miss_num,
  x_return_status        out          varchar2,
```

```

x_msg_count          out          number,
x_msg_data           out          varchar2,
p_attribute1         in          varchar2 default    jtf_task_utl.g_miss_char,
p_attribute2         in          varchar2 default    jtf_task_utl.g_miss_char,
p_attribute3         in          varchar2 default    jtf_task_utl.g_miss_char,
p_attribute4         in          varchar2 default    jtf_task_utl.g_miss_char,
p_attribute5         in          varchar2 default    jtf_task_utl.g_miss_char,
p_attribute6         in          varchar2 default    jtf_task_utl.g_miss_char,
p_attribute7         in          varchar2 default    jtf_task_utl.g_miss_char,
p_attribute8         in          varchar2 default    jtf_task_utl.g_miss_char,
p_attribute9         in          varchar2 default    jtf_task_utl.g_miss_char,
p_attribute10        in          varchar2 default    jtf_task_utl.g_miss_char,
p_attribute11        in          varchar2 default    jtf_task_utl.g_miss_char,
p_attribute12        in          varchar2 default    jtf_task_utl.g_miss_char,
p_attribute13        in          varchar2 default    jtf_task_utl.g_miss_char,
p_attribute14        in          varchar2 default    jtf_task_utl.g_miss_char,
p_attribute15        in          varchar2 default    jtf_task_utl.g_miss_char,
p_attribute_category in          varchar2 default    jtf_task_utl.g_miss_char
p_show_on_calendar  in          varchar2 default    jtf_task_utl.g_miss_char,
p_category_id       in          number default      jtf_task_utl.g_miss_number,
p_enable_workflow   in          varchar2,
p_abort_workflow    in          varchar2
);
    
```

Current Version

1.0

Parameter Descriptions

The following table describes the IN parameters associated with this API.

Table 3–12 Update_Task_Assignment IN Parameters

Parameter	Data Type	Required	Descriptions and Validations
p_api_version	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_init_msg_list	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_commit	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_object_version_number	NUMBER	Yes	This parameter is for internal use only. Do not modify in any way.

Table 3–12 Update_Task_Assignment IN Parameters

Parameter	Data Type	Required	Descriptions and Validations
p_task_assignment_id	NUMBER	No	This is the unique task assignment identifier.
p_task_id	NUMBER	No	This is the unique task identifier (Primary Key).
p_task_number	VARCHAR2	No	This defines the task number.
p_task_name	VARCHAR2	No	This defines the task name.
p_resource_type_code	VARCHAR2	No	This is the resource type identifier.
p_resource_id	NUMBER	No	This is the resource identifier.
p_resource_name	VARCHAR2	No	This defines the resource name. Not supported.
p_actual_effort	NUMBER	No	The actual amount of effort spent on a task by all assignees.
p_actual_effort_uom	VARCHAR2	No	The unit of measure for actual work. See Note: 5 on page 3-3.
p_schedule_flag	VARCHAR2	No	Indicates whether the resource should be scheduled by the Scheduler.
p_alarm_type_code	VARCHAR2	No	A lookup code that indicates how alarms should be sent to the resource. For example, e-mail, pager, phone.
p_alarm_contact	VARCHAR2	No	Contact information for sending alarms. This field may store an e-mail address, pager number, or phone number.
p_sched_travel_distance	NUMBER	No	This defines the scheduled travel distance.
p_sched_travel_duration	NUMBER	No	This defines the scheduled travel duration.
p_sched_travel_duration_uom	VARCHAR2	No	This defines the unit of measure for scheduled travel duration.
p_actual_travel_distance	NUMBER	No	This defines the actual travel duration.
p_actual_travel_duration	NUMBER	No	This defines the actual travel duration.

Table 3–12 Update_Task_Assignment IN Parameters

Parameter	Data Type	Required	Descriptions and Validations
p_actual_travel_duration_uom	VARCHAR2	No	This defines the unit of measure for actual travel duration.
p_actual_start_date	DATE	No	This defines the actual start date.
p_actual_end_date	DATE	No	This defines the actual end date.
p_palm_flag	VARCHAR2	No	Used by mobile devices.
p_wince_flag	VARCHAR2	No	Used by mobile devices.
p_laptop_flag	VARCHAR2	No	Used by mobile devices.
p_device1_flag	VARCHAR2	No	Used by mobile devices.
p_device2_flag	VARCHAR2	No	Used by mobile devices.
p_device3_flag	VARCHAR2	No	Used by mobile devices.
p_resource_territory_id	NUMBER	No	Currently not supported.
p_assignment_status_id	NUMBER	No	The status identifier of the assignee.
p_shift_construct_id	NUMBER	No	The shift construct identifier for the assignment.
p_attribute1	VARCHAR2	No	Descriptive flexfield segment column.
p_attribute2	VARCHAR2	No	Descriptive flexfield segment column.
p_attribute3	VARCHAR2	No	Descriptive flexfield segment column.
p_attribute4	VARCHAR2	No	Descriptive flexfield segment column.
p_attribute5	VARCHAR2	No	Descriptive flexfield segment column.
p_attribute6	VARCHAR2	No	Descriptive flexfield segment column.
p_attribute7	VARCHAR2	No	Descriptive flexfield segment column.
p_attribute8	VARCHAR2	No	Descriptive flexfield segment column.
p_attribute9	VARCHAR2	No	Descriptive flexfield segment column.
p_attribute10	VARCHAR2	No	Descriptive flexfield segment column.
p_attribute11	VARCHAR2	No	Descriptive flexfield segment column.

Table 3–12 Update_Task_Assignment IN Parameters

Parameter	Data Type	Required	Descriptions and Validations
p_attribute12	VARCHAR2	No	Descriptive flexfield segment column.
p_attribute13	VARCHAR2	No	Descriptive flexfield segment column.
p_attribute14	VARCHAR2	No	Descriptive flexfield segment column.
p_attribute15	VARCHAR2	No	Descriptive flexfield segment column.
p_attribute_category	VARCHAR2	No	Descriptive flexfield structure defining column.
p_show_on_calendar	VARCHAR2	No	Displays Tasks on the HTML Calendar. Checks if the Value is Y or N.
p_category_id	NUMBER	No	This defines the task category ID.
p_enable_workflow	VARCHAR2	No	Determines whether or not to send automatic notifications from the application. Checks if the value is Y or N.
p_abort_workflow	VARCHAR2	No	Determines whether or not to abort the previous Workflow process before starting the next one. Checks if the value is Y or N.

The following table describes the OUT parameters associated with this API.

Table 3–13 Update_Task_Assignment OUT Parameters

Parameter	Data Type	Descriptions and Validations
x_return_status	VARCHAR2	See "Standard OUT Parameters" on page 1-4.
x_msg_count	NUMBER	See "Standard OUT Parameters" on page 1-4.
x_msg_data	VARCHAR2	See "Standard OUT Parameters" on page 1-4.

3.3.4 Delete_Task_Assignment

This procedure deletes a task assignment for a given task. The task assignment must be specified.

Procedure Specification

```
PROCEDURE delete_task_assignment
(
```

```

p_api_version          in      number,
p_object_version_number in      number,
p_init_msg_list        in      varchar2 default fnd_api.g_false,
p_commit              in      varchar2 default fnd_api.g_false,
p_task_assignment_id   in      number,
x_return_status        out     varchar2,
x_msg_count            out     number,
x_msg_data             out     varchar2,
p_enable_workflow      in      varchar2,
p_abort_workflow       in      varchar2
);

```

Current Version

1.0

Parameter Descriptions

The following table describes the IN parameters associated with this API.

Table 3–14 Delete_Task_Assignment IN Parameters

Parameter	Data Type	Required	Descriptions and Validations
p_api_version	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_object_version_number	NUMBER	Yes	This parameter is for internal use only. Do not modify in any way.
p_init_msg_list	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_commit	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_task_assignment_id	NUMBER	No	This is the unique task assignment identifier.
p_enable_workflow	VARCHAR2	No	Determines whether or not to send automatic notifications from the application. Checks if the value is Y or N.
p_abort_workflow	VARCHAR2	No	Determines whether or not to abort the previous Workflow process before starting the next one. Checks if the value is Y or N.

The following table describes the OUT parameters associated with this API.

Table 3–15 Delete_Task_Assignment OUT Parameters

Parameter	Data Type	Descriptions
x_return_status	VARCHAR2	See "Standard OUT Parameters" on page 1-4.
x_msg_count	NUMBER	See "Standard OUT Parameters" on page 1-4.
x_msg_data	VARCHAR2	See "Standard OUT Parameters" on page 1-4.

3.4 Package JTF_TASK_REFERENCES_PUB

The JTF_Task_References_Pub package contains the following APIs:

- [Create_References](#)
- [Update_References](#)
- [Delete_References](#)

3.4.1 Data Structure Specifications

The following data structure is used in the JTF_TASK_REFERENCES_PUB API.

3.4.1.1 References Record Type

The REFERENCES_REC creates the reference for a given task.

```

TYPE references_rec IS RECORD
(
  task_reference_id          number,
  task_id                   number,
  object_type_code          varchar2(30),
  object_name               varchar2(80),
  object_id                 number,
  object_details            varchar2(2000),
  reference_code            varchar2(30),
  attribute1                varchar2(150),
  attribute2                varchar2(150),
  attribute3                varchar2(150),
  attribute4                varchar2(150),
  attribute5                varchar2(150),
  attribute6                varchar2(150),
  attribute7                varchar2(150),
  attribute8                varchar2(150),

```

```

attribute9                varchar2(150),
attribute10               varchar2(150),
attribute11               varchar2(150),
attribute12               varchar2(150),
attribute13               varchar2(150),
attribute14               varchar2(150),
attribute15               varchar2(150),
attribute_category        varchar2(30),
usage                     varchar2(2000),
object_version_number     number
);

```

3.4.2 Create References

This API establishes references to a task. For example, a task created for a service request can establish reference to an inventory part number using references. The following information applies to this API:

- Every task is associated with a source. It can also be associated with multiple references.
- *Task_id* or *task_number* must be passed.
- If the API executes successfully, then the output parameter is *task_reference_id*.

Procedure Specification

```

PROCEDURE create_references
(
  p_api_version           in          number,
  p_init_msg_list        in          varchar2 default fnd_api.g_false,
  p_commit               in          varchar2 default fnd_api.g_false,
  p_task_id              in          number          default null,
  p_task_number          in          varchar2        default null,
  p_object_type_code     in          varchar2        default null,
  p_object_name          in          varchar2,
  p_object_id            in          number,
  p_object_details       in          varchar2        default null,
  p_reference_code       in          varchar2        default null,
  p_usage                in          varchar2        default null,
  x_return_status        out         varchar2,
  x_msg_data             out         varchar2,
  x_msg_count            out         number,
  x_task_reference_id    out         number,
  p_attribute1           in          varchar2        default null,
  p_attribute2           in          varchar2        default null,

```

```

p_attribute3      in      varchar2      default null,
p_attribute4      in      varchar2      default null,
p_attribute5      in      varchar2      default null,
p_attribute6      in      varchar2      default null,
p_attribute7      in      varchar2      default null,
p_attribute8      in      varchar2      default null,
p_attribute9      in      varchar2      default null,
p_attribute10     in      varchar2      default null,
p_attribute11     in      varchar2      default null,
p_attribute12     in      varchar2      default null,
p_attribute13     in      varchar2      default null,
p_attribute14     in      varchar2      default null,
p_attribute15     in      varchar2      default null,
p_attribute_category in    varchar2      default null
);

```

Current Version

1.0

Parameter Descriptions

The following table describes the IN parameters associated with this API.

Table 3–16 Create References IN Parameters

Parameter	Data Type	Required	Descriptions and Validations
p_api_version	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_init_msg_list	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_commit	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_task_id	NUMBER	Yes	This is the unique task identifier (Primary Key).
p_task_number	VARCHAR2	No	This defines the task number.
p_object_type_code	VARCHAR2	No	Reference object type code (Foreign Key to JTF_OBJECTS_VL for objects with a usage of "Task".)

Table 3–16 Create_References IN Parameters

Parameter	Data Type	Required	Descriptions and Validations
p_object_name	VARCHAR2	No	This is the name of reference object. Validated from the table registered in JTF_OBJECTS_VL for the <i>object_type_code</i> .
p_object_id	NUMBER	No	This defines the internal identifier of reference object. Validated from the table registered in <i>jtf_objects_vl</i> for the <i>object_type_code</i> .
p_object_details	VARCHAR2	No	Additional information of the reference object.
p_reference_code	VARCHAR2	No	Lookup code indicating the context of the reference. Not supported and not used in the context of the Tasks module.
p_usage	VARCHAR2	No	User comment on the usage of the reference.
p_attribute1	VARCHAR2	No	Descriptive flexfield segment column.
p_attribute2	VARCHAR2	No	Descriptive flexfield segment column.
p_attribute3	VARCHAR2	No	Descriptive flexfield segment column.
p_attribute4	VARCHAR2	No	Descriptive flexfield segment column.
p_attribute5	VARCHAR2	No	Descriptive flexfield segment column.
p_attribute6	VARCHAR2	No	Descriptive flexfield segment column.
p_attribute7	VARCHAR2	No	Descriptive flexfield segment column.
p_attribute8	VARCHAR2	No	Descriptive flexfield segment column.
p_attribute9	VARCHAR2	No	Descriptive flexfield segment column.
p_attribute10	VARCHAR2	No	Descriptive flexfield segment column.
p_attribute11	VARCHAR2	No	Descriptive flexfield segment column.
p_attribute12	VARCHAR2	No	Descriptive flexfield segment column.
p_attribute13	VARCHAR2	No	Descriptive flexfield segment column.
p_attribute14	VARCHAR2	No	Descriptive flexfield segment column.
p_attribute15	VARCHAR2	No	Descriptive flexfield segment column.

Table 3–16 Create_References IN Parameters

Parameter	Data Type	Required	Descriptions and Validations
p_attribute_category	VARCHAR2	No	Descriptive flexfield structure defining column.

The following table describes the OUT parameters associated with this API.

Table 3–17 Create_References OUT Parameters

Parameter	Data Type	Descriptions
x_return_status	VARCHAR2	See "Standard OUT Parameters" on page 1-4.
x_msg_data	VARCHAR2	See "Standard OUT Parameters" on page 1-4.
x_msg_count	NUMBER	See "Standard OUT Parameters" on page 1-4.
x_task_reference_id	NUMBER	This is the unique task reference identifier.

3.4.3 Update_References

This API is used to update references to a task.

Note: *Task_reference_id* must be an input parameter.

Procedure Specification

PROCEDURE update_references

```
(
  p_api_version          in          number,
  p_init_msg_list       in          varchar2 default fnd_api.g_false,
  p_commit              in          varchar2 default fnd_api.g_false,
  p_object_version_number in out    number,
  p_task_reference_id   in          number,
  p_object_type_code    in          varchar2 default fnd_api.g_miss_char,
  p_object_name         in          varchar2 default fnd_api.g_miss_char,
  p_object_id           in          number default fnd_api.g_miss_num,
  p_object_details      in          varchar2 default fnd_api.g_miss_char,
  p_reference_code      in          varchar2 default fnd_api.g_miss_char,
  p_usage               in          varchar2 default fnd_api.g_miss_char,
  x_return_status       out         varchar2,
  x_msg_data            out         varchar2,
  x_msg_count           out         number,
```

```

p_attribute1          in          varchar2 default      jtf_task_utl.g_miss_char,
p_attribute2          in          varchar2 default      jtf_task_utl.g_miss_char,
p_attribute3          in          varchar2 default      jtf_task_utl.g_miss_char,
p_attribute4          in          varchar2 default      jtf_task_utl.g_miss_char,
p_attribute5          in          varchar2 default      jtf_task_utl.g_miss_char,
p_attribute6          in          varchar2 default      jtf_task_utl.g_miss_char,
p_attribute7          in          varchar2 default      jtf_task_utl.g_miss_char,
p_attribute8          in          varchar2 default      jtf_task_utl.g_miss_char,
p_attribute9          in          varchar2 default      jtf_task_utl.g_miss_char,
p_attribute10         in          varchar2 default      jtf_task_utl.g_miss_char,
p_attribute11         in          varchar2 default      jtf_task_utl.g_miss_char,
p_attribute12         in          varchar2 default      jtf_task_utl.g_miss_char,
p_attribute13         in          varchar2 default      jtf_task_utl.g_miss_char,
p_attribute14         in          varchar2 default      jtf_task_utl.g_miss_char,
p_attribute15         in          varchar2 default      jtf_task_utl.g_miss_char,
p_attribute_category  in          varchar2 default      jtf_task_utl.g_miss_char
);

```

Current Version

1.0

Parameter Descriptions

The following table describes the IN parameters associated with this API.

Table 3–18 Update_References IN Parameters

Parameter	Data Type	Required	Descriptions and Validations
p_api_version	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_init_msg_list	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_commit	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_object_version_number	NUMBER	Yes	This parameter is for internal use only. Do not modify in any way.
p_task_reference_id	NUMBER	Yes	Unique task reference identifier.
p_object_type_code	VARCHAR2	No	Reference object type code (Foreign Key to JTF_TASK_OBJECT_TYPES).

Table 3–18 Update_References IN Parameters

Parameter	Data Type	Required	Descriptions and Validations
p_object_name	VARCHAR2	No	This defines the name of the reference object.
p_object_id	NUMBER	No	This is the internal identifier of reference object.
p_object_details	VARCHAR2	No	This provides additional information for the reference object.
p_reference_code	VARCHAR2	No	Lookup code indicating the context of the reference.
p_usage	VARCHAR2	No	User comment on the usage of the reference.
p_attribute1	VARCHAR2	No	Descriptive flexfield segment column.
p_attribute2	VARCHAR2	No	Descriptive flexfield segment column.
p_attribute3	VARCHAR2	No	Descriptive flexfield segment column.
p_attribute4	VARCHAR2	No	Descriptive flexfield segment column.
p_attribute5	VARCHAR2	No	Descriptive flexfield segment column.
p_attribute6	VARCHAR2	No	Descriptive flexfield segment column.
p_attribute7	VARCHAR2	No	Descriptive flexfield segment column.
p_attribute8	VARCHAR2	No	Descriptive flexfield segment column.
p_attribute9	VARCHAR2	No	Descriptive flexfield segment column.
p_attribute10	VARCHAR2	No	Descriptive flexfield segment column.
p_attribute11	VARCHAR2	No	Descriptive flexfield segment column.
p_attribute12	VARCHAR2	No	Descriptive flexfield segment column.
p_attribute13	VARCHAR2	No	Descriptive flexfield segment column.
p_attribute14	VARCHAR2	No	Descriptive flexfield segment column.
p_attribute15	VARCHAR2	No	Descriptive flexfield segment column.
p_attribute_category	VARCHAR2	No	Descriptive flexfield structure defining column.

The following table describes the OUT parameters associated with this API.

Table 3–19 Update_References OUT Parameters

Parameter	Data Type	Descriptions
x_return_status	VARCHAR2	See "Standard OUT Parameters" on page 1-4.
x_msg_count	NUMBER	See "Standard OUT Parameters" on page 1-4.
x_msg_data	VARCHAR2	See "Standard OUT Parameters" on page 1-4.

3.4.4 Delete_References

This API is used to delete references to a task.

Note: *Task_reference_id* must be an input parameter.

Procedure Specification

PROCEDURE delete_references

```
(
  p_api_version          in          number,
  p_init_msg_list        in          varchar2 default fnd_api.g_false,
  p_commit                in          varchar2 default fnd_api.g_false,
  p_object_version_number in          number,
  p_task_reference_id     in          number          default null,
  x_return_status         out         varchar2,
  x_msg_data              out         varchar2,
  x_msg_count             out         number
);
```

Current Version

1.0

Parameter Descriptions

The following table describes the IN parameters associated with this API.

Table 3–20 Delete_References IN Parameters

Parameter	Data Type	Required	Descriptions and Validations
p_api_version	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_init_msg_list	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.

Table 3–20 Delete_References IN Parameters

Parameter	Data Type	Required	Descriptions and Validations
p_commit	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_object_version_number	NUMBER	Yes	This parameter is for internal use only. Do not modify in any way.
p_task_reference_id	NUMBER	Yes	Unique task reference identifier.

The following table describes the OUT parameters associated with this API.

Table 3–21 Delete_References OUT Parameters

Parameter	Data Type	Descriptions
x_return_status	VARCHAR2	See "Standard OUT Parameters" on page 1-4.
x_msg_count	NUMBER	See "Standard OUT Parameters" on page 1-4.
x_msg_data	VARCHAR2	See "Standard OUT Parameters" on page 1-4.

3.5 Messages and Notifications

The APIs contained in the Task Manager public packages generate messages and notifications as needed. Some of these messages are common to all of the Task Manager APIs and others are generated by APIs in specific Task Manager packages. Both types of messages are detailed in the following sections.

- [Common Messages](#)
- [JTF_TASK_ASSIGNMENTS_PUB](#)
- [JTF_TASK_REFERENCES_PUB](#)
- [JTF_TASKS_PUB](#)

Note: It is not required that all status notifications provide a number identifier along with the message, although, in many cases, it is provided.

3.5.1 Common Messages

The following table lists the messages and notifications generated by many of the APIs contained in Task Manager public packages.

Table 3–22 Common Task API Messages

Number	Type	Name	Text
N/A	E	JTF_TASK_DISTANCE_UNITS	Quantity for p_distance_tag is invalid.
N/A	E	JTF_TASK_INVALID_CONTACT	Contacts details are invalid.
N/A	E	JTF_TASK_INVALID_DEFAULT_OWNER	Default owner for the task is not setup correctly.
N/A	E	JTF_TASK_INVALID_PHONE_ID	Phone details are invalid. (Contact point identifier = p_phone_id).
N/A	E	JTF_TASK_MISSING_CONTACT	Contact details are missing.
N/A	E	JTF_TASK_MISSING_PHONE	Phone details are missing.
N/A	E	JTF_TASK_MISSING_USER_MAPPING	User is not mapped to a resource.
210000	E	JTF_TASK_MISSING_UOM	Unit of measure for p_tag should be specified.
210001	E	JTF_TASK_INVALID_PRIORITY_ID	Task Priority p_task_priority_id is either disabled or invalid.
210002	E	JTF_TASK_INVALID_PRIORITY_NAME	Task Priority p_task_priority_name is either disabled or invalid.
210003	E	JTF_TASK_INVALID_TYPE_ID	Task Type p_task_type_id is either disabled or invalid.
210004	E	JTF_TASK_INVALID_UOM	Unit of Measure p_uom_code is either disabled or invalid.
210005	E	JTF_TASK_INVALID_DEPENDS_CODE	Currency Code p_dependency_code is either disabled or invalid.
210006	E	JTF_TASK_INVALID_TEMP_NUMBER	Task Template p_task_template_number is invalid.
210008	E	JTF_TASK_INVALID_TEMP_ID	Task Template p_task_template_id is invalid.
210012	E	JTF_TASK_INVALID_CUST_ACCT_ID	Customer Account p_cust_account_id is invalid or disabled.
210013	E	JTF_TASK_INVALID_PARTY_ID	Customer p_party_id is invalid or disabled.
210014	E	JTF_TASK_INVALID_PARTY_NUMBER	Customer party_number is invalid or disabled.

Table 3–22 Common Task API Messages

Number	Type	Name	Text
210015	E	JTF_TASK_INVALID_SITE_ID	Address p_party_site_id is invalid or disabled.
210016	E	JTF_TASK_INVALID_SITE_NUMBER	Address p_party_site_number is invalid or disabled.
210018	E	JTF_TASK_INVALID_FLAG	P_flag_name must be Yes or No.
210020	E	JTF_TASK_INVALID_DEPENDS_ID	Dependency p_dependency_id does not exist.
210021	E	JTF_TASK_INVALID_ASSIGNED_NAME	User p_assigned_by_name is invalid or disabled.
210022	E	JTF_TASK_INVALID_CURRENCY_CODE	Currency p_currency_code is invalid or disabled.
210023	E	JTF_TASK_MISSING_CURRENCY_CODE	P_cost, currency code should be present. Cause: both cost currency code should be present.
210024	E	JTF_TASK_MISSING_COST	For p_currency_code, cost should be present. Cause: both cost currency code should be present.
210026	E	JTF_TASK_INVALID_TIMEZONE_NAME	Timezone for p_timezone_name is either disabled or invalid.
210027	E	JTF_TASK_INVALID_TIMEZONE_ID	Timezone for p_timezone_id is either disabled or invalid.
210029	U	JTF_TASK_UNKNOWN_ERROR	Error text.
210031	E	JTF_TASK_INVALID_OBJECT_NAME	P_object_type_code p_object_name is either disabled or invalid.
210032	E	JTF_TASK_INVALID_OBJECT_CODE	P_object_code is either disabled or invalid.
210034	E	JTF_TASK_INVALID_QUANTITY	Value for p_tag should be greater than 0.
210035	E	JTF_TASK_MISSING_QUANTITY	Quantity for p_tag should be specified.
210037	E	JTF_TASK_INVALID_STATUS_NAME	Task status p_task_status_name is either disabled or invalid.
210039	E	JTF_TASK_INVALID_TYPE_NAME	Task type p_task_type_name is either disabled or invalid.
210041	E	JTF_TASK_INVALID_STATUS_ID	Status p_task_status_id is either disabled or invalid.
210046	E	JTF_TASK_INVALID_DATES	P_date_tag start date cannot be greater than p_date_tag end date.

Table 3–22 Common Task API Messages

Number	Type	Name	Text
210047	E	JTF_TASK_INVALID_SOURCE_DTLS	Invalid source object details provided.
210048	E	JTF_TASK_INVALID_TEMP_GRP_NAME	Task template group p_task_temp_group_name is either disabled or invalid.
210049	E	JTF_TASK_INVALID_TEMP_GRP_ID	Task template group p_task_template_group_id is either disabled or invalid.
210051	E	JTF_TASK_INVALID_TASK_ID	Task p_task_id is invalid.
210052	E	JTF_TASK_INVALID_TASK_NUMBER	Task number p_task_number is invalid.
210055	E	JTF_TASK_MISSING_TASK	Task is missing.
210056	E	JTF_TASK_INVALID_DATE_TYPE_ID	Date type p_date_type_id is invalid.
210065	E	JTF_TASK_INVALID_TERR_ID	Territory p_terr_id is disabled or invalid.
210066	E	JTF_TASK_INVALID_TERR_NAME	Territory is disabled or invalid.
210067	E	JTF_TASK_INVALID_ESC_DTLS	Invalid escalation details.
210068	E	JTF_TASK_INVALID_OWNER_ID	Owner p_owner_id is invalid.
210069	E	JTF_TASK_PARENT_TYPE_CODE	Parent task should have the same source document types as the given task.
210069	E	JTF_TASK_PARENT_TYPE_CODE	Parent task should have the same source document types as the given task.
210070	E	JTF_TASK_PARENT	Parent task does not have the same source object details as the given task.
210118	E	JTF_TASK_MISSING_RETURN_STATUS	Return status from internal API hook is missing.
210120	E	JTF_TASK_MISSING_LOOKUP	Lookup code (p_lookup_code) is not defined for lookup type p_lookup_type.

3.5.2 JTF_TASK_ASSIGNMENTS_PUB

The following table lists the messages and notifications generated by the APIs contained in the JTF_TASK_ASSIGNMENTS_PUB package.

Table 3–23 JTF_TASK_ASSIGNMENTS_PUB API Messages

Number	Type	Name	Text
210029	U	JTF_TASK_UNKNOWN_ERROR	Error text.
210055	E	JTF_TASK_MISSING_TASK	Task is missing.
210082	E	JTF_TASK_INV_RES_TYP_COD	Resource type code is invalid or disabled. This feature is currently not enabled in the API. This error should never occur.
210080	E	JTF_TASK_NULL_RES_ID	Resource identifier is missing.
		JTF_TASK_MISSING_TASK_STATUS	Task status is missing or invalid.
210085	E	JTF_TASK_INV_ALA_TYPE	Alarm type code is invalid or disabled.
210086	E	JTF_TASK_INV_ALA_CON	Alarm contact is invalid or disabled. This feature is currently not enabled in the API. This error should never occur.
210117	E	JTF_TASK_RESOURCE_LOCKED	Resource is locked or deleted.
210113	E	JTF_TASK_NULL_TK_ASS	Task assignment is missing.
210114	E	JTF_TASK_INV_TK_ASS	Task assignment identifier is invalid or missing.
210115	E	JTF_TASK_DELETING_TK_ASS	Error deleting task assignment.

3.5.3 JTF_TASK_REFERENCES_PUB

The following table lists the messages and notifications generated by the APIs contained in the JTF_TASK_REFERENCES_PUB package.

Table 3–24 JTF_TASK_REFERENCES_PUB API Messages

Number	Type	Name	Text
210025	E	JTF_TASK_MISSING_OBJECT_NAME	Object name is missing.
210028	E	JTF_TASK_MISSING_OBJECT_CODE	Source object type code is missing.
210029	U	JTF_TASK_UNKNOWN_ERROR	Error text.

Table 3–24 JTF_TASK_REFERENCES_PUB API Messages

Number	Type	Name	Text
210031	E	JTF_TASK_INVALID_OBJECT_NAME	Object code object name is either disabled or invalid.
210032	E	JTF_TASK_INVALID_OBJECT_CODE	Object code is either disabled or invalid.
210038	E	JTF_TASK_INVALID_REFERER	Task reference identifier is invalid.
210042	E	JTF_TASK_MISSING_REFERER	Task reference is missing.
210044	E	JTF_TASK_INVALID_OBJECT_ID	Object identifier is invalid.
210050	E	JTF_TASK_INVALID_REFERER_CODE	Reference code is either disabled or invalid.
210053	E	JTF_TASK_INVALID_REFERER_DETAILS	Invalid reference details.
210055	E	JTF_TASK_MISSING_TASK	Task is missing.
210117	E	JTF_TASK_RESOURCE_LOCKED	Resource is locked or deleted.

3.5.4 JTF_TASKS_PUB

The following table lists the messages and notifications generated by the APIs contained in the JTF_TASKS_PUB package.

Table 3–25 JTF_TASK_API Messages

Number	Type	Name	Text
21002	E	JTF_TASK_INVALID_PRIORITY_NAME	Task priority is either disabled or invalid.
210007	E	JTF_TASK_MISSING_TEMP_GRP	Task template group is missing.
210011	E	JTF_TASK_INVALID_CUST_ACCT_NUM	Customer account number is disabled or invalid.
210021	E	JTF_TASK_INVALID_ASSIGNED_NAME	User assigned by name is invalid or disabled.
210029	U	JTF_TASK_UNKNOWN_ERROR	Returns the unhandled error text.
210036	E	JTF_TASK_MISSING_STATUS	Task status is missing.
210040	E	JTF_TASK_MISSING_TYPE	Task type is missing.
	E	JTF_TASK_INVALID_CUST_ACCT_NUM	The customer account number is not valid.

Table 3–25 JTF_TASK_API Messages

Number	Type	Name	Text
210046	E	JTF_TASK_INVALID_DATES	<i>Date start date cannot be greater than date end date.</i>
210051	E	JTF_TASK_INVALID_TASK_ID	Task identifier is invalid.
210052	E	JTF_TASK_INVALID_TASK_NUMBER	Task number is invalid.
210055	E	JTF_TASK_MISSING_TASK	Task is missing.
210060	E	JTF_TASK_CONVERTING_NUMBER	Error converting template number to task number.
210098	E	JTF_TK_INV_QRY_NXT	Invalid value query or next code can be Q or N.
210099	E	JTF_TK_INV_SHOW_ALL	Invalid value show all can be Y or N.
210100	E	JTF_TK_NULL_STRT_PTR	Start record number cannot be NULL.
210101	E	JTF_TK_NULL_REC_WANT	Number of records wanted cannot be NULL.
210103	E	JTF_TASK_INV_TK_NAME	Invalid task name.
210104	E	JTF_TK_OBJECT_TYPE_ID_RQD	Both object identifier and object type code are required if one is present.
210105	E	JTF_TK_QRY_NXT_INV_QRY_TYP	Invalid query type.
210106	E	JTF_TK_QRY_NXT_INV_DT_TYPE	Invalid date type.
210107	E	JTF_TK_QRY_NXT_NUL_ASGND_BY	Assigned by identifier is NULL.
210108	E	JTF_TK_QRY_NXT_NUL_	Owner identifier or type is NULL.
210109	E	JTF_TK_EXP_FILE_NAME_NULL	Output file name cannot be NULL.
210110	E	JTF_TK_EXP_TABLE_EMPTY	Task table input table is NULL.
210111	E	JTF_TK_QRY_NXT_INV_STRT_END_DT	Invalid value for start or end date query parameter.
210112	E	JTF_TK_NO_DATE	Created date field for current task identifier is NULL.
210117	E	JTF_TASK_RESOURCE_LOCKED	Resource is locked or deleted.

3.6 Sample Code

This section contains SQL scripts that call the Task Manager public APIs stored in the following packages and insert values as required:

- JTF_TASKS_PUB
- JTF_TASK_ASSIGNMENTS_PUB
- JTF_TASK_REFERENCES_PUB

3.6.1 Package JTF_TASKS_PUB

The SQL scripts in this section create a task by calling the Create_Task API contained in the JTF_TASKS_PUB package and by providing them with the required values.

Create_Task

This script calls the Create_Task API and creates tasks with the following information.

Table 3–26 Create_Task API Sample Code Variables

Variable	Description
p_user_name	Login user name is entered by a user.
p_task_name	Task name is entered by a user.
p_task_type	The type of task is entered by a user, such as "Meeting", or "Lunch".
p_task_priority	Task priority is entered by a user, such as "High", "Medium", or "Low".
p_task_status	Task status is entered by a user, such as "Open".
p_show_on_cal	A flag used to determine if the task will be shown in the calendar view.
p_start_date	The planned start date is entered by a user.
p_end_date	The planned end date is entered by a user.

```
set serveroutput on
```

```
accept p_user_name          prompt 'Enter user name : '
accept p_task_name          prompt 'Enter task name : '
accept p_task_type          prompt 'Enter task type name (Default=Meeting): '
accept p_priority           prompt 'Enter priority name (Default=Medium) : '
accept p_task_status        prompt 'Enter task status name (Default=Open) : '
accept p_show_on_cal        prompt 'Enter Y if you want to show this task on calendar view
(Default=N) : '
```

Sample Code

```
accept p_start_date          prompt 'Enter task start date (Format=MMDDYYYY HH24MI) : '
accept p_end_date            prompt 'Enter task end date   (Format=MMDDYYYY HH24MI) : '

declare
  l_user_name                fnd_user.user_name%TYPE := upper('&p_user_name');
  l_task_name                 jtf_tasks_tl.task_name%TYPE := '&p_task_name';
  l_task_type                 jtf_task_types_tl.name%TYPE := NVL('&p_task_type_name', 'Meeting');
  l_task_priority             jtf_task_priorities_tl.name%TYPE := NVL('&p_priority', 'Medium');
  l_task_status               jtf_task_statuses_tl.name%TYPE := NVL('&p_task_status', 'Open');
  l_show_on_cal               jtf_task_all_assignments.show_on_calendar%TYPE := NVL(upper('&p_show_on_
cal'), 'N');
  l_planned_start_date       DATE := NVL(TO_DATE('&p_start_date', 'MMDDYYYY HH24MI'), SYSDATE);
  l_planned_end_date         DATE := NVL(TO_DATE('&p_end_date', 'MMDDYYYY HH24MI'), SYSDATE);

  cursor c_login_user (b_user_name VARCHAR2) is
  select user_id
     from fnd_user
    where user_name = b_user_name;

  cursor c_owner (b_user_id NUMBER) is
  select resource_id
     from jtf_rs_emp_dtls_vl r
    where r.user_id = b_user_id;

  cursor c_task_type (b_name VARCHAR2) is
  select task_type_id
     from jtf_task_types_tl
    where name = b_name;

  cursor c_task_status (b_status VARCHAR2) is
  select task_status_id
     from jtf_task_statuses_vl
    where name = b_status
       and task_status_flag = 'Y';

  cursor c_task_priority (b_priority VARCHAR2) is
  select task_priority_id
     from jtf_task_priorities_tl
    where name = b_priority;

  l_user_id                NUMBER;
  l_resource_id            NUMBER;
  l_task_type_id           NUMBER;
  l_task_status_id         NUMBER;
  l_task_priority_id       NUMBER;
```

```
l_task_id          NUMBER;

l_return_status   VARCHAR2(1);
l_msg_count       NUMBER;
l_msg_data        VARCHAR2(1000);

begin
  dbms_output.put_line('-----');
  open c_login_user(l_user_name);
  fetch c_login_user into l_user_id;
  if c_login_user%NOTFOUND then
    close c_login_user;
    raise_application_error(-20000,'User name '||l_user_name||' is not found.');
```

end if;

```
close c_login_user;
dbms_output.put_line('User Id : '||l_user_id);

open c_owner (l_user_id);
fetch c_owner into l_resource_id;
if c_owner%NOTFOUND then
  close c_owner;
  raise_application_error(-20000,'Resource for the user name '||l_user_name||' is not
found.');
```

end if;

```
close c_owner;
dbms_output.put_line('Owner Resource Id : '||l_resource_id);

open c_task_type (l_task_type);
fetch c_task_type into l_task_type_id;
if c_task_type%NOTFOUND then
  close c_task_type;
  raise_application_error(-20000,'Task type '||l_task_type||' is not found.');
```

end if;

```
close c_task_type;

open c_task_status(l_task_status);
fetch c_task_status into l_task_status_id;
if c_task_status%NOTFOUND then
  close c_task_status;
  raise_application_error(-20000,'Task status '||l_task_status||' is not found.');
```

end if;

```
close c_task_status;

open c_task_priority(l_task_priority);
```

```
fetch c_task_priority into l_task_priority_id;
if c_task_priority%NOTFOUND then
    close c_task_priority;
    raise_application_error(-20000,'Task status '||l_task_priority||' is not found. ');
end if;
close c_task_priority;

fnd_global.apps_initialize(l_user_id, 0, 690);

jtf_tasks_pub.create_task(
    p_api_version          => 1.0 ,
    p_init_msg_list        => fnd_api.g_true,
    p_commit                => fnd_api.g_false,
    p_task_name            => l_task_name,
    p_task_type_id         => l_task_status_id,
    p_task_status_id      => l_task_type_id,
    p_task_priority_id    => l_task_priority_id,
    p_owner_type_code     => 'RS_EMPLOYEE',
    p_owner_id            => l_resource_id,
    p_show_on_calendar    => l_show_on_cal,
    p_planned_start_date  => l_planned_start_date,
    p_planned_end_date    => l_planned_end_date,
    p_date_selected       => 'P',
    x_return_status       => l_return_status,
    x_msg_count           => l_msg_count,
    x_msg_data            => l_msg_data,
    x_task_id            => l_task_id
);
IF l_return_status <> fnd_api.g_ret_sts_success THEN
    IF l_msg_count > 0 THEN
        l_msg_data := NULL;
        FOR i IN 1..l_msg_count LOOP
            l_msg_data := l_msg_data || ' ' || fnd_msg_pub.get(1, 'F');
        END LOOP;

        fnd_message.set_encoded(l_msg_data);
        dbms_output.put_line(l_msg_data);
    END IF;
    ROLLBACK;
ELSE
    dbms_output.put_line('Task Id = '||l_task_id);
    dbms_output.put_line('Return Status = '||l_return_status);
    COMMIT;
END IF;
end;
```

/

3.6.2 Package JTF_TASK_ASSIGNMENTS_PUB

The SQL scripts in this section create a task assignment for a specific task by calling the Create_Task_Assignment API contained in the JTF_TASK_ASSIGNMENTS_PUB package and by providing them with the required values.

Create_Task_Assignment

This script calls the Create_Task_Assignment API and adds an assignee with the following information.

Table 3–27 Create_Task_Assignment API Sample Code Variables

Variable	Description
p_user_name	Login user name is entered by a user.
p_task_id	Task ID is entered by a user.
p_emp_resource_id	Resource ID for an employee is entered by a user.
p_show_on_cal	A flag used to determine if the task will be shown in the calendar view.
p_assignment_status	Task assignment status is entered by a user.

```

set serveroutput on

accept p_user_name      prompt 'Enter user name : '
accept p_task_id        prompt 'Enter task id   : '
accept p_emp_resource_id prompt 'Enter resource id for an employee : '
accept p_show_on_cal    prompt 'Do you want to show this task on calendar view ? (Y or N) : '
accept p_assignment_status prompt 'Enter Assignment status name : '

declare
  l_user_name          fnd_user.user_name%TYPE := upper('&p_user_name');
  l_task_id            jtf_tasks_b.task_id%TYPE := '&p_task_id';
  l_emp_resource_id    jtf_rs_emp_dtls_vl.resource_id%TYPE := '&p_emp_resource_id';
  l_show_on_cal        jtf_task_all_assignments.show_on_calendar%TYPE := NVL(upper('&p_show_
on_cal'),'N');
  l_assignment_status  jtf_task_statuses_vl.name%TYPE := NVL('&p_assignment_status',
'Accepted');

```

```

cursor c_login_user (b_user_name VARCHAR2) is
select user_id
  from fnd_user
 where user_name = b_user_name;

cursor c_assignee is
select resource_id
  from jtf_rs_emp_dtls_vl r
 where r.resource_id = l_emp_resource_id;

cursor c_assignment_status (b_status VARCHAR2) is
select task_status_id
  from jtf_task_statuses_vl
 where name = b_status
       and assignment_status_flag = 'Y';

l_user_id          NUMBER;
l_assignee_id      NUMBER;
l_assignment_status_id NUMBER;
l_task_assignment_id NUMBER;

l_return_status    VARCHAR2(1);
l_msg_count        NUMBER;
l_msg_data         VARCHAR2(1000);

begin
  dbms_output.put_line('-----');
  open c_login_user(l_user_name);
  fetch c_login_user into l_user_id;
  if c_login_user%NOTFOUND then
    close c_login_user;
    raise_application_error(-20000,'User name '||l_user_name||' is not found.');
```

```

  end if;
  close c_login_user;
  dbms_output.put_line('User Id : '||l_user_id);

  open c_assignee;
  fetch c_assignee into l_assignee_id;
  if c_assignee%NOTFOUND then
    close c_assignee;
    raise_application_error(-20000,'Employee resource id '||l_emp_resource_id||' is not
found.');
```

```

  end if;
  close c_assignee;

```

```

open c_assignment_status(l_assignment_status);
fetch c_assignment_status into l_assignment_status_id;
if c_assignment_status%NOTFOUND then
    close c_assignment_status;
    raise_application_error(-20000,'Assignment status '||l_assignment_status||' is not
found.');
```

```

end if;
close c_assignment_status;

fnd_global.apps_initialize(l_user_id, 0, 690);

jtf_task_assignments_pub.create_task_assignment(
    p_api_version          => 1.0,
    p_init_msg_list        => fnd_api.g_true,
    p_commit               => fnd_api.g_false,
    p_task_assignment_id   => NULL,
    p_task_id              => l_task_id,
    p_resource_type_code   => 'RS_EMPLOYEE',
    p_resource_id          => l_assignee_id,
    p_assignment_status_id => l_assignment_status_id,
    p_show_on_calendar     => l_show_on_cal,
    x_return_status        => l_return_status,
    x_msg_count            => l_msg_count,
    x_msg_data             => l_msg_data,
    x_task_assignment_id   => l_task_assignment_id
);
IF l_return_status <> fnd_api.g_ret_sts_success THEN
    IF l_msg_count > 0 THEN
        l_msg_data := NULL;
        FOR i IN 1..l_msg_count LOOP
            l_msg_data := l_msg_data || ' '||fnd_msg_pub.get(1, 'F');
        END LOOP;

        fnd_message.set_encoded(l_msg_data);
        dbms_output.put_line(l_msg_data);
    END IF;
    ROLLBACK;
ELSE
    dbms_output.put_line('l_task_assignment_id = '||l_task_assignment_id);
    dbms_output.put_line('Return Status = '||l_return_status);
    COMMIT;
END IF;
end;
/
```

3.6.3 Package JTF_TASK_REFERENCES_PUB

The SQL scripts in this section create references to a specific task by calling the Create_References API contained in the JTF_TASK_REFERENCES_PUB package and by providing them with the required values.

Create_References

This script calls the Create_References API and creates a reference with the following information.

Table 3–28 Create_References API Sample Code Variables

Variable	Description
p_user_name	Login user name is entered by a user.
p_task_id	The ID of the task which the reference is added to is entered by a user.
p_source_object_type	Source object type is entered by a user, such as "Party".
p_source_object_name	Source object name is entered by a user, such as "Business World".
p_source_object_id	Source object ID is entered by a user, such as "1001".

```

set serveroutput on

accept p_user_name      prompt 'Enter user name : '
accept p_task_id        prompt 'Enter task id   : '
accept p_source_object_type prompt 'Enter source object type (e.g. PARTY) : '
accept p_source_object_name prompt 'Enter source object name (Enter party name if object type is PARTY): '
accept p_source_object_id  prompt 'Enter source object id   (Enter party id if object type is PARTY): '

declare
  l_user_name      fnd_user.user_name%TYPE := upper('&p_user_name');
  l_task_id        jtf_tasks_b.task_id%TYPE := '&p_task_id';
  l_source_object_type jtf_tasks_b.source_object_type_code%TYPE := upper('&p_source_object_type');
  l_source_object_name jtf_tasks_b.source_object_name%TYPE := '&p_source_object_name';
  l_source_object_id jtf_tasks_b.source_object_id%TYPE := '&p_source_object_id';

  cursor c_login_user (b_user_name VARCHAR2) is

```

```

select user_id
   from fnd_user
  where user_name = b_user_name;

l_user_id          NUMBER;
l_task_reference_id NUMBER;

l_return_status VARCHAR2(1);
l_msg_count       NUMBER;
l_msg_data        VARCHAR2(1000);

begin
  dbms_output.put_line('-----');
  open c_login_user(l_user_name);
  fetch c_login_user into l_user_id;
  if c_login_user%NOTFOUND then
    close c_login_user;
    raise_application_error(-20000,'User name '||l_user_name||' is not found.');
```

end if;

```

  close c_login_user;
  dbms_output.put_line('User Id : '||l_user_id);

  fnd_global.apps_initialize(l_user_id, 0, 690);

  jtf_task_references_pub.create_references(
    p_api_version      => 1.0,
    p_init_msg_list    => fnd_api.g_true,
    p_commit           => fnd_api.g_false,
    p_task_id          => l_task_id,
    p_object_type_code => l_source_object_type,
    p_object_name      => l_source_object_name,
    p_object_id        => l_source_object_id,
    x_return_status    => l_return_status,
    x_msg_count        => l_msg_count,
    x_msg_data         => l_msg_data,
    x_task_reference_id => l_task_reference_id
  );
  IF l_return_status <> fnd_api.g_ret_sts_success THEN
    IF l_msg_count > 0 THEN
      l_msg_data := NULL;
      FOR i IN 1..l_msg_count LOOP
        l_msg_data := l_msg_data || ' '||fnd_msg_pub.get(1, 'F');
      END LOOP;

      fnd_message.set_encoded(l_msg_data);

```

```
        dbms_output.put_line(l_msg_data);
    END IF;
    ROLLBACK;
ELSE
    dbms_output.put_line('l_task_reference_id = '||l_task_reference_id);
    dbms_output.put_line('Return Status = '||l_return_status);
    COMMIT;
END IF;
end;
/
```

Notes Public APIs

Notes are free-formed text, created by an agent, customer care or service representative, or end user and attached to a business object. Applications in the Oracle e-Business Suite use notes to help retain information about business objects, such as directions, special instructions, and reminders. Notes are also used for service requests, service quotes, marketing offerings, and tasks.

The following topics are discussed in this chapter:

- [Package JTF_NOTES_PUB](#)
- [Messages and Notifications](#)
- [Sample Code](#)

4.1 Package JTF_NOTES_PUB

All public procedures (APIs) relating to creating and updating notes are stored in the JTF_NOTES_PUB package. There are two public Note APIs:

- `Create_Notes`
- `Update_Notes`

4.1.1 Data Structure Specifications

Package JTF_NOTES_PUB contain one data structure.

4.1.1.1 Record `jtf_note_contexts_rec_type`

The JTF_NOTE_CONTEXTS_REC is used to store information about the context (a related business object) for the note. This record type is used to create both of the following:

- `jtf_note_contexts_tab`
- `jtf_note_contexts_tab_dflt`

```
TYPE jtf_note_contexts_rec_type IS RECORD
( note_context_id      NUMBER,
  jtf_note_id         NUMBER,
  note_context_type   VARCHAR2(240),
  note_context_type_id NUMBER,
  last_update_date    DATE,
  last_updated_by     NUMBER(15),
  creation_date       DATE,
  created_by          NUMBER,
  last_update_login   NUMBER
);
```

These parameters have the same meaning as those defined for the individual Notes APIs.

4.1.2 Notes Public APIs

The following table describes the public APIs which are discussed in this chapter.

Table 4–1 The Notes Public APIs

Procedure	Description
Create_Note	Creates a note (record) and writes it to the database.
Update_Note	Updates an existing note (record) and writes the updated version to the database.

4.1.3 Note Source and Note Context

The following section details the relationship between both the note source and note context and the JTF_NOTES_PUB API package.

4.1.3.1 Note Source

The note source is always required when using the JTF_NOTES_PUB API package. The note source is a business object that owns the note. It is always one of the following:

- the creator of the note
- the initiator of the note
- the parent of the note

This could be a party, a service request, or an order, for example. In any case, the note does not make sense without the source. You must specify the source of a note when creating it.

4.1.3.2 Note Context

The note context is a business object that is related to the note, but is not its source. For example, a note is created for a task, but, in addition, it is related to a party, an opportunity and an employee. Note context is not required when you create a note.

The following table describes some of the important parameters related to both the note source and note context.

Table 4–2 Note Source and Context Parameters

Parameter	Description
p_source_object_code	This parameter contains (references) the source business object. For example, this could be a party, a task, or a service request. This parameter is not the software module that created the note. For example, it is not Customer Care, or the Contact Center.
p_source_object_id	This parameter relates to the business object specified in <i>p_source_object_code</i> , but refers to a particular instance of the business object. For example, this could be the <i>party_id</i> for a party, or the <i>service_request_id</i> of a service request.
p_context	This is a short description field for the context business object.
p_note_context_type	This value is passed as a parameter in the internal call to the Create_Note_Context API. It is the business object that is related to, but is not the source of, the note. It is similar to <i>p_source_object_code</i> .
p_note_context_type_id	This value is passed as a parameter in the internal call to the Create_Note_Context API. It is similar to <i>p_source_object_id</i> .

The *p_note_context_type* parameter and the *p_note_context_type_id* parameter are stored as data items in the *p_jtf_note_contexts_tab* record. See [Section 4.1.1.1, "Record jtf_note_contexts_rec_type"](#) for details of this data structure.

4.1.4 Party Relationships

For notes related to a party business object (no matter what party type), use only the PARTY type definition. That is, do **not** use:

- PARTY_PERSON
- PARTY_GROUP
- PARTY_RELATIONSHIP
- PARTY_ORGANIZATION

You must define the note as type PARTY to be able to find, across the entire e-Business Suite, any note created for a specific party.

Note: It is not necessary to populate the source object into the notes context table. This action is performed automatically by the Notes APIs.

Note Contexts that Relate to a Customer

When a note is created for a source that contains customer information, then the customer information **must** be included as part of the context for that note. This ensures that all notes relating to that customer can be viewed in a single place. To do this, set the value for *p_note_context_type* to PARTY.

Note Contexts that Relate to a Relationship

If a note is created for a source that contains customer information that includes relationship information such as a member of an organization, then it must create three separate instances of *p_jtf_note_contexts_tab* records (discussed in [Section 4.1.1.1, "Record jtf_note_contexts_rec_type"](#)) that contain the following:

1. Information related to the organization in which the person works.
2. The party identifier for party of type "relationship." Do not use PARTY_RELATIONSHIP, instead use PARTY for the *p_note_context_type* parameter.
3. The party identifier (*party_id*) for the person.

Example of a Party Relationship

The following table lists information needed to specify the relationship of John Doe at Oracle (john.doe@oracle). It is stored in the PARTY tables in the database.

Party ID	Party Type	Party Name
1000	ORGANIZATION	Oracle
1100	PERSON	John Doe
1200	PARTY_RELATIONSHIP	John.Doe@Oracle

The following table lists the values for the context information needed to specify John.Doe@Oracle. The context business object is the p_note_context_type parameter. The context business object identifier is p_context_type_id.

p_note_context_type	p_context_type_id
PARTY	1000
PARTY	1100
PARTY	1200

4.1.5 Create_Note

Use the Create_Note API to generate a text note. This API Performs the following tasks:

- It validates the note status, length, type, and ID.
- It creates a note record and writes it to the database.
- It writes any related contexts to the database.

Example Note Parameter Values

The following table lists the input parameters associated with a note that was created and attached to service request 4039. This note was created as a private note, on September 2, 2000.

Table 4-1 Note Parameter Value Example

Parameter	Value
p_parent_note_id	NULL
p_jtf_note_id	209
p_source_object_id	4039
p_source_object_code	SR
p_note_status	E
p_entered_by	1000194
p_entered_date	09/02/2000 12:42:22 PM
p_last_update_date	09/02/2000 12:42:22 PM
p_last_updated_by	1000194
p_creation_date	09/02/2000 12:42:22 PM
p_created_by	1000194
p_last_update_login	519018
p_note_type	AS_USER

Procedure Specification

```

PROCEDURE Create_Note
( p_parent_note_id      IN NUMBER DEFAULT NULL,
  p_jtf_note_id        IN NUMBER DEFAULT NULL,
  p_api_version         IN NUMBER,
  p_init_msg_list      IN VARCHAR2  DEFAULT FND_API.G_FALSE,
  p_commit              IN VARCHAR2  DEFAULT FND_API.G_FALSE,
  p_validation_level   IN NUMBER    DEFAULT FND_API.G_VALID_LEVEL_FULL,
  x_return_status      OUT VARCHAR2,
  x_msg_count          OUT NUMBER,
  x_msg_data           OUT VARCHAR2,
  p_org_id             IN NUMBER    DEFAULT NULL,
  p_source_object_id   IN NUMBER,
  p_source_object_code IN VARCHAR2,
  p_notes              IN VARCHAR2,

```

```
p_notes_detail          IN VARCHAR2 DEFAULT NULL,
p_note_status          IN VARCHAR2 DEFAULT 'I',
p_entered_by           IN NUMBER,
p_entered_date         IN DATE,
x_jtf_note_id          OUT NUMBER,
p_last_update_date    IN DATE,
p_last_updated_by     IN NUMBER,
p_creation_date       IN DATE,
p_created_by          IN NUMBER DEFAULT FND_GLOBAL.USER_ID,
p_last_update_login   IN NUMBER DEFAULT FND_GLOBAL.LOGIN_ID,
p_attribute1          IN VARCHAR2 DEFAULT NULL,
p_attribute2          IN VARCHAR2 DEFAULT NULL,
p_attribute3          IN VARCHAR2 DEFAULT NULL,
p_attribute4          IN VARCHAR2 DEFAULT NULL,
p_attribute5          IN VARCHAR2 DEFAULT NULL,
p_attribute6          IN VARCHAR2 DEFAULT NULL,
p_attribute7          IN VARCHAR2 DEFAULT NULL,
p_attribute8          IN VARCHAR2 DEFAULT NULL,
p_attribute9          IN VARCHAR2 DEFAULT NULL,
p_attribute10         IN VARCHAR2 DEFAULT NULL,
p_attribute11         IN VARCHAR2 DEFAULT NULL,
p_attribute12         IN VARCHAR2 DEFAULT NULL,
p_attribute13         IN VARCHAR2 DEFAULT NULL,
p_attribute14         IN VARCHAR2 DEFAULT NULL,
p_attribute15         IN VARCHAR2 DEFAULT NULL,
p_context             IN VARCHAR2 DEFAULT NULL,
p_note_type           IN VARCHAR2 DEFAULT NULL,
p_jtf_note_contexts_tab IN jtf_note_contexts_tbl_type
                        DEFAULT jtf_note_contexts_tab_dflt
);
```

Current Version

1.0

Parameter Descriptions

The following table describes the IN parameters associated with this API.

Table 4–3 Create_Note IN Parameters

Parameter	Data Type	Required	Descriptions and Validations
p_parent_note_id	NUMBER	No	Identifier of the parent note, if any.
p_jtf_note_id	NUMBER	No	Note identifier; this must be unique, if it is not, an error is raised. You must use the JTF_NOTES_S sequence to generate valid values.
p_api_version	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_init_msg_list	VARCHAR2	No	See "Standard IN Parameters" on page 1-3.
p_commit	VARCHAR2	No	See "Standard IN Parameters" on page 1-3.
p_validation_level	NUMBER	No	This values determines whether validation should occur or not. This variable is checked against FND_API.G_VALID_LEVEL_NONE and if it is greater than the latter, validation occurs.
p_org_id	NUMBER	No	An identifier for the organization.
p_source_object_id	NUMBER	No	Dependent on parameter p_source_object_code; for example, if the source business object is a service request, this is the service request number. See Section 4.1.3, "Note Source and Note Context" on page 4-2 for more details.
p_source_object_code	VARCHAR2	No	The source business object for the note; for example, this could be TASK if the source object is a task, or ESC if the source object is an escalated document. See Section 4.1.3, "Note Source and Note Context" on page 4-2 for more details.
p_notes	VARCHAR2	Yes	The actual note text, passed from the source application.
p_notes_detail	VARCHAR2	No	This parameter is used to store larger notes of up to 32k.

Table 4–3 Create_Note IN Parameters

Parameter	Data Type	Required	Descriptions and Validations
p_notes_status	VARCHAR2	No	Indicates the status of the note. Choices are: <ul style="list-style-type: none"> ■ Private (E) ■ Internal (I) ■ Publish (P) This value must be either E, I, or P. If it is not, an error is raised. If none is provided, I is used.
p_entered_by	NUMBER	Yes	Identifies the Oracle Applications user who entered this record. If a valid user identifier is not provided, an error is raised.
p_entered_date	DATE	Yes	The date that the record was entered. If not provided, SYSDATE is used.
p_last_update_date	DATE	Yes	The date that this record was last updated. If not provided, SYSDATE is used.
p_last_updated_by	NUMBER	No	Identifies the Oracle Applications user who last updated this record.
p_creation_date	DATE	Yes	The date on which this note was first created. If not provided, SYSDATE is used.
p_created_by	NUMBER	No	Identifies the Oracle Applications user who first created this record.
p_last_update_login	NUMBER	No	Identifies the login session of the Oracle Applications user that last updated the note.
p_attribute1	VARCHAR2	No	Descriptive Flexfield Segment
p_attribute2	VARCHAR2	No	Descriptive Flexfield Segment
p_attribute3	VARCHAR2	No	Descriptive Flexfield Segment
p_attribute4	VARCHAR2	No	Descriptive Flexfield Segment
p_attribute5	VARCHAR2	No	Descriptive Flexfield Segment
p_attribute6	VARCHAR2	No	Descriptive Flexfield Segment
p_attribute7	VARCHAR2	No	Descriptive Flexfield Segment
p_attribute8	VARCHAR2	No	Descriptive Flexfield Segment
p_attribute9	VARCHAR2	No	Descriptive Flexfield Segment
p_attribute10	VARCHAR2	No	Descriptive Flexfield Segment

Table 4–3 Create_Note IN Parameters

Parameter	Data Type	Required	Descriptions and Validations
p_attribute11	VARCHAR2	No	Descriptive Flexfield Segment
p_attribute12	VARCHAR2	No	Descriptive Flexfield Segment
p_attribute13	VARCHAR2	No	Descriptive Flexfield Segment
p_attribute14	VARCHAR2	No	Descriptive Flexfield Segment
p_attribute15	VARCHAR2	No	Descriptive Flexfield Segment
p_context	VARCHAR2	No	This is a short description field.
p_note_type	VARCHAR2	No	The type of note, based on the source business object; for example, this could be SR_PROBLEM, if the note concerns a service request problem. If this value is not valid, an error is raised.
p_jtf_note_contexts_tab	jtf_note_contexts_tbl_type	No	Table of PL/SQL records used to specify the note context. See Section 4.1.3, "Note Source and Note Context" on page 4-2 and Section 4.2, "Messages and Notifications" on page 4-13 for more details.

The following table describes the OUT parameters associated with this API.

Table 4–4 Create_Note OUT Parameters

Parameter	Data Type	Description
x_return_status	VARCHAR2	See "Standard OUT Parameters" on page 1-4.
x_msg_count	NUMBER	See "Standard OUT Parameters" on page 1-4.
x_msg_data	VARCHAR2	See "Standard OUT Parameters" on page 1-4.
x_jtf_note_id	NUMBER	The unique note identifier. This value is the same as p_jtf_note_id.

4.1.6 Update_Note

Use the Update_Note API to modify an existing text note. This API Performs the following tasks:

- Validates the note status, length, type, and ID.
- It update an existing note record and replaces the existing version in the database with the modified version.
- It updates any related context information in the database, if necessary.

Procedure Specification

```
PROCEDURE Update_note
(
  p_api_version      IN NUMBER,
  p_init_msg_list    IN VARCHAR2 DEFAULT fnd_api.g_false,
  p_commit           IN VARCHAR2 DEFAULT fnd_api.g_false,
  p_validation_level IN NUMBER   DEFAULT fnd_api.g_valid_level_full,
  x_return_status    OUT VARCHAR2,
  x_msg_count        OUT NUMBER,
  x_msg_data         OUT VARCHAR2,
  p_jtf_note_id      IN NUMBER,
  p_entered_by       IN NUMBER,
  p_last_updated_by  IN NUMBER,
  p_last_update_date IN DATE     DEFAULT Sysdate,
  p_last_update_login IN NUMBER  DEFAULT NULL,
  p_notes            IN VARCHAR2 DEFAULT fnd_api.g_miss_char,
  p_notes_detail     IN VARCHAR2 DEFAULT fnd_api.g_miss_char,
  p_append_flag      IN VARCHAR2 DEFAULT fnd_api.g_miss_char,
  p_note_status      IN VARCHAR2 DEFAULT 'I',
  p_note_type        IN VARCHAR2 DEFAULT fnd_api.g_miss_char,
  p_jtf_note_contexts_tab IN jtf_note_contexts_tbl_type
                        DEFAULT jtf_note_contexts_tab_dflt
);
```

Current Version

1.0

Parameter Descriptions

The following table describes the IN parameters associated with this API.

Table 4–5 Update_Note IN Parameters

Parameter	Data Type	Required	Descriptions and Validations
p_api_version	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_init_msg_list	VARCHAR2	No	See "Standard IN Parameters" on page 1-3.
p_commit	VARCHAR2	No	See "Standard IN Parameters" on page 1-3.
p_validation_level	NUMBER	No	This value determines whether validation should occur or not. The variable is checked against FND_API.G_VALID_LEVEL_NONE and if it is greater than the latter, validation is performed.
p_jtf_note_id	NUMBER	Yes	Note identifier; this must be unique, if it is not, an error is raised. You must use the JTF_NOTES_S sequence to generate valid values.
p_entered_by	NUMBER	Yes	This is employee ID of the person who entered the note.
p_last_updated_by	NUMBER	Yes	Corresponds to the column USER_ID in the table FND_USER, and identifies the Oracle Applications user who updated this record.
p_last_update_date	DATE	No	The date on which this record was updated.
p_last_update_login	NUMBER	No	Corresponds to the column LOGIN_ID in the table FND_LOGINS, and identifies the login session of the user.
p_notes	VARCHAR2	No	The updated note text.
p_notes_detail	VARCHAR2	No	Used to create larger notes of up to 32K. If p_append_flag is set to Yes, then p_notes_detail is appended to p_notes.
p_append_flag	VARCHAR2	No	Boolean value: Used to specify if p_notes_detail is to be appended to the existing p_notes_detail: <ul style="list-style-type: none"> ▪ TRUE: Append p_notes_detail to p_notes_detail. ▪ FALSE: Do not append p_notes_detail to p_notes_detail.

Table 4–5 Update_Note IN Parameters

Parameter	Data Type	Required	Descriptions and Validations
p_note_status	VARCHAR2	No	Indicates the status of the note. Choices are: <ul style="list-style-type: none"> ■ Private ■ Internal (Default) ■ Publish Note that only the owner of the note can update the Private status of a note. The owner of the note is defined by the p_entered_by parameter.
p_note_type	VARCHAR2	No	This value must be one of the note types defined as lookup codes for JTF_NOTE_TYPE.
p_jtf_note_contexts_tab	jtf_note_contexts_tbl_type	No	Table of PL/SQL records to specify the note context. See Section 4.1.3, "Note Source and Note Context" on page 4-2 and Section 4.2, "Messages and Notifications" on page 4-13 for more details.

The following table describes the OUT parameters associated with this API.

Table 4–6 Update_Note OUT Parameters

Parameter	Data Type	Description
x_return_status	VARCHAR2	See "Standard OUT Parameters" on page 1-4.
x_msg_count	NUMBER	See "Standard OUT Parameters" on page 1-4.
x_msg_data	VARCHAR2	See "Standard OUT Parameters" on page 1-4.

4.2 Messages and Notifications

The APIs contained in package JTF_NOTES_PUB generate messages and notifications as needed. These messages are detailed in section 6.3.1.

Note: Status notifications are not required to provide a number identifier along with the message, although, in many cases, it is provided.

4.2.1 JTF_NOTES_PUB

The following table lists the messages and notifications generated by the Create_Note and Update_Note APIs.

Table 4–7 Create_Note and Update_Note Messages

Type	Name	Text
E	JTF_API_ERR_PRE_CUST_USR_HK	API Programming Error (&API_NAME): Returned Error Status from the Pre Customer User Hook.
E	JTF_API_ERR_PRE_VERT_USR_HK	API Programming Error (&API_NAME): Returned Error Status from the Pre Vertical User Hook.
E	JTF_API_ERR_POST_CUST_USR_HK	API Programming Error (&API_NAME): Returned Error Status from the Post Customer User Hook.
E	JTF_API_ERR_POST_VERT_USR_HK	API Programming Error (&API_NAME): Returned Error Status from the Post Vertical User Hook.
E	JTF_API_ALL_INVALID_ARGUMENT	API Programming Error (&API_NAME): The value of "&VALUE" for &PARAMETER is invalid.
E	JTF_API_ALL_MISSING_PARAM	API Programming Error (&API_NAME): Parameter &MISSING_PARAM is required and was not passed in.
E	JTF_API_ALL_NULL_PARAMETER	API Programming Error (&API_NAME): The value of &NULL_PARAM cannot be NULL.
E	JTF_API_ALL_VALUE_TRUNCATED	API Programming Warning (&API_NAME): The parameter &TRUNCATED_PARAM was truncated because the character value (&VAL_LEN) is longer than the defined width of the VARCHAR2 column (&DB_LEN).

4.3 Sample Code

This section contains SQL scripts that call the Notes public APIs contained in the JTF_NOTES_PUB package and insert values as required.

4.3.1 Package JTF_NOTES_PUB

The SQL scripts in this section create and update a note by calling the Create_Note and Update_Note APIs in succession and by providing them with the required values.

4.3.1.1 Create_Note

This script calls the Create_Note API and creates a note with the following information:

- Source object ID: 151263
- Source object: Task Manager
- Note status: Publish
- Note type: General
- Note text: These are the directions to my office

```

DECLARE
  l_api_version          NUMBER;
  l_init_msg_list       VARCHAR2(1);
  l_validation_level    NUMBER;
  l_commit              VARCHAR2(1);
  l_return_status      VARCHAR2(1);
  l_msg_count           NUMBER;
  l_msg_data            VARCHAR2(2000);
  l_jtf_note_id        NUMBER;
  l_source_object_id    NUMBER;
  l_source_object_code  VARCHAR2(8);
  l_note_status         VARCHAR2(8);
  l_note_type           VARCHAR2(80);
  l_notes               VARCHAR2(2000);
  l_notes_detail        VARCHAR2(8000);
  l_last_update_date    DATE;
  l_last_updated_by     NUMBER;
  l_creation_date       DATE;
  l_created_by          NUMBER;
  l_last_update_login   NUMBER;
  l_entered_by          NUMBER;
  l_entered_date        DATE;
  l_note_contexts       JTF_NOTES_PUB.jtf_note_contexts_tbl_type;
  l_msg_index           NUMBER;
  l_msg_index_out       NUMBER;

BEGIN
  -- Initialize the Notes parameters you want to create
  l_api_version          := 1.0;
  l_init_msg_list       := FND_API.g_true;
  l_validation_level    := FND_API.g_valid_level_full;
  l_commit              := FND_API.g_true;

```

```
l_msg_count          := 0;
l_source_object_id   := 151263;
l_source_object_code := 'TASK';
l_note_status        := 'P';
l_note_type          := 'GENERAL';
l_notes              := 'These are the directions to my office';
l_notes_detail       := 'These are the directions to my office';
l_entered_by         := FND_GLOBAL.user_id;
l_entered_date       := SYSDATE;

-- Initialize Who columns
l_last_update_date := SYSDATE;
l_last_updated_by  := FND_GLOBAL.USER_ID;
l_creation_date    := SYSDATE;
l_created_by       := FND_GLOBAL.USER_ID;
l_last_update_login:= FND_GLOBAL.LOGIN_ID;

-- Initialize the Notes Context parameters (optional)
l_note_contexts(1).note_context_type := 'SR';
l_note_contexts(1).note_context_type_id := 1;
l_note_contexts(1).last_update_date := SYSDATE;
l_note_contexts(1).last_updated_by := FND_GLOBAL.USER_ID;
l_note_contexts(1).creation_date := SYSDATE;
l_note_contexts(1).created_by := FND_GLOBAL.USER_ID;
l_note_contexts(1).last_update_login := FND_GLOBAL.LOGIN_ID;

l_note_contexts(2).note_context_type := 'TASK';
l_note_contexts(2).note_context_type_id := 151149;
l_note_contexts(2).last_update_date := SYSDATE;
l_note_contexts(2).last_updated_by := FND_GLOBAL.USER_ID;
l_note_contexts(2).creation_date := SYSDATE;
l_note_contexts(2).created_by := FND_GLOBAL.USER_ID;
l_note_contexts(2).last_update_login := FND_GLOBAL.LOGIN_ID;

-- Call the API
jtf_notes_pub.Create_note
( p_api_version          => l_api_version,
  p_init_msg_list        => l_init_msg_list,
  p_commit               => l_commit,
  p_validation_level     => l_validation_level,
  x_return_status        => l_return_status,
  x_msg_count            => l_msg_count,
  x_msg_data             => l_msg_data,
  p_jtf_note_id         => l_jtf_note_id,
  p_entered_by          => l_entered_by,
```

```

    p_entered_date          => l_entered_date,
    p_source_object_id     => l_source_object_id,
    p_source_object_code   => l_source_object_code,
    p_notes                 => l_notes,
    p_notes_detail         => l_notes_detail,
    p_note_type            => l_note_type,
    p_note_status          => l_note_status,
    p_jtf_note_contexts_tab => l_note_contexts,
    x_jtf_note_id          => l_jtf_note_id,
    p_last_update_date     => l_last_update_date,
    p_last_updated_by      => l_last_updated_by,
    p_creation_date        => l_creation_date,
    p_created_by           => l_created_by,
    p_last_update_login    => l_last_update_login
);

-- Check for errors

IF (fnd_msg_pub.count_msg > 0)
THEN
    FOR i IN 1..fnd_msg_pub.count_msg
    LOOP
        fnd_msg_pub.get
        ( p_msg_index      => i,
          p_encoded        => 'F',
          p_data           => l_msg_data,
          p_msg_index_out => l_msg_index_out
        );
        DBMS_OUTPUT.PUT_LINE('API ERROR: ' || l_msg_data);
    END LOOP;
ELSE
    DBMS_OUTPUT.PUT_LINE('Created note : ' || to_char(l_jtf_note_id));
END IF;

END;
```

4.3.1.2 Update_Note

This script calls the Update_Note API and updates the previously created note with the following values:

- Note status: E (Private)
- Note type: Call Back

```
DECLARE
```

```
l_api_version          NUMBER;
l_init_msg_list        VARCHAR2(1);
l_validation_level     NUMBER;
l_commit               VARCHAR2(1);
l_return_status        VARCHAR2(1);
l_msg_count            NUMBER;
l_msg_data             VARCHAR2(2000);
l_jtf_note_id         NUMBER;
l_note_status          VARCHAR2(8);
l_note_type            VARCHAR2(80);
l_notes                VARCHAR2(2000);
l_notes_detail         VARCHAR2(32000);
l_append_flag          VARCHAR2(1);
l_last_update_date    DATE;
l_last_updated_by     NUMBER;
l_last_update_login   NUMBER;
l_entered_by          NUMBER;
l_note_contexts       JTF_NOTES_PUB.jtf_note_contexts_tbl_type;
l_msg_index            NUMBER;
l_msg_index_out       NUMBER;

BEGIN
  -- Initialize the API
  l_api_version          := 1.0;
  l_init_msg_list        := FND_API.g_true;
  l_validation_level     := FND_API.g_valid_level_full;
  l_commit               := FND_API.g_true;
  l_msg_count            := 0;

  -- Initialize Notes parameters you want to update
  l_jtf_note_id         := 151263;
  l_note_status          := 'E';
  l_note_type            := 'Call Back';
  l_notes                := 'These are the directions to my office';
  l_notes_detail         := 'These are the directions to my office';
  l_entered_by          := FND_GLOBAL.user_id;

  -- Initialize Who columns
  l_last_update_date    := SYSDATE;
  l_last_updated_by     := FND_GLOBAL.USER_ID;
  l_last_update_login   := FND_GLOBAL.LOGIN_ID;

  -- Initialize the Notes Context parameters (optional)
  l_note_contexts(1).jtf_note_id      := 151263;
  l_note_contexts(1).note_context_id  := 151149;
```

```

l_note_contexts(1).note_context_type      := 'SR';
l_note_contexts(1).note_context_type_id := 1;
l_note_contexts(1).last_update_date      := SYSDATE;
l_note_contexts(1).last_updated_by       := FND_GLOBAL.USER_ID;
l_note_contexts(1).last_update_login     := FND_GLOBAL.LOGIN_ID;
l_note_contexts(2).jtf_note_id           := 151263;
l_note_contexts(2).note_context_id       := 151149;
l_note_contexts(2).note_context_type     := 'TASK';
l_note_contexts(2).note_context_type_id := 151149;
l_note_contexts(2).last_update_date      := SYSDATE;
l_note_contexts(2).last_updated_by       := FND_GLOBAL.USER_ID;
l_note_contexts(2).last_update_login     := FND_GLOBAL.LOGIN_ID;

-- Call the API
jtf_notes_pub.Update_note
(
  p_api_version      => l_api_version,
  p_init_msg_list    => l_init_msg_list,
  p_commit           => l_commit,
  p_validation_level => l_validation_level,
  x_return_status    => l_return_status,
  x_msg_count        => l_msg_count,
  x_msg_data         => l_msg_data,
  p_jtf_note_id      => l_jtf_note_id,
  p_entered_by       => l_entered_by,
  p_notes            => l_notes,
  p_notes_detail     => l_notes_detail,
  p_append_flag      => l_append_flag,
  p_note_type        => l_note_type,
  p_note_status      => l_note_status,
  p_last_update_date => l_last_update_date,
  p_last_updated_by  => l_last_updated_by,
  p_last_update_login => l_last_update_login,
  p_jtf_note_contexts_tab => l_note_contexts
);

-- Check for errors
IF (fnd_msg_pub.count_msg > 0)
THEN
  FOR i IN 1..fnd_msg_pub.count_msg
  LOOP
    fnd_msg_pub.get
    (
      p_msg_index      => i,
      p_encoded        => 'F',
      p_data           => l_msg_data,
      p_msg_index_out => l_msg_index_out
    );
  END LOOP;
END IF;

```

```
        );  
        DBMS_OUTPUT.PUT_LINE('API ERROR: ' || l_msg_data);  
    END LOOP;  
ELSE  
    DBMS_OUTPUT.PUT_LINE('Updated note : ' || to_char(l_jtf_note_id));  
END IF;  
  
END;
```

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