

Oracle® Service Contracts

API Reference Guide

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Oracle Service Contracts API Reference Guide, Release 11i

Part No. B12095-01

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Preface

Welcome to the Oracle Service Contracts API Reference Guide. This manual describes the Service Contracts's public APIs, and provides information to help you work effectively with these public APIs.

Intended Audience

This manual is intended for anyone who is interested in understanding or using (with minimal impact) the public APIs provided by Oracle Service Contracts.

This includes the following:

- Oracle consultants
- Oracle internal development members
- Oracle support members
- Oracle customers

The information in this document is intended for experienced application programmers working in PL/SQL only.

Structure

This manual contains the following chapters:

- | | | |
|-----------|--|---|
| 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 | Oracle Service Contracts Public APIs | Discusses the following APIs: |
| | | <ul style="list-style-type: none"> ■ OKS_ENTITLEMENTS_PUB ■ OKS_CON_COVERAGE_PUB ■ OKS_OMINT_PUB |

Related Documents

For additional information about Oracle Service Contracts, see the following manual:

- Oracle Service Contracts 11i Concepts and Procedures

For information about Oracle coding standards, see the following:

- *Oracle Applications Coding Standards*

Additional Sources of Information

For general information about Oracle Service Contracts, see the following classes provided through Oracle University:

- 11i Implement CRM Service Contracts
- 11i Use and Administer Service Contracts

Notational Conventions

This document uses the following notational conventions:

- | | |
|-------------------|---|
| Monospace text | Monospace text represents code or SQL statements. |
| lowercase italics | 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 denotes a variable that is replaced with an actual value at runtime.

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Introduction

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

Within the appropriate package, each API is specified by listing its code definition, including all of its parameters. The API parameters are then defined. In addition, the data structures used by the individual APIs are also defined, as are the relevant status messages for each API.

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 CRM Applications 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 CRM Applications.

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	Default = FND_API.G_FALSE: <ul style="list-style-type: none"> ▪ If set to true, then the API makes a call to <i>fnd_msg_pub.initialize</i> to initialize the message stack. ▪ 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.
p_commit	VARCHAR2(1)	No	Default = FND_API.G_FALSE: <ul style="list-style-type: none"> ▪ If set to true, then the API commits before returning to the calling program. ▪ If set to false, then it is the calling program's responsibility to commit the transaction.

1.1.2 Standard OUT Parameters

The following table describes standard OUT parameters, which are common to all public APIs provided by Oracle CRM Applications.

Note: All standard OUT parameters are required.

Table 1–2 Standard OUT Parameters

Parameter	Data Type	Description
x_return_status	VARCHAR2(1)	Indicates the return status of the API. The values returned are one of the following: <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.
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 *fndpapis.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 CRM 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 a division by zero will cause 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.

Oracle Service Contracts Public APIs

2.1 Entitlement/OM Integration APIs

Entitlements refers to various services a customer is entitled once a service contract is in effect. A set of public APIs are provided to expose the entitlements to other modules such as Oracle Customer Support, Service Core, Field Service, Depot Repair, and Charges. Any other modules are also welcome to use these APIs within its capabilities explained below. They are query only APIs.

Service Contracts OM/Integration Public API contains various procedures used by Order Management application to get service duration, Check the availability of Service for a customer or a product, get a list of Services available for a Customer or a product.

All the Entitlements OM/Integration APIs procedures are defined in the following packages.

- OKS_ENTITLEMENTS_PUB, see [Table 2-1](#)
- OKS_CON_COVERAGE_PUB, see [Table 2-2](#)
- OKS_OMINT_PUB, see [Table 2-3](#)

Table 2-1 Entitlements APIs - OKS_ENTITLEMENTS_PUB

Procedure	Description
Check Coverage Times	This API returns whether a particular date and time in a time zone (may be the sysdate), is covered in the coverage time specified for a given service line and business process. The output may be 'Y' or 'N' (Yes/No).

Table 2–1 Entitlements APIs - OKS_ENTITLEMENTS_PUB

Procedure	Description
Check Reaction Times	This API returns the reaction time, unit of measure and react by date (date & time) in a time zone for a given service line and business process. The output may be 2, Hrs, 01-JUN-2001 14:00
Get React Resolve By Time	This API returns the reaction and/or resolution time information in a time zone for a given service line and business process. There are options to get the first or best reaction time, resolution time or both.
Get All Contracts	This API returns the contract header information for any combination of input parameter as explained in API Signature section.
Get Contract Details	This API returns the contract line information for any combination of input parameter as explained in API Signature section.
Get Contracts	This is an over loaded API which returns contract information for different combination of Service, Extended Warranty or Warranty, Coverage Levels and Business Processes. Detailed explanation of input and output parameters are explained in the API signature section of this document.
Get Coverage Levels	This API returns the Coverage Level such as Party, Customer, Site, System, Item and Product information for a Service, Extended Warranty or Warranty.
Get Contacts	This API returns the Contact information for a contract or a line.
Get Preferred Engineers	This API returns the details of Preferred Engineers for a Service, Extended Warranty or Warranty.
Get Coverage Type	This API returns the Coverage type and importance level information for a contract line id.
Get Cov Txn Groups	This API returns the business process line level information in the coverage, based on the business process setup for a given contract line id.
Get Txn Billing Types	For a given transaction group line id, this API returns the information for service activity billing type line and labor bill rate.
Get Contracts Expiration	For a given contract id, this API returns the expiration details including: contract end date, contract grace period, and duration.

Table 2–1 Entitlements APIs - OKS_ENTITLEMENTS_PUB

Procedure	Description
Validate Contract Line	This API returns if the contract line id is valid for the given input of covered level table of records and the business process id.

Table 2–2 Coverage APIs - OKS_CON_COVERAGE_PUB

Procedure	Description
Apply Contract Coverage	This API returns the discounted amount for a Service or Extended Warranty based up on the Discount Amount and % Covered, specified in the Service Contract coverage terms for a specific business process.
Get BP Pricelist	This API returns the price list and discount at the coverage business process level and the price list at the contract header level for a contract_line_id, business_process_id and request date.

Table 2–3 OKS OM Integration APIs - OKS_OMINT_PUB

Procedure	Description
Get Duration	This API calculates the Service duration based on the cotermination flag and the minimum service duration
Is Service Available	This API checks for the availability of the service for a Customer and a product
Available Services	This API gives the list of services available to a Customer and a Product
OKS Available Services	This API gives the list of services with Name, Description and Coverage Associated available to a Customer and a Product.

2.2 Package OKS_ENTITLEMENTS_PUB

The Entitlements APIs consist of the following procedures:

- [Check Coverage Times](#)
- [Check Reaction Times](#)
- [Get React Resolve By Time](#)

- [Get All Contracts](#)
- [Get Contract Details](#)
- [Get Contracts \(Overloaded\)](#)
 - [Get Contracts](#)
 - [Get Contracts](#)
 - [Get Contracts](#)
- [Get Coverage Levels](#)
- [Get Contacts](#)
- [Get Preferred Engineers](#)
- [Get Coverage Type](#)
- [Get Cov Txn Groups](#)
- [Get Txn Billing Types](#)
- [Get Contracts Expiration](#)
- [Validate Contract line](#)

2.2.1 Check Coverage Times

This API returns whether a particular date and time in a time zone (may be the sysdate), is covered in the coverage time specified for a given service line and business process. The output may be 'Y' or 'N' (Yes/No).

Procedure Specification

```
PROCEDURE check_coverage_times
    (p_api_version          IN Number
    ,p_init_msg_list        IN Varchar2
    ,p_business_process_id IN Number
    ,p_request_date         IN Date
    ,p_time_zone_id         IN Number
    ,p_contract_line_id     IN Number
    ,x_return_status        OUT NOCOPY Varchar2
    ,x_msg_count            OUT NOCOPY Number
    ,x_msg_data             OUT NOCOPY Varchar2
    ,x_covered_yn           OUT NOCOPY Varchar2);
```

Current Version

1.0

Parameter Descriptions

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

Table 2–4 Check Coverage Times - IN Parameters

Parameter	Data Type	Required	Description and Validations
p_api_version	NUMBER	Yes	Standard IN Parameter
p_init_msg_list	VARCHAR2	Yes	Standard IN Parameter
p_business_process_id	NUMBER	Yes	Business Process ID
p_request_date	DATE	Yes	Request Date and Time
p_time_zone_id	NUMBER	Yes	Request Time Zone ID
p_contract_line_id	NUMBER	Yes	Line ID of Service, Extended Warranty or Warranty

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

Table 2–5 Check Coverage Times - OUT Parameters

Parameter	Data Type	Description
x_return_status	VARCHAR2	Standard OUT Parameter
x_msg_count	NUMBER	Standard OUT Parameter
x_msg_data	VARCHAR2	Standard OUT Parameter
x_covered_yn	VARCHAR2	Y/N

2.2.2 Check Reaction Times

This API returns the reaction time, unit of measure and react by date (date & time) in a time zone for a given service line and business process. The output may be 2, Hrs, 01-JUN-2003 14:00.

Procedure Specification

PROCEDURE check_reaction_times

```

(p_api_version          IN  Number
,p_init_msg_list       IN  Varchar2
,p_business_process_id IN  Number
,p_request_date        IN  Date
,p_sr_severity         IN  Number
,p_time_zone_id        IN  Number
,p_contract_line_id    IN  Number
,x_return_status       OUT NOCOPY Varchar2
,x_msg_count           OUT NOCOPY Number
,x_msg_data            OUT NOCOPY Varchar2
,x_react_within        OUT NOCOPY Number
,x_react_tuom          OUT NOCOPY Varchar2
,x_react_by_date       OUT NOCOPY Date);

```

Current Version

1.0

Parameter Descriptions

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

Table 2-6 Check Reaction Times - IN Parameters

Parameter	Data Type	Required	Description and Validations
p_api_version	NUMBER	Yes	Standard IN Parameter
p_init_msg_list	VARCHAR2	Yes	Standard IN Parameter
p_business_process_id	NUMBER	Yes	Business Process ID
p_request_date	DATE	Yes	Request Date
p_sr_severity	NUMBER	Yes	Severity ID
p_time_zone_id	NUMBER	Yes	Request Time Zone ID
p_contract_line_id	NUMBER	Yes	Line ID of Service, Extended Warranty or Warranty

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

Table 2-7 Check Reaction Times - OUT Parameters

Parameter	Data Type	Description
x_return_status	VARCHAR2	Standard OUT Parameter

Table 2–7 Check Reaction Times - OUT Parameters

Parameter	Data Type	Description
x_msg_count	NUMBER	Standard OUT Parameter
x_msg_data	VARCHAR2	Standard OUT Parameter
x_react_within	NUMBER	Reaction Time
x_react_tuom	VARCHAR2	Unit of Measure for Reaction Time
x_react_by_date	DATE	Date and Time by which the reaction or response has to be made for a Service Request.

2.2.3 Get React Resolve By Time

This API returns the reaction and/or resolution time information in a time zone for a given service line. There are options to get the first or best reaction time, resolution time or both.

Procedure Specification

```
PROCEDURE get_react_resolve_by_time
    (p_api_version          in number
    ,p_init_msg_list       in varchar2
    ,p_inp_rec             in grt_inp_rec_type
    ,x_return_status      out nocopy varchar2
    ,x_msg_count          out nocopy number
    ,x_msg_data           out nocopy varchar2
    ,x_react_rec          out rcn_rsn_rec_type
    ,x_resolve_rec        out rcn_rsn_rec_type);
```

Current Version

1.0

Parameter Descriptions

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

Table 2–8 Get React Resolve By Time - IN Parameters

Parameter	Data Type	Required	Description and Validations
p_api_version	NUMBER	Yes	Standard IN Parameter

Table 2–8 Get React Resolve By Time - IN Parameters

Parameter	Data Type	Required	Description and Validations
p_init_msg_list	VARCHAR2	Yes	Standard IN Parameter
p_inp_rec	grt_inp_rec_type	Yes	See the Data Structure Specification: grt_inp_rec_type

2.2.3.1 grt_inp_rec_type

Record Specification

```

TYPE grt_inp_rec_type IS RECORD
  (contract_line_id      number
  ,business_process_id  okx_bus_processes_v.id1%type
  ,severity_id          okx_incident_severits_v.id1%type
  ,request_date         date
  ,time_zone_id        okx_timezones_v.timezone_id%type
  ,category_rcn_rsn    okc_rules_b.rule_information_category%type
  ,compute_option      varchar2(10));

```

Parameter Descriptions

The following table describes the parameters associated with this data structure.

Table 2–9 grt_inp_rec_type - Parameters

Parameter	Data Type	Required	Description and Validations
contract_line_id	NUMBER	Yes	Contract Line ID
business_process_id	NUMBER	Yes	Business Process ID
severity_id	NUMBER	Yes	Severity ID
request_date	DATE	No	Request Date. The default is system date.
time_zone_id	NUMBER	Yes	Request Time Zone ID

Table 2–9 *grt_inp_rec_type - Parameters*

Parameter	Data Type	Required	Description and Validations
category_rcn_rsn	VARCHAR2	Yes	OKS_ENTITLEMENTS_PUB.G_REACTION - Returns reaction time information OKS_ENTITLEMENTS_PUB.G_RESOLUTION - Returns resolution time information OKS_ENTITLEMENTS_PUB.G_REACT_RESOLVE - Returns reaction and resolution time information
compute_option	VARCHAR2	Yes	OKS_ENTITLEMENTS_PUB.G_BEST - Returns the best reaction and/or resolution time information OKS_ENTITLEMENTS_PUB.G_FIRST - Returns the first reaction and/or resolution time information

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

Table 2–10 *Get React Resolve By Time - OUT Parameters*

Parameter	Data Type	Description
x_return_status	VARCHAR2	Standard OUT Parameter
x_msg_count	NUMBER	Standard OUT Parameter
x_msg_data	VARCHAR2	Standard OUT Parameter
x_react_rec	rcn_rsn_rec_type	Reaction Time information. See the Data Structure Specification: rcn_rsn_rec_type
x_resolve_rec	rcn_rsn_rec_type	Resolution Time information. See the Data Structure Specification: rcn_rsn_rec_type .

2.2.3.2 rcn_rsn_rec_type

Record Specification

```
TYPE rcn_rsn_rec_type IS RECORD
    (duration          okc_react_intervals.duration%type
```

```
,uom                okc_react_intervals.uom_code%type
,by_date_start      date
,by_date_end        date);
```

Parameter Descriptions

The following table describes the parameters associated with this data structure.

Table 2–11 *rcn_rsn_rec_type - Parameters*

Parameter	Data Type	Description
duration	NUMBER	Reaction or Resolution Time
uom	VARCHAR2	Unit of Measure for Reaction or Resolution Time
by_date_start	DATE	Date and Time by which the Reaction / Response or Resolution has begun for a Service Request.
by_date_end	DATE	Date and Time by which the Reaction / Response or Resolution has to be completed for a Service Request.

2.2.4 Get All Contracts

This API returns the contract header information for any combination of input parameter as explained in API Signature section.

Procedure Specification

```
PROCEDURE get_all_contracts
    (p_api_version      IN  Number
    ,p_init_msg_list     IN  Varchar2
    ,p_inp_rec           IN  inp_rec_type
    ,x_return_status     OUT NOCOPY Varchar2
    ,x_msg_count         OUT NOCOPY Number
    ,x_msg_data          OUT NOCOPY Varchar2
    ,x_all_contracts     OUT NOCOPY hdr_tbl_type);
```

Current Version

1.0

Parameter Descriptions

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

Table 2–12 Get All Contracts - IN Parameters

Parameter	Data Type	Required	Description and Validations
p_api_version	NUMBER	Yes	Standard IN Parameter
p_init_msg_list	VARCHAR2	Yes	Standard IN Parameter
p_inp_rec	inp_rec_type	Yes	See the Data Structure Specification: inp_rec_type

2.2.4.1 inp_rec_type

Record Specification

```

TYPE inp_rec_type IS RECORD
  (contract_id          NUMBER
  ,contract_status_code VARCHAR2(30)
  ,contract_type_code   VARCHAR2(30)
  ,end_date_active      DATE
  ,party_id             NUMBER);

```

Parameter Descriptions

The following table describes the parameters associated with this data structure.

Table 2–13 inp_rec_type - Parameters

Parameter	Data Type	Required	Description
contract_id	NUMBER	Yes	Contract Header ID
contract_status_code	VARCHAR2	No	Contract Status Code
contract_type_code	VARCHAR2	No	Contract Type Code
end_date_active	DATE	No	End Date Active
party_id	NUMBER	No	Party ID

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

Table 2–14 Get All Contracts - OUT Parameters

Parameter	Data Type	Description
x_return_status	VARCHAR2	Standard OUT Parameter

Table 2–14 Get All Contracts - OUT Parameters

Parameter	Data Type	Description
x_msg_count	NUMBER	Standard OUT Parameter
x_msg_data	VARCHAR2	Standard OUT Parameter
x_all_contracts	hdr_tbl_type	Contract header information. See the Data Structure Specification: hdr_tbl_type

2.2.4.2 hdr_tbl_type

Record Specification

```

TYPE hdr_tbl_type IS TABLE OF hdr_rec_type
    INDEX BY BINARY_INTEGER;
TYPE hdr_rec_type IS RECORD
    (ORG_ID                OKC_K_HEADERS_B.AUTHORING_ORG_ID%TYPE
    ,CONTRACT_ID          OKC_K_HEADERS_B.ID%TYPE
    ,CONTRACT_NUMBER      OKC_K_HEADERS_B.CONTRACT_NUMBER%TYPE
    ,SHORT_DESCRIPTION    KC_K_HEADERS_TL.SHORT_DESCRIPTION%TYPE
    ,CONTRACT_AMOUNT      Number(18,2)
    ,CONTRACT_STATUS_CODE OKC_K_HEADERS_B.STS_CODE%TYPE
    ,CONTRACT_TYPE        OKC_K_HEADERS_B.CHR_TYPE%TYPE
    ,PARTY_ID             Number
    ,TEMPLATE_YN          OKC_K_HEADERS_B.TEMPLATE_YN%TYPE
    ,TEMPLATE_USED        OKC_K_HEADERS_B.TEMPLATE_USED%TYPE
    ,DURATION             Number
    ,PERIOD_CODE          Varchar2(25)
    ,START_DATE_ACTIVE    OKC_K_HEADERS_B.START_DATE%TYPE
    ,END_DATE_ACTIVE      OKC_K_HEADERS_B.END_DATE%TYPE
    ,BILL_TO_SITE_USE_ID  Number
    ,SHIP_TO_SITE_USE_ID  Number
    ,AGREEMENT_ID         OKC_K_HEADERS_B.CHR_ID_AWARD%TYPE
    ,PRICE_LIST_ID        Number
    ,MODIFIER             Number
    ,CURRENCY_CODE        Varchar2(25)
    ,ACCOUNTING_RULE_ID   Number
    ,INVOICING_RULE_ID    Number
    ,TERMS_ID             Number
    ,PO_NUMBER            OKC_K_HEADERS_B.CUST_PO_NUMBER%TYPE
    ,BILLING_PROFILE_ID   Number
    ,BILLING_FREQUENCY    Varchar2(25)
    ,BILLING_METHOD        Varchar2(3)
  )

```

```

,REGULAR_OFFSET_DAYS      Number
,FIRST_BILL_TO            Date
,FIRST_BILL_ON            Date
,AUTO_RENEW_BEFORE_DAYS   OKC_K_HEADERS_B.AUTO_RENEW_DAYS%TYPE
,QA_CHECK_LIST_ID        OKC_K_HEADERS_B.QCL_ID%TYPE
,RENEWAL_NOTE             CLOB
,TERMINATION_NOTE         CLOB
,TAX_EXEMPTION            Varchar2(450)
,TAX_STATUS               Varchar2(450)
,CONVERSION_TYPE          Varchar2(450);

```

Parameter Descriptions

The following table describes the parameters associated with this data structure.

Table 2–15 *hdr_rec_type - Parameters*

Parameter	Data Type	Description
org_id	NUMBER	Org ID
contract_id	NUMBER	Contract Header ID
contract_number	VARCHAR2	Contract Number
short_description	VARCHAR2	Short Description
contract_amount	NUMBER	Contract Amount
contract_status_code	VARCHAR2	Contract Status Code
contract_type	VARCHAR2	Contract Type
party_id	NUMBER	Party ID
template_yn	VARCHAR2	Y/N
template_used	VARCHAR2	Contract Template Name
duration	NUMBER	Contract Duration
period_code	NUMBER	Period Code
start_date_active	DATE	Start Date Active
end_date_active	DATE	End Date Active
bill_to_site_use_id	NUMBER	Bill To Site Use ID
ship_to_site_use_id	NUMBER	Ship To Site Use ID
agreement_id	NUMBER	Agreement ID

Table 2–15 *hdr_rec_type - Parameters*

Parameter	Data Type	Description
price_list_id	NUMBER	Price List ID
modifier	NUMBER	Contract Number Modifier
currency_code	VARCHAR2	Currency Code
accounting_rule_id	NUMBER	Accounting Rule ID
invoicing_rule_id	NUMBER	Invoicing Rule ID
terms_id	NUMBER	Terms ID
po_number	VARCHAR2	Purchase Order Number
billing_profile_id	NUMBER	Billing Profile ID
billing_frequency	VARCHAR2	Billing Frequency
billing_method	VARCHAR2	Billing Method
regular_offset_days	NUMBER	Regular Offset Days
first_bill_to	DATE	First Bill To Date
first_bill_on	DATE	First Bill On Date
auto_renew_before_days	NUMBER	Auto Renew Before Days
qa_check_list_id	NUMBER	QA Check List ID
renewal_note	CLOB	Renewal Note
termination_note	CLOB	Termination Note
tax_exemption	VARCHAR2	Tax Exemption
tax_status	VARCHAR2	Tax Status
conversion_type	VARCHAR2	Conversion Type

2.2.5 Get Contract Details

This API returns the contract line information for any combination of input parameter as explained in API Signature section.

Procedure Specification

```
PROCEDURE get_contract_details
    (p_api_version          IN  Number
    ,p_init_msg_list       IN  Varchar2
```

```

,p_contract_line_id    IN  Number
,x_return_status      OUT NOCOPY Varchar2
,x_msg_count          OUT NOCOPY Number
,x_msg_data           OUT NOCOPY Varchar2
,x_all_lines          OUT NOCOPY line_tbl_type);

```

Current Version

1.0

Parameter Descriptions

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

Table 2–16 Get Contract Details - IN Parameters

Parameter	Data Type	Required	Description and Validations
p_api_version	NUMBER	Yes	Standard IN Parameter
p_init_msg_list	VARCHAR2	Yes	Standard IN Parameter
p_contract_line_id	NUMBER	Yes	Contract Line ID

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

Table 2–17 Get Contract Details - OUT Parameters

Parameter	Data Type	Description
x_return_status	VARCHAR2	Standard OUT Parameter
x_msg_count	NUMBER	Standard OUT Parameter
x_msg_data	VARCHAR2	Standard OUT Parameter
x_all_lines	line_tbl_type	Contract line information. See the Data Structure Specification: line_tbl_type

2.2.5.1 line_tbl_type

Record Specification

```

TYPE line_tbl_type IS TABLE OF line_rec_type
INDEX BY BINARY_INTEGER;
TYPE line_rec_type IS RECORD

```

```

(CONTRACT_LINE_ID          OKC_K_LINES_B.ID%TYPE
 ,CONTRACT_PARENT_LINE_ID OKC_K_LINES_B.CLE_ID%TYPE
 ,CONTRACT_ID              OKC_K_LINES_B.CHR_ID%TYPE
 ,LINE_STATUS_CODE        OKC_K_LINES_B.STS_CODE%TYPE
 ,DURATION                 Number
 ,PERIOD_CODE              Varchar2(25)
 ,START_DATE_ACTIVE        OKC_K_HEADERS_B.START_DATE%TYPE
 ,END_DATE_ACTIVE          OKC_K_HEADERS_B.END_DATE%TYPE
 ,LINE_NAME                 Varchar2(150)
 ,BILL_TO_SITE_USE_ID      Number
 ,SHIP_TO_SITE_USE_ID      Number
 ,AGREEMENT_ID             OKC_K_HEADERS_B.CHR_ID_AWARD%TYPE
 ,MODIFIER                  Number
 ,PRICE_LIST_ID            Number
 ,PRICE_NEGOTIATED         OKC_K_LINES_B.PRICE_NEGOTIATED%TYPE
 ,BILLING_PROFILE_ID       Number
 ,BILLING_FREQUENCY        Varchar2(25)
 ,BILLING_METHOD           Varchar2(3)
 ,REGULAR_OFFSET_DAYS      Number
 ,FIRST_BILL_TO            Date
 ,FIRST_BILL_ON            Date
 ,TERMINATION_DATE         Date);

```

Parameter Descriptions

The following table describes the parameters associated with this data structure.

Table 2-18 *line_rec_type - Parameters*

Parameter	Data Type	Description
contract_line_id	NUMBER	Contract Line ID
contract_parent_line_id	NUMBER	Contract Parent Line ID
contract_id	NUMBER	Contract Header ID
line_status_code	VARCHAR2	Line Status Code
duration	NUMBER	Duration
period_code	VARCHAR2	Period Code
start_date_active	DATE	Start Date Active
end_date_active	DATE	End Date Active
line_name	VARCHAR2	Line Name
bill_to_site_use_id	NUMBER	Bill To Site Use Id

Table 2–18 *line_rec_type - Parameters*

Parameter	Data Type	Description
ship_to_site_use_id	NUMBER	Ship To Site Use Id
agreement_id	NUMBER	Agreement Id
modifier	NUMBER	Modifier
price_list_id	NUMBER	Price List Id
price_negotiated	NUMBER	Price Negotiated
billing_profile_id	NUMBER	Billing Profile Id
billing_frequency	VARCHAR2	Billing Frequency
billing_method	VARCHAR2	Billing Method
regular_offset_days	NUMBER	Regular Offset Days
first_bill_to	DATE	First Bill To
first_bill_on	DATE	First Bill On
termination_date	DATE	Termination Date

2.2.6 Get Contracts

This is an over loaded API which returns contract information for different Coverage Levels such as Party, Customer, Site, System, Item, and Product. If the input parameter `validate_flag` is set to 'Y', request date is checked against the Date Effectivity and only those contract covered level lines eligible for entitlements are returned. This API also returns the coverage type and associated importance level information.

Procedure Specification

```
PROCEDURE get_contracts
    (p_api_version           IN Number
    ,p_init_msg_list         IN Varchar2
    ,p_inp_rec               IN inp_cont_rec
    ,x_return_status        OUT NOCOPY Varchar2
    ,x_msg_count            OUT NOCOPY Number
    ,x_msg_data             OUT NOCOPY Varchar2
    ,x_ent_contracts        OUT NOCOPY ent_cont_tbl);
```

Current Version

1.0

Parameter Descriptions

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

Table 2–19 *Get Contracts - IN Parameters*

Parameter	Data Type	Required	Description and Validations
p_api_version	NUMBER	Yes	Standard IN Parameter
p_init_msg_list	VARCHAR2	Yes	Standard IN Parameter
p_inp_rec	inp_cont_rec	Yes	Input record. See the Data Structure Specification: inp_cont_rec

2.2.6.1 inp_cont_rec

Record Specification

```

TYPE inp_cont_rec IS RECORD
  (contract_number          OKC_K_HEADERS_B.CONTRACT_NUMBER%TYPE
  ,coverage_level_line_id  Number
  ,party_id                Number
  ,site_id                 Number
  ,cust_acct_id            Number
  ,system_id               Number
  ,item_id                 Number
  ,product_id              Number
  ,request_date            Date
  ,validate_flag           Varchar2(1));

```

Parameter Descriptions

The following table describes the parameters associated with this data structure.

Table 2–20 *inp_cont_rec - Parameters*

Parameter	Data Type	Required	Description
contract_number	VARCHAR2	No	Contract Number
coverage_level_line_id	NUMBER	No	Coverage Level Line Id

Table 2–20 *inp_cont_rec - Parameters*

Parameter	Data Type	Required	Description
party_id	NUMBER	No	Party Id
site_id	NUMBER	No	Site Id
cust_acct_id	NUMBER	No	Cust Acct Id
system_id	NUMBER	No	System Id
item_id	NUMBER	No	Item Id
product_id	NUMBER	No	Product Id
request_date	DATE	No	Request Date. The Default is sysdate.
validate_flag	VARCHAR2	No	Validate Flag Y/N. Valid values are 'Y' or 'N'. Default is 'N'. If 'Y' is passed as input only Valid records are returned.

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

Table 2–21 *Get Contracts - OUT Parameters*

Parameter	Data Type	Description
x_return_status	VARCHAR2	Standard OUT Parameter
x_msg_count	NUMBER	Standard OUT Parameter
x_msg_data	VARCHAR2	Standard OUT Parameter
x_ent_contracts	ent_cont_tbl	Contract information. See the Data Structure Specification: ent_cont_tbl .

2.2.6.2 ent_cont_tbl

Record Specification

```

TYPE ent_cont_tbl IS TABLE OF ent_cont_rec
INDEX BY BINARY_INTEGER;
TYPE ent_cont_rec IS RECORD
(contract_id           Number
 ,contract_number     OKC_K_HEADERS_B.CONTRACT_NUMBER%TYPE
 ,service_line_id     Number

```

```

,service_name           OKC_K_LINES_V.NAME%TYPE
,service_description    OKC_K_LINES_V.ITEM_DESCRIPTION%TYPE
,coverage_term_line_id  Number
,Coverage_term_name     OKC_K_LINES_V.NAME%TYPE
,coverage_term_description OKC_K_LINES_V.ITEM_DESCRIPTION%TYPE
,coverage_level_line_id Number
,coverage_level         OKC_LINE_STYLES_TL.NAME%TYPE
,coverage_level_code    OKC_LINE_STYLES_B.LTY_CODE%TYPE
,coverage_level_start_date Date
,coverage_level_End_date Date
,coverage_level_id      Number
,warranty_flag          Varchar2(1)
,eligible_for_entitlement Varchar2(1);

```

Parameter Descriptions

The following table describes the parameters associated with this data structure.

Table 2–22 *ent_cont_rec - Parameters*

Parameter	Data Type	Description
contract_id	NUMBER	Contract Id
contract_number	VARCHAR2	Contract Number
service_line_id	NUMBER	Service Line Id
service_name	VARCHAR2	Service Name
service_description	VARCHAR2	Service Description
coverage_term_line_id	NUMBER	Coverage Term Line Id
Coverage_term_name	VARCHAR2	Coverage Term Name
coverage_term_description	VARCHAR2	Coverage Term Description
coverage_level_line_id	NUMBER	Coverage Level Line Id
coverage_level	VARCHAR2	Coverage Level
coverage_level_code	VARCHAR2	Coverage Level Code
coverage_level_start_date	DATE	Coverage Level Start Date
coverage_level_End_date	DATE	Coverage Level End Date
coverage_level_id	NUMBER	Coverage Level Id
warranty_flag	VARCHAR2	Warranty Flag
eligible_for_entitlement	VARCHAR2	Eligible For Entitlement

2.2.7 Get Contracts

This is an over loaded API which returns contract information for different combination of Service, Extended Warranty or Warranty, Coverage Levels such as Party, Customer, Site, System, Item or Product and Business Processes. If the input parameter `validate_flag` is 'Y', request date is checked against Date Effectivity and only those contract service lines eligible for entitlements are returned. The output table will be sorted in the order of ascending resolution time. The `Sort_key` accepts values 'RCN', 'RSN', or 'COVTYP_IMP' for sorting the output result based on reaction time, resolution time, or coverage importance level respectively. The output table of records returns coverage type, its importance level, service PO number, Service PO required flag, Contract Header Currency Code and Preventive Maintenance (PM) program Id and PM schedule exists flag.

Procedure Specification

```
PROCEDURE get_contracts
    (p_api_version          IN Number
    ,p_init_msg_list       IN Varchar2
    ,p_inp_rec             IN get_contin_rec
    ,x_return_status      OUT NOCOPY Varchar2
    ,x_msg_count          OUT NOCOPY Number
    ,x_msg_data           OUT NOCOPY Varchar2
    ,x_ent_contracts      OUT NOCOPY get_contop_tbl);
```

Current Version

1.0

Parameter Descriptions

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

Table 2–23 Get Contracts - IN Parameters

Parameter	Data Type	Required	Description and Validations
<code>p_api_version</code>	NUMBER	Yes	Standard IN Parameter
<code>p_init_msg_list</code>	VARCHAR2	Yes	Standard IN Parameter
<code>p_inp_rec</code>	<code>get_contin_rec</code>	Yes	Input record. See the Data Structure Specification: get_contin_rec

2.2.7.1 get_contin_rec

Record Specification

```

TYPE get_contin_rec IS RECORD
  (contract_number      OKC_K_HEADERS_B.CONTRACT_NUMBER%TYPE
  ,service_line_id     Number
  ,party_id            Number
  ,site_id             Number
  ,cust_acct_i         Number
  ,system_id           Number
  ,item_id             Number
  ,product_id          Number
  ,request_date        Date
  ,business_process_id Number
  ,severity_id         Number
  ,time_zone_id        Number
  ,calc_resptime_flag  Varchar2(1)
  ,validate_flag       Varchar2(1));

```

Parameter Descriptions

The following table describes the parameters associated with this data structure.

Table 2–24 *get_contin_rec - Parameters*

Parameter	Data Type	Required	Description
contract_number	VARCHAR2	No	Contract Number
service_line_id	NUMBER	Yes	Service Line Id. This input is required if input contract_number is also passed.
party_id	NUMBER	No	Party Id
site_id	NUMBER	No	Site Id
cust_acct_i	NUMBER	No	Customer Account Id
system_id	NUMBER	No	System Id
item_id	NUMBER	No	Item Id
product_id	NUMBER	No	Product Id
request_date	DATE	No	Request Date
business_process_id	NUMBER	Yes	Business Process Id - Required if calc_resptime_flag is Y.

Table 2–24 *get_contin_rec - Parameters*

Parameter	Data Type	Required	Description
severity_id	NUMBER	Yes	Severity Id - Required if calc_resptime_flag is Y.
time_zone_id	NUMBER	Yes	Time Zone Id - Required if calc_resptime_flag is Y.
calc_resptime_flag	VARCHAR2	No	Calculate Reaction and Resolution Time Flag Y/N. Valid values are 'Y' or 'N'
validate_flag	VARCHAR2	No	Validate Flag Y/N. See API description for more information. Valid values are 'Y' or 'N'. Default value is 'N'.
Sort_key	VARCHAR2	No	The Sort key used to sort the output table of records. This input is optional. The default sort_key used is 'RCN' for sorting based on resolution time. Sort_key accepts values 'RCN', 'RSN', or 'COVTYP_IMP' for sorting the output result based on reaction time, resolution time, or coverage importance level respectively. Default value is 'N'.

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

Table 2–25 *Get Contracts - OUT Parameters*

Parameter	Data Type	Description
x_return_status	VARCHAR2	Standard OUT Parameter
x_msg_count	NUMBER	Standard OUT Parameter
x_msg_data	VARCHAR2	Standard OUT Parameter
x_ent_contracts	get_contop_tbl	Contract information. See the Data Structure Specification: get_contop_tbl

2.2.7.2 get_contop_tbl

Record Specification

```

TYPE get_contop_tbl IS TABLE OF get_contop_rec
                        INDEX BY BINARY_INTEGER;
TYPE get_contop_rec IS RECORD
(contract_id           Number
 ,contract_number     OKC_K_HEADERS_B.CONTRACT_NUMBER%TYPE
 ,contract_number_modifier OKC_K_HEADERS_B.
                        CONTRACT_NUMBER_MODIFIER%TYPE
 ,sts_code            OKC_K_HEADERS_B.STS_CODE%TYPE
 ,service_line_id     Number
 ,service_name        OKX_SYSTEM_ITEMS_V.NAME%TYPE
 ,service_description OKX_SYSTEM_ITEMS_V.DESCRPTION%TYPE
 ,coverage_term_line_id Number
 ,coverage_term_name  OKC_K_LINES_V.NAME%TYPE
 ,coverage_term_description OKC_K_LINES_V.ITEM_DESCRIPTION%TYPE
 ,service_start_date  Date
 ,service_end_date    Date
 ,warranty_flag       Varchar2(1)
 ,eligible_for_entitlement Varchar2(1)
 ,exp_reaction_time   Date
 ,exp_resolution_time Date
 ,status_code         Varchar2(1)
 ,status_text         Varchar2(1995)
 ,date_terminated     Date
 ,PM_Program_Id       VARCHAR2(40)
 ,PM_Schedule_Exists  VARCHAR2(450)
 ,HD_Currency_code    Varchar2(15)
 ,Service_PO_Number   VARCHAR2(450)
 ,Service_PO_Required_flag VARCHAR2(1);

```

Parameter Descriptions

The following table describes the parameters associated with this data structure.

Table 2–26 *get_contop_rec - Parameters*

Parameter	Data Type	Description
contract_id	NUMBER	Contract Id
contract_number	VARCHAR2	Contract Number
contract_number_ modifier	VARCHAR2	Contract Number Modifier

Table 2–26 *get_contop_rec - Parameters*

Parameter	Data Type	Description
sts_code	VARCHAR2	Contract Status Code
service_line_id	NUMBER	Service Line Id
service_name	VARCHAR2	Service Name
service_description	VARCHAR2	Service Description
coverage_term_line_id	NUMBER	Coverage Term Line Id
coverage_term_name	VARCHAR2	Coverage Term Name
coverage_term_description	VARCHAR2	Coverage Term Description
service_start_date	NUMBER	Service Start Date
service_end_date	NUMBER	Service End Date
warranty_flag	VARCHAR2	Warranty Flag
eligible_for_entitlement	VARCHAR2	Eligible For Entitlement
exp_reaction_time	DATE	Expected Reaction Time
exp_resolution_time	DATE	Expected Resolution Time
status_code	VARCHAR2	Status Code after returning reaction and/or resolution time S - Success E - Error U - Unexpected Error.
status_text	VARCHAR2	Status Text for the above Status Code.
date_terminated	DATE	The date terminated
PM_Program ID	NUMBER	Preventive Maintenance (PM) program ID
PM_Schedule_Exists	VARCHAR2	Schedule Exists flag for the PM Program ID
HD_Currency_Code	VARCHAR2	Contract Header currency code
Service_PO_Number	VARCHAR2	Service PO number
Service_PO_Required_Flag	VARCHAR2	Flag indicates if Service PO required.

2.2.8 Get Contracts

This is an over loaded API which returns contract information for different combination of Service, Extended Warranty or Warranty, Coverage Levels such as Party, Customer, Site, System, Item or Product and Business Processes. If the input parameter `validate_flag` is 'Y', only those contract service lines eligible for entitlements are returned. The output table is sorted in the order of ascending resolution time or, Coverage type importance level based on the sort key. The output returns coverage type, coverage type importance level, and date terminated information.

Procedure Specification

```
PROCEDURE get_contracts
    (p_api_version          IN Number
    ,p_init_msg_list       IN Varchar2
    ,p_inp_rec              IN input_rec_ib
    ,x_return_status       OUT NOCOPY Varchar2
    ,x_msg_count           OUT NOCOPY Number
    ,x_msg_data            OUT NOCOPY Varchar2
    ,x_ent_contracts       OUT NOCOPY output_tbl_ib);
```

Current Version

1.0

Parameter Descriptions

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

Table 2–27 Get Contracts - IN Parameters

Parameter	Data Type	Required	Description and Validations
<code>p_api_version</code>	NUMBER	Yes	Standard IN Parameter
<code>p_init_msg_list</code>	VARCHAR2	Yes	Standard IN Parameter
<code>p_inp_rec</code>	input_rec_ib	Yes	Input record. See the Data Structure Specification: input_rec_ib

2.2.8.1 input_rec_ib

Record Specification

```

TYPE input_rec_ib IS RECORD
  (contract_number          OKC_K_HEADERS_B.CONTRACT_NUMBER%TYPE
  ,contract_number_modifier OKC_K_HEADERS_B.CONTRACT_NUMBER%TYPE
  ,service_line_id         Number
  ,party_id                Number
  ,site_id                 Number
  ,cust_acct_id            Number
  ,system_id               Number
  ,item_id                 Number
  ,product_id              Number
  ,business_process_id     Number
  ,severity_id             Number
  ,time_zone_id            Number
  ,calc_resptime_flag      Varchar2(1)
  ,validate_flag           Varchar2(1));

```

Parameter Descriptions

The following table describes the parameters associated with this data structure.

Table 2–28 *input_rec_ib - Parameters*

Parameter	Data Type	Required	Description
contract_number	VARCHAR2	No	Contract Number
contract_number_ modifier	VARCHAR2	Yes	Contract Number Modifier. This input is required if input contract_number is also passed.
service_line_id	NUMBER	No	Service Line Id
party_id	NUMBER	No	Party Id
site_id	NUMBER	No	Site Id
cust_acct_id	NUMBER	No	Customer Account Id
system_id	NUMBER	No	System Id
item_id	NUMBER	No	Item Id
product_id	NUMBER	No	Product Id
business_process_id	NUMBER	Yes	Business Process Id - Required if calc_resptime_flag is Y.

Table 2–28 *input_rec_ib - Parameters*

Parameter	Data Type	Required	Description
severity_id	NUMBER	Yes	Severity Id - Required if calc_resptime_flag is Y.
time_zone_id	NUMBER	Yes	Time Zone Id - Required if calc_resptime_flag is Y.
calc_resptime_flag	VARCHAR2	No	Calculate Reaction and Resolution Time Flag Y/N. Valid values are 'Y' or 'N'. Default value is 'N'.
validate_flag	VARCHAR2	No	Validate Flag Y/N. Valid values are 'Y' or 'N'. Default value is 'N'. See the API description for more information.

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

Table 2–29 *Get Contracts - OUT Parameters*

Parameter	Data Type	Description
x_return_status	VARCHAR2	Standard OUT Parameter
x_msg_count	NUMBER	Standard OUT Parameter
x_msg_data	VARCHAR2	Standard OUT Parameter
x_ent_contracts	output_tbl_ib	Contract information. See the Data Structure Specification output_tbl_ib .

2.2.8.2 output_tbl_ib

Record Specification

```

TYPE output_tbl_ib IS TABLE OF output_rec_ib
    INDEX BY BINARY_INTEGER;
TYPE output_rec_ib IS RECORD
    (contract_id          Number
    ,contract_number      OKC_K_HEADERS_B.CONTRACT_NUMBER%TYPE
    ,contract_number_modifier OKC_K_HEADERS_B.
        CONTRACT_NUMBER_MODIFIER%TYPE
    ,sts_code             OKC_K_HEADERS_B.STS_CODE%TYPE
    ,service_line_id      Number
    ,service_name         OKX_SYSTEM_ITEMS_V.NAME%TYPE
    ,service_description  OKX_SYSTEM_ITEMS_V.DESCRPTION%TYPE
  );

```

```

,coverage_term_line_id      Number
,coverage_term_name        OKC_K_LINES_V.NAME%TYPE
,coverage_term_description OKC_K_LINES_V.ITEM_DESCRIPTION%TYPE
,service_start_date        Date
,service_end_date          Date
,warranty_flag              Varchar2(1)
,eligible_for_entitlement    Varchar2(1)
,exp_reaction_time          Date
,exp_resolution_time        Date
,status_code                Varchar2(1)
,status_text                Varchar2(1995)
,date_terminated            date);

```

Parameter Descriptions

The following table describes the parameters associated with this data structure.

Table 2–30 *output_rec_ib - Parameters*

Parameter	Data Type	Description
contract_id	NUMBER	Contract Id
contract_number	VARCHAR2	Contract Number
contract_number_ modifier	VARCHAR2	Contract Number Modifier
sts_code	VARCHAR2	Contract Status Code
service_line_id	NUMBER	Service Line Id
service_name	VARCHAR2	Service Name
service_description	VARCHAR2	Service Description
coverage_term_line_id	NUMBER	Coverage Term Line Id
coverage_term_name	VARCHAR2	Coverage Term Name
coverage_term_ description	VARCHAR2	Coverage Term Description
Coverage_type_code	VARCHAR2	Coverage Type Code
Coverage_type_imp_ level	NUMBER	Coverage type importance level
service_start_date	DATE	Service Start Date
service_end_date	DATE	Service End Date

Table 2–30 *output_rec_ib - Parameters*

Parameter	Data Type	Description
warranty_flag	VARCHAR2	Warranty Flag
eligible_for_entitlement	VARCHAR2	Eligible For Entitlement
exp_reaction_time	DATE	Exp Reaction Time
exp_resolution_time	DATE	Exp Resolution Time
status_code	VARCHAR2	Status Code after returning reaction and/or resolution time. S - Success E - Error U - Unexpected Error.
status_text	VARCHAR2	Status Text for the above Status Code.
Date_terminated	DATE	Date Terminated

2.2.9 Get Coverage Levels

This API returns the Coverage Level such as Party, Customer, Site, System, Item and Product information for a Service, Extended Warranty or Warranty.

Procedure Specification

```
PROCEDURE get_coverage_levels
    (p_api_version          IN Number
    ,p_init_msg_list        IN Varchar2
    ,p_contract_line_id     IN Number
    ,x_return_status        OUT NOCOPY Varchar2
    ,x_msg_count            OUT NOCOPY Number
    ,x_msg_data             OUT NOCOPY Varchar2
    ,x_covered_levels       OUT NOCOPY clvl_tbl_type);
```

Current Version

1.0

Parameter Descriptions

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

Table 2–31 Get Coverage Levels - IN Parameters

Parameter	Data Type	Required	Description and Validations
p_api_version	NUMBER	Yes	Standard IN Parameter
p_init_msg_list	VARCHAR2	Yes	Standard IN Parameter
p_contract_line_id	NUMBER	Yes	Line ID of Service, Extended Warranty or Warranty.

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

Table 2–32 Get Coverage Levels - OUT Parameters

Parameter	Data Type	Description
x_return_status	VARCHAR2	Standard OUT Parameter
x_msg_count	NUMBER	Standard OUT Parameter
x_msg_data	VARCHAR2	Standard OUT Parameter
x_covered_levels	clvl_tbl_type	Coverage Level information. See the Data Structure Specification clvl_tbl_type .

2.2.9.1 clvl_tbl_type

Record Specification

```

TYPE clvl_tbl_type IS TABLE OF clvl_rec_type
    INDEX BY BINARY_INTEGER;
TYPE clvl_rec_type IS RECORD
    (ROW_ID                ROWID
    ,LINE_ID               OKC_K_LINES_B.ID%TYPE
    ,HEADER_ID            OKC_K_LINES_B.CHR_ID%TYPE
    ,PARENT_LINE_ID      OKC_K_LINES_B.CLE_ID%TYPE
    ,LINE_LEVEL          Varchar2(150)
    ,CP_ID               Number
    ,CP_NAME             Varchar2(240)
    ,INV_ITEM_ID         Number
    ,ITEM_NAME           Varchar2(240)
    ,SITE_ID            Number
    ,SITE_NAME          Varchar2(240)
    ,SYSTEM_ID          Number
  )

```

```

,SYSTEM_NAME          Varchar2 (240)
,CUSTOMER_ID          Number
,CUSTOMER_NAME        Varchar2 (240)
,PARTY_ID             Number
,PARTY_NAME           Varchar2 (500)
,QUANTITY             Number
,LIST_PRICE           Number
,PRICE_NEGOTIATED     OKC_K_LINES_B.PRICE_NEGOTIATED%TYPE
,LINE_NAME            Varchar2 (150)
,DEFAULT_AMCV_FLAG    Varchar2 (1)
,DEFAULT_QTY          Number
,DEFAULT_UOM          Varchar2 (25)
,DEFAULT_DURATION     Number
,DEFAULT_PERIOD       Varchar2 (25)
,MINIMUM_QTY          Number
,MINIMUM_UOM          Varchar2 (25)
,MINIMUM_DURATION     Number
,MINIMUM_PERIOD       Varchar2 (25)
,FIXED_QTY            Number
,FIXED_UOM            Varchar2 (25)
,FIXED_DURATION       Number
,FIXED_PERIOD         Varchar2 (25)
,LEVEL_FLAG           Varchar2 (1) ;

```

Parameter Descriptions

The following table describes the parameters associated with this data structure.

Table 2–33 *clvl_rec_type - Parameters*

Parameter	Data Type	Description
row_id	ROWID	Row Id
line_id	NUMBER	Line Id
header_id	NUMBER	Header Id
parent_line_id	NUMBER	Parent Line Id
line_level	VARCHAR2	Covered Level
cp_id	NUMBER	Customer Product Id
cp_name	VARCHAR2	Customer Product Name
inv_item_id	NUMBER	Inventory Item Id
item_name	VARCHAR2	Item Name

Table 2–33 *cvl_rec_type - Parameters*

Parameter	Data Type	Description
site_id	NUMBER	Site Id
site_name	VARCHAR2	Site Name
system_id	NUMBER	System Id
system_name	VARCHAR2	System Name
customer_id	NUMBER	Customer Id
customer_name	VARCHAR2	Customer Name
party_id	NUMBER	Party Id
party_name	VARCHAR2	Party Name
quantity	NUMBER	Quantity
list_price	NUMBER	List Price
price_negotiated	NUMBER	Price Negotiated
line_name	VARCHAR2	Line Name
default_amcv_flag	VARCHAR2	Default Amcv Flag
default_qty	NUMBER	Default Quantity
default_uom	VARCHAR2	Default UOM
default_duration	NUMBER	Default Duration
default_period	VARCHAR2	Default Period
minimum_qty	NUMBER	Minimum Quantity
minimum_uom	VARCHAR2	Minimum UOM
minimum_duration	NUMBER	Minimum Duration
minimum_period	VARCHAR2	Minimum Period
fixed_qty	NUMBER	Fixed Quantity
fixed_uom	VARCHAR2	Fixed UOM
fixed_duration	NUMBER	Fixed Duration
fixed_period	VARCHAR2	Fixed Period
level_flag	VARCHAR2	Level Flag

2.2.10 Get Contacts

This API returns the Contact information for a contract or a line.

Procedure Specification

```
PROCEDURE get_contacts
    (p_api_version          IN Number
    ,p_init_msg_list       IN Varchar2
    ,p_contract_id         IN Number
    ,p_contract_line_id    IN Number
    ,x_return_status       OUT NOCOPY Varchar2
    ,x_msg_count           OUT NOCOPY Number
    ,x_msg_data            OUT NOCOPY Varchar2
    ,x_ent_contacts        OUT NOCOPY ent_contact_tbl);
```

Current Version

1.0

Parameter Descriptions

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

Table 2–34 Get Contacts - IN Parameters

Parameter	Data Type	Required	Description and Validations
p_api_version	NUMBER	Yes	Standard IN Parameter
p_init_msg_list	VARCHAR2	Yes	Standard IN Parameter
p_contract_id	NUMBER	No	Contract Header ID. Either p_contract_id, or p_contract_line_id is required.
p_contract_line_id	NUMBER	No	Contract Line ID of Service, Extended Warranty or Warranty. Either p_contract_id, or p_contract_line_id is required.

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

Table 2–35 Get Contacts - OUT Parameters

Parameter	Data Type	Description
x_return_status	VARCHAR2	Standard OUT Parameter
x_msg_count	NUMBER	Standard OUT Parameter
x_msg_data	VARCHAR2	Standard OUT Parameter
x_ent_contacts	ent_contact_tbl	Contact information. See the Data Structure Specification ent_contact_tbl

2.2.10.1 ent_contact_tbl

Record Specification

```

TYPE ent_contact_tbl IS TABLE OF ent_contact_rec
    INDEX BY BINARY_INTEGER;
TYPE ent_contact_rec IS RECORD
    (contract_id          Number
    ,contract_line_id    Number
    ,contact_id          Number
    ,contact_name        Varchar2(50)
    ,contact_role_id     Number
    ,contact_role_code   Varchar2(30)
    ,contact_role_name   Varchar2(80) );

```

Parameter Descriptions

The following table describes the parameters associated with this data structure.

Table 2–36 ent_contact_rec - Parameters

Parameter	Data Type	Description
contract_id	NUMBER	Contract Id
contract_line_id	NUMBER	Contract Line Id
contact_id	NUMBER	Contact Id
contact_name	VARCHAR2	Contact Name
contact_role_id	NUMBER	Contact Role Id
contact_role_code	VARCHAR2	Contact Role Code
contact_role_name	VARCHAR2	Contact Role Name

2.2.11 Get Preferred Engineers

This API returns the details of Preferred Engineers for a Service, Extended Warranty or Warranty.

Procedure Specification

```
PROCEDURE get_preferred_engineers
    (p_api_version           IN  Number
    ,p_init_msg_list        IN  Varchar2
    ,p_contract_line_id     IN  Number
    ,P_business_process_id  IN  NUMBER default NULL
    ,P_request_date         IN  DATE default sysdate
    ,x_return_status       OUT NOCOPY Varchar2
    ,x_msg_count            OUT NOCOPY Number
    ,x_msg_data             OUT NOCOPY Varchar2
    ,x_prf_engineers       OUT NOCOPY prfeng_tbl_type);
```

Current Version

1.0

Parameter Descriptions

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

Table 2–37 Get Preferred Engineers - IN Parameters

Parameter	Data Type	Required	Description and Validations
p_api_version	NUMBER	Yes	Standard IN Parameter
p_init_msg_list	VARCHAR2	Yes	Standard IN Parameter
p_contract_line_id	NUMBER	Yes	Contract Line ID of a of Service, Extended Warranty or Warranty.
P_business_process_id	NUMBER	No	Business Process ID.
P_request_date	DATE	No	Request date. The default is sysdate.

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

Table 2–38 Get Preferred Engineers - OUT Parameters

Parameter	Data Type	Description
x_return_status	VARCHAR2	Standard OUT Parameter
x_msg_count	NUMBER	Standard OUT Parameter
x_msg_data	VARCHAR2	Standard OUT Parameter
x_prf_engineers	prfeng_tbl_type	Contact information. See the Data Structure Specification prfeng_tbl_type

2.2.11.1 prfeng_tbl_type

Record Specification

```

TYPE prfeng_tbl_type IS TABLE OF prfeng_rec_type
    INDEX BY BINARY_INTEGER;
TYPE prfeng_rec_type IS RECORD
    ( business_process_id number
      ,engineer_id      Number
      ,resource_type    Varchar2(30)
      ,primary_flag     varchar2(1)
      ,resource_class   varchar2(1));

```

Parameter Descriptions

The following table describes the parameters associated with this data structure.

Table 2–39 prfeng_rec_type - Parameters

Parameter	Data Type	Description
Business_process_id	NUMBER	Business process id
engineer_id	NUMBER	Engineer Id
resource_type	VARCHAR2	Resource Type
Primary_flag	VARCHAR2	Primary Flag
Resource_class	VARCHAR2	Resource Class

2.2.12 Get Coverage Type

This API returns the coverage type and importance level information for a contract line id.

Procedure Specification

```
PROCEDURE Get_Coverage_Type
  (P_API_Version      IN  NUMBER
  ,P_Init_Msg_List    IN  VARCHAR2
  ,P_Contract_Line_Id IN  NUMBER
  ,X_Return_Status    out nocopy VARCHAR2
  ,X_Msg_Count        out nocopy NUMBER
  ,X_Msg_Data         out nocopy VARCHAR2
  ,X_Coverage_Type    out nocopy CovType_Rec_Type) ;
```

Current Version

1.0

Parameter Descriptions

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

Table 2–40 Get Coverage Type - IN Parameters

Parameter	Data Type	Required	Description and Validations
p_api_version	NUMBER	Yes	Standard IN Parameter
p_init_msg_list	VARCHAR2	Yes	Standard IN Parameter
p_contract_line_id	NUMBER	Yes	Contract Line ID of a of Service, Extended Warranty or Warranty

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

Table 2–41 Get Coverage Type - OUT Parameters

Parameter	Data Type	Description and Validations
x_return_status	VARCHAR2	Standard OUT Parameter
x_msg_count	NUMBER	Standard OUT Parameter
x_msg_data	VARCHAR2	Standard OUT Parameter

Table 2–41 Get Coverage Type - OUT Parameters

Parameter	Data Type	Description and Validations
x_coverage_type	Covtype_rec_type	Coverage type information. See the Data Structure Specification: covtype_rec_type

2.2.12.1 covtype_rec_type

Record Specification

```
TYPE CovType_Rec_Type IS RECORD
  (Code           Oks_Cov_Types_B.Code%TYPE
  ,Meaning        Oks_Cov_Types_TL.Meaning%TYPE
  ,Importance_Level Oks_Cov_Types_B.Importance_Level%TYPE);
```

Parameter Descriptions

The following table describes the parameters associated with this data structure.

Table 2–42 covtype_rec_type - Parameters

Parameter	Data Type	Description
Code	VARCHAR2	Coverage Type Code
Meaning	VARCHAR2	Coverage Type Meaning
Importance_level	NUMBER	Coverage type Importance Level

2.2.13 Get Cov Txn Groups

This API returns the business process line level information in the coverage based on the business process setup done for a given input of contract line id.

Procedure Specification

```
PROCEDURE Get_cov_txn_groups
  (p_api_version IN Number
  ,p_init_msg_list IN Varchar2
  ,p_inp_rec_bp IN inp_rec_bp
  ,x_return_status out nocopy Varchar2
  ,x_msg_count out nocopy Number
  ,x_msg_data out nocopy Varchar2
```

```
,x_cov_txn_grp_linesout nocopy output_tbl_bp);
```

Current Version

1.0

Parameter Descriptions

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

Table 2–43 Get Cov Txn Groups - IN Parameters

Parameter	Data Type	Required	Description and Validations
p_api_version	NUMBER	Yes	Standard IN Parameter
p_init_msg_list	VARCHAR2	Yes	Standard IN Parameter
p_inp_rec_bp	Inp_rec_bp	Yes	Contract line information. See the Data Structure Specification: inp_rec_bp

2.2.13.1 inp_rec_bp

Record Specification

```
TYPE INP_REC_BP IS RECORD
  (contract_line_id      NUMBER
  ,check_bp_def         VARCHAR2(1)
  ,sr_enabled           VARCHAR2(1)
  ,dr_enabled           VARCHAR2(1)
  ,fs_enabled           VARCHAR2(1));
```

Parameter Descriptions

The following table describes the parameters associated with this data structure.

Table 2–44 input_rec_bp - Parameters

Parameter	Data Type	Required	Description
contract_line_id	NUMBER	Yes	Contract line id
Check_bp_def	VARCHAR2	No	Check Business process definition

Table 2–44 *input_rec_bp - Parameters*

Parameter	Data Type	Required	Description
Sr_enabled	VARCHAR2	No	Flag to check if business process is setup for service request
Dr_enabled	VARCHAR2	No	Flag to check if business process is setup for depot repair
Dr_enabled	VARCHAR2	No	Flag to check if business process is setup for field service

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

Table 2–45 *Get Cov Txn Groups - OUT Parameters*

Parameter	Data Type	Description
x_return_status	VARCHAR2	Standard OUT Parameter
x_msg_count	NUMBER	Standard OUT Parameter
x_msg_data	VARCHAR2	Standard OUT Parameter
x_cov_txn_grp_lines	Output_tbl_bp	Coverage Business process line level information. See the Data Structure Specification: output_tbl_bp

2.2.13.2 output_tbl_bp

Record Specification

```

TYPE output_tbl_bp IS TABLE OF output_rec_bp INDEX BY BINARY_INTEGER;
TYPE output_rec_bp IS RECORD
  (cov_txn_grp_line_id  NUMBER
  ,bp_id                number
  ,start_date          date
  ,end_date            date);

```

Parameter Descriptions

The following table describes the parameters associated with this data structure.

Table 2–46 *output_tbl_bp - Parameters*

Parameter	Data Type	Description
Cov_txn_group_line_id	NUMBER	Business process line id in the coverage
Bp_id	NUMBER	Business process id
Start_date	DATE	Business process line start date
End date	DATE	Business process line end date

2.2.14 Get Txn Billing Types

This API returns the service activity billing type line level information and labor bill rate level information in the coverage based on the coverage business process line id (transaction group line id).

Procedure Specification

```

PROCEDURE Get_txn_billing_types
  (p_api_version          IN Number
  ,p_init_msg_list       IN Varchar2
  ,p_cov_txngrp_line_id  IN Number
  ,p_return_bill_rates_YN IN Varchar2
  ,x_return_status       out nocopy Varchar2
  ,x_msg_count           out nocopy Number
  ,x_msg_data            out nocopy Varchar2
  ,x_txn_bill_types      out nocopy output_tbl_bt
  ,x_txn_bill_rates      out nocopy output_tbl_br);

```

Current Version

1.0

Parameter Descriptions

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

Table 2–47 *Get Txn Billing Types - IN Parameters*

Parameter	Data Type	Required	Description and Validations
p_api_version	NUMBER	Yes	Standard IN Parameter
p_init_msg_list	VARCHAR2	Yes	Standard IN Parameter

Table 2–47 Get Txn Billing Types - IN Parameters

Parameter	Data Type	Required	Description and Validations
p_cov_txngrp_line_id	NUMBER	Yes	Coverage transaction group line id
P_return_bill_rates_yn	VARCHAR2	Yes	Flag to indicate if labor bill rates to be returned as output. Valid values are 'Y' or, 'N'.

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

Table 2–48 Get Txn Billing Types - OUT Parameters

Parameter	Data Type	Description
x_return_status	VARCHAR2	Standard OUT Parameter
x_msg_count	NUMBER	Standard OUT Parameter
x_msg_data	VARCHAR2	Standard OUT Parameter
x_txn_bill_types	Output_tbl_bt	Coverage service activity billing type line level information. See the Data Structure Specification: output_tbl_bt
X_txn_bill_rates	Output_tbl_br	Coverage labor bill rate line level information. See the Data Structure Specification: output_tbl_br

2.2.14.1 output_tbl_bt

Record Specification

```
TYPE output_tbl_bt IS TABLE OF output_rec_bt INDEX BY BINARY_INTEGER;
```

```
TYPE output_rec_bt IS RECORD
(Txn_BT_line_id      NUMBER
 ,txn_bill_type_id   Number
 ,Covered_upto_amount Number
 ,percent_covered   Number);
```

Parameter Descriptions

The following table describes the parameters associated with this data structure.

Table 2–49 *output_tbl_bt- Parameters*

Parameter	Data Type	Description
txn_bt_line_id	NUMBER	Coverage Service activity billing type line id
Txn_bill_type_id	NUMBER	Service activity billing type id
Covered_upto_amount	NUMBER	The amount covered by the Coverage Service activity billing type line id
Percent_covered	NUMBER	The percent covered by the Coverage Service activity billing type line id

2.2.14.2 output_tbl_br

Record Specification

```

TYPE output_tbl_br IS TABLE OF output_rec_br INDEX BY BINARY_INTEGER;
TYPE output_rec_br IS RECORD
    (BT_line_id           NUMBER
    ,Br_line_id           NUMBER
    ,Br_schedule_id      NUMBER
    ,bill_rate            VARCHAR2(30)
    ,flat_rate            NUMBER
    ,uom                  VARCHAR2(30)
    ,percent_over_list_price NUMBER
    ,start_hour           NUMBER
    ,start_minute         NUMBER
    ,end_hour             NUMBER
    ,end_minute           NUMBER
    ,monday_flag          VARCHAR2(1)
    ,tuesday_flag         VARCHAR2(1)
    ,wednesday_flag       VARCHAR2(1)
    ,thursday_flag        VARCHAR2(1)
    ,friday_flag           VARCHAR2(1)
    ,saturday_flag        VARCHAR2(1)
    ,sunday_flag          VARCHAR2(1)
    ,labor_item_org_id    number
    ,labor_item_id        number
    ,holiday_yn           VARCHAR2(1));

```

Parameter Descriptions

The following table describes the parameters associated with this data structure.

Table 2–50 *output_tbl_br- Parameters*

Parameter	Data Type	Description
bt_line_id	NUMBER	Coverage Service activity billing type line id
Br_line_id	NUMBER	Coverage labor bill rate line id
Br_schedule_id	NUMBER	Coverage labor bill rate schedule id
Bill_rate	VARCHAR2	Labor bill rate code
Flat rate	NUMBER	Flat rate for labor bill rate code
UOM	VARCHAR2	UOM
Percent_over_list_price	NUMBER	Percent over list price
Start_hour	NUMBER	Labor bill rate schedule start hour
Start_minute	NUMBER	Labor bill rate schedule start minute
End_hour	NUMBER	Labor bill rate schedule end hour
End_minute	NUMBER	Labor bill rate schedule end minute
Monday_flag	VARCHAR2	Flag indicating if Labor bill rate schedule is applicable for Monday
Tuesday_flag	VARCHAR2	Flag indicating if Labor bill rate schedule is applicable for Tuesday
Wednesday_flag	VARCHAR2	Flag indicating if Labor bill rate schedule is applicable for Wednesday
Thursday_flag	VARCHAR2	Flag indicating if Labor bill rate schedule is applicable for Thursday
Friday_flag	VARCHAR2	Flag indicating if Labor bill rate schedule is applicable for Friday
Saturday_flag	VARCHAR2	Flag indicating if Labor bill rate schedule is applicable for Saturday

Table 2–50 output_tbl_br- Parameters

Parameter	Data Type	Description
Sunday_flag	VARCHAR2	Flag indicating if Labor bill rate schedule is applicable for Sunday
Labor_item_org_id	NUMBER	Inventory Labor item organization id for the Labor bill rate schedule
Labor_item_id	NUMBER	Inventory Labor item id for the Labor bill rate schedule
Holiday_YN	VARCHAR2	Flag indicating if Labor bill rate schedule is applicable for holidays

2.2.15 Get Contracts Expiration

This API returns the expiration details, that is, contract end date, contract grace period and duration, for a given contract id.

Procedure Specification

```
PROCEDURE Get_Contracts_Expiration
(p_api_version          IN Number
,p_init_msg_list       IN Varchar2
,p_contract_id         IN Number
,x_return_status       out nocopy Varchar2
,x_msg_count           out nocopy Number
,x_msg_data            out nocopy Varchar2
,x_contract_end_date   out nocopy date
,x_Contract_Grace_Duration out nocopy number
,x_Contract_Grace_Period out nocopy VARCHAR2);
```

Current Version

1.0

Parameter Descriptions

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

Table 2–51 Get_Contracts Expiration - IN Parameters

Parameter	Data Type	Required	Description and Validations
p_api_version	NUMBER	Yes	Standard IN Parameter
p_init_msg_list	VARCHAR2	Yes	Standard IN Parameter
p_contract_id	NUMBER	Yes	Contract Id

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

Table 2–52 Get_Contracts Expiration - OUT Parameters

Parameter	Data Type	Description
x_return_status	VARCHAR2	Standard OUT Parameter
x_msg_count	NUMBER	Standard OUT Parameter
x_msg_data	VARCHAR2	Standard OUT Parameter
x_contract_end_date	DATE	Contract End date
x_contract_grace_duration	NUMBER	Contract grace duration
x_contract_grace_period	VARCHAR2	Contract grace period

2.2.16 Validate Contract line

This API returns if the contract line id is valid for the given input of covered level table of records and the business process id.

Procedure Specification

```

PROCEDURE VALIDATE_CONTRACT_LINE
  (p_api_version           IN NUMBER
  ,p_init_msg_list        IN VARCHAR2
  ,p_contract_line_id     IN NUMBER
  ,p_busiproc_id          IN NUMBER
  ,p_request_date         IN DATE
  ,p_covlevel_tbl_in      IN covlevel_tbl_type
  ,p_verify_combination   IN VARCHAR2
  ,x_return_status        out nocopy Varchar2
  ,x_msg_count            out nocopy Number
  ,x_msg_data             out nocopy Varchar2
  ,x_covlevel_tbl_out     OUT NOCOPY covlevel_tbl_type
  ,x_combination_valid    OUT NOCOPY VARCHAR2);

```

Current Version

1.0

Parameter Descriptions

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

Table 2–53 Validate Contract Line - IN Parameters

Parameter	Data Type	Required	Description and Validations
p_api_version	NUMBER	Yes	Standard IN Parameter
p_init_msg_list	VARCHAR2	Yes	Standard IN Parameter
p_contract_line_id	NUMBER	Yes	Contract line Id
P_busiproc_id	NUMBER	Yes	Business process ID
P_request_date	DATE	No	Request date.Default is sysdate.
P_covlevel_tbl_in	Covlevel_tbl_type	Yes	Covered level code and id. See the Data Structure Specification: covlevel_tbl_type
P_verify_combination	VARCHAR2	No	Default 'N'. If 'Y', then the procedure checks if all the covered level records passed as input in p_covlevel_tbl_in are valid and p_busiproc_id is valid for the p_contract_line_id

2.2.16.1 covlevel_tbl_type

Record Specification

```
TYPE covlevel_tbl_type IS TABLE OF COVLEVEL_REC INDEX BY BINARY_INTEGER ;
```

```
TYPE COVLEVEL_REC IS RECORD
(covlevel_code          VARCHAR2(50) ,
 covlevel_id           NUMBER,
 inv_org_id            NUMBER,
 covered_yn            VARCHAR2(1) );
```


Parameter Descriptions

The following table describes the parameters associated with this data structure.

Table 2–54 covlevel_tbl_type - Parameters

Parameter	Data Type	Description
Covlevel_code	VARCHAR2	Covered level code. This input is required. The covered level codes are: For install base customer product; 'OKX_CUSTPROD', for inventory item; 'OKX_COVITEM', for install base system; 'OKX_COVSYST', for customer account; 'OKX_CUSTACCT', for customer party site; 'OKX_PARTYSITE', for customer party; 'OKX_PARTY'
Covlevel_id	NUMBER	Covered level Id corresponding to covlevel code. This input is required. For example, The covered level id would be an install base item instance id, if covered_level_code = 'OKX_CUSTPROD'
Inv_org_id	NUMBER	Inventory_organization_id. This Input is required if input covlevel_code is passed as 'OKX_COVITEM'.
Covered_yn	VARCHAR2	Not Used in the input record. This is used while returning the output. Same data structure is used both for input and output.

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

Table 2–55 Validate Contract line - OUT Parameters

Parameter	Data Type	Description
x_return_status	VARCHAR2	Standard OUT Parameter
x_msg_count	NUMBER	Standard OUT Parameter
x_msg_data	VARCHAR2	Standard OUT Parameter
x_covlevel_tbl_out	Covlevel_tbl_type	Covered level code and id passed as input is returned with covered_yn information. See the Data Structure Specification: covlevel_tbl_type
X_combination_valid	VARCHAR2	Returns 'Y' or 'N'. If 'Y', means all of the records in the input p_covlvl_tbl_in and the p_busiproc_id is valid.

2.2.16.2 covlevel_tbl_type

Record Specification

```
TYPE covlevel_tbl_type IS TABLE OF COVLEVEL_REC INDEX BY BINARY_INTEGER ;
```

```
TYPE COVLEVEL_REC IS RECORD
(covlevel_code          VARCHAR2(50) ,
 covlevel_id           NUMBER,
 inv_org_id            NUMBER,
 covered_yn            VARCHAR2(1) );
```

Parameter Descriptions

The following table describes the parameters associated with this data structure.

Table 2–56 covlevel_tbl_type - Parameters

Parameter	Data Type	Description
Covlevel_code	VARCHAR2	Covered level code. Input is returned as it is.
Covlevel_id	NUMBER	Covered level Id corresponding to covlevel code. Input is returned as it is.
Inv_org_id	NUMBER	Inventory_organization_id for covlevel_code = 'OKX_COVITEM'. Input is returned as it is.
Covered_yn	VARCHAR2	returns 'Y' or 'N'. 'Y' means for the given contract_line_id this particular covered level record is valid.

2.3 Package OKS_CON_COVERAGE_PUB

The Apply Contract Coverage APIs consist of the following procedures:

- [Apply Contract Coverage](#)
- [Get BP Pricelist](#)

2.3.1 Apply Contract Coverage

This API returns the discounted amount for a Service or Extended Warranty based on the Discount Amount and Percentage Covered, specified in the Service Contract coverage terms for a specific business process. Instead of passing txn_group_id as

an input, user must pass the combination of `business_process_id` and `request_date`. The `txn_group_id` is retained for backward compatibility purpose only.

Procedure Specification

```
PROCEDURE apply_contract_coverage
    (p_api_version          IN Number
    ,p_init_msg_list       IN Varchar2
    ,p_est_amt_tbl         IN ser_tbl_type
    ,x_return_status       OUT NOCOPY Varchar2
    ,x_msg_count           OUT NOCOPY Number
    ,x_msg_data            OUT NOCOPY Varchar2
    ,x_est_discounted_amt_tbl OUT NOCOPY cov_tbl_type);
```

Current Version

1.0

Parameter Descriptions

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

Table 2–57 Apply Contract Coverage - IN Parameters

Parameter	Data Type	Required	Description and Validations
<code>p_api_version</code>	NUMBER	Yes	Standard IN Parameter
<code>p_init_msg_list</code>	VARCHAR2	Yes	Standard IN Parameter
<code>p_est_amt_tbl</code>	<code>ser_tbl_type</code>	Yes	Input table of records. See the Data Structure Specification: ser_tbl_type

2.3.1.1 ser_tbl_type

Input table for `apply_contract_coverage`.

Record Specification

```
TYPE ser_tbl_type IS TABLE OF ser_rec_type
    INDEX BY BINARY_INTEGER;
TYPE ser_rec_type IS RECORD
    (charges_line_number Number
    ,estimate_detail_id Number
    ,contract_line_id Number
    ,txn_group_id Number
```

```
,billing_type_id      Number
,charge_amount       Number);
```

Parameter Descriptions

The following table describes the parameters associated with this data structure.

Table 2–58 *ser_tbl_type - Parameters*

Parameter	Data Type	Description
charges_line_number	NUMBER	Charges Line Number.This input is Optional.
estimate_detail_id	NUMBER	Estimate Detail Id.This input is Optional.
contract_line_id	NUMBER	Contract Line Id.This input is Required.
txn_group_id	NUMBER	Txn Group Id.This is kept for backward compatibility. Instead, please pass input Business process id
Business_process_id	NUMBER	Business process id.This input is required.
Request date	DATE	Request date.This input is Optional.Default is sysdate.
billing_type_id	NUMBER	Billing Type Id.This input is required.
charge_amount	NUMBER	Charge Amount.This input is required.

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

Table 2–59 *Apply Contract Coverage - OUT Parameters*

Parameter	Data Type	Description
x_return_status	VARCHAR2	Standard OUT Parameter
x_msg_count	NUMBER	Standard OUT Parameter
x_msg_data	VARCHAR2	Standard OUT Parameter
x_est_discounted_acmt_tb1	cov_tbl_type	Output table of records. See the Data Structure Specification cov_tbl_type

2.3.1.2 cov_tbl_type

Record Specification

```

TYPE cov_tbl_type IS TABLE OF cov_rec_type
                    INDEX BY BINARY_INTEGER;
TYPE cov_rec_type IS RECORD
  (charges_line_number Number
  ,estimate_detail_id  Number
  ,contract_line_id    Number
  ,txn_group_id        Number
  ,billing_type_id     Number
  ,discounted_amount   Number
  ,status              Varchar2(1));

```

Parameter Descriptions

The following table describes the parameters associated with this data structure.

Table 2-60 *cov_tbl_type - Parameters*

Parameter	Data Type	Description
charges_line_number	NUMBER	Charges Line Number
estimate_detail_id	NUMBER	Estimate Detail Id
contract_line_id	NUMBER	Contract Line Id
txn_group_id	NUMBER	Txn Group Id
Business_process_id	NUMBER	Business process id
Request date	DATE	Request date
billing_type_id	NUMBER	Billing Type Id
discounted_amount	NUMBER	Discounted Amount
status	VARCHAR2	Status of returning records. T - Discount defined in coverage. F - Discount not defined in coverage

2.3.2 Get BP Pricelist

This API returns the price list and discount at the coverage business process level and the price list at the contract header level for a contract_lien_id, business_process_id, and request date.

Procedure Specification

```

PROCEDURE get_bp_pricelist
(p_api_version          IN  Number
,p_init_msg_list       IN  Varchar2
,p_Contract_line_id    IN  NUMBER
,p_business_process_id IN  NUMBER
,p_request_date        IN  DATE
,x_return_status       OUT NOCOPY Varchar2
,x_msg_count           OUT NOCOPY Number
,x_msg_data            OUT NOCOPY Varchar2
,x_pricing_tbl         OUT NOCOPY PRICING_TBL_TYPE );

```

Current Version

1.0

Parameter Descriptions

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

Table 2–61 Get BP Pricelist - IN Parameters

Parameter	Data Type	Required	Description and Validations
p_api_version	NUMBER	Yes	Standard IN Parameter
p_init_msg_list	VARCHAR2	Yes	Standard IN Parameter
P_contract_line_id	NUMBER	Yes	Contract line Id
P_business_process_id	NUMBER	Yes	Business process ID
P_request_date	DATE	No	Default is sysdate.

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

Table 2–62 Get BP Pricelist - OUT Parameters

Parameter	Data Type	Description
x_return_status	VARCHAR2	Standard OUT Parameter
x_msg_count	NUMBER	Standard OUT Parameter
x_msg_data	VARCHAR2	Standard OUT Parameter

Table 2–62 Get BP Pricelist - OUT Parameters

Parameter	Data Type	Description
X_pricing_tbl	Pricing_tbl_type	Price list information. See the Data Structure Specification: pricing_tbl_type

2.3.2.1 pricing_tbl_type

Record Specification

```

TYPE pricing_tbl_type IS TABLE OF pricing_rec_type INDEX BY BINARY_INTEGER;
TYPE pricing_rec_type IS RECORD
  (contract_line_id           Number,
   business_process_id       NUMBER,
   BP_Price_list_id          NUMBER,
   BP_Discount_id            NUMBER,
   BP_start_date              DATE,
   BP_end_date                DATE,
   Contract_Price_list_Id    NUMBER );

```

Parameter Descriptions

The following table describes the parameters associated with this data structure.

Table 2–63 pricing_tbl_type - Parameters

Parameter	Data Type	Description
contract_line_id	NUMBER	Contract Line Id
Business_process_id	NUMBER	Business process id
BP_price_list_id	NUMBER	Coverage Business process level price list id
BP_Discount_id	NUMBER	Coverage Business process level discount price list id
BP_start_date	DATE	Coverage Business process line level start date
BP_end_date	DATE	Coverage Business process line level end date
Contract_Price_list_id	NUMBER	Contract header level price list id

2.4 Package OKS_OMINT_PUB

The OKS_OMINT_PUB consist of the following procedures:

- [Get Duration](#)
- [Is Service Available](#)
- [Available Services](#)
- [OKS Available Services](#)

2.4.1 Get Duration

This API is to calculate Service Duration by entering the Start_Date and End_Date (Optional). You can also choose to coterminate all the service programs that you order so that the program ends at the same time as other service programs for the products associated with the same customer or system.

Procedure Specification

```
PROCEDURE Get_Duration
(
  P_Api_Version           IN           Number,
  P_init_msg_list        IN           Varchar2 Default OKC_API.G_FALSE,
  X_msg_Count            OUT          Number,
  X_msg_Data             OUT          Varchar2,
  X_Return_Status       OUT          Varchar2,
  P_customer_id         IN           Number,
  P_system_id           IN           Number,
  P_Service_Duration    IN           Number,
  P_service_period      IN           Varchar2,
  P_coterm_checked_yn   IN           Varchar2 Default OKC_API.G_FALSE,
  P_start_date          IN           Date,
  P_end_date            IN           Date,
  X_service_duration    OUT          Number,
  X_service_period      OUT          Varchar2,
  X_new_end_date        OUT          Date
```

Current Version

1.0

Parameter Descriptions

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

Table 2–64 Get Duration - IN Parameters

Parameter	Data Type	IN/OUT	Required	Description and Validations
p_api_version	NUMBER	IN	Yes	-
p_init_msg_list	VARCHAR2	IN	Yes	-
p_customer_id	NUMBER	IN	Yes (if system id is Null)	Customer Id
p_system_id	NUMBER	IN		System Id
p_coterm_checked_yn	VARCHAR2	IN	No	Cotermiante Flag Y/N
p_service_duration	NUMBER	IN	No	Duration of the Service
p_service_period	VARCHAR2	IN	No	Period of the Service
p_start_date	DATE	IN	Yes	Start Date of The Service
p_end_date	DATE	IN	No	End Date of the Service

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

Table 2–65 Get Duration - OUT Parameters

Parameter	Data Type	Description
x_return_status	VARCHAR2	fnd_api.g_ret_sts_success, fnd_api.g_ret_sts_error, fnd_api.g_ret_sts_unexp_error
x_msg_count	NUMBER	Message count in the message list.
x_msg_data	VARCHAR2	Message
x_service_duration	VARCHAR2	-
x_new_end_date	DATE	-
x_service_period	VARCHAR2	-

Profiles To Be Set

- OKS Minimum Service Duration
- OKS Minimum Service Period.

Validations

- API will check the minimum duration profile and Day_UOM, if it is not set it will error out.
- Will check if service duration is greater than or equal to minimum duration.
- If Cotermination flag is set, It will pull system or customer coterminate date and accordingly sets the service duration.
- The Coterminate date for a customer can be set in Cotermination set up form.
- Either P_end_date or (p_service_duration,p_service_period) is required if Coterminate flag not set.
- Service duration is calculated based on co-termination flag of customer/system co-termination dates. System Co Terminate Date gets the priority over customer co-termination date.

2.4.2 Is Service Available

This API can be used to check whether the given service is available for a product or for a customer.

Procedure Specification

```
PROCEDURE Is_service_available
(
  P_Api_Version           IN  Number,
  P_init_msg_list        IN  Varchar2 Default OKC_API.G_FALSE,
  X_msg_Count            OUT Number,
  X_msg_Data             OUT Varchar2,
  X_Return_Status       OUT Varchar2,
  p_check_service_rec    IN  CHECK_SERVICE_REC_TYPE,
  X_Available_YN        OUT Varchar2
)
```

Current Version

1.0

Parameter Descriptions

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

Table 2–66 *Is Service Available - IN Parameters*

Parameter	Data Type	Required	Description and Validations
p_api_version	NUMBER	Yes	-
p_init_msg_list	VARCHAR2	Yes	default fnd_api.g_false
p_check_service_rec	CHECK_SERVICE_REC_TYPE	Yes	See the Data Structure Specification: check_service_rec_type

2.4.2.1 check_service_rec_type

Record Specification

```

TYPE CHECK_SERVICE_REC_TYPE IS RECORD
(
  product_item_id          Number
  ,service_item_id        Number
  ,customer_id            Number
  ,customer_product_id    Number
  ,product_revision       Varchar2(3)
  request_date            Date
)

```

Parameter Descriptions

The following table describes the parameters associated with this data structure.

Table 2–67 *check_service_rec_type - Parameters*

Parameter	Data Type	Required	Description
product_item_id	NUMBER	Yes (If Customer id Is null)	The inventory item id of the product
service_item_id	NUMBER	Yes	Inventory Item ID of the Service
customer_id	NUMBER	Yes (If Product item id Is Null)	The Customer Id

Table 2–67 check_service_rec_type - Parameters

Parameter	Data Type	Required	Description
customer_product_id	NUMBER	No	The Customer product Id
product_revision	VARCHAR2	No	The revision of the product
request_date	DATE	No	Default: SYSDATE, Otherwise Ordering date

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

Table 2–68 Is Service Available - OUT Parameters

Parameter	Data Type	Description
x_return_status	VARCHAR2	fnd_api.g_ret_sts_success, fnd_api.g_ret_sts_error, fnd_api.g_ret_sts_unexp_error
x_msg_count	NUMBER	Message count in the message list.
x_msg_data	VARCHAR2	Message
x_Available_yn	VARCHAR2	Available Y/N

Functionality

- Returns Available as 'N' if that service item is not defined in Service Availability form and the customer product has service order allowed flag set to 'N'.
- Returns Available as 'Y' if that service item is not defined in Service Availability form and the customer product has service order allowed flag set to 'Y'.
- If Service item, Product item id and Customer id are passed then the procedure checks if the service is available for both the customer and the product item.
- It checks if request date of the service item available for the product item or customer falls within the effectivity of all the three parameters service item, product item and customer id.

Validations

- Will error out if Customer Id and Product item id are Null.
- The Product item id passed should be of a serviceable Item.

Note: OKS Service Availability Form allows or restricts access to specific service programs for specific customers and products/revisions. It can be further delimited by entering starting and ending availability dates.

2.4.3 Available Services

This API returns list of services available to ORDER for a customer or product.

Procedure Specification

```
PROCEDURE Available_Services
(
  P_Api_Version           IN      Number,
  P_init_msg_list        IN      Varchar2 Default OKC_API.G_FALSE,
  X_msg_Count            OUT     Number,
  X_msg_Data             OUT     Varchar2,
  X_Return_Status        OUT     Varchar2,
  p_avail_service_rec    IN      AVAIL_SERVICE_REC_TYPE,
  X_Orderable_Service_tbl OUT     order_service_tbl_type
)
```

Current Version

1.0

Parameter Descriptions

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

Table 2–69 Available Services - IN Parameters

Parameter	Data Type	Required	Description and Validations
p_api_version	NUMBER	Yes	-
p_init_msg_list	VARCHAR2	Yes	default fnd_api.g_false
p_avail_service_rec_rec	avail_services_rec_type	Yes	See the Data Structure Specification: avail_service_rec_type

2.4.3.1 avail_service_rec_type

Record Specification

```

TYPE AVAIL_SERVICE_REC_TYPE  Is RECORD
(
  product_item_id             Number
  ,customer_id                Number
  ,product_revision           Varchar2(3)
  ,request_date               Date
)

```

Parameter Descriptions

The following table describes the parameters associated with this data structure.

Table 2–70 *avail_service_rec_type - Parameters*

Parameter	Data Type	Required	Description
product_item_id	NUMBER	Yes (If Customer id Is null)	The inventory item id of the product
customer_id	NUMBER	Yes (If Product item id Is null)	The Customer Id
product_revision	VARCHAR2	No	The revision of the product
request_date	DATE	No	Default: SYSDATE, Otherwise Ordering date

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

Table 2–71 *Available Services - OUT Parameters*

Parameter	Data Type	Description
x_return_status	VARCHAR2	fnd_api.g_ret_sts_success, fnd_api.g_ret_sts_error, fnd_api.g_ret_sts_unexp_error
x_msg_count	NUMBER	Message count in the message list.
x_msg_data	VARCHAR2	Message
x_orderable_services_rec	order_service_tbl_type	Service Item information. See the Data Structure Specification: order_service_tbl_type

2.4.3.2 order_service_tbl_type

Record Specification

```
TYPE inp_rec_type IS RECORD
  (Service_item_id OUT NUMBER);
```

Parameter Descriptions

The following table describes the parameters associated with this data structure.

Table 2–72 *order_service_rec_type - Parameters*

Parameter	Data Type	Description
Service_item_id	NUMBER	Service Item

2.4.4 OKS Available Services

This API returns the list of services with Name, Description and the Coverage template associated to the Service available to ORDER for a customer or product.

Procedure Specification

```
PROCEDURE Available_Services
(
  P_Api_Version           IN      Number,
  P_init_msg_list        IN      Varchar2 Default OKC_API.G_FALSE,
  X_msg_Count            OUT     Number,
  X_msg_Data             OUT     Varchar2,
  X_Return_Status        OUT     Varchar2,
  p_avail_service_rec    IN      AVAIL_SERVICE_REC_TYPE,
  X_Orderable_Service_tbl OUT     oks_order_service_tbl_type
)
```

Current Version

1.0

Parameter Descriptions

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

Table 2–73 OKS Available Services - IN Parameters

Parameter	Data Type	Required	Description and Validations
p_api_version	NUMBER	Yes	-
p_init_msg_list	VARCHAR2	Yes	default fnd_api.g_false
p_avail_service_rec_rec	avail_service_rec_type	Yes	See the Data Structure Specification: avail_service_rec_type .

2.4.4.1 avail_service_rec_type

Record Specification

```

TYPE AVAIL_SERVICE_REC_TYPE IS RECORD
(
product_item_id      Number
,customer_id         Number
,product_revision    Varchar2(3)
,request_date        Date
)

```

Parameter Descriptions

The following table describes the parameters associated with this data structure.

Table 2–74 avail_service_rec_type - Parameters

Parameter	Data Type	Required	Description
product_item_id	NUMBER	Yes (If Customer id Is null)	The inventory item id of the product
customer_id	NUMBER	Yes (If Product item id Is null)	The Customer Id
product_revision	VARCHAR2	No	The revision of the product
request_date	DATE	No	Default: SYSDATE, Otherwise Ordering date

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

Table 2–75 OKS Available Services - OUT Parameters

Parameter	Data Type	Description
x_return_status	VARCHAR2	fnf_api.g_ret_sts_success, fnf_api.g_ret_sts_error, fnf_api.g_ret_sts_unexp_error
x_msg_count	NUMBER	Message count in the message list.
x_msg_data	VARCHAR2	Message
x_orderable_service_tbl	oks_order_service_tbl_type	Service Item information. See the Data Structure Specification: oks_order_service_tbl_type

2.4.4.2 oks_order_service_tbl_type

Record Specification

```
TYPE order_service_rec_type IS RECORD
  (Service_item_id      NUMBER,
   Name                 VARCHAR2,
   Description          VARCHAR2,
   Coverage_template_id NUMBER);
```

Parameter Descriptions

The following table describes the parameters associated with this data structure.

Table 2–76 oks_order_service_tbl_type - Parameters

Parameter	Data Type	Description
Service_item_id	NUMBER	Service Item
Name	VARCHAR2	Name Of service
Description	VARCHAR2	Description Of service
Coverage_template_id	NUMBER	Coverage Associated with Service

