Oracle® Contracts for Rights

API Reference Guide

Release 11*i*

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Oracle Contracts for Rights API Reference Guide , Release 11*i*

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Contents

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Preface

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

> **Note:** This document provides API information for Oracle Contracts for Rights.

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

Intended Audience

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

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.

This guide assumes that you have the following prerequisites:

- Backgrounds in programming and databases.

- Understanding of the company business processes.
- Knowledge of products and services as defined by your company.

Structure

This manual contains the following chapters:

Chapter 1	Introduction	Discusses the following topics: ▪ API and parameter specifications ▪ Standard IN and OUT parameters ▪ Status messages
Chapter 2	Intellectual Property Catalog Public APIs	Discusses the following APIs: ▪ Package OKR_IP_PUB ▪ Package OKR_IPT_PUB ▪ Package OKR_SFT_PUB ▪ Package OKR_FILM_PUB ▪ Package OKR_LW_PUB ▪ Package OKR_PHOTO_PUB ▪ Package OKR_REL_PROD_PUB ▪ Package OKR_IP_IMPORT_PUB ▪ Data Structure Specifications
Chapter 3	Contract Catalog Public APIs	Discusses the following APIs: ▪ Package OKR_IP_PUB ▪ Package OKR_SECTIONS_PUB ▪ Package OKR_K_ARTICLE_PUB ▪ Package OKR_ATTACHMENTS_PUB ▪ Package OKR_QA_CHECK_PUB ▪ Package OKR_CONTRACT_APPROVAL_PUB ▪ Package OKR_VERSION_PUB ▪ Erase Saved Version ▪ Package OKR_COPY_CONTRACT_PUB ▪ Data Structure Specifications

Related Documents

For more information, see the following manual:

- Oracle Contracts for Rights Concepts and Procedures

Conventions

The following conventions are used in this manual:

Convention	Meaning
. . .	Vertical ellipsis points in an example mean that information not directly related to the example has been omitted.
. . .	Horizontal ellipsis points in statements or commands mean that parts of the statement or command not directly related to the example have been omitted
boldface text	Boldface type in text indicates a term defined in the text, the glossary, or in both locations.
< >	Angle brackets enclose user-supplied names.
[ ]	Brackets enclose optional clauses from which you can choose one or none.

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1 Introduction

The Oracle Contracts for Rights APIs appear in this document in following groups of public packages.

- Intellectual Property Catalog APIs
- Contract Catalog Public APIs

Within the appropriate package, the specifications for each API include:

- Code definition, including all of its parameters.
- API parameter definitions.
- Data structure definitions.

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

1.1 Intellectual Property Catalog APIs

The Intellectual Property Catalog Public APIs comprise:

- Package OKR_IP_PUB
- Package OKR_IPT_PUB
- Package OKR_SFT_PUB
- Package OKR_FILM_PUB
- Package OKR_LW_PUB
- Package OKR_PHOTO_PUB

- Package OKR_REL_PROD_PUB
- Package OKR_IP_IMPORT_PUB

1.2 Contract Catalog Public APIs

The Contract Catalog Public APIs comprise:

- Package OKR_IP_PUB
- Package OKR_SECTIONS_PUB
- Package OKR_K_ARTICLE_PUB
- Package OKR_ATTACHMENTS_PUB
- Package OKR_QA_CHECK_PUB
- Package OKR_CONTRACT_APPROVAL_PUB
- Package OKR_VERSION_PUB
- Package OKR_COPY_CONTRACT_PUB
- Data Structure Specifications

1.3 Parameter Specifications

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

- Standard IN
- Standard OUT
- Procedure specific IN
- Procedure specific OUT

The API Coding Standards of the Oracle Applications business object specify standard IN and OUT parameters. The following sections describe the standard IN and OUT parameters.

For more information on procedure specific IN and OUT parameters for a specific API, refer to that individual API.

1.3.1 Standard IN Parameters

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

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: ■ If set to true, then the API makes a call to *fnd_msg_pub.initialize* 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: ■ 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.

1.3.2 Standard OUT Parameters

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

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: ▪ 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 *x_msg_count* is equal to one.

1.3.3 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.

1.3.4 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.

1.3.5 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

1.3.6 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.

1.4 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.

1.5 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	Indicates that the API performed all the operations requested by its caller. ■ A success return status may or may not be accompanied by messages in the API message list. ■ Currently, the CRM Foundation APIs do not provide a message for a return status of success.
E	Indicates that the API failed to perform one or more of the operations requested by its caller. An error return status is accompanied by one or more messages describing the error.
U	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. ■ 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.

2

Intellectual Property Catalog Public APIs

Intellectual Property Catalog provides a common framework for importing, defining, maintaining and viewing different kind of properties. It also acts as the central repository and provides a consistent API interface for other modules

- OKR_IP_PUB, see Table 2–1, "Intellectual Property Manager APIs".
- OKR_IPT_PUB, see Table 2–2, "Property Type Manager APIs".
- OKR_SFT_PUB, see Table 2–3, "Software IP Maintenance APIs".
- OKR_FILM_PUB, see Table 2–4, "Film IP Maintenance APIs".
- OKR_LW_PUB, see Table 2–5, "Literary Work IP Maintenance APIs".
- OKR_PHOTO_PUB, see Table 2–6, "Photo IP Maintenance APIs".
- OKR_REL_PROD_PUB, see Table 2–7, "Related Products Maintenance APIs".
- OKR_IP_IMPORT_PUB, see Table 2–8, "Intellectual Property Import Manager APIs".

2.1 Intellectual Property Catalog Public APIs

The following tables describe the preceding public APIs, which are discussed in this chapter.

Table 2–1 Intellectual Property Manager APIs

Name	Description
Add Contributors	This procedure adds a contributor for a Intellectual property.
Remove Contributors	This procedure removes a contributor for a Intellectual property.

Table 2–1 Intellectual Property Manager APIs (Cont.)

Name	Description
Update Contributors	This procedure updates a contributor for a Intellectual property.
Add Classifications	This procedure adds a classification for a Intellectual property.
Remove Classifications	This procedure removes a classification for a Intellectual property.
Update Classifications	This procedure updates a classification for a Intellectual property.
Add Publication Medium	This procedure adds a publication medium for a Intellectual property.
Remove Publication Medium	This procedure removes a publication medium for a Intellectual property.
Update Publication Medium	This procedure updates a publication medium for a Intellectual property.

Table 2–2 Property Type Manager APIs

Name	Description
Create Property Type	This procedure creates a base property type.
Update Property Type	This procedure updates a base property type.

Table 2–3 Software IP Maintenance APIs

Name	Description
Create Software IP	This procedure creates a software IP.
Update Software IP	This procedure updates a software IP.

Table 2–4 Film IP Maintenance APIs

Name	Description
Create Film IP	This procedure creates a film IP.
Update Film IP	This procedure updates a film IP.

Table 2–5 Literary Work IP Maintenance APIs

Name	Description
Create Literary Work IP	This procedure creates a literary work IP.
Update Literary Work IP	This procedure updates a literary work IP.

Table 2–6 Photo IP Maintenance APIs

Name	Description
Create Photo IP	This procedure creates a photo IP.
Update Photo IP	This procedure updates a photo IP.

Table 2–7 Related Products Maintenance APIs

Name	Description
Create Related product for an IP	This procedure creates a related product for an IP.
Update Related product for an IP	This procedure updates a related product for an IP.

Table 2–8 Intellectual Property Import Manager APIs

Name	Description
Validate Interface Rows	This procedure validates the rows in the Interface table.
Copy Success Data	This procedure copies the success rows in the Interface table.
Import Catalog Data	This procedure does both validation and copying of the success rows in the Interface table.
Submit Validation Request	This procedure does the concurrent request of validating the rows in the Interface table.
Submit Import Set	This procedure does the concurrent request of both validating and copying the success rows in the Interface table
Submit Import Request	This procedure does the concurrent request of both validating and copying the success rows in the Interface table.

2.2 Package OKR_IP_PUB

This package contains these procedures:

- Add Contributors
- Remove Contributors
- Update Contributors
- Add Classifications
- Remove Classifications
- Update Classifications
- Add Publication Mediums
- Remove Publication Mediums
- Update Publication Mediums

2.2.1 Add Contributors

Procedure Specification

```
PROCEDURE ADD_CONTRIBUTORS(

     p_api_version          IN NUMBER,

     p_init_msg_list        IN VARCHAR2 DEFAULT OKC_API.G_FALSE,

     x_return_status        OUT VARCHAR2,

     x_msg_count            OUT NUMBER,

     x_msg_data             OUT VARCHAR2,

     p_contributor_tbl      IN OKR_PRL_PVT.pprv_tbl_type);
```

Current Version

1.0

Table 2–9 Add Contributors IN Parameters

Parameter	Data Type	Required	Description and Validation
p_api_version	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_init_msg_list	VARCHAR2.	Yes	See "Standard IN Parameters" on page 1-3.
p_contributor_tbl	OKR_PRL_ PVT.pprv_tbl_type	Yes	See "Data Structure pprv_tbl_type" on page 2-38.

Table 2–10 Add Contributors OUT Parameters

Parameter	Data Type	Required	Description and Validation
x_return_status	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_count	NUMBER	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_data	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.

2.2.2 Remove Contributors

Procedure Specification

```
PROCEDURE REMOVE_CONTRIBUTORS(
     p_api_version           IN NUMBER,

     p_init_msg_list         IN VARCHAR2 DEFAULT OKC_API.G_FALSE,

     x_return_status         OUT VARCHAR2,

     x_msg_count             OUT NUMBER,

     x_msg_data              OUT VARCHAR2,

     p_contributor_tbl       IN OKR_PRL_PVT.pprv_tbl_type);
```

Current Version

1.0

Table 2–11 Remove Contributors IN Parameters

Parameter	Data Type	Required	Description and Validation
p_api_version	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_init_msg_list	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_contributor_tbl	OKR_PRL_PVT.pprv_tbl_type	Yes	See "Data Structure pprv_tbl_type" on page 2-38

Table 2–12 Remove Contributors OUT Parameters

Parameter	Data Type	Required	Description and Validation
x_return_status	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_count	NUMBER	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_data	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.

2.2.3 Update Contributors

Procedure Specification

```
PROCEDURE UPDATE_CONTRIBUTORS(

     p_api_version          IN NUMBER,

     p_init_msg_list        IN VARCHAR2 DEFAULT OKC_API.G_FALSE,

     x_return_status        OUT VARCHAR2,

     x_msg_count            OUT NUMBER,

     x_msg_data             OUT VARCHAR2,
     p_contributor_tbl     IN OKR_PRL_PVT.pprv_tbl_type);
```

Current Version

1.0

Table 2–13 Update Contributors IN Parameters

Parameter	Data Type	Required	Description and Validation
p_api_version	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_init_msg_list	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_contributor_tbl	OKR_PRL_PVT.pprv_tbl_type	Yes	See "Data Structure pprv_tbl_type" on page 2-38.

Table 2–14 Update Contributors OUT Parameters

Parameter	Data Type	Required	Description and Validation
x_return_status	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_count	NUMBER	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_data	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.

2.2.4 Add Classifications

Procedure Specification

```
PROCEDURE ADD_CLASSIFICATIONS(

     p_api_version          IN NUMBER,

     p_init_msg_list        IN VARCHAR2 DEFAULT
                              OKC_API.G_FALSE,

     x_return_status        OUT VARCHAR2,
    x_msg_count          OUT NUMBER,

    x_msg_data           OUT VARCHAR2,

    p_classification_tbl IN OKR_IPC_PVT.pcnv_tbl_type);
```

Current Version

1.0

Table 2–15 Add Classifications IN Parameters

Parameter	Data Type	Required	Description and Validation
p_api_version	NUMBER	Yes	See "Standard IN Parameters" on page 1-3
p_init_msg_list	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_classification_tbl	OKR_IPC_PVT.pcnv_tbl_type	Yes	See "Data Structure pcnv_tbl_type" on page 2-39.

Table 2–16 Add Classifications OUT Parameters

Parameter	Data Type	Required	Description and Validation
x_return_status	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_count	NUMBER	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_data	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.

2.2.5 Remove Classifications

Procedure Specification

```
PROCEDURE REMOVE_CLASSIFICATIONS(

    p_api_version          IN NUMBER,
p_init_msg_list        IN VARCHAR2 DEFAULT
                         OKC_API.G_FALSE,
x_return_status        OUT VARCHAR2,

x_msg_count            OUT NUMBER,

x_msg_data             OUT VARCHAR2,

p_classification_tbl   IN OKR_IPC_PVT.pcnv_tbl_type);
```

Current Version

1.0

Table 2–17 Remove Classifications IN Parameters

Parameter	Data Type	Required	Description and Validation
p_api_version	NUMBER.	Yes	See "Standard IN Parameters" on page 1-3.
p_init_msg_list.	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_classification_tbl	OKR_IPC_PVT.pcnv_tbl_type	Yes	See "Data Structure pcnv_tbl_type" on page 2-39.

Table 2–18 Remove Classifications OUT Parameters

Parameter	Data Type	Required	Description and Validation
x_return_status	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_count	NUMBER	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_data	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.

2.2.6 Update Classifications

Procedure Specification

```
PROCEDURE UPDATE_CLASSIFICATIONS(

     p_api_version          IN NUMBER,

     p_init_msg_list        IN VARCHAR2 DEFAULTOKC_API.G_FALSE,

     x_return_status        OUT VARCHAR2,

     x_msg_count            OUT NUMBER,

     x_msg_data             OUT VARCHAR2,

     p_classification_tbl   IN OKR_IPC_PVT.pcnv_tbl_type);
```

Current Version

1.0

Table 2–19 Update Classifications IN Parameters

Parameter	Data Type	Required	Description and Validation
p_api_version	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_init_msg_list	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_classification_tbl	OKR_IPC_PVT.pcnv_tbl_type	Yes	See "Data Structure pcnv_tbl_type" on page 2-39.

Table 2–20 Update Classifications OUT Parameters

Parameter	Data Type	Required	Description and Validation
x_return_status	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_count	NUMBER	Yes	See "Standard OUT Parameters" on page 1-3.

Table 2–20 Update Classifications OUT Parameters (Cont.)

Parameter	Data Type	Required	Description and Validation
x_msg_data	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.

2.2.7 Add Publication Mediums

Procedure Specification

```
PROCEDURE ADD_PUBLICATION_MEDIUMS(

     p_api_version           IN NUMBER,

     p_init_msg_list         IN VARCHAR2 DEFAULTOKC_API.G_FALSE,

     x_return_status         OUT VARCHAR2,

     x_msg_count             OUT NUMBER,

     x_msg_data              OUT VARCHAR2,

     p_pm_tbl                IN OKR_PMD_PVT.pmmv_tbl_type);
```

Current Version

1.0

Table 2–21 Add Publication Mediums IN Parameters

Parameter	Data Type	Required	Description and Validation
p_api_version	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_api_version	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_init_msg_list	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_pm_tbl	OKR_PMD_PVT.pmmv_tbl_type	Yes	See "Data Structure pmmv_tbl_type" on page 2-40.

Table 2–22 Add Publication Mediums OUT Parameters

Parameter	Data Type	Required	Description and Validation
x_return_status	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_count	NUMBER	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_data	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.

2.2.8 Remove Publication Mediums

Procedure Specification

```
PROCEDURE REMOVE_PUBLICATION_MEDIUMS(

    p_api_version            IN NUMBER,

    p_init_msg_list          IN VARCHAR2 DEFAULTOKC_API.G_FALSE,

    x_return_status          OUT VARCHAR2,

    x_msg_count              OUT NUMBER,

    x_msg_data               OUT VARCHAR2,

    p_pm_tbl                 IN OKR_PMD_PVT.pmmv_tbl_type);
```

Current Version

1.0

Table 2–23 Remove Publication Mediums IN Parameters

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

Table 2–23 Remove Publication Mediums IN Parameters (Cont.)

Parameter	Data Type	Required	Description and Validation
p_pm_tbl	OKR_PMD_PVT.pmmv_tbl_type	Yes	See "Data Structure pmmv_tbl_type" on page 2-40.

Table 2–24 Remove Publication Mediums OUT Parameters

Parameter	Data Type	Required	Description and Validation
x_return_status	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_count	NUMBER	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_data	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.

2.2.9 Update Publication Mediums

Procedure Specification

```
PROCEDURE UPDATE_PUBLICATION_MEDIUMS(

     p_api_version          IN NUMBER,

     p_init_msg_list        IN VARCHAR2 DEFAULTOKC_API.G_FALSE,

     x_return_status        OUT VARCHAR2,

     x_msg_count            OUT NUMBER,

     x_msg_data             OUT VARCHAR2,

     p_pm_tbl               IN OKR_PMD_PVT.pmmv_tbl_type);
```

Current Version

1.0

Table 2–25 Update Publication Mediums IN Parameters

Parameter	Data Type	Required	Description and Validation
p_api_version	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_init_msg_list.	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_pm_tbl	OKR_PMD_PVT.pmmv_tbl_type	Yes	See "Data Structure pmmv_tbl_type" on page 2-40.

Table 2–26 Update Publication Mediums OUT Parameters

Parameter	Data Type	Required	Description and Validation
x_return_status	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_count	NUMBER	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_data	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.

2.3 Package OKR_IPT_PUB

This package contains the these procedures:

- Create Property Type
- Update Property Type

2.3.1 Create Property Type

Procedure Specification

```
PROCEDURE CREATE_PROPERTY_TYPE (

     p_api_version          IN NUMBER,

     p_init_msg_list        IN VARCHAR2 DEFAULT OKC_API.G_FALSE,

     x_return_status        OUT VARCHAR2,
    x_msg_count           OUT NUMBER,

    x_msg_data            OUT VARCHAR2,

    p_pt_rec              IN OKR_IPT_PVT.iptv_rec_type);
```

Current Version

1.0

Table 2–27 Create Property Type IN Parameters

Parameter	Data Type	Required	Description and Validation
p_api_version	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_init_msg_list.	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_pt_rec	OKR_IPT_PVT.iptv_rec_type	Yes	See "Data Structure iptv_rec_type" on page 2-41.

Table 2–28 Create Property Type OUT Parameters

Parameter	Data Type	Required	Description and Validation
x_return_status	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_count	NUMBER	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_data	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.

2.3.2 Update Property Type

Procedure Specification

```
PROCEDURE UPDATE_PROPERTY_TYPE (

    p_api_version         IN NUMBER,
     p_init_msg_list        IN VARCHAR2 DEFAULT OKC_API.G_FALSE,
     x_return_status        OUT VARCHAR2,
     x_msg_count            OUT NUMBER,
     x_msg_data             OUT VARCHAR2,
     p_pt_rec               IN OKR_IPT_PVT.iptv_rec_type);
```

Table 2–29 Update Property Type Mediums IN Parameters

Parameter	Data Type	Required	Description and Validation
p_api_version	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_init_msg_list	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_pt_rec	OKR_IPT_PVT.iptv_rec_type	Yes	See "Data Structure iptv_rec_type" on page 2-41.

Table 2–30 Update Property Type OUT Parameters

Parameter	Data Type	Required	Description and Validation
x_return_status	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_count	NUMBER	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_data	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.

2.4 Package OKR_SFT_PUB

This package contains the these procedures:

- Create Software IP
- Update Software IP

2.4.1 Create Software IP

Procedure Specification

```
PROCEDURE CREATE_SOFTWARE (

     p_api_version          IN NUMBER,

     p_init_msg_list        IN VARCHAR2 DEFAULT OKC_API.G_FALSE,

     x_return_status        OUT VARCHAR2,

     x_msg_count            OUT NUMBER,

     x_msg_data             OUT VARCHAR2,

     x_ip_id                OUT NUMBER,

     p_ip_rec               IN OKR_PRP_PVT.ipybv_rec_type,

     p_sw_rec               IN OKR_SFT_PVT.iswv_rec_type);
```

Current Version

1.0

Table 2–31 Create Software IPIN Parameters

Parameter	Data Type	Required	Description and Validation
p_api_version	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_init_msg_list	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_ip_rec	OKR_PRP_PVT.ipybv_rec_type	Yes	See "Data Structure ipybv_rec_type" on page 2-43.
p_sw_rec	OKR_SFT_PVT.iswv_rec_type.	Yes	See "Data Structure iswv_rec_type" on page 2-44.

Table 2–32 Create Software IP OUT Parameters

Parameter	Data Type	Required	Description and Validation
x_return_status	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_count	NUMBER	Yes	See "Standard OUT Parameters" on page 1-3.
x_ip_id	NUMBER	Yes	Intellectual property ID
x_msg_data	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.

2.4.2 Update Software IP

Procedure Specification

```
PROCEDURE UPDATE_SOFTWARE (

     p_api_version          IN NUMBER,

     p_init_msg_list        IN VARCHAR2 DEFAULT OKC_API.G_FALSE,

     x_return_status        OUT VARCHAR2,

     x_msg_count            OUT NUMBER,

     x_msg_data             OUT VARCHAR2,

     p_ip_rec               IN OKR_PRP_PVT.ipybv_rec_type,

     p_sw_rec               IN OKR_SFT_PVT.iswv_rec_type);
```

Table 2–33 Update Software IPIN Parameters

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

Table 2–33 Update Software IPIN Parameters (Cont.)

Parameter	Data Type	Required	Description and Validation
p_sw_rec	OKR_SFT_PVT.iswv_rec_type	Yes	See "Data Structure iswv_rec_type" on page 2-44.
p_ip_rec	OKR_PRP_PVT.ipybv_rec_type	Yes	See "Data Structure ipybv_rec_type" on page 2-43.

Table 2–34 Update Software IP OUT Parameters

Parameter	Data Type	Required	Description and Validation
x_return_status	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_count	NUMBER	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_data	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.

2.5 Package OKR_FILM_PUB

This package contains the these procedures:

- Create Film IP
- Update Film IP

2.5.1 Create Film IP

Procedure Specification

```
PROCEDURE CREATE_FILM (

     p_api_version          IN NUMBER,

     p_init_msg_list        IN VARCHAR2 DEFAULT OKC_API.G_FALSE,

     x_return_status        OUT VARCHAR2,

     x_msg_count            OUT NUMBER,
x_msg_data              OUT VARCHAR2,

x_ip_id                 OUT NUMBER,

p_ip_rec                IN OKR_PRP_PVT.ipybv_rec_type,

p_fm_rec                IN OKR_FLM_PVT.ifmv_rec_type);
```

Current Version

1.0

Table 2–35 Create Film IP IN Parameters

Parameter	Data Type	Required	Description and Validation
p_api_version	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_init_msg_list	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_fm_rec	OKR_FLM_PVT.ifmv_rec_type	Yes	See "Data Structure ifmv_rec_type" on page 2-46.
p_ip_rec	OKR_PRP_PVT.ipybv_rec_type	Yes	See "Data Structure ipybv_rec_type" on page 2-43.

Table 2–36 Create Film IP OUT Parameters

Parameter	Data Type	Required	Description and Validation
x_return_status	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_count	NUMBER	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_data	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_ip_id	NUMBER	Yes	Intellectual property ID

2.5.2 Update Film IP

Procedure Specification

```
PROCEDURE UPDATE_FILM (

     p_api_version           IN NUMBER,

     p_init_msg_list         IN VARCHAR2 DEFAULT OKC_API.G_FALSE,

     x_return_status         OUT VARCHAR2,

     x_msg_count             OUT NUMBER,

     x_msg_data              OUT VARCHAR2,

     p_ip_rec                IN OKR_PRP_PVT.ipybv_rec_type,

     p_fm_rec                IN OKR_FLM_PVT.ifmv_rec_type);
```

Table 2–37 Update Film IP IN Parameters

Parameter	Data Type	Required	Description and Validation
p_api_version	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_init_msg_list	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_fm_rec	OKR_FLM_PVT.ifmv_rec_type	Yes	See "Data Structure ifmv_rec_type" on page 2-46.
p_ip_rec	OKR_PRP_PVT.ipybv_rec_type	Yes	See "Data Structure ipybv_rec_type" on page 2-43.

Table 2–38 Update Film IP OUT Parameters

Parameter	Data Type	Required	Description and Validation
x_return_status	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_count	NUMBER	Yes	See "Standard OUT Parameters" on page 1-3.

Table 2–38 Update Film IP OUT Parameters (Cont.)

Parameter	Data Type	Required	Description and Validation
x_msg_data	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.

2.6 Package OKR_LW_PUB

This package contains these procedures:

- Create Literary Work IP
- Update Literary Work IP

2.6.1 Create Literary Work IP

Procedure Specification

```
PROCEDURE CREATE_LITERARY_WORK (

     p_api_version           IN NUMBER,

     p_init_msg_list         IN VARCHAR2 DEFAULT OKC_API.G_FALSE,

     x_return_status         OUT VARCHAR2,

     x_msg_count             OUT NUMBER,

     x_msg_data              OUT VARCHAR2,

     x_ip_id                 OUT NUMBER,

     p_ip_rec                IN OKR_PRP_PVT.ipybv_rec_type,

     p_lw_rec                IN OKR_ILT_PVT.ilwv_rec_type);
```

Current Version

1.0

Table 2–39 Create Literary Work IN Parameters

Parameter	Data Type	Required	Description and Validation
p_api_version	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_init_msg_list	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_ip_rec	OKR_PRP_PVT.ipybv_rec_type	Yes	See "Data Structure ipybv_rec_type" on page 2-43.
p_lw_rec	OKR_ILT_PVT.ilwv_rec_type	Yes	See "Data Structure ilwv_rec_type" on page 2-48.

Table 2–40 Create Literary Work OUT Parameters

Parameter	Data Type	Required	Description and Validation
x_return_status	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_count	NUMBER	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_data	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_ip_id	NUMBER	Yes	Intellectual property ID

2.6.2 Update Literary Work IP

Procedure Specification

```
PROCEDURE UPDATE_LITERARY_WORK (

     p_api_version           IN NUMBER,

     p_init_msg_list         IN VARCHAR2 DEFAULT OKC_API.G_FALSE,

     x_return_status         OUT VARCHAR2,

     x_msg_count             OUT NUMBER,

     x_msg_data              OUT VARCHAR2,
p_ip_rec                IN OKR_PRP_PVT.ipybv_rec_type,

p_lw_rec                IN OKR_ILT_PVT.ilwv_rec_type);
```

Current Version

1.0

Table 2–41 Update Literary Work IN Parameters

Parameter	Data Type	Required	Description and Validation
p_api_version	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_init_msg_list	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_ip_rec	OKR_PRP_PVT.ipybv_rec_type	Yes	See "Data Structure ipybv_rec_type" on page 2-43.
p_lw_rec	OKR_ILT_PVT.ilwv_rec_type	Yes	See "Data Structure ilwv_rec_type" on page 2-48.

Table 2–42 Update Literary Work OUT Parameters

Parameter	Data Type	Required	Description and Validation
x_return_status	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_count.	NUMBER	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_data	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.

2.7 Package OKR_PHOTO_PUB

This package contains the these procedures:

- Create Photo IP

- Update Photo IP

2.7.1 Create Photo IP

Procedure Specification

```
PROCEDURE CREATE_PHOTO_WORK (

     p_api_version          IN NUMBER,

     p_init_msg_list        IN VARCHAR2DEFAULT OKC_API.G_FALSE,

     x_return_status        OUT VARCHAR2,

     x_msg_count            OUT NUMBER,

     x_msg_data             OUT VARCHAR2,

     x_ip_id                OUT NUMBER,

     p_ip_rec               IN OKR_PRP_PVT.ipybv_rec_type,

     p_photo_rec            IN OKR_IPP_PVT.ipobv_rec_type);
```

Current Version

1.0

Table 2–43 Create Photo IP IN Parameters

Parameter	Data Type	Required	Description and Validation
p_api_version	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_init_msg_list	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_ip_rec	OKR_PRP_PVT.ipybv_rec_type	Yes	See "Data Structure ipybv_rec_type" on page 2-43.
p_photo_rec	OKR_IPP_PVT.ipobv_rec_type	Yes	See "Data Structure ipobv_rec_type" on page 2-50.

Table 2–44 Create Photo IP OUT Parameters

Parameter	Data Type	Required	Description and Validation
x_return_status	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_count	NUMBER	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_data	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_ip_id	NUMBER	Yes	Intellectual property ID

2.7.2 Update Photo IP

Procedure Specification

```
PROCEDURE UPDATE_PHOTO_WORK (

     p_api_version           IN NUMBER,

     p_init_msg_list         IN VARCHAR2DEFAULT OKC_API.G_FALSE,

     x_return_status         OUT VARCHAR2,

     x_msg_count             OUT NUMBER,

     x_msg_data              OUT VARCHAR2,

     p_ip_rec                IN OKR_PRP_PVT.ipybv_rec_type,

     p_photo_rec             IN OKR_IPP_PVT.ipobv_rec_type);
```

Current Version

1.0

Table 2–45 Update Photo IP IN Parameters

Parameter	Data Type	Required	Description and Validation
p_api_version	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_init_msg_list	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_ip_rec	OKR_PRP_PVT.ipybv_rec_type	Yes	See "Data Structure ipybv_rec_type" on page 2-43.
p_photo_rec	OKR_IPP_PVT.ipobv_rec_type	Yes	See "Data Structure ipobv_rec_type" on page 2-50.

Table 2–46 Update Publication Mediums OUT Parameters

Parameter	Data Type	Required	Description and Validation
x_return_status	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_count	NUMBER	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_data	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.

2.8 Package OKR_REL_PROD_PUB

This package contains the these procedures:

- Create Related Product for an IP
- Remove Related Product for an IP

2.8.1 Create Related Product for an IP

Procedure Specification

```
PROCEDURE ADD_REL_PROD(

     p_api_version          IN NUMBER,
p_init_msg_list        IN VARCHAR2 DEFAULT OKC_API.G_FALSE,
x_return_status        OUT VARCHAR2   ,
x_msg_count            OUT NUMBER     ,
x_msg_data             OUT VARCHAR2   ,
p_iirv_rec             IN OKR_RPD_PVT.iirv_rec_type);
```

Current Version

1.0

Table 2–47 Create Related Product for an IP IN Parameters

Parameter	Data Type	Required	Description and Validation
p_api_version	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_init_msg_list	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_iirv_rec	OKR_RPD_PVT.iirv_rec_type	Yes	See "Data Structure iirv_rec_type" on page 2-52.

Table 2–48 Create Related Product for an IP OUT Parameters

Parameter	Data Type	Required	Description and Validation
x_return_status	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_count	NUMBER	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_data	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.

2.8.2 Remove Related Product for an IP

Procedure Specification

```
PROCEDURE REMOVE_REL_PROD(

     p_api_version          IN NUMBER,

     p_init_msg_list        IN VARCHAR2 DEFAULT OKC_API.G_FALSE,

     x_return_status        OUT VARCHAR2   ,

     x_msg_count            OUT NUMBER     ,

     x_msg_data             OUT VARCHAR2   ,

     p_iirv_rec             IN OKR_RPD_PVT.iirv_rec_type);
```

Current Version

1.0

Table 2–49 Remove Related Product for an IP IN Parameters

Parameter	Data Type	Required	Description and Validation
p_api_version	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_init_msg_list	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_iirv_rec	OKR_RPD_PVT.iirv_rec_type	Yes	See "Data Structure iirv_rec_type" on page 2-52.

Table 2–50 Remove Related Product for an IP OUT Parameters

Parameter	Data Type	Required	Description and Validation
x_return_status	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_count	NUMBER	Yes	See "Standard OUT Parameters" on page 1-3.

Table 2–50 Remove Related Product for an IP OUT Parameters (Cont.)

Parameter	Data Type	Required	Description and Validation
x_msg_data	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.

2.9 Package OKR_IP_IMPORT_PUB

This package contains the these procedures:

- Validate Interface Rows
- Copy Success Data
- Import Catalog Data
- Submit Validation Request
- Submit Import Set
- Submit Import Request

2.9.1 Validate Interface Rows

Procedure Specification

```
PROCEDURE validate_interface_data(

     p_api_version           IN NUMBER,

     p_init_msg_list         IN VARCHAR2 DEFAULT OKC_API.G_FALSE,

     x_return_status         OUT NOCOPY VARCHAR2,

     x_msg_count             OUT NOCOPY NUMBER,

     x_msg_data              OUT NOCOPY VARCHAR2,

     p_okrcomrectype         IN okrcomrectype ) ;
```

Current Version

1.0

Table 2–51 Validate Interface Rows IN Parameters

Parameter	Data Type	Required	Description and Validation
p_api_version	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_init_msg_list	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_okrcomrectype	okrcomrectype	Yes	See "Data Structure okrcomrectype" on page 2-53.

Table 2–52 Validate Interface Rows OUT Parameters

Parameter	Data Type	Required	Description and Validation
x_return_status	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_count	NUMBER	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_data	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.

2.9.2 Copy Success Data

Procedure Specification

```
PROCEDURE copy_success_data (

     p_api_version          IN NUMBER,

     p_init_msg_list        IN VARCHAR2 DEFAULT OKC_API.G_FALSE,

     x_return_status        OUT NOCOPY VARCHAR2,

     x_msg_count            OUT NOCOPY NUMBER,

     x_msg_data             OUT NOCOPY VARCHAR2,

     p_okrcomrectype        IN okrcomrectype ) ;
```

Version

1.0

Table 2–53 Copy Success Data IN Parameters

Parameter	Data Type	Required	Description and Validation
p_api_version	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_init_msg_list	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_okrcomrectype	okrcomrectype	Yes	See "Data Structure okrcomrectype" on page 2-53.

Table 2–54 Copy Success Data OUT Parameters

Parameter	Data Type	Required	Description and Validation
x_return_status	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_count	NUMBER	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_data	VARCHAR2	Yes.	See "Standard OUT Parameters" on page 1-3.

2.9.3 Import Catalog Data

Procedure Specification

```
PROCEDURE import_catalog_data (

     p_api_version           IN NUMBER,

     p_init_msg_list         IN VARCHAR2 DEFAULT OKC_API.G_FALSE,

     x_return_status         OUT NOCOPY VARCHAR2,
x_msg_count           OUT NOCOPY NUMBER,

x_msg_data            OUT NOCOPY VARCHAR2,

p_okrcomrectype       IN okrcomrectype ) ;
```

Version

1.0

Table 2–55 Import Catalog Data IN Parameters

Parameter	Data Type	Required	Description and Validation
p_api_version	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_init_msg_list	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_okrcomrectype	okrcomrectype	Yes	See "Data Structure okrcomrectype".

Table 2–56 Import Catalog Data OUT Parameters

Parameter	Data Type	Required	Description and Validation
x_return_status	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_count	NUMBER	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_data	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.

2.9.4 Submit Validation Request

Procedure Specification

```
procedure submit_validation_request

     (p_api_version          IN NUMBER,
     p_init_msg_list          IN VARCHAR2 DEFAULT OKC_API.G_FALSE,

     p_job_number             in number,

     p_start_time             in varchar2 default null,

     x_request_id             out number);
```

Current Version

1.0

Table 2–57 Submit Validation Request IN Parameters

Parameter	Data Type	Required	Description and Validation
p_api_version	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_init_msg_list	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_job_number	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_start_time	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.

Table 2–58 Submit Validation Request OUT Parameters

Parameter	Data Type	Required	Description and Validation
x_request_id	NUMBER	Yes	See "Standard OUT Parameters" on page 1-3.

2.9.5 Submit Import Set

Procedure Specification

```
procedure submit_import_set

     (p_api_version           IN NUMBER,
     p_init_msg_list          IN VARCHAR2 DEFAULT OKC_API.G_FALSE,

     p_job_number             in number,

     p_start_time             in varchar2,

     x_request_id             out number);
```

Current Version

1.0

Table 2–59 Submit Validation Request IN Parameters

Parameter	Data Type	Required	Description and Validation
p_api_version	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_init_msg_list	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_job_number	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_start_time	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.

Table 2–60 Submit Validation Request OUT Parameters

Parameter	Data Type	Required	Description and Validation
x_request_id	NUMBER	Yes	See "Standard OUT Parameters" on page 1-3.

2.9.6 Submit Import Request

Procedure Specification

```
procedure submit_import_request

     (p_api_version           IN NUMBER,
p_init_msg_list          IN VARCHAR2 DEFAULT OKC_API.G_FALSE,

p_job_number             in number,

p_start_time             in varchar2 default null,

x_request_id             out number);
```

Current Version

1.0

Table 2–61 Submit Validation Request IN Parameters

Parameter	Data Type	Required	Description and Validation
p_api_version	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_init_msg_list	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_job_number	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_start_time	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.

Table 2–62 Submit Validation Request OUT Parameters

Parameter	Data Type	Required	Description and Validation
x_request_id	NUMBER	Yes	See "Standard OUT Parameters" on page 1-3.

2.10 Data Structure Specifications

The following data structures are used in OKR_IP_PUB and are explained in detail below:

- pprv_tbl_type
- pcnv_tbl_type
- pmmv_tbl_type

The following data structures are used in OKR_IPT_PUB and are explained in detail below:

- iptv_rec_type

The following data structures are used in OKR_SFT_PUB and are explained in detail below:

- ipybv_rec_type

`iswv_rec_type`

The following data structures are used in OKR_FLM_PUB and are explained in detail below:

- ipybv_rec_type
- ifmv_rec_type

The following data structures are used in OKR_LW_PUB and are explained in detail below:

- ipybv_rec_type
- ilwv_rec_type

The following data structures are used in OKR_PHOTO_PUB and are explained in detail below:

- ipybv_rec_type
- ipobv_rec_type

The following data structures are used in OKR_REL_PROD_PUB and are explained in detail below:

- iirv_rec_type

The following data structures are used in OKR_IP_IMPORT_PUB and are explained in detail below:

- okrcomrectype

2.10.1 Data Structure pprv_tbl_type

```
TYPE pprv_rec_type IS RECORD (
    ppr_id                             NUMBER := OKC_API.G_MISS_NUM,
    object_version_number              NUMBER := OKC_API.G_MISS_NUM,
    sfwt_flag                          OKR_IP_PARTY_RELS_V.SFWT_FLAG%TYPE := OKC_
API.G_MISS_CHAR,
    ip_id                              NUMBER := OKC_API.G_MISS_NUM,
    ip_type                            OKR_IP_PARTY_RELS_V.IP_TYPE%TYPE := OKC_
API.G_MISS_CHAR,
    role_code                          OKR_IP_PARTY_RELS_V.ROLE_CODE%TYPE := OKC_
API.G_MISS_CHAR,
    party_id1                          NUMBER := OKC_API.G_MISS_NUM,
    party_id2                          OKR_IP_PARTY_RELS_V.PARTY_ID2%TYPE := OKC_
API.G_MISS_CHAR,
    start_date                         OKR_IP_PARTY_RELS_V.START_DATE%TYPE := OKC_
API.G_MISS_DATE,
    end_date                           OKR_IP_PARTY_RELS_V.END_DATE%TYPE := OKC_
API.G_MISS_DATE,
    description                        OKR_IP_PARTY_RELS_V.DESCRIPTION%TYPE := OKC_
API.G_MISS_CHAR,
    note                               OKR_IP_PARTY_RELS_V.NOTE%TYPE := OKC_API.G_
MISS_CHAR,
    display_order                      NUMBER := OKC_API.G_MISS_NUM,
    work_for_hire                      OKR_IP_PARTY_RELS_V.WORK_FOR_HIRE%TYPE :=
OKC_API.G_MISS_CHAR,
    character                          OKR_IP_PARTY_RELS_V.CHARACTER%TYPE := OKC_
API.G_MISS_CHAR,
    attribute_category                 OKR_IP_PARTY_RELS_V.ATTRIBUTE_CATEGORY%TYPE
:= OKC_API.G_MISS_CHAR,
    attribute1                         OKR_IP_PARTY_RELS_V.ATTRIBUTE1%TYPE := OKC_
API.G_MISS_CHAR,
    attribute2                         OKR_IP_PARTY_RELS_V.ATTRIBUTE2%TYPE := OKC_
API.G_MISS_CHAR,
    attribute3                         OKR_IP_PARTY_RELS_V.ATTRIBUTE3%TYPE := OKC_
API.G_MISS_CHAR,
    attribute4                         OKR_IP_PARTY_RELS_V.ATTRIBUTE4%TYPE := OKC_
API.G_MISS_CHAR,
    attribute5                         OKR_IP_PARTY_RELS_V.ATTRIBUTE5%TYPE := OKC_
API.G_MISS_CHAR,
    attribute6                    OKR_IP_PARTY_RELS_V.ATTRIBUTE6%TYPE := OKC_
API.G_MISS_CHAR,
    attribute7                    OKR_IP_PARTY_RELS_V.ATTRIBUTE7%TYPE := OKC_
API.G_MISS_CHAR,
    attribute8                    OKR_IP_PARTY_RELS_V.ATTRIBUTE8%TYPE := OKC_
API.G_MISS_CHAR,
    attribute9                    OKR_IP_PARTY_RELS_V.ATTRIBUTE9%TYPE := OKC_
API.G_MISS_CHAR,
    attribute10                   OKR_IP_PARTY_RELS_V.ATTRIBUTE10%TYPE := OKC_
API.G_MISS_CHAR,
    attribute11                   OKR_IP_PARTY_RELS_V.ATTRIBUTE11%TYPE := OKC_
API.G_MISS_CHAR,
    attribute12                   OKR_IP_PARTY_RELS_V.ATTRIBUTE12%TYPE := OKC_
API.G_MISS_CHAR,
    attribute13                   OKR_IP_PARTY_RELS_V.ATTRIBUTE13%TYPE := OKC_
API.G_MISS_CHAR,
    attribute14                   OKR_IP_PARTY_RELS_V.ATTRIBUTE14%TYPE := OKC_
API.G_MISS_CHAR,
    attribute15                   OKR_IP_PARTY_RELS_V.ATTRIBUTE15%TYPE := OKC_
API.G_MISS_CHAR,
    created_by                    NUMBER := OKC_API.G_MISS_NUM,
    creation_date                 OKR_IP_PARTY_RELS_V.CREATION_DATE%TYPE :=
OKC_API.G_MISS_DATE,
    last_updated_by               NUMBER := OKC_API.G_MISS_NUM,
    last_update_date              OKR_IP_PARTY_RELS_V.LAST_UPDATE_DATE%TYPE :=
OKC_API.G_MISS_DATE,
    last_update_login             NUMBER := OKC_API.G_MISS_NUM);
  g_miss_pprv_rec                        pprv_rec_type;
  TYPE pprv_tbl_type IS TABLE OF pprv_rec_type
        INDEX BY BINARY_INTEGER;
```

2.10.2 Data Structure pcnv_tbl_type

```
TYPE pcnv_rec_type IS RECORD (
    -- Added Id column for Primary Key - Vasu Jul/31/01
    id                        NUMBER := OKC_API.G_MISS_NUM,
    -- Added Id column for Primary Key - Vasu Jul/31/01
    ip_id                         NUMBER := OKC_API.G_MISS_NUM,
    clsf_type                     OKR_IP_CLASSIFICATIONS_V.CLSF_TYPE%TYPE :=
OKC_API.G_MISS_CHAR,
    clsf_code                     OKR_IP_CLASSIFICATIONS_V.CLSF_CODE%TYPE :=
OKC_API.G_MISS_CHAR,
    object_version_number         NUMBER := OKC_API.G_MISS_NUM,
    created_by                    NUMBER := OKC_API.G_MISS_NUM,
    creation_date                OKR_IP_CLASSIFICATIONS_V.CREATION_DATE%TYPE
:= OKC_API.G_MISS_DATE,
    last_updated_by              NUMBER := OKC_API.G_MISS_NUM,
    last_update_date             OKR_IP_CLASSIFICATIONS_V.LAST_UPDATE_
DATE%TYPE := OKC_API.G_MISS_DATE,
    last_update_login            NUMBER := OKC_API.G_MISS_NUM);
  g_miss_pcnv_rec                       pcnv_rec_type;
  TYPE pcnv_tbl_type IS TABLE OF pcnv_rec_type
        INDEX BY BINARY_INTEGER;
```

2.10.3 Data Structure pmmv_tbl_type

```
TYPE pmmv_rec_type IS RECORD (
    pmm_id                       NUMBER := OKC_API.G_MISS_NUM,
    mdm_code                     OKR_IP_PUB_MEDIA_V.MDM_CODE%TYPE := OKC_
API.G_MISS_CHAR,
    cbn_id                       NUMBER := OKC_API.G_MISS_NUM,
    ip_id                        NUMBER := OKC_API.G_MISS_NUM,
    publication_date             OKR_IP_PUB_MEDIA_V.PUBLICATION_DATE%TYPE :=
OKC_API.G_MISS_DATE,
    isbn                         OKR_IP_PUB_MEDIA_V.ISBN%TYPE := OKC_API.G_
MISS_CHAR,
    lccn                         OKR_IP_PUB_MEDIA_V.LCCN%TYPE := OKC_API.G_
MISS_CHAR,
    page_count                   NUMBER := OKC_API.G_MISS_NUM,
    binding_type                 OKR_IP_PUB_MEDIA_V.BINDING_TYPE%TYPE := OKC_
API.G_MISS_CHAR,
    book_size                    OKR_IP_PUB_MEDIA_V.BOOK_SIZE%TYPE := OKC_
API.G_MISS_CHAR,
    object_version_number        NUMBER := OKC_API.G_MISS_NUM,
    created_by                   NUMBER := OKC_API.G_MISS_NUM,
    creation_date                OKR_IP_PUB_MEDIA_V.CREATION_DATE%TYPE := OKC_
API.G_MISS_DATE,
    last_updated_by              NUMBER := OKC_API.G_MISS_NUM,
    last_update_date             OKR_IP_PUB_MEDIA_V.LAST_UPDATE_DATE%TYPE :=
OKC_API.G_MISS_DATE,
    last_update_login            NUMBER := OKC_API.G_MISS_NUM,
    attribute_category          OKR_IP_PUB_MEDIA_V.ATTRIBUTE_CATEGORY%TYPE :=
OKC_API.G_MISS_CHAR,
    attribute1                   OKR_IP_PUB_MEDIA_V.ATTRIBUTE1%TYPE := OKC_
API.G_MISS_CHAR,
    attribute2                   OKR_IP_PUB_MEDIA_V.ATTRIBUTE2%TYPE := OKC_
API.G_MISS_CHAR,
    attribute3                   OKR_IP_PUB_MEDIA_V.ATTRIBUTE3%TYPE := OKC_
API.G_MISS_CHAR,
    attribute4                    OKR_IP_PUB_MEDIA_V.ATTRIBUTE4%TYPE := OKC_
API.G_MISS_CHAR,
    attribute5                    OKR_IP_PUB_MEDIA_V.ATTRIBUTE5%TYPE := OKC_
API.G_MISS_CHAR,
    attribute6                    OKR_IP_PUB_MEDIA_V.ATTRIBUTE6%TYPE := OKC_
API.G_MISS_CHAR,
    attribute7                    OKR_IP_PUB_MEDIA_V.ATTRIBUTE7%TYPE := OKC_
API.G_MISS_CHAR,
    attribute8                    OKR_IP_PUB_MEDIA_V.ATTRIBUTE8%TYPE := OKC_
API.G_MISS_CHAR,
    attribute9                    OKR_IP_PUB_MEDIA_V.ATTRIBUTE9%TYPE := OKC_
API.G_MISS_CHAR,
    attribute10                   OKR_IP_PUB_MEDIA_V.ATTRIBUTE10%TYPE := OKC_
API.G_MISS_CHAR,
    attribute11                   OKR_IP_PUB_MEDIA_V.ATTRIBUTE11%TYPE := OKC_
API.G_MISS_CHAR,
    attribute12                   OKR_IP_PUB_MEDIA_V.ATTRIBUTE12%TYPE := OKC_
API.G_MISS_CHAR,
    attribute13                   OKR_IP_PUB_MEDIA_V.ATTRIBUTE13%TYPE := OKC_
API.G_MISS_CHAR,
    attribute14                   OKR_IP_PUB_MEDIA_V.ATTRIBUTE14%TYPE := OKC_
API.G_MISS_CHAR,
    attribute15                   OKR_IP_PUB_MEDIA_V.ATTRIBUTE15%TYPE := OKC_
API.G_MISS_CHAR);
  g_miss_pmmv_rec                          pmmv_rec_type;
  TYPE pmmv_tbl_type IS TABLE OF pmmv_rec_type
        INDEX BY BINARY_INTEGER;
```

2.10.4 Data Structure iptv_rec_type

```
TYPE iptv_rec_type IS RECORD (
    ip_type                       OKR_PROP_TYPES_V.IP_TYPE%TYPE := OKC_API.G_
MISS_CHAR,
    ip_type_meaning               OKR_PROP_TYPES_V.IP_TYPE_MEANING%TYPE := OKC_
API.G_MISS_CHAR,
    image_source                  OKR_PROP_TYPES_V.IMAGE_SOURCE%TYPE := OKC_
API.G_MISS_CHAR,
    basic_ip_type                 OKR_PROP_TYPES_V.BASIC_IP_TYPE%TYPE := OKC_
API.G_MISS_CHAR,
    description                   OKR_PROP_TYPES_V.DESCRIPTION%TYPE := OKC_
API.G_MISS_CHAR,
    start_date_active             OKR_PROP_TYPES_V.START_DATE_ACTIVE%TYPE :=
OKC_API.G_MISS_DATE,
    sfwt_flag                   OKR_PROP_TYPES_V.SFWT_FLAG%TYPE := OKC_API.G_
MISS_CHAR,
    end_date_active             OKR_PROP_TYPES_V.END_DATE_ACTIVE%TYPE := OKC_
API.G_MISS_DATE,
    attribute_category          OKR_PROP_TYPES_V.ATTRIBUTE_CATEGORY%TYPE :=
OKC_API.G_MISS_CHAR,
    attribute1                  OKR_PROP_TYPES_V.ATTRIBUTE1%TYPE := OKC_
API.G_MISS_CHAR,
    attribute2                  OKR_PROP_TYPES_V.ATTRIBUTE2%TYPE := OKC_
API.G_MISS_CHAR,
    attribute3                  OKR_PROP_TYPES_V.ATTRIBUTE3%TYPE := OKC_
API.G_MISS_CHAR,
    attribute4                  OKR_PROP_TYPES_V.ATTRIBUTE4%TYPE := OKC_
API.G_MISS_CHAR,
    attribute5                  OKR_PROP_TYPES_V.ATTRIBUTE5%TYPE := OKC_
API.G_MISS_CHAR,
    attribute6                  OKR_PROP_TYPES_V.ATTRIBUTE6%TYPE := OKC_
API.G_MISS_CHAR,
    attribute7                  OKR_PROP_TYPES_V.ATTRIBUTE7%TYPE := OKC_
API.G_MISS_CHAR,
    attribute8                  OKR_PROP_TYPES_V.ATTRIBUTE8%TYPE := OKC_
API.G_MISS_CHAR,
    attribute9                  OKR_PROP_TYPES_V.ATTRIBUTE9%TYPE := OKC_
API.G_MISS_CHAR,
    attribute10                 OKR_PROP_TYPES_V.ATTRIBUTE10%TYPE := OKC_
API.G_MISS_CHAR,
    attribute11                 OKR_PROP_TYPES_V.ATTRIBUTE11%TYPE := OKC_
API.G_MISS_CHAR,
    attribute12                 OKR_PROP_TYPES_V.ATTRIBUTE12%TYPE := OKC_
API.G_MISS_CHAR,
    attribute13                 OKR_PROP_TYPES_V.ATTRIBUTE13%TYPE := OKC_
API.G_MISS_CHAR,
    attribute14                 OKR_PROP_TYPES_V.ATTRIBUTE14%TYPE := OKC_
API.G_MISS_CHAR,
    attribute15                 OKR_PROP_TYPES_V.ATTRIBUTE15%TYPE := OKC_
API.G_MISS_CHAR,
    object_version_number       NUMBER := OKC_API.G_MISS_NUM,
    created_by                  NUMBER := OKC_API.G_MISS_NUM,
    creation_date               OKR_PROP_TYPES_V.CREATION_DATE%TYPE := OKC_
API.G_MISS_DATE,
    last_updated_by             NUMBER := OKC_API.G_MISS_NUM,
    last_update_date            OKR_PROP_TYPES_V.LAST_UPDATE_DATE%TYPE :=
OKC_API.G_MISS_DATE,
    last_update_login           NUMBER := OKC_API.G_MISS_NUM);
  g_miss_iptv_rec                      iptv_rec_type;
  TYPE iptv_tbl_type IS TABLE OF iptv_rec_type
        INDEX BY BINARY_INTEGER;
```

2.10.5 Data Structure ipybv_rec_type

```
TYPE ipybv_rec_type IS RECORD (
    ip_id                          NUMBER := OKC_API.G_MISS_NUM,
    ip_type                        OKR_IP_COMMON_V.IP_TYPE%TYPE := OKC_API.G_
MISS_CHAR,
    ip_identifier                  OKR_IP_COMMON_V.IP_IDENTIFIER%TYPE := OKC_
API.G_MISS_CHAR,
    name                           OKR_IP_COMMON_V.NAME%TYPE := OKC_API.G_MISS_
CHAR,
    subject                        OKR_IP_COMMON_V.SUBJECT%TYPE := OKC_API.G_
MISS_CHAR,
    description                    OKR_IP_COMMON_V.DESCRIPTION%TYPE := OKC_
API.G_MISS_CHAR,
    country_of_origin              OKR_IP_COMMON_V.COUNTRY_OF_ORIGIN%TYPE :=
OKC_API.G_MISS_CHAR,
    ip_lang_code                   OKR_IP_COMMON_V.IP_LANG_CODE%TYPE := OKC_
API.G_MISS_CHAR,
    date_of_creation               OKR_IP_COMMON_V.DATE_OF_CREATION%TYPE := OKC_
API.G_MISS_DATE,
    orig_cprgt_date                OKR_IP_COMMON_V.ORIG_CPRGT_DATE%TYPE := OKC_
API.G_MISS_DATE,
    own_cprgt                      OKR_IP_COMMON_V.OWN_CPRGT%TYPE := OKC_API.G_
MISS_CHAR,
    asset_id                       NUMBER := OKC_API.G_MISS_NUM,
    reference_property             OKR_IP_COMMON_V.REFERENCE_PROPERTY%TYPE :=
OKC_API.G_MISS_CHAR,
    keyword_text                   OKR_IP_COMMON_V.KEYWORD_TEXT%TYPE := OKC_
API.G_MISS_CHAR,
    attach_file_id                 NUMBER := OKC_API.G_MISS_NUM,
    object_version_number          NUMBER := OKC_API.G_MISS_NUM,
    start_date_active              OKR_IP_COMMON_V.START_DATE_ACTIVE%TYPE :=
OKC_API.G_MISS_DATE,
    end_date_active                OKR_IP_COMMON_V.END_DATE_ACTIVE%TYPE := OKC_
API.G_MISS_DATE,
    sfwt_flag                      OKR_IP_COMMON_V.SFWT_FLAG%TYPE := OKC_API.G_
MISS_CHAR,
    attribute_category             OKR_IP_COMMON_V.ATTRIBUTE_CATEGORY%TYPE :=
OKC_API.G_MISS_CHAR,
    attribute1                     OKR_IP_COMMON_V.ATTRIBUTE1%TYPE := OKC_API.G_
MISS_CHAR,
    attribute2                   OKR_IP_COMMON_V.ATTRIBUTE2%TYPE := OKC_API.G_
MISS_CHAR,
    attribute3                   OKR_IP_COMMON_V.ATTRIBUTE3%TYPE := OKC_API.G_
MISS_CHAR,
    attribute4                   OKR_IP_COMMON_V.ATTRIBUTE4%TYPE := OKC_API.G_
MISS_CHAR,
    attribute5                   OKR_IP_COMMON_V.ATTRIBUTE5%TYPE := OKC_API.G_
MISS_CHAR,
    attribute6                   OKR_IP_COMMON_V.ATTRIBUTE6%TYPE := OKC_API.G_
MISS_CHAR,
    attribute7                   OKR_IP_COMMON_V.ATTRIBUTE7%TYPE := OKC_API.G_
MISS_CHAR,
    attribute8                   OKR_IP_COMMON_V.ATTRIBUTE8%TYPE := OKC_API.G_
MISS_CHAR,
    attribute9                   OKR_IP_COMMON_V.ATTRIBUTE9%TYPE := OKC_API.G_
MISS_CHAR,
    attribute10                  OKR_IP_COMMON_V.ATTRIBUTE10%TYPE := OKC_
API.G_MISS_CHAR,
    attribute11                  OKR_IP_COMMON_V.ATTRIBUTE11%TYPE := OKC_
API.G_MISS_CHAR,
    attribute12                  OKR_IP_COMMON_V.ATTRIBUTE12%TYPE := OKC_
API.G_MISS_CHAR,
    attribute13                  OKR_IP_COMMON_V.ATTRIBUTE13%TYPE := OKC_
API.G_MISS_CHAR,
    attribute14                  OKR_IP_COMMON_V.ATTRIBUTE14%TYPE := OKC_
API.G_MISS_CHAR,
    attribute15                  OKR_IP_COMMON_V.ATTRIBUTE15%TYPE := OKC_
API.G_MISS_CHAR,
    created_by                   NUMBER := OKC_API.G_MISS_NUM,
    creation_date                OKR_IP_COMMON_V.CREATION_DATE%TYPE := OKC_
API.G_MISS_DATE,
    last_updated_by              NUMBER := OKC_API.G_MISS_NUM,
    last_update_date             OKR_IP_COMMON_V.LAST_UPDATE_DATE%TYPE := OKC_
API.G_MISS_DATE,
    last_update_login            NUMBER := OKC_API.G_MISS_NUM);
  g_miss_ipybv_rec                      ipybv_rec_type;
  TYPE ipybv_tbl_type IS TABLE OF ipybv_rec_type
        INDEX BY BINARY_INTEGER;
```

2.10.6 Data Structure iswv_rec_type

```
TYPE iswv_rec_type IS RECORD (
    ip_id                        NUMBER := OKC_API.G_MISS_NUM,
    version_number               OKR_IP_SOFTWARE_V.VERSION_NUMBER%TYPE := OKC_
```

```
API.G_MISS_CHAR,
    release_number                  OKR_IP_SOFTWARE_V.RELEASE_NUMBER%TYPE := OKC_
API.G_MISS_CHAR,
    sw_format                       OKR_IP_SOFTWARE_V.SW_FORMAT%TYPE := OKC_
API.G_MISS_CHAR,
    source_lang                     OKR_IP_SOFTWARE_V.SOURCE_LANG%TYPE := OKC_
API.G_MISS_CHAR,
    sfwt_flag                       OKR_IP_SOFTWARE_V.SFWT_FLAG%TYPE := OKC_
API.G_MISS_CHAR,
    attribute_category              OKR_IP_SOFTWARE_V.ATTRIBUTE_CATEGORY%TYPE :=
OKC_API.G_MISS_CHAR,
    attribute1                      OKR_IP_SOFTWARE_V.ATTRIBUTE1%TYPE := OKC_
API.G_MISS_CHAR,
    attribute2                      OKR_IP_SOFTWARE_V.ATTRIBUTE2%TYPE := OKC_
API.G_MISS_CHAR,
    attribute3                      OKR_IP_SOFTWARE_V.ATTRIBUTE3%TYPE := OKC_
API.G_MISS_CHAR,
    attribute4                      OKR_IP_SOFTWARE_V.ATTRIBUTE4%TYPE := OKC_
API.G_MISS_CHAR,
    attribute5                      OKR_IP_SOFTWARE_V.ATTRIBUTE5%TYPE := OKC_
API.G_MISS_CHAR,
    attribute6                      OKR_IP_SOFTWARE_V.ATTRIBUTE6%TYPE := OKC_
API.G_MISS_CHAR,
    attribute7                      OKR_IP_SOFTWARE_V.ATTRIBUTE7%TYPE := OKC_
API.G_MISS_CHAR,
    attribute8                      OKR_IP_SOFTWARE_V.ATTRIBUTE8%TYPE := OKC_
API.G_MISS_CHAR,
    attribute9                      OKR_IP_SOFTWARE_V.ATTRIBUTE9%TYPE := OKC_
API.G_MISS_CHAR,
    attribute10                     OKR_IP_SOFTWARE_V.ATTRIBUTE10%TYPE := OKC_
API.G_MISS_CHAR,
    attribute11                     OKR_IP_SOFTWARE_V.ATTRIBUTE11%TYPE := OKC_
API.G_MISS_CHAR,
    attribute12                     OKR_IP_SOFTWARE_V.ATTRIBUTE12%TYPE := OKC_
API.G_MISS_CHAR,
    attribute13                     OKR_IP_SOFTWARE_V.ATTRIBUTE13%TYPE := OKC_
API.G_MISS_CHAR,
    attribute14                     OKR_IP_SOFTWARE_V.ATTRIBUTE14%TYPE := OKC_
API.G_MISS_CHAR,
    attribute15                     OKR_IP_SOFTWARE_V.ATTRIBUTE15%TYPE := OKC_
API.G_MISS_CHAR,
    object_version_number           NUMBER := OKC_API.G_MISS_NUM,
    creation_date                   OKR_IP_SOFTWARE_V.CREATION_DATE%TYPE := OKC_
API.G_MISS_DATE,
    created_by                      NUMBER := OKC_API.G_MISS_NUM,
    last_updated_by                NUMBER := OKC_API.G_MISS_NUM,
    last_update_date               OKR_IP_SOFTWARE_V.LAST_UPDATE_DATE%TYPE :=
OKC_API.G_MISS_DATE,
    last_update_login              NUMBER := OKC_API.G_MISS_NUM);
  g_miss_iswv_rec                         iswv_rec_type;
  TYPE iswv_tbl_type IS TABLE OF iswv_rec_type
        INDEX BY BINARY_INTEGER;
```

2.10.7 Data Structure ifmv_rec_type

```
TYPE ifmv_rec_type IS RECORD (
    ip_id                          NUMBER := OKC_API.G_MISS_NUM,
    tag_line                       OKR_IP_FILMS_V.TAG_LINE%TYPE := OKC_API.G_
MISS_CHAR,
    plot_outline                   OKR_IP_FILMS_V.PLOT_OUTLINE%TYPE := OKC_
API.G_MISS_CHAR,
    in_color                       OKR_IP_FILMS_V.IN_COLOR%TYPE := OKC_API.G_
MISS_CHAR,
    sound_mix                      OKR_IP_FILMS_V.SOUND_MIX%TYPE := OKC_API.G_
MISS_CHAR,
    duration                       NUMBER := OKC_API.G_MISS_NUM,
    duration_uom                   OKR_IP_FILMS_V.DURATION_UOM%TYPE := OKC_
API.G_MISS_CHAR,
    cinematographic_process        OKR_IP_FILMS_V.CINEMATOGRAPHIC_PROCESS%TYPE
:= OKC_API.G_MISS_CHAR,
    aspect_ratio                   OKR_IP_FILMS_V.ASPECT_RATIO%TYPE := OKC_
API.G_MISS_CHAR,
    film_format                    OKR_IP_FILMS_V.FILM_FORMAT%TYPE := OKC_API.G_
MISS_CHAR,
    budget_amount                  NUMBER := OKC_API.G_MISS_NUM,
    budget_currency                OKR_IP_FILMS_V.BUDGET_CURRENCY%TYPE := OKC_
API.G_MISS_CHAR,
    mpaa_rating                    OKR_IP_FILMS_V.MPAA_RATING%TYPE := OKC_API.G_
MISS_CHAR,
    mpaa_reason                    OKR_IP_FILMS_V.MPAA_REASON%TYPE := OKC_API.G_
MISS_CHAR,
    laboratory                     OKR_IP_FILMS_V.LABORATORY%TYPE := OKC_API.G_
MISS_CHAR,
    camera                         OKR_IP_FILMS_V.CAMERA%TYPE := OKC_API.G_MISS_
CHAR,
    sfwt_flag                      OKR_IP_FILMS_V.SFWT_FLAG%TYPE := OKC_API.G_
MISS_CHAR,
    object_version_number          NUMBER := OKC_API.G_MISS_NUM,
    creation_date                  OKR_IP_FILMS_V.CREATION_DATE%TYPE := OKC_
API.G_MISS_DATE,
    created_by                   NUMBER := OKC_API.G_MISS_NUM,
    last_updated_by              NUMBER := OKC_API.G_MISS_NUM,
    last_update_date             OKR_IP_FILMS_V.LAST_UPDATE_DATE%TYPE := OKC_
API.G_MISS_DATE,
    last_update_login            NUMBER := OKC_API.G_MISS_NUM,
    attribute_category           OKR_IP_FILMS_V.ATTRIBUTE_CATEGORY%TYPE :=
OKC_API.G_MISS_CHAR,
    attribute1                   OKR_IP_FILMS_V.ATTRIBUTE1%TYPE := OKC_API.G_
MISS_CHAR,
    attribute2                   OKR_IP_FILMS_V.ATTRIBUTE2%TYPE := OKC_API.G_
MISS_CHAR,
    attribute3                   OKR_IP_FILMS_V.ATTRIBUTE3%TYPE := OKC_API.G_
MISS_CHAR,
    attribute4                   OKR_IP_FILMS_V.ATTRIBUTE4%TYPE := OKC_API.G_
MISS_CHAR,
    attribute5                   OKR_IP_FILMS_V.ATTRIBUTE5%TYPE := OKC_API.G_
MISS_CHAR,
    attribute6                   OKR_IP_FILMS_V.ATTRIBUTE6%TYPE := OKC_API.G_
MISS_CHAR,
    attribute7                   OKR_IP_FILMS_V.ATTRIBUTE7%TYPE := OKC_API.G_
MISS_CHAR,
    attribute8                   OKR_IP_FILMS_V.ATTRIBUTE8%TYPE := OKC_API.G_
MISS_CHAR,
    attribute9                   OKR_IP_FILMS_V.ATTRIBUTE9%TYPE := OKC_API.G_
MISS_CHAR,
    attribute10                  OKR_IP_FILMS_V.ATTRIBUTE10%TYPE := OKC_API.G_
MISS_CHAR,
    attribute11                  OKR_IP_FILMS_V.ATTRIBUTE11%TYPE := OKC_API.G_
MISS_CHAR,
    attribute12                  OKR_IP_FILMS_V.ATTRIBUTE12%TYPE := OKC_API.G_
MISS_CHAR,
    attribute13                  OKR_IP_FILMS_V.ATTRIBUTE13%TYPE := OKC_API.G_
MISS_CHAR,
    attribute14                  OKR_IP_FILMS_V.ATTRIBUTE14%TYPE := OKC_API.G_
MISS_CHAR,
    attribute15                  OKR_IP_FILMS_V.ATTRIBUTE15%TYPE := OKC_API.G_
MISS_CHAR);
  g_miss_ifmv_rec                         ifmv_rec_type;
  TYPE ifmv_tbl_type IS TABLE OF ifmv_rec_type
        INDEX BY BINARY_INTEGER;
```

2.10.8 Data Structure ilwv_rec_type

```
TYPE ilwv_rec_type IS RECORD (
    ip_id                          NUMBER := OKC_API.G_MISS_NUM,
    object_version_number          NUMBER := OKC_API.G_MISS_NUM,
    sfwt_flag                      OKR_IP_LITWORKS_V.SFWT_FLAG%TYPE := OKC_
API.G_MISS_CHAR,
    attribute_category             OKR_IP_LITWORKS_V.ATTRIBUTE_CATEGORY%TYPE :=
OKC_API.G_MISS_CHAR,
    attribute1                     OKR_IP_LITWORKS_V.ATTRIBUTE1%TYPE := OKC_
API.G_MISS_CHAR,
    attribute2                     OKR_IP_LITWORKS_V.ATTRIBUTE2%TYPE := OKC_
API.G_MISS_CHAR,
    attribute3                     OKR_IP_LITWORKS_V.ATTRIBUTE3%TYPE := OKC_
API.G_MISS_CHAR,
    attribute4                     OKR_IP_LITWORKS_V.ATTRIBUTE4%TYPE := OKC_
API.G_MISS_CHAR,
    attribute5                     OKR_IP_LITWORKS_V.ATTRIBUTE5%TYPE := OKC_
API.G_MISS_CHAR,
    attribute6                     OKR_IP_LITWORKS_V.ATTRIBUTE6%TYPE := OKC_
API.G_MISS_CHAR,
    attribute7                     OKR_IP_LITWORKS_V.ATTRIBUTE7%TYPE := OKC_
API.G_MISS_CHAR,
    attribute8                     OKR_IP_LITWORKS_V.ATTRIBUTE8%TYPE := OKC_
API.G_MISS_CHAR,
    attribute9                     OKR_IP_LITWORKS_V.ATTRIBUTE9%TYPE := OKC_
API.G_MISS_CHAR,
    attribute10                    OKR_IP_LITWORKS_V.ATTRIBUTE10%TYPE := OKC_
API.G_MISS_CHAR,
    attribute11                    OKR_IP_LITWORKS_V.ATTRIBUTE11%TYPE := OKC_
API.G_MISS_CHAR,
    attribute12                    OKR_IP_LITWORKS_V.ATTRIBUTE12%TYPE := OKC_
API.G_MISS_CHAR,
    attribute13                    OKR_IP_LITWORKS_V.ATTRIBUTE13%TYPE := OKC_
API.G_MISS_CHAR,
    attribute14                    OKR_IP_LITWORKS_V.ATTRIBUTE14%TYPE := OKC_
API.G_MISS_CHAR,
    attribute15                    OKR_IP_LITWORKS_V.ATTRIBUTE15%TYPE := OKC_
API.G_MISS_CHAR,
    creation_date                  OKR_IP_LITWORKS_V.CREATION_DATE%TYPE := OKC_
API.G_MISS_DATE,
    created_by                     NUMBER := OKC_API.G_MISS_NUM,
    last_updated_by                NUMBER := OKC_API.G_MISS_NUM,
    last_update_date               OKR_IP_LITWORKS_V.LAST_UPDATE_DATE%TYPE :=
OKC_API.G_MISS_DATE,
    word_count                   NUMBER := OKC_API.G_MISS_NUM,
    edition                      OKR_IP_LITWORKS_V.EDITION%TYPE := OKC_API.G_
MISS_CHAR,
    last_update_login            NUMBER := OKC_API.G_MISS_NUM);
  g_miss_ilwv_rec                       ilwv_rec_type;
  TYPE ilwv_tbl_type IS TABLE OF ilwv_rec_type
        INDEX BY BINARY_INTEGER;
```

2.10.9 Data Structure ifmv_rec_type

```
TYPE ipobv_rec_type IS RECORD (
    ip_id                        NUMBER := OKC_API.G_MISS_NUM,
    object_version_number        NUMBER := OKC_API.G_MISS_NUM,
    sfwt_flag                    OKR_IP_PHOTOS_V.SFWT_FLAG%TYPE := OKC_API.G_
MISS_CHAR,
    place                        OKR_IP_PHOTOS_V.PLACE%TYPE := OKC_API.G_MISS_
CHAR,
    color                        OKR_IP_PHOTOS_V.COLOR%TYPE := OKC_API.G_MISS_
CHAR,
    resolution                   OKR_IP_PHOTOS_V.RESOLUTION%TYPE := OKC_API.G_
MISS_CHAR,
    photo_size                   OKR_IP_PHOTOS_V.PHOTO_SIZE%TYPE := OKC_API.G_
MISS_CHAR,
    film_type                    OKR_IP_PHOTOS_V.FILM_TYPE%TYPE := OKC_API.G_
MISS_CHAR,
    film_mfr                     OKR_IP_PHOTOS_V.FILM_MFR%TYPE := OKC_API.G_
MISS_CHAR,
    attribute_category           OKR_IP_PHOTOS_V.ATTRIBUTE_CATEGORY%TYPE :=
OKC_API.G_MISS_CHAR,
    attribute1                   OKR_IP_PHOTOS_V.ATTRIBUTE1%TYPE := OKC_API.G_
MISS_CHAR,
    attribute2                   OKR_IP_PHOTOS_V.ATTRIBUTE2%TYPE := OKC_API.G_
MISS_CHAR,
    attribute3                   OKR_IP_PHOTOS_V.ATTRIBUTE3%TYPE := OKC_API.G_
MISS_CHAR,
    attribute4                   OKR_IP_PHOTOS_V.ATTRIBUTE4%TYPE := OKC_API.G_
MISS_CHAR,
    attribute5                   OKR_IP_PHOTOS_V.ATTRIBUTE5%TYPE := OKC_API.G_
MISS_CHAR,
    attribute6                   OKR_IP_PHOTOS_V.ATTRIBUTE6%TYPE := OKC_API.G_
MISS_CHAR,
    attribute7                   OKR_IP_PHOTOS_V.ATTRIBUTE7%TYPE := OKC_API.G_
MISS_CHAR,
    attribute8                   OKR_IP_PHOTOS_V.ATTRIBUTE8%TYPE := OKC_API.G_
MISS_CHAR,
    attribute9                  OKR_IP_PHOTOS_V.ATTRIBUTE9%TYPE := OKC_API.G_
MISS_CHAR,
    attribute10                 OKR_IP_PHOTOS_V.ATTRIBUTE10%TYPE := OKC_
API.G_MISS_CHAR,
    attribute11                 OKR_IP_PHOTOS_V.ATTRIBUTE11%TYPE := OKC_
API.G_MISS_CHAR,
    attribute12                 OKR_IP_PHOTOS_V.ATTRIBUTE12%TYPE := OKC_
API.G_MISS_CHAR,
    attribute13                 OKR_IP_PHOTOS_V.ATTRIBUTE13%TYPE := OKC_
API.G_MISS_CHAR,
    attribute14                 OKR_IP_PHOTOS_V.ATTRIBUTE14%TYPE := OKC_
API.G_MISS_CHAR,
    attribute15                 OKR_IP_PHOTOS_V.ATTRIBUTE15%TYPE := OKC_
API.G_MISS_CHAR,
    creation_date               OKR_IP_PHOTOS_V.CREATION_DATE%TYPE := OKC_
API.G_MISS_DATE,
    created_by                  NUMBER := OKC_API.G_MISS_NUM,
    last_updated_by             NUMBER := OKC_API.G_MISS_NUM,
    last_update_date            OKR_IP_PHOTOS_V.LAST_UPDATE_DATE%TYPE := OKC_
API.G_MISS_DATE,
    last_update_login           NUMBER := OKC_API.G_MISS_NUM);
  g_miss_ipobv_rec                     ipobv_rec_type;
  TYPE ipobv_tbl_type IS TABLE OF ipobv_rec_type
        INDEX BY BINARY_INTEGER;
```

2.10.10 Data Structure ipobv_rec_type

```
TYPE ipobv_rec_type IS RECORD (
    ip_id                       NUMBER := OKC_API.G_MISS_NUM,
    object_version_number       NUMBER := OKC_API.G_MISS_NUM,
    sfwt_flag                   OKR_IP_PHOTOS_V.SFWT_FLAG%TYPE := OKC_API.G_
MISS_CHAR,
    place                       OKR_IP_PHOTOS_V.PLACE%TYPE := OKC_API.G_MISS_
CHAR,
    color                       OKR_IP_PHOTOS_V.COLOR%TYPE := OKC_API.G_MISS_
CHAR,
    resolution                  OKR_IP_PHOTOS_V.RESOLUTION%TYPE := OKC_API.G_
MISS_CHAR,
    photo_size                  OKR_IP_PHOTOS_V.PHOTO_SIZE%TYPE := OKC_API.G_
MISS_CHAR,
    film_type                   OKR_IP_PHOTOS_V.FILM_TYPE%TYPE := OKC_API.G_
MISS_CHAR,
    film_mfr                    OKR_IP_PHOTOS_V.FILM_MFR%TYPE := OKC_API.G_
MISS_CHAR,
    attribute_category              OKR_IP_PHOTOS_V.ATTRIBUTE_CATEGORY%TYPE :=
OKC_API.G_MISS_CHAR,
    attribute1                      OKR_IP_PHOTOS_V.ATTRIBUTE1%TYPE := OKC_API.G_
MISS_CHAR,
    attribute2                      OKR_IP_PHOTOS_V.ATTRIBUTE2%TYPE := OKC_API.G_
MISS_CHAR,
    attribute3                      OKR_IP_PHOTOS_V.ATTRIBUTE3%TYPE := OKC_API.G_
MISS_CHAR,
    attribute4                      OKR_IP_PHOTOS_V.ATTRIBUTE4%TYPE := OKC_API.G_
MISS_CHAR,
    attribute5                      OKR_IP_PHOTOS_V.ATTRIBUTE5%TYPE := OKC_API.G_
MISS_CHAR,
    attribute6                      OKR_IP_PHOTOS_V.ATTRIBUTE6%TYPE := OKC_API.G_
MISS_CHAR,
    attribute7                      OKR_IP_PHOTOS_V.ATTRIBUTE7%TYPE := OKC_API.G_
MISS_CHAR,
    attribute8                      OKR_IP_PHOTOS_V.ATTRIBUTE8%TYPE := OKC_API.G_
MISS_CHAR,
    attribute9                      OKR_IP_PHOTOS_V.ATTRIBUTE9%TYPE := OKC_API.G_
MISS_CHAR,
    attribute10                     OKR_IP_PHOTOS_V.ATTRIBUTE10%TYPE := OKC_
API.G_MISS_CHAR,
    attribute11                     OKR_IP_PHOTOS_V.ATTRIBUTE11%TYPE := OKC_
API.G_MISS_CHAR,
    attribute12                     OKR_IP_PHOTOS_V.ATTRIBUTE12%TYPE := OKC_
API.G_MISS_CHAR,
    attribute13                     OKR_IP_PHOTOS_V.ATTRIBUTE13%TYPE := OKC_
API.G_MISS_CHAR,
    attribute14                     OKR_IP_PHOTOS_V.ATTRIBUTE14%TYPE := OKC_
API.G_MISS_CHAR,
    attribute15                     OKR_IP_PHOTOS_V.ATTRIBUTE15%TYPE := OKC_
API.G_MISS_CHAR,
    creation_date                   OKR_IP_PHOTOS_V.CREATION_DATE%TYPE := OKC_
API.G_MISS_DATE,
    created_by                      NUMBER := OKC_API.G_MISS_NUM,
    last_updated_by                 NUMBER := OKC_API.G_MISS_NUM,
    last_update_date                OKR_IP_PHOTOS_V.LAST_UPDATE_DATE%TYPE := OKC_
API.G_MISS_DATE,
    last_update_login               NUMBER := OKC_API.G_MISS_NUM);
  g_miss_ipobv_rec                         ipobv_rec_type;
  TYPE ipobv_tbl_type IS TABLE OF ipobv_rec_type
        INDEX BY BINARY_INTEGER;
```

2.10.11 Data Structure iirv_rec_type

```
TYPE iirv_rec_type IS RECORD (
    iir_id                          NUMBER := OKC_API.G_MISS_NUM,
    ip_id                           NUMBER := OKC_API.G_MISS_NUM,
    item_id1                        NUMBER := OKC_API.G_MISS_NUM,
    item_id2                        NUMBER := OKC_API.G_MISS_NUM,
    chr_id                          NUMBER := OKC_API.G_MISS_NUM,
    rgt_cle_id                      NUMBER := OKC_API.G_MISS_NUM,
    description                     OKR_IP_ITEM_RELS_V.DESCRIPTION%TYPE
:= OKC_API.G_MISS_CHAR,
    note                            OKR_IP_ITEM_RELS_V.NOTE%TYPE :=
OKC_API.G_MISS_CHAR,
    start_date                      OKR_IP_ITEM_RELS_V.START_DATE%TYPE :=
OKC_API.G_MISS_DATE,
    end_date                        OKR_IP_ITEM_RELS_V.END_DATE%TYPE :=
OKC_API.G_MISS_DATE,
    object_version_number           NUMBER := OKC_API.G_MISS_NUM,
    created_by                      NUMBER := OKC_API.G_MISS_NUM,
    creation_date                   OKR_IP_ITEM_RELS_V.CREATION_DATE%TYPE
:= OKC_API.G_MISS_DATE,
    last_updated_by                 NUMBER := OKC_API.G_MISS_NUM,
    last_update_date
OKR_IP_ITEM_RELS_V.LAST_UPDATE_DATE%TYPE := OKC_API.G_MISS_DATE,
    last_update_login               NUMBER := OKC_API.G_MISS_NUM,
    attribute_category
OKR_IP_ITEM_RELS_V.ATTRIBUTE_CATEGORY%TYPE := OKC_API.G_MISS_CHAR,
    attribute1                      OKR_IP_ITEM_RELS_V.ATTRIBUTE1%TYPE :=
OKC_API.G_MISS_CHAR,
    attribute2                      OKR_IP_ITEM_RELS_V.ATTRIBUTE2%TYPE :=
OKC_API.G_MISS_CHAR,
    attribute3                      OKR_IP_ITEM_RELS_V.ATTRIBUTE3%TYPE :=
OKC_API.G_MISS_CHAR,
    attribute4                      OKR_IP_ITEM_RELS_V.ATTRIBUTE4%TYPE :=
OKC_API.G_MISS_CHAR,
    attribute5                      OKR_IP_ITEM_RELS_V.ATTRIBUTE5%TYPE :=
OKC_API.G_MISS_CHAR,
    attribute6                      OKR_IP_ITEM_RELS_V.ATTRIBUTE6%TYPE :=
OKC_API.G_MISS_CHAR,
    attribute7                      OKR_IP_ITEM_RELS_V.ATTRIBUTE7%TYPE :=
OKC_API.G_MISS_CHAR,
    attribute8                      OKR_IP_ITEM_RELS_V.ATTRIBUTE8%TYPE :=
OKC_API.G_MISS_CHAR,
    attribute9                      OKR_IP_ITEM_RELS_V.ATTRIBUTE9%TYPE :=
OKC_API.G_MISS_CHAR,
    attribute10                    OKR_IP_ITEM_RELS_V.ATTRIBUTE10%TYPE
:= OKC_API.G_MISS_CHAR,
    attribute11                    OKR_IP_ITEM_RELS_V.ATTRIBUTE11%TYPE
:= OKC_API.G_MISS_CHAR,
    attribute12                    OKR_IP_ITEM_RELS_V.ATTRIBUTE12%TYPE
:= OKC_API.G_MISS_CHAR,
    attribute13                    OKR_IP_ITEM_RELS_V.ATTRIBUTE13%TYPE
:= OKC_API.G_MISS_CHAR,
    attribute14                    OKR_IP_ITEM_RELS_V.ATTRIBUTE14%TYPE
:= OKC_API.G_MISS_CHAR,
    attribute15                    OKR_IP_ITEM_RELS_V.ATTRIBUTE15%TYPE
:= OKC_API.G_MISS_CHAR);
  g_miss_iirv_rec                         iirv_rec_type;
  TYPE iirv_tbl_type IS TABLE OF iirv_rec_type
        INDEX BY BINARY_INTEGER;
```

2.10.12 Data Structure okrcomrectype

```
  TYPE okrcomrectype IS RECORD (
    job_number        NUMBER := OKC_API.G_MISS_NUM,
    system_action     VARCHAR2(30) := OKC_API.G_MISS_CHAR,
    basic_ip_type     VARCHAR2(30) := OKC_API.G_MISS_CHAR,
    ip_id             NUMBER := OKC_API.G_MISS_NUM,
    ip_type           OKR_IP_COMMON_V.IP_TYPE%TYPE := OKC_API.G_MISS_CHAR,
    ip_identifier     OKR_IP_COMMON_V.IP_IDENTIFIER%TYPE := OKC_API.G_MISS_CHAR,
    name              OKR_IP_COMMON_V.NAME%TYPE := OKC_API.G_MISS_CHAR,
    subject           OKR_IP_COMMON_V.SUBJECT%TYPE := OKC_API.G_MISS_CHAR,
    description       OKR_IP_COMMON_V.DESCRIPTION%TYPE := OKC_API.G_MISS_CHAR,
    country_of_origin OKR_IP_COMMON_V.COUNTRY_OF_ORIGIN%TYPE := OKC_API.G_MISS_
CHAR,
    ip_lang_code      OKR_IP_COMMON_V.IP_LANG_CODE%TYPE := OKC_API.G_MISS_CHAR,
    date_of_creation  OKR_IP_COMMON_V.DATE_OF_CREATION%TYPE := OKC_API.G_MISS_
DATE,
    orig_cprgt_date OKR_IP_COMMON_V.ORIG_CPRGT_DATE%TYPE := OKC_API.G_MISS_DATE,
    own_cprgt       OKR_IP_COMMON_V.OWN_CPRGT%TYPE := OKC_API.G_MISS_CHAR,
    asset_id        NUMBER := OKC_API.G_MISS_NUM,
    reference_property OKR_IP_COMMON_V.REFERENCE_PROPERTY%TYPE := OKC_API.G_
MISS_CHAR,
    keyword_text       OKR_IP_COMMON_V.KEYWORD_TEXT%TYPE := OKC_API.G_MISS_CHAR,
    attach_file_id     NUMBER := OKC_API.G_MISS_NUM,
    object_version_number      NUMBER := OKC_API.G_MISS_NUM,
    start_date_active OKR_IP_COMMON_V.START_DATE_ACTIVE%TYPE := OKC_API.G_MISS_
DATE,
    end_date_active OKR_IP_COMMON_V.END_DATE_ACTIVE%TYPE := OKC_API.G_MISS_DATE,
        --softwares
    version_number OKR_IP_SOFTWARE_V.VERSION_NUMBER%TYPE := OKC_API.G_MISS_CHAR,
    release_number OKR_IP_SOFTWARE_V.RELEASE_NUMBER%TYPE := OKC_API.G_MISS_CHAR,
    sw_format         OKR_IP_SOFTWARE_V.SW_FORMAT%TYPE := OKC_API.G_MISS_CHAR,
    source_lang       OKR_IP_SOFTWARE_V.SOURCE_LANG%TYPE := OKC_API.G_MISS_CHAR,

     --films
    tag_line          OKR_IP_FILMS_V.TAG_LINE%TYPE := OKC_API.G_MISS_CHAR,
    plot_outline      OKR_IP_FILMS_V.PLOT_OUTLINE%TYPE := OKC_API.G_MISS_CHAR,
    in_color          OKR_IP_FILMS_V.IN_COLOR%TYPE := OKC_API.G_MISS_CHAR,
    sound_mix         OKR_IP_FILMS_V.SOUND_MIX%TYPE := OKC_API.G_MISS_CHAR,
    duration          NUMBER := OKC_API.G_MISS_NUM,
    duration_uom      OKR_IP_FILMS_V.DURATION_UOM%TYPE := OKC_API.G_MISS_CHAR,
    cinematographic_process        OKR_IP_FILMS_V.CINEMATOGRAPHIC_PROCESS%TYPE
:= OKC_API.G_MISS_CHAR,
    aspect_ratio     OKR_IP_FILMS_V.ASPECT_RATIO%TYPE := OKC_API.G_MISS_CHAR,
    film_format      OKR_IP_FILMS_V.FILM_FORMAT%TYPE := OKC_API.G_MISS_CHAR,
    budget_amount    NUMBER := OKC_API.G_MISS_NUM,
    budget_currency  OKR_IP_FILMS_V.BUDGET_CURRENCY%TYPE := OKC_API.G_MISS_CHAR,
    mpaa_rating      OKR_IP_FILMS_V.MPAA_RATING%TYPE := OKC_API.G_MISS_CHAR,
    mpaa_reason      OKR_IP_FILMS_V.MPAA_REASON%TYPE := OKC_API.G_MISS_CHAR,
    laboratory       OKR_IP_FILMS_V.LABORATORY%TYPE := OKC_API.G_MISS_CHAR,
    camera           OKR_IP_FILMS_V.CAMERA%TYPE := OKC_API.G_MISS_CHAR,
    --photos
    place            OKR_IP_PHOTOS_V.PLACE%TYPE := OKC_API.G_MISS_CHAR,
    color            OKR_IP_PHOTOS_V.COLOR%TYPE := OKC_API.G_MISS_CHAR,
    resolution       OKR_IP_PHOTOS_V.RESOLUTION%TYPE := OKC_API.G_MISS_CHAR,
    photo_size       OKR_IP_PHOTOS_V.PHOTO_SIZE%TYPE := OKC_API.G_MISS_CHAR,
    film_type        OKR_IP_PHOTOS_V.FILM_TYPE%TYPE := OKC_API.G_MISS_CHAR,
    film_mfr         OKR_IP_PHOTOS_V.FILM_MFR%TYPE := OKC_API.G_MISS_CHAR,
    --litworks
    word_count       NUMBER := OKC_API.G_MISS_NUM,
    edition          OKR_IP_LITWORKS_V.EDITION%TYPE := OKC_API.G_MISS_CHAR,
    --
    sfwt_flag        OKR_IP_COMMON_V.SFWT_FLAG%TYPE := OKC_API.G_MISS_CHAR,
    attribute_category    OKR_IP_COMMON_V.ATTRIBUTE_CATEGORY%TYPE := OKC_API.G_
MISS_CHAR,
    attribute1          OKR_IP_COMMON_V.ATTRIBUTE1%TYPE := OKC_API.G_MISS_CHAR,
    attribute2          OKR_IP_COMMON_V.ATTRIBUTE2%TYPE := OKC_API.G_MISS_CHAR,
    attribute3          OKR_IP_COMMON_V.ATTRIBUTE3%TYPE := OKC_API.G_MISS_CHAR,
    attribute4          OKR_IP_COMMON_V.ATTRIBUTE4%TYPE := OKC_API.G_MISS_CHAR,
    attribute5          OKR_IP_COMMON_V.ATTRIBUTE5%TYPE := OKC_API.G_MISS_CHAR,
    attribute6          OKR_IP_COMMON_V.ATTRIBUTE6%TYPE := OKC_API.G_MISS_CHAR,
    attribute7          OKR_IP_COMMON_V.ATTRIBUTE7%TYPE := OKC_API.G_MISS_CHAR,
    attribute8          OKR_IP_COMMON_V.ATTRIBUTE8%TYPE := OKC_API.G_MISS_CHAR,
    attribute9         OKR_IP_COMMON_V.ATTRIBUTE9%TYPE := OKC_API.G_MISS_CHAR,
    attribute10        OKR_IP_COMMON_V.ATTRIBUTE10%TYPE := OKC_API.G_MISS_CHAR,
    attribute11        OKR_IP_COMMON_V.ATTRIBUTE11%TYPE := OKC_API.G_MISS_CHAR,
    attribute12        OKR_IP_COMMON_V.ATTRIBUTE12%TYPE := OKC_API.G_MISS_CHAR,
    attribute13        OKR_IP_COMMON_V.ATTRIBUTE13%TYPE := OKC_API.G_MISS_CHAR,
    attribute14        OKR_IP_COMMON_V.ATTRIBUTE14%TYPE := OKC_API.G_MISS_CHAR,
    attribute15        OKR_IP_COMMON_V.ATTRIBUTE15%TYPE := OKC_API.G_MISS_CHAR,
    created_by         NUMBER := OKC_API.G_MISS_NUM,
    creation_date    OKR_IP_COMMON_V.CREATION_DATE%TYPE := OKC_API.G_MISS_DATE,
    last_updated_by  NUMBER := OKC_API.G_MISS_NUM,
    last_update_date OKR_IP_COMMON_V.LAST_UPDATE_DATE%TYPE := OKC_API.G_MISS_
DATE,
    last_update_login             NUMBER := OKC_API.G_MISS_NUM );

  g_okrcomrectype                 okrcomrectype;

  TYPE OkrComTabType IS TABLE OF okrcomrectype
        INDEX BY BINARY_INTEGER;
```

3 Contract Catalog Public APIs

The Contracts area of Oracle Contracts for Rights provides a common framework for defining, maintaining and viewing different kinds of contracts and templates that may involve rights. It also acts as the central repository and provides a consistent API interface for other modules. The Contracts area uses the Core Contracts APIs for storing the contracts related information.

3.1 Contract Catalog Public Packages

The Contract catalog public packages are:

- OKR_CONTRACT_PUB, see Table 3–1, "Contract Creation APIs".
- OKR_SECTIONS_PUB, see Table 3–2, "Contract Sections APIs".
- OKR_K_ARTICLE_PUB, see Table 3–3, "Contract Articles APIs".
- OKR_ATTACHMENTS_PUB, see Table 3–4, "Contract Attachments APIs".
- OKR_QA_CHECK_PUB, see Table 3–5, "Contract QA Check APIs".
- OKR_CONTRACT_APPROVAL_PUB, see Table 3–6, "Contract Approval APIs".
- OKR_VERSION_PUB, see Table 3–7, "Contract Version APIs".
- OKR_COPY_CONTRACT_PUB, see Table 3–8, "Contract Copy APIs".

The following tables describe the preceding Contracts catalog public APIs.

Table 3–1 Contract Creation APIs

Name	Description
Create Header	This procedure creates an intellectual property contract header.
Update Header	This procedure updates an intellectual property contract header.

Table 3–1 Contract Creation APIs (Cont.)

Name	Description
Create Party	This procedure creates a party for an intellectual property contract.
Update Party	This procedure updates a party for an intellectual property contract.
Delete Party	This procedure deletes a party for an intellectual property contract.
Create Party Contact	This procedure creates a party contract for an intellectual property contract.
Update Party Contact	This procedure updates a party contact for an intellectual property contract.
Delete Party Contact	This procedure deletes a party contact for an intellectual property contract.
Create Line	This procedure creates an intellectual property contract line.
Update Line	This procedure creates an intellectual property contract line.
Delete Line	This procedure creates an intellectual property contract line.

Table 3–2 Contract Sections APIs

Name	Description
Create Section	This procedure creates a section for the contract.
Update Section	This procedure updates a section for the contract.
Delete Section	This procedure deletes a section for the contract.
Create Section Content	This procedure creates a section content for the contract.
Update Section Content	This procedure updates a section content for the contract.
Delete Section Content	This procedure deletes a section content for the contract.

Table 3–3 Contract Articles APIs

Name	Description
Create Contract Article	This procedure creates an article for the contract, which can be a standard or non-standard article.

Table 3–3 Contract Articles APIs (Cont.)

Name	Description
Update Contract Article	This procedure updates an article for the contract, which can be a standard or non-standard article.
Delete Contract Article	This procedure deletes an article for the contract, which can be a standard or non-standard article.

Table 3–4 Contract Attachments APIs

Name	Description
Create Attachment	This procedure creates an attachment for the contract, which can be a Microsoft Word file, an HTML file, a PDF, or a scanned picture.
Update Attachment	This procedure creates an attachment for the contract, which can be a Microsoft Word file, an HTML file, a PDF, or a scanned picture.
Delete Attachment	This procedure creates an attachment for the contract, which can be a Microsoft Word file, an HTML file, a PDF, or a scanned picture.

Table 3–5 Contract QA Check APIs

Name	Description
Execute QA Check List	This procedure performs the QA check for the contract according to the selected check list.

Table 3–6 Contract Approval APIs

Name	Description
Contract Approval Start	This procedure starts the workflow approval process for the selected contract.

Table 3–7 Contract Version APIs

Name	Description
Version Contract	This procedure creates a major version for a contract.
Save Version	This procedure saves a major version for a contract.
Erase Saved Version	This procedure erases a saved major version for a contract.
Restore Version	This procedure restores a major version for a contract.

Table 3–8 Contract Copy APIs

Name	Description
Copy Contract	This procedure copies a particular contract's header information.
Copy Contract Lines	This procedure copies a particular contract's line information.
Copy Rules	This procedure copies a particular contract's rule information.
Copy Party Roles	This procedure copies a particular contract's party role information.
Copy Articles	This procedure copies a particular contract's article information.

3.2 Package OKR_IP_PUB

This package contains the following procedures.

- Create Header
- Update Header
- Create Party
- Update Party
- Delete Party
- Create Party Contact
- Update Party Contact
- Delete Party Contact
- Create Line
- Update Line
- Delete Line

3.2.1 Create Header

Procedure Specification

```
PROCEDURE create_header(

     p_api_version           IN NUMBER,

     p_init_msg_list         IN VARCHAR2 DEFAULT OKC_API.G_FALSE,
    x_return_status         OUT NOCOPY VARCHAR2,

    x_msg_count             OUT NOCOPY NUMBER,

    x_msg_data              OUT NOCOPY VARCHAR2,

    p_ip_id                 IN NUMBER,

    p_contract_type_id      IN NUMBER,

    p_k_header_rec          IN  k_header_rec_type,

    x_header_id             OUT NUMBER);
```

Current Version

1.0

Table 3–9 Create Header IN Parameters

Parameter	Data Type	Required	Description and Validation
p_api_version	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_init_msg_list	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_ip_id	NUMBER	Yes	Intellectual property ID
p_contract_type_id	NUMBER	Yes	Contract Type ID
p_k_header_rec	k_header_rec_type	Yes	See "Data Structure k_header_rec_type" on page 3-54.

Table 3–10 Create Header OUT Parameters

Parameter	Data Type	Required	Description and Validation
x_return_status	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_count	NUMBER	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_data	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_header_id	NUMBER	Yes	Contract Header ID.

3.2.2 Update Header

Procedure Specification

```
 PROCEDURE update_header(

p_api_version           IN NUMBER,

p_init_msg_list         IN VARCHAR2 DEFAULT OKC_API.G_FALSE,

x_return_status         OUT NOCOPY VARCHAR2,

x_msg_count             OUT NOCOPY NUMBER,

x_msg_data              OUT NOCOPY VARCHAR2,

p_ip_id IN NUMBER,

p_contract_type_id IN NUMBER,

p_k_header_rec                 IN  k_header_rec_type);
```

Current Version

1.0

Table 3–11 Update Header IN Parameters

Parameter	Data Type	Required	Description and Validation
p_api_version	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_init_msg_list	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_ip_id	NUMBER	Yes	Intellectual property ID
p_contract_type_id	NUMBER	Yes	Contract Type ID
p_k_header_rec	k_header_rec_type	Yes	See "Data Structure k_header_rec_type" on page 3-54.

Table 3–12 Update Header OUT Parameters

Parameter	Data Type	Required	Description and Validation
x_return_status	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_count	NUMBER	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_data	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.

3.2.3 Create Party

Procedure Specification

```
PROCEDURE create_party(

     p_api_version          IN   NUMBER,

     p_init_msg_list        IN   VARCHAR2 default OKC_API.G_FALSE,
x_return_status        OUT NOCOPY     VARCHAR2,

x_msg_count            OUT NOCOPY     NUMBER,

x_msg_data             OUT NOCOPY     VARCHAR2,

p_party_rec            IN   party_rec_type,

x_party_role_id        OUT NUMBER);
```

Current Version

1.0

Table 3–13 Create Party IN Parameters

Parameter	Data Type	Required	Description and Validation
p_api_version	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_init_msg_list	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_party_rec	party_rec_type	Yes	See "Data Structure party_rec_type" on page 3-56.

Table 3–14 Create Party OUT Parameters

Parameter	Data Type	Required	Description and Validation
x_return_status	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_count	NUMBER	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_data	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.

Table 3–14 Create Party OUT Parameters (Cont.)

Parameter	Data Type	Required	Description and Validation
x_party_role_id	NUMBER	Yes	Party Role ID

3.2.4 Update Party

Procedure Specification

```
PROCEDURE update_party(

     p_api_version          IN   NUMBER,

     p_init_msg_list        IN   VARCHAR2 default OKC_API.G_FALSE,

     x_return_status        OUT NOCOPY     VARCHAR2,

     x_msg_count            OUT NOCOPY     NUMBER,

     x_msg_data             OUT NOCOPY     VARCHAR2,

     p_party_rec            IN   party_rec_type);
```

Current Version

1.0

Table 3–15 Update Party IN Parameters

Parameter	Data Type	Required	Description and Validation
p_api_version	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_init_msg_list	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_party_rec	party_rec_type	Yes	See "Data Structure party_rec_type" on page 3-56.

Table 3–16 Update Party OUT Parameters

Parameter	Data Type	Required	Description and Validation
x_return_status	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_count	NUMBER	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_data	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.

3.2.5 Delete Party

Procedure Specification

```
PROCEDURE delete_party(

     p_api_version          IN   NUMBER,

     p_init_msg_list        IN   VARCHAR2 default OKC_API.G_FALSE,

     x_return_status        OUT NOCOPY     VARCHAR2,

     x_msg_count            OUT NOCOPY     NUMBER,

     x_msg_data             OUT NOCOPY     VARCHAR2,

     p_party_role_id          IN   NUMBER);
```

Current Version

1.0

Table 3–17 Delete Party IN Parameters

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

Table 3–17 Delete Party IN Parameters (Cont.)

Parameter	Data Type	Required	Description and Validation
p_init_msg_list	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_party_role_id	NUMBER	Yes	Party Role ID

Table 3–18 Delete Party OUT Parameters

Parameter	Data Type	Required	Description and Validation
x_return_status	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_count	NUMBER	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_data	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.

3.2.6 Create Party Contact

Procedure Specification

```
PROCEDURE create_party_contact(

     p_api_version           IN   NUMBER,

     p_init_msg_list         IN   VARCHAR2 default OKC_API.G_FALSE,

     x_return_status         OUT NOCOPY     VARCHAR2,

     x_msg_count             OUT NOCOPY     NUMBER,

     x_msg_data              OUT NOCOPY     VARCHAR2,

     p_ctcv_rec              IN   ctcv_rec_type,

     x_ctcv_rec                OUT NOCOPY ctcv_rec_type);
```

Current Version

1.0

Table 3–19 Create Party Contact IN Parameters

Parameter	Data Type	Required	Description and Validation
p_api_version	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_init_msg_list	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_ctcv_rec	ctcv_rec_type	Yes	See "Data Structure ctcv_rec_type" on page 3-56.

Table 3–20 Create Party Contact OUT Parameters

Parameter	Data Type	Required	Description and Validation
x_return_status	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_count	NUMBER	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_data	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_ctcv_rec	ctcv_rec_type	Yes	See "Data Structure ctcv_rec_type" on page 3-56.

3.2.7 Update Party Contact

Procedure Specification

```
PROCEDURE update_party_contact(
p_api_version          IN   NUMBER,

p_init_msg_list        IN   VARCHAR2 default OKC_API.G_FALSE,

x_return_status        OUT NOCOPY     VARCHAR2,

x_msg_count            OUT NOCOPY     NUMBER,

x_msg_data             OUT NOCOPY     VARCHAR2,

p_ctcv_rec             IN   ctcv_rec_type,

x_ctcv_rec               OUT NOCOPY ctcv_rec_type);
```

Current Version

1.0

Table 3–21 Update Party Contact IN Parameters

Parameter	Data Type	Required	Description and Validation
p_api_version	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_init_msg_list	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_ctcv_rec	ctcv_rec_type	Yes	See "Data Structure ctcv_rec_type" on page 3-56.

Table 3–22 Update Party Contact OUT Parameters

Parameter	Data Type	Required	Description and Validation
x_return_status	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_count	NUMBER	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_data	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_ctcv_rec	ctcv_rec_type	Yes	See "Data Structure ctcv_rec_type" on page 3-56.

3.2.8 Delete Party Contact

Procedure Specification

```
PROCEDURE delete_party_contact(

     p_api_version          IN      NUMBER,

     p_init_msg_list        IN      VARCHAR2 default OKC_API.G_FALSE,

     x_return_status        OUT NOCOPY      VARCHAR2,

     x_msg_count            OUT NOCOPY      NUMBER,

     x_msg_data             OUT NOCOPY      VARCHAR2,

     p_ctcv_rec             IN      ctcv_rec_type);
```

Current Version

1.0

Table 3–23 Delete Party Contact IN Parameters

Parameter	Data Type	Required	Description and Validation
p_api_version	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_init_msg_list	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_ctcv_rec	ctcv_rec_type	Yes	See "Data Structure ctcv_rec_type" on page 3-56.

Table 3–24 Delete Party Contact OUT Parameters

Parameter	Data Type	Required	Description and Validation
x_return_status	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_count	NUMBER	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_data	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.

3.2.9 Create Line

Procedure Specification

```
PROCEDURE create_line(

     p_api_version          IN NUMBER,

     p_init_msg_list        IN VARCHAR2 DEFAULT OKC_API.G_FALSE,

     x_return_status        OUT NOCOPY VARCHAR2,

     x_msg_count            OUT NOCOPY NUMBER,
x_msg_data                OUT NOCOPY VARCHAR2,

p_rl_rec                  IN right_line_rec_type,

p_rulv_tbl                IN  rule_tbl_type,

x_line_id                   OUT NUMBER);
```

Current Version

1.0

Table 3–25 Create Line IN Parameters

Parameter	Data Type	Required	Description and Validation
p_api_version	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_init_msg_list	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_rl_rec	right_line_rec_type	Yes	See "Data Structure right_line_rec_type" on page 3-57.
p_rulv_tbl	rule_tbl_type	Yes	See "Data Structure rule_tbl_type" on page 3-57.

Table 3–26 Create Line OUT Parameters

Parameter	Data Type	Required	Description and Validation
x_return_status	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_count	NUMBER	Yes	See "Standard OUT Parameters" on page 1-3.

Table 3–26 Create Line OUT Parameters (Cont.)

Parameter	Data Type	Required	Description and Validation
x_msg_data	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_line_id	NUMBER	Yes	Contract Line ID

3.2.10 Update Line

Procedure Specification

```
PROCEDURE update_line(

     p_api_version             IN NUMBER,

     p_init_msg_list           IN VARCHAR2 DEFAULT OKC_API.G_FALSE,

     x_return_status           OUT NOCOPY VARCHAR2,

     x_msg_count               OUT NOCOPY NUMBER,

     x_msg_data                OUT NOCOPY VARCHAR2,

     p_rl_rec                  IN right_line_rec_type,

     p_rulv_tbl                IN  rule_tbl_type);
```

Current Version

1.0

Table 3–27 Update Line IN Parameters

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

Table 3–27 Update Line IN Parameters (Cont.)

Parameter	Data Type	Required	Description and Validation
p_init_msg_list	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_rl_rec	right_line_rec_type	Yes	See "Data Structure right_line_rec_type" on page 3-57.
p_rulv_tbl	rule_tbl_type	Yes	See "Data Structure rule_tbl_type" on page 3-57.

Table 3–28 Update Line OUT Parameters

Parameter	Data Type	Required	Description and Validation
x_return_status	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_count	NUMBER	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_data	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.

3.2.11 Delete Line

Procedure Specification

```
PROCEDURE delete_line(

     p_api_version            IN NUMBER,

     p_init_msg_list          IN VARCHAR2 DEFAULT OKC_API.G_FALSE,

     x_return_status          OUT NOCOPY VARCHAR2,

     x_msg_count              OUT NOCOPY NUMBER,
    x_msg_data              OUT NOCOPY VARCHAR2,

    p_line_id                 IN  NUMBER);
```

Current Version

1.0

Table 3–29 Delete Line IN Parameters

Parameter	Data Type	Required	Description and Validation
p_api_version	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_init_msg_list	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_line_id	NUMBER	Yes	Contract Line ID

Table 3–30 Delete Line OUT Parameters

Parameter	Data Type	Required	Description and Validation
x_return_status	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_count	NUMBER	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_data	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.

3.3 Package OKR_SECTIONS_PUB

This package contains the following procedures.

- Create Section
- Update Section

- Delete Section
- Create Section Content
- Update Section Content
- Delete Section Content

3.3.1 Create Section

Procedure Specification

```
PROCEDURE create_section(

     p_api_version          IN NUMBER,

     p_init_msg_list        IN VARCHAR2 DEFAULT OKC_API.G_FALSE,

     x_return_status        OUT NOCOPY VARCHAR2,

     x_msg_count            OUT NOCOPY NUMBER,

     x_msg_data             OUT NOCOPY VARCHAR2,

     p_sections_rec         IN  sections_rec_type,

     x_sections_rec           OUT NOCOPY  sections_rec_type);
```

Current Version

1.0

Table 3–31 Create Section IN Parameters

Parameter	Data Type	Required	Description and Validation
p_api_version	NUMBER	Yes	See “Standard IN Parameters” on page 1-3.
p_init_msg_list	VARCHAR2	Yes	See “Standard IN Parameters” on page 1-3.

Table 3–31 Create Section IN Parameters (Cont.)

Parameter	Data Type	Required	Description and Validation
p_sections_rec	sections_rec_type	Yes	See "Data Structure sections_rec_type" on page 3-58.

Table 3–32 Create Section OUT Parameters

Parameter	Data Type	Required	Description and Validation
x_return_status	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_count	NUMBER	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_data	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_sections_rec	sections_rec_type	Yes	See "Data Structure sections_rec_type" on page 3-58.

3.3.2 Update Section

Procedure Specification

```
PROCEDURE update_section(

     p_api_version          IN NUMBER,

     p_init_msg_list        IN VARCHAR2 DEFAULT OKC_API.G_FALSE,

     x_return_status        OUT NOCOPY VARCHAR2,

     x_msg_count            OUT NOCOPY NUMBER,

     x_msg_data             OUT NOCOPY VARCHAR2,

     p_sections_rec         IN  sections_rec_type,
    x_sections_rec                    OUT NOCOPY  sections_rec_type);
```

Current Version

1.0

Table 3–33 Update Section IN Parameters

Parameter	Data Type	Required	Description and Validation
p_api_version	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_init_msg_list	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_sections_rec	sections_rec_type	Yes	See "Data Structure sections_rec_type" on page 3-58.

Table 3–34 Update Section OUT Parameters

Parameter	Data Type	Required	Description and Validation
x_return_status	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_count	NUMBER	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_data	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_sections_rec	sections_rec_type	Yes	See "Data Structure sections_rec_type" on page 3-58.

3.3.3 Delete Section

Procedure Specification

```
PROCEDURE delete_section(

     p_api_version          IN NUMBER,

     p_init_msg_list        IN VARCHAR2 DEFAULT OKC_API.G_FALSE,

     x_return_status        OUT NOCOPY VARCHAR2,

     x_msg_count            OUT NOCOPY NUMBER,

     x_msg_data             OUT NOCOPY VARCHAR2,

     p_sections_rec         IN sections_rec_type);
```

Current Version

1.0

Table 3–35 Delete Section IN Parameters

Parameter	Data Type	Required	Description and Validation
p_api_version	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_init_msg_list	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_sections_rec	sections_rec_type	Yes	See "Data Structure sections_rec_type" on page 3-58.

Table 3–36 Delete Section OUT Parameters

Parameter	Data Type	Required	Description and Validation
x_return_status	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_count	NUMBER	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_data	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.

3.3.4 Create Section Content

Procedure Specification

```
PROCEDURE create_section_content(

     p_api_version                IN NUMBER,

     p_init_msg_list              IN VARCHAR2 DEFAULT OKC_API.G_FALSE,

     x_return_status              OUT NOCOPY VARCHAR2,

     x_msg_count                  OUT NOCOPY NUMBER,

     x_msg_data                   OUT NOCOPY VARCHAR2,

     p_section_contents_rec       IN  section_contents_rec_type,

     x_section_contents_rec       OUT NOCOPY  section_contents_rec_type);
```

Current Version

1.0

Table 3–37 Create Section Contents IN Parameters

Parameter	Data Type	Required	Description and Validation
p_api_version	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_init_msg_list	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_section_contents_rec	section_contents_rec_type	Yes	See "Data Structure section_contents_rec_type" on page 3-60.

Table 3–38 Create Section Contents OUT Parameters

Parameter	Data Type	Required	Description and Validation
x_return_status	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_count	NUMBER	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_data	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_section_contents_rec	sections_rec_type	Yes	See "Data Structure sections_rec_type" on page 3-58.

3.3.5 Update Section Content

Procedure Specification

```
PROCEDURE update_section_content(

     p_api_version          IN NUMBER,

     p_init_msg_list        IN VARCHAR2 DEFAULT OKC_API.G_FALSE,
x_return_status        OUT NOCOPY VARCHAR2,

x_msg_count            OUT NOCOPY NUMBER,

x_msg_data             OUT NOCOPY VARCHAR2,

p_section_contents_rec IN  section_contents_rec_type,

x_section_contents_rec OUT NOCOPY  section_contents_rec_type);
```

Current Version

1.0

Table 3–39 Update Section Contents IN Parameters

Parameter	Data Type	Required	Description and Validation
p_api_version	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_init_msg_list	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_section_contents_rec	section_contents_rec_type	Yes	See "Data Structure section_contents_rec_type" on page 3-60.

Table 3–40 Update Section Contents OUT Parameters

Parameter	Data Type	Required	Description and Validation
x_return_status	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_count	NUMBER	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_data	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.

Table 3–40 Update Section Contents OUT Parameters (Cont.)

Parameter	Data Type	Required	Description and Validation
x_section_contentss_rec	sections_rec_type	Yes	See "Data Structure sections_rec_type" on page 3-58.

3.3.6 Delete Section Content

Procedure Specification

```
PROCEDURE delete_section_content(

     p_api_version           IN NUMBER,

     p_init_msg_list         IN VARCHAR2 DEFAULT OKC_API.G_FALSE,

     x_return_status         OUT NOCOPY VARCHAR2,

     x_msg_count             OUT NOCOPY NUMBER,

     x_msg_data              OUT NOCOPY VARCHAR2,

     p_section_contents_rec IN section_contents_rec_type);
```

Current Version

1.0

Table 3–41 Delete Section Contents IN Parameters

Parameter	Data Type	Required	Description and Validation
p_api_version	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_init_msg_list	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_section_contents_rec	section_contents_rec_type	Yes	See "Data Structure section_contents_rec_type" on page 3-60.

Table 3–42 Delete Section Contents OUT Parameters

Parameter	Data Type	Required	Description and Validation
x_return_status	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_count	NUMBER	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_data	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.

3.4 Package OKR_K_ARTICLE_PUB

This package contains the following procedures.

- Create Contract Article
- Update Contract Article
- Delete Contract Article

3.4.1 Create Contract Article

Procedure Specification

```
procedure create_k_article(p_api_versionINNUMBER,

     p_init_msg_list          IN VARCHAR2 default OKC_API.G_FALSE,

     x_return_status          OUT NOCOPY VARCHAR2,

     x_msg_count              OUT NOCOPYNUMBER,

     x_msg_data               OUT NOCOPYVARCHAR2,

     p_k_article_rec          IN k_article_rec_type,

     x_k_article_rec          OUT NOCOPY k_article_rec_type);
```

Current Version

1.0

Table 3–43 Create Contract Article IN Parameters

Parameter	Data Type	Required	Description and Validation
p_api_version	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_init_msg_list	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_k_article_rec	k_article_rec_type	Yes	See "Data Structure k_article_rec_type" on page 3-61.

Table 3–44 Create Contract Article OUT Parameters

Parameter	Data Type	Required	Description and Validation
x_return_status	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_count	NUMBER	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_data	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_k_article_rec	k_article_rec_type	Yes	See "Data Structure k_article_rec_type" on page 3-61.

3.4.2 Update Contract Article

Procedure Specification

```
procedure update_k_article(p_api_versionINNUMBER,

     p_init_msg_list          INVARCHAR2 default OKC_API.G_FALSE,
x_return_status          OUT NOCOPY VARCHAR2,

x_msg_count              OUT NOCOPYNUMBER,

x_msg_data               OUT NOCOPYVARCHAR2,

p_k_article_rec          IN k_article_rec_type,

x_k_article_rec          OUT NOCOPY k_article_rec_type);
```

Current Version

1.0

Table 3–45 Update Contract Article IN Parameters

Parameter	Data Type	Required	Description and Validation
p_api_version	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_init_msg_list	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_k_article_rec	k_article_rec_type	Yes	See "Data Structure k_article_rec_type" on page 3-61.

Table 3–46 Update Contract Article OUT Parameters

Parameter	Data Type	Required	Description and Validation
x_return_status	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_count	NUMBER	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_data	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.

Table 3–46 Update Contract Article OUT Parameters (Cont.)

Parameter	Data Type	Required	Description and Validation
x_k_article_rec	k_article_rec_type	Yes	See "Data Structure k_article_rec_type" on page 3-61.

3.4.3 Delete Contract Article

Procedure Specification

```
procedure delete_k_article(p_api_versionINNUMBER,

     p_init_msg_list          INVARCHAR2 default OKC_API.G_FALSE,

     x_return_status          OUT NOCOPY VARCHAR2,

     x_msg_count              OUT NOCOPYNUMBER,

     x_msg_data               OUT NOCOPYVARCHAR2,

     p_k_article_rec          IN k_article_rec_type);
```

Current Version

1.0

Table 3–47 Delete Contract Article IN Parameters

Parameter	Data Type	Required	Description and Validation
p_api_version	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_init_msg_list	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_k_article_rec	k_article_rec_type	Yes	See "Data Structure k_article_rec_type" on page 3-61.

Table 3–48 Delete Contract Article OUT Parameters

Parameter	Data Type	Required	Description and Validation
x_return_status	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_count	NUMBER	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_data	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.

3.5 Package OKR_ATTACHMENTS_PUB

This package contains the following procedures.

- Create Attachment
- Update Attachment
- Delete Attachment

3.5.1 Create Attachment

Procedure Specification

```
PROCEDURE create_attachment (

     p_api_version             IN NUMBER,

     p_init_msg_list           IN VARCHAR2 DEFAULT OKC_API.G_FALSE,

     x_return_status           OUT VARCHAR2,

     x_msg_count               OUT NUMBER,

     x_msg_data                OUT VARCHAR2,

     p_attv_rec                IN attv_rec_type,

     x_row_id                  OUT NOCOPY  VARCHAR2,
    x_att_document_id        OUT NOCOPY  NUMBER,

    x_document_id            OUT NOCOPY  NUMBER);
```

Current Version

1.0

Table 3–49   Create Attachment IN Parameters

Parameter	Data Type	Required	Description and Validation
p_api_version	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_init_msg_list	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_attv_rec	attv_rec_type	Yes	See "Data Structure attv_rec_type" on page 3-62.

Table 3–50   Create Attachment OUT Parameters

Parameter	Data Type	Required	Description and Validation
x_return_status	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_count	NUMBER	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_data	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_row_id	VARCHAR2	Yes	Row ID of the Attachment
x_att_document_id	NUMBER	Yes	Attached Document ID
x_document_id	NUMBER	Yes	Document ID

3.5.2 Update Attachment

Procedure Specification

```
PROCEDURE update_attachment (

     p_api_version            IN NUMBER,

     p_init_msg_list          IN VARCHAR2 DEFAULT OKC_API.G_FALSE,

     x_return_status          OUT VARCHAR2,

     x_msg_count              OUT NUMBER,

     x_msg_data               OUT VARCHAR2,

     p_attv_rec               IN attv_rec_type,

     p_row_id                 IN  VARCHAR2,

     p_att_document_id        IN  NUMBER,

     p_document_id            IN  NUMBER);
```

Current Version

1.0

Table 3–51 Update Attachment IN Parameters

Parameter	Data Type	Required	Description and Validation
p_api_version	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_init_msg_list	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_attv_rec	attv_rec_type	Yes	See Data Structures
p_row_id	VARCHAR2	Yes	Row ID of the Attachment

Table 3–51 Update Attachment IN Parameters (Cont.)

Parameter	Data Type	Required	Description and Validation
p_att_document_id	NUMBER	Yes	Attached Document ID
p_document_id	NUMBER	Yes	Document ID

Table 3–52 Update Attachment OUT Parameters

Parameter	Data Type	Required	Description and Validation
x_return_status	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_count	NUMBER	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_data	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.

3.5.3 Delete Attachment

Procedure Specification

```
PROCEDURE delete_attachment (

     p_api_version           IN NUMBER,

     p_init_msg_list         IN VARCHAR2 DEFAULT OKC_API.G_FALSE,

     x_return_status         OUT VARCHAR2,

     x_msg_count             OUT NUMBER,

     x_msg_data              OUT VARCHAR2,

     p_attv_rec              IN attv_rec_type,

     p_row_id                IN  VARCHAR2,
    p_att_document_id        IN  NUMBER,

    p_document_id            IN  NUMBER);
```

Current Version

1.0

Table 3–53 Delete Attachment IN Parameters

Parameter	Data Type	Required	Description and Validation
p_api_version	NUMBER	Yes	See “Standard IN Parameters” on page 1-3.
p_init_msg_list	VARCHAR2	Yes	See “Standard IN Parameters” on page 1-3.
p_attv_rec	attv_rec_type	Yes	See Data Structures
p_row_id	VARCHAR2	Yes	Row ID of the Attachment
p_att_document_id	NUMBER	Yes	Attached Document ID
p_document_id	NUMBER	Yes	Document ID

Table 3–54 Delete Attachment OUT Parameters

Parameter	Data Type	Required	Description and Validation
x_return_status	VARCHAR2	Yes	See “Standard OUT Parameters” on page 1-3.
x_msg_count	NUMBER	Yes	See “Standard OUT Parameters” on page 1-3.
x_msg_data	VARCHAR2	Yes	See “Standard OUT Parameters” on page 1-3.

3.6 Package OKR_QA_CHECK_PUB

This package contains the following procedure.

- Execute QA Check List

3.6.1 Execute QA Check List

Procedure Specification

```
PROCEDURE execute_qa_check_list(

     p_api_version          IN  NUMBER,

     p_init_msg_list        IN  VARCHAR2 DEFAULT OKC_API.G_FALSE,

     x_return_status        OUT NOCOPY VARCHAR2,

     x_msg_count            OUT NOCOPY NUMBER,

     x_msg_data             OUT NOCOPY VARCHAR2,

     p_chr_id               IN  NUMBER,

     x_msg_tbl                OUT okr_msg_tbl_type);
```

Current Version

1.0

Table 3–55 Execute QA Check List IN Parameters

Parameter	Data Type	Required	Description and Validation
p_api_version	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_init_msg_list	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_chr_id	NUMBER	Yes	Contract Header ID

Table 3–56 Execute QA Check List OUT Parameters

Parameter	Data Type	Required	Description and Validation
x_return_status	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_count	NUMBER	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_data	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_tbl	okr_msg_tbl_type	Yes	See "Data Structure okr_msg_tbl_type" on page 3-63.

3.7 Package OKR_CONTRACT_APPROVAL_PUB

This package contains the following procedure.

- Contract Approval Start

3.7.1 Contract Approval Start

Procedure Specification

```
PROCEDURE k_approval_start(

     p_api_version          IN NUMBER,

     p_init_msg_list        IN VARCHAR2 default OKC_API.G_FALSE,

     x_return_status        OUT NOCOPYVARCHAR2,

     x_msg_count            OUT NOCOPYNUMBER,

     x_msg_data             OUT NOCOPYVARCHAR2,

     p_contract_id          IN number,

     p_process_id           IN number,
    p_do_commit            IN VARCHAR2 default OKC_API.G_TRUE
);
```

Current Version

1.0

Table 3–57 Contract Approval Start IN Parameters

Parameter	Data Type	Required	Description and Validation
p_api_version	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_init_msg_list	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_contract_id	NUMBER	Yes	Contract Header ID
p_process_id	NUMBER	Yes	Contract Approval Process ID
p_do_commit	VARCHAR2	Yes	Commit - True or False

Table 3–58 Contract Approval Start OUT Parameters

Parameter	Data Type	Required	Description and Validation
x_return_status	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_count	NUMBER	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_data	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.

3.8 Package OKR_VERSION_PUB

This package contains the following procedures.

- Version Contract
- Save Version
- Erase Saved Version
- Restore Version

3.8.1 Version Contract

Procedure Specification

```
PROCEDURE version_contract(

     p_api_version          IN NUMBER,

     p_init_msg_list        IN VARCHAR2,

     x_return_status        OUT NOCOPY VARCHAR2,

     x_msg_count            OUT NOCOPY NUMBER,

     x_msg_data             OUT NOCOPY VARCHAR2,

     p_cvmv_rec             IN cvmv_rec_type,

     p_commit               IN VARCHAR2 DEFAULT OKC_API.G_TRUE,

     x_cvmv_rec             OUT NOCOPY cvmv_rec_type);
```

Current Version

1.0

Table 3–59 Version Contract IN Parameters

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

Table 3–59 Version Contract IN Parameters (Cont.)

Parameter	Data Type	Required	Description and Validation
p_init_msg_list	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_cvmv_rec	cvmv_rec_type	Yes	See Data Structures
p_commit	VARCHAR2	Yes	Commit True or False

Table 3–60 Version Contract OUT Parameters

Parameter	Data Type	Required	Description and Validation
x_return_status	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_count	NUMBER	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_data	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_cvmv_rec	cvmv_rec_type	Yes	See "Data Structure cvmv_rec_type" on page 3-63.

4.8.2 Save Version

Procedure Specification

```
PROCEDURE save_version(

     p_chr_id                IN NUMBER,

     p_api_version           IN NUMBER,

     p_init_msg_list         IN VARCHAR2 DEFAULT OKC_API.G_FALSE,

     x_return_status         OUT NOCOPY VARCHAR2,
x_msg_count             OUT NOCOPY NUMBER,

p_commit                IN VARCHAR2 DEFAULT OKC_API.G_TRUE,

x_msg_data              OUT NOCOPY VARCHAR2);
```

Current Version

1.0

Table 3–61 Save Version IN Parameters

Parameter	Data Type	Required	Description and Validation
p_api_version	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_init_msg_list	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_commit	VARCHAR2	Yes	Commit True or False
p_chr_id	NUMBER	Yes	Contract Header ID

Table 3–62 Save Version OUT Parameters

Parameter	Data Type	Required	Description and Validation
x_return_status	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_count	NUMBER	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_data	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.

3.8.2 Erase Saved Version

Procedure Specification

```
PROCEDURE erase_saved_version(

     p_chr_id                IN NUMBER,

     p_api_version           IN NUMBER,

     p_init_msg_list         IN VARCHAR2 DEFAULT OKC_API.G_FALSE,

     x_return_status         OUT NOCOPY VARCHAR2,

     x_msg_count             OUT NOCOPY NUMBER,

     p_commit                IN VARCHAR2 DEFAULT OKC_API.G_TRUE,

     x_msg_data              OUT NOCOPY VARCHAR2);
```

Current Version

1.0

Table 3–63 Erase Saved Version IN Parameters

Parameter	Data Type	Required	Description and Validation
p_api_version	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_init_msg_list	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_commit	VARCHAR2	Yes	Commit True or False
p_chr_id	NUMBER	Yes	Contract Header ID

Table 3–64 Erase Saved Version OUT Parameters

Parameter	Data Type	Required	Description and Validation
x_return_status	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_count	NUMBER	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_data	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.

3.8.3 Restore Version

Procedure Specification

```
PROCEDURE restore_version(

     p_chr_id              IN NUMBER,

     p_api_version         IN NUMBER,

     p_init_msg_list       IN VARCHAR2 DEFAULT OKC_API.G_FALSE,

     x_return_status       OUT NOCOPY VARCHAR2,

     x_msg_count           OUT NOCOPY NUMBER,

     p_commit              IN VARCHAR2 DEFAULT OKC_API.G_TRUE,

     x_msg_data            OUT NOCOPY VARCHAR2);
```

Current Version

1.0

Table 3–65 Restore Version IN Parameters

Parameter	Data Type	Required	Description and Validation
p_api_version	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_init_msg_list	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_commit	VARCHAR2	Yes	Commit True or False
p_chr_id	NUMBER	Yes	Contract Header ID

Table 3–66 Restore Version OUT Parameters

Parameter	Data Type	Required	Description and Validation
x_return_status	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_count	NUMBER	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_data	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.

3.9 Package OKR_COPY_CONTRACT_PUB

This package contains the following procedures.

- Copy Contract
- Copy Contract Lines
- Copy Rules
- Copy Party Roles
- Copy Articles

3.9.1 Copy Contract

Procedure Specification

```
PROCEDURE copy_contract(

     p_api_version                IN NUMBER,

     p_init_msg_list              IN VARCHAR2 DEFAULT OKC_API.G_FALSE,

     x_return_status              OUT NOCOPY VARCHAR2,

     x_msg_count                  OUT NOCOPY NUMBER,

     x_msg_data                   OUT NOCOPY VARCHAR2,

     p_chr_id                     IN NUMBER,

     p_contract_number            IN VARCHAR2,

     p_contract_number_modifier   IN VARCHAR2,

     p_renew_ref_yn               IN VARCHAR2 DEFAULT 'N',

     x_chr_id                     OUT NOCOPY NUMBER);
```

Current Version

1.0

Table 3–67 Copy Contract IN Parameters

Parameter	Data Type	Required	Description and Validation
p_api_version	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_init_msg_list	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_chr_id	NUMBER	Yes	Contract Header ID
p_contract_number	VARCHAR2	Yes	Contract Number

Table 3–67 Copy Contract IN Parameters (Cont.)

Parameter	Data Type	Required	Description and Validation
p_contract_number_modifier	VARCHAR2	Yes	Contract Number Modifier
p_renew_ref_yn	VARCHAR2	Yes	Renew Reference Y or N

Table 3–68 Copy Contract OUT Parameters

Parameter	Data Type	Required	Description and Validation
x_return_status	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_count	NUMBER	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_data	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_chr_id	NUMBER	Yes	Contract Header ID

3.9.2 Copy Contract Lines

Procedure Specification

```
PROCEDURE copy_contract_lines(

     p_api_version                  IN NUMBER,

     p_init_msg_list                IN VARCHAR2 DEFAULT OKC_API.G_FALSE,

     x_return_status                OUT NOCOPY VARCHAR2,

     x_msg_count                    OUT NOCOPY NUMBER,

     x_msg_data                     OUT NOCOPY VARCHAR2,

     p_from_cle_id                  IN NUMBER,
p_to_cle_id                 IN NUMBER DEFAULT OKC_API.G_MISS_NUM,

p_to_chr_id                 IN NUMBER DEFAULT OKC_API.G_MISS_NUM,

p_to_template_yn            IN VARCHAR2 DEFAULT 'N',

p_copy_reference            IN VARCHAR2 DEFAULT 'COPY',

p_copy_line_party_yn        IN VARCHAR2 DEFAULT 'Y',

p_renew_ref_yn              IN VARCHAR2 DEFAULT 'N',

x_cle_id                       OUT NOCOPY NUMBER);
```

Current Version

1.0

Table 3–69   Copy Contract Lines IN Parameters

Parameter	Data Type	Required	Description and Validation
p_api_version	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_init_msg_list	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_to_chr_id	NUMBER	Yes	Contract Header ID
p_from_cle_id	NUMBER	Yes	From Contract Line ID
p_to_cle_id	NUMBER	Yes	To Contract Line ID
p_to_template_yn	VARCHAR2	Yes	Template Y or N
p_copy_reference	VARCHAR2	Yes	Copy Reference
p_copy_line_party_yn	VARCHAR2	Yes	Copy Line Party Y or N
p_renew_ref_yn	VARCHAR2	Yes	Renew Reference Y or N

Table 3–70 Copy Contract Lines OUT Parameters

Parameter	Data Type	Required	Description and Validation
x_return_status	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_count	NUMBER	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_data	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_cle_id	NUMBER	Yes	Contract Line ID

3.9.3 Copy Rules

Procedure Specification

```
PROCEDURE copy_rules(

     p_api_version                IN NUMBER,

     p_init_msg_list              IN VARCHAR2 DEFAULT OKC_API.G_FALSE,

     x_return_status              OUT NOCOPY VARCHAR2,

     x_msg_count                  OUT NOCOPY NUMBER,

     x_msg_data                   OUT NOCOPY VARCHAR2,

     p_rgp_id                     IN NUMBER,

     p_cle_id                     IN NUMBER DEFAULT OKC_API.G_MISS_NUM,

     p_chr_id                     IN NUMBER DEFAULT OKC_API.G_MISS_NUM,

     p_to_template_yn             IN VARCHAR2,

     x_rgp_id                     OUT NOCOPY NUMBER);
```

Current Version

1.0

Table 3–71 Copy Rules IN Parameters

Parameter	Data Type	Required	Description and Validation
p_api_version	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_init_msg_list	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_rgp_id	NUMBER	Yes	Rule Group ID
p_chr_id	NUMBER	Yes	Contract Header ID
p_cle_id	NUMBER	Yes	Contract Line ID
p_to_template_yn	VARCHAR2	Yes	Template Y or N

Table 3–72 Copy Rules OUT Parameters

Parameter	Data Type	Required	Description and Validation
x_return_status	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_count	NUMBER	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_data	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_rgp_id	NUMBER	Yes	Rule Group ID

3.9.4 Copy Party Roles

Procedure Specification

```
PROCEDURE copy_party_roles(
p_api_version                  IN NUMBER,

p_init_msg_list                IN VARCHAR2 DEFAULT OKC_API.G_FALSE,

x_return_status                OUT NOCOPY VARCHAR2,

x_msg_count                    OUT NOCOPY NUMBER,

x_msg_data                     OUT NOCOPY VARCHAR2,

p_cpl_id                       IN NUMBER,

p_cle_id                       IN NUMBER DEFAULT OKC_API.G_MISS_NUM,

p_chr_id                       IN NUMBER DEFAULT OKC_API.G_MISS_NUM,

p_rle_code                     IN VARCHAR2,

x_cpl_id                       OUT NOCOPY NUMBER);
```

Current Version

1.0

Table 3–73 Copy Party Roles IN Parameters

Parameter	Data Type	Required	Description and Validation
p_api_version	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_init_msg_list	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_cpl_id	NUMBER	Yes	Party Role ID
p_chr_id	NUMBER	Yes	Contract Header ID
p_cle_id	NUMBER	Yes	Contract Line ID
p_rle_code	VARCHAR2	Yes	Party Role Code

Table 3–74 Copy Party Roles OUT Parameters

Parameter	Data Type	Required	Description and Validation
x_return_status	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_count	NUMBER	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_data	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_cpl_id	NUMBER	Yes	Party Role ID

4.9.5 Copy Articles

Procedure Specification

```
PROCEDURE copy_articles(

     p_api_version                  IN NUMBER,

     p_init_msg_list                IN VARCHAR2 DEFAULT OKC_API.G_FALSE,

     x_return_status                OUT NOCOPY VARCHAR2,

     x_msg_count                    OUT NOCOPY NUMBER,

     x_msg_data                     OUT NOCOPY VARCHAR2,

     p_cat_id                       IN NUMBER,

     p_cle_id                       IN NUMBER DEFAULT OKC_API.G_MISS_NUM,

     p_chr_id                       IN NUMBER DEFAULT OKC_API.G_MISS_NUM,

     p_sav_sav_release              IN VARCHAR2 DEFAULT NULL,

     x_cat_id                       OUT NOCOPY NUMBER);
```

Current Version

1.0

Table 3–75 Copy Articles IN Parameters

Parameter	Data Type	Required	Description and Validation
p_api_version	NUMBER	Yes	See "Standard IN Parameters" on page 1-3.
p_init_msg_list	VARCHAR2	Yes	See "Standard IN Parameters" on page 1-3.
p_cat_id	NUMBER	Yes	Contract Article ID
p_chr_id	NUMBER	Yes	Contract Header ID
p_cle_id	NUMBER	Yes	Contract Line ID
p_sav_sav_release	VARCHAR2	Yes	Standard Article Release Number

Table 3–76 Copy Articles OUT Parameters

Parameter	Data Type	Required	Description and Validation
x_return_status	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_count	NUMBER	Yes	See "Standard OUT Parameters" on page 1-3.
x_msg_data	VARCHAR2	Yes	See "Standard OUT Parameters" on page 1-3.
x_cat_id	NUMBER	Yes	Contract Article ID

3.10 Data Structure Specifications

The following data structures are used in OKR_CONTRACT_PUB and are explained in detail below:

- k_header_rec_type
- party_rec_type
- ctcv_rec_type
- right_line_rec_type
- rule_tbl_type

The following data structures are used in OKR_SECTIONS_PUB and are explained in detail below:

- sections_rec_type
- section_contents_rec_type

The following data structures are used in OKR_K_ARTICLE_PUB and are explained in detail below:

- k_article_rec_type

The following data structures are used in OKR_ATTACHMENTS_PUB and are explained in detail below:

- attv_rec_type

The following data structures are used in OKR_QA_CHECK_PUB and are explained in detail below:

- okr_msg_tbl_type

The following data structures are used in OKR_VERSION_PUB and are explained in detail below:

- cvmv_rec_type

3.10.1 Data Structure k_header_rec_type

```
TYPE k_header_rec_type Is record
           ( header_id OKC_K_HEADERS_V.ID%TYPE
,    contract_number     OKC_K_HEADERS_V.CONTRACT_NUMBER%TYPE
,    start_date          OKC_K_HEADERS_V.START_DATE%TYPE
,    end_date            OKC_K_HEADERS_V.END_DATE%TYPE
,    date_signed         OKC_K_HEADERS_V.DATE_SIGNED%TYPE
,    date_terminated     OKC_K_HEADERS_V.DATE_TERMINATED%TYPE
,    date_approved       OKC_K_HEADERS_V.DATE_APPROVED%TYPE
,    date_issued         OKC_K_HEADERS_V.DATE_ISSUED%TYPE
,    datetime_cancelled  OKC_K_HEADERS_V.DATETIME_CANCELLED%TYPE
,    date_renewed        OKC_K_HEADERS_V.DATE_RENEWED%TYPE
,    duration            NUMBER
,    period              VARCHAR2(30)
,    sts_code            OKC_K_HEADERS_V.STS_CODE%TYPE
,    sts_code_meaning    VARCHAR2(4000)
,    trn_code           OKC_K_HEADERS_V.TRN_CODE%TYPE
,    trn_code_meaning   VARCHAR2(4000)
,    estimated_amount   OKC_K_HEADERS_V.ESTIMATED_AMOUNT%TYPE
,    currency_code      OKC_K_HEADERS_V.CURRENCY_CODE%TYPE
,    authoring_org_id   OKC_K_HEADERS_V.AUTHORING_ORG_ID%TYPE
,     short_description OKC_K_HEADERS_V.SHORT_DESCRIPTION%TYPE
,     description       OKC_K_HEADERS_V.DESCRIPTION%TYPE
,     buy_or_sell       OKC_K_HEADERS_V.BUY_OR_SELL%TYPE
                        ,     qcl_id            OKC_K_HEADERS_V.QCL_ID%TYPE
                        ,     template_yn       OKC_K_HEADERS_V.TEMPLATE_YN%TYPE
                        ,     k_processes_id    OKC_K_PROCESSES_V.ID%TYPE
                        ,     pdf_id            OKC_K_PROCESSES_V.PDF_ID%TYPE
                        ,     ATTRIBUTE_CATEGORY OKC_K_HEADERS_V.ATTRIBUTE_
CATEGORY%TYPE
                        ,     ATTRIBUTE1         OKC_K_HEADERS_V.ATTRIBUTE1%TYPE
                        ,     ATTRIBUTE2         OKC_K_HEADERS_V.ATTRIBUTE2%TYPE
                        ,     ATTRIBUTE3         OKC_K_HEADERS_V.ATTRIBUTE3%TYPE
                        ,     ATTRIBUTE4         OKC_K_HEADERS_V.ATTRIBUTE4%TYPE
                        ,     ATTRIBUTE5         OKC_K_HEADERS_V.ATTRIBUTE5%TYPE
                        ,     ATTRIBUTE6         OKC_K_HEADERS_V.ATTRIBUTE6%TYPE
                        ,     ATTRIBUTE7         OKC_K_HEADERS_V.ATTRIBUTE7%TYPE
                        ,     ATTRIBUTE8         OKC_K_HEADERS_V.ATTRIBUTE8%TYPE
                        ,     ATTRIBUTE9         OKC_K_HEADERS_V.ATTRIBUTE9%TYPE
                        ,     ATTRIBUTE10        OKC_K_HEADERS_
V.ATTRIBUTE10%TYPE
                        ,     ATTRIBUTE11        OKC_K_HEADERS_
V.ATTRIBUTE11%TYPE
                        ,     ATTRIBUTE12        OKC_K_HEADERS_
V.ATTRIBUTE12%TYPE
                        ,     ATTRIBUTE13        OKC_K_HEADERS_
V.ATTRIBUTE13%TYPE
                        ,     ATTRIBUTE14        OKC_K_HEADERS_
V.ATTRIBUTE14%TYPE
                        ,     ATTRIBUTE15        OKC_K_HEADERS_
V.ATTRIBUTE15%TYPE );
```

3.10.2 Data Structure party_rec_type

```
TYPE party_rec_type IS RECORD (
party_role_idNUMBER,
chr_id                 NUMBER ,
rle_code                VARCHAR2(30),
party_id                NUMBER);
```

3.10.3 Data Structure ctcv_rec_type

```
TYPE ctcv_rec_type IS RECORD (
    id                             NUMBER,
    object_version_number          NUMBER,
    cpl_id                         NUMBER,
    cro_code                       OKC_CONTACTS_V.CRO_CODE%TYPE,
    dnz_chr_id                     NUMBER,
    contact_sequence               NUMBER,
    object1_id1                    OKC_CONTACTS_V.OBJECT1_ID1%TYPE,
    object1_id2                    OKC_CONTACTS_V.OBJECT1_ID2%TYPE,
    jtot_object1_code              OKC_CONTACTS_V.jtot_object1_code%TYPE,
    attribute_category             OKC_CONTACTS_V.ATTRIBUTE_CATEGORY%TYPE,
    attribute1                     OKC_CONTACTS_V.ATTRIBUTE1%TYPE,
    attribute2                     OKC_CONTACTS_V.ATTRIBUTE2%TYPE,
    attribute3                     OKC_CONTACTS_V.ATTRIBUTE3%TYPE,
    attribute4                     OKC_CONTACTS_V.ATTRIBUTE4%TYPE,
    attribute5                     OKC_CONTACTS_V.ATTRIBUTE5%TYPE,
    attribute6                     OKC_CONTACTS_V.ATTRIBUTE6%TYPE,
    attribute7                     OKC_CONTACTS_V.ATTRIBUTE7%TYPE,
    attribute8                     OKC_CONTACTS_V.ATTRIBUTE8%TYPE,
    attribute9                     OKC_CONTACTS_V.ATTRIBUTE9%TYPE,
    attribute10                    OKC_CONTACTS_V.ATTRIBUTE10%TYPE,
    attribute11                    OKC_CONTACTS_V.ATTRIBUTE11%TYPE,
    attribute12                    OKC_CONTACTS_V.ATTRIBUTE12%TYPE,
    attribute13                    OKC_CONTACTS_V.ATTRIBUTE13%TYPE,
    attribute14                    OKC_CONTACTS_V.ATTRIBUTE14%TYPE,
    attribute15                    OKC_CONTACTS_V.ATTRIBUTE15%TYPE,
    created_by                     NUMBER,
    creation_date                  OKC_CONTACTS_V.CREATION_DATE%TYPE,
    last_updated_by                NUMBER,
    last_update_date               OKC_CONTACTS_V.LAST_UPDATE_DATE%TYPE,
    last_update_login              NUMBER,
    start_date                     DATE,
    end_date                       DATE);
```

3.10.4 Data Structure right_line_rec_type

```
TYPE right_line_rec_type IS RECORD (
line_id                 NUMBER ,
okr_type                   VARCHAR2(3),
chr_id                     NUMBER,
ip_id                      NUMBER,
righttype_id1              VARCHAR2(40),
righttype_id2              VARCHAR2(200),
name VARCHAR2(240),
     item_description      Varchar2(600),
start_date_active          DATE,
                           end_date                 DATE,
duration            number,
period            VARCHAR2(30),
                               attribute_category VARCHAR2(90),
                               attribute1         VARCHAR2(450),
                               attribute2         VARCHAR2(450),
                               attribute3         VARCHAR2(450),
                               attribute4         VARCHAR2(450),
                               attribute5         VARCHAR2(450),
                               attribute6         VARCHAR2(450),
                               attribute7         VARCHAR2(450),
                               attribute8         VARCHAR2(450),
                               attribute9         VARCHAR2(450),
                               attribute10         VARCHAR2(450),
                               attribute11         VARCHAR2(450),
                               attribute12         VARCHAR2(450),
                               attribute13         VARCHAR2(450),
                               attribute14         VARCHAR2(450),
                               attribute15         VARCHAR2(450));
```

3.10.5 Data Structure rule_tbl_type

```
TYPE rule_rec_type IS RECORD (
id                             NUMBER := OKC_API.G_MISS_NUM,
rgp_id                         NUMBER := OKC_API.G_MISS_NUM,
object_version_number          NUMBER := OKC_API.G_MISS_NUM,
rule_information_category        OKC_RULES_B.RULE_INFORMATION_CATEGORY%TYPE :=
OKC_API.G_MISS_CHAR,
rule_information1                OKC_RULES_B.RULE_INFORMATION1%TYPE := OKC_API.G_
MISS_CHAR,
rule_information2               OKC_RULES_B.RULE_INFORMATION1%TYPE := OKC_API.G_
MISS_CHAR,
rule_information3            OKC_RULES_B.RULE_INFORMATION1%TYPE := OKC_API.G_
MISS_CHAR,
rule_information4            OKC_RULES_B.RULE_INFORMATION1%TYPE := OKC_API.G_
MISS_CHAR,
rule_information5            OKC_RULES_B.RULE_INFORMATION1%TYPE := OKC_API.G_
MISS_CHAR,
rule_information6            OKC_RULES_B.RULE_INFORMATION1%TYPE := OKC_API.G_
MISS_CHAR,
rule_information7            OKC_RULES_B.RULE_INFORMATION1%TYPE := OKC_API.G_
MISS_CHAR,
rule_information8            OKC_RULES_B.RULE_INFORMATION1%TYPE := OKC_API.G_
MISS_CHAR,
rule_information9            OKC_RULES_B.RULE_INFORMATION1%TYPE := OKC_API.G_
MISS_CHAR,
rule_information10           OKC_RULES_B.RULE_INFORMATION1%TYPE := OKC_API.G_
MISS_CHAR,
rule_information11           OKC_RULES_B.RULE_INFORMATION1%TYPE := OKC_API.G_
MISS_CHAR,
rule_information12           OKC_RULES_B.RULE_INFORMATION1%TYPE := OKC_API.G_
MISS_CHAR,
rule_information13           OKC_RULES_B.RULE_INFORMATION1%TYPE := OKC_API.G_
MISS_CHAR,
rule_information14           OKC_RULES_B.RULE_INFORMATION1%TYPE := OKC_API.G_
MISS_CHAR,
rule_information15           OKC_RULES_B.RULE_INFORMATION1%TYPE := OKC_API.G_
MISS_CHAR);

TYPE rule_tbl_type IS TABLE OF rule_rec_type
INDEX BY BINARY_INTEGER;
```

3.10.6 Data Structure sections_rec_type

```
TYPE sections_rec_type IS RECORD (
    id                             NUMBER := OKC_API.G_MISS_NUM,
    scn_type                          OKC_SECTIONS_V.SCN_TYPE%TYPE := OKC_API.G_
MISS_CHAR,
    chr_id                         NUMBER := OKC_API.G_MISS_NUM,
    sat_code                          OKC_SECTIONS_V.SAT_CODE%TYPE := OKC_API.G_
MISS_CHAR,
    section_sequence               NUMBER := OKC_API.G_MISS_NUM,
    label                             OKC_SECTIONS_V.LABEL%TYPE := OKC_API.G_
MISS_CHAR,
    heading                        OKC_SECTIONS_V.HEADING%TYPE := OKC_API.G_
MISS_CHAR,
    scn_id                         NUMBER := OKC_API.G_MISS_NUM,
    object_version_number          NUMBER := OKC_API.G_MISS_NUM,
    sfwt_flag OKC_SECTIONS_V.SFWT_FLAG%TYPE := OKC_API.G_MISS_CHAR,
    created_by                     NUMBER := OKC_API.G_MISS_NUM,
    creation_date                  OKC_SECTIONS_V.CREATION_DATE%TYPE := OKC_
API.G_MISS_DATE,
    last_updated_by                NUMBER := OKC_API.G_MISS_NUM,
    last_update_date               OKC_SECTIONS_V.LAST_UPDATE_DATE%TYPE := OKC_
API.G_MISS_DATE,
    last_update_login              NUMBER := OKC_API.G_MISS_NUM,
    attribute_category             OKC_SECTIONS_V.ATTRIBUTE_CATEGORY%TYPE :=
OKC_API.G_MISS_CHAR,
    attribute1                     OKC_SECTIONS_V.ATTRIBUTE1%TYPE := OKC_API.G_
MISS_CHAR,
    attribute2                     OKC_SECTIONS_V.ATTRIBUTE2%TYPE := OKC_API.G_
MISS_CHAR,
    attribute3                     OKC_SECTIONS_V.ATTRIBUTE3%TYPE := OKC_API.G_
MISS_CHAR,
    attribute4                     OKC_SECTIONS_V.ATTRIBUTE4%TYPE := OKC_API.G_
MISS_CHAR,
    attribute5                     OKC_SECTIONS_V.ATTRIBUTE5%TYPE := OKC_API.G_
MISS_CHAR,
    attribute6                     OKC_SECTIONS_V.ATTRIBUTE6%TYPE := OKC_API.G_
MISS_CHAR,
    attribute7                     OKC_SECTIONS_V.ATTRIBUTE7%TYPE := OKC_API.G_
MISS_CHAR,
    attribute8                     OKC_SECTIONS_V.ATTRIBUTE8%TYPE := OKC_API.G_
MISS_CHAR,
    attribute9                     OKC_SECTIONS_V.ATTRIBUTE9%TYPE := OKC_API.G_
MISS_CHAR,
    attribute10                    OKC_SECTIONS_V.ATTRIBUTE10%TYPE := OKC_API.G_
MISS_CHAR,
    attribute11                    OKC_SECTIONS_V.ATTRIBUTE11%TYPE := OKC_API.G_
MISS_CHAR,
    attribute12                    OKC_SECTIONS_V.ATTRIBUTE12%TYPE := OKC_API.G_
MISS_CHAR,
    attribute13                    OKC_SECTIONS_V.ATTRIBUTE13%TYPE := OKC_API.G_
MISS_CHAR,
    attribute14                    OKC_SECTIONS_V.ATTRIBUTE14%TYPE := OKC_API.G_
MISS_CHAR,
    attribute15                    OKC_SECTIONS_V.ATTRIBUTE15%TYPE := OKC_API.G_
MISS_CHAR);
```

3.10.7 Data Structure section_contents_rec_type

```
TYPE section_contents_rec_type IS RECORD (
    id                                  NUMBER := OKC_API.G_MISS_NUM,
    scn_id                              NUMBER := OKC_API.G_MISS_NUM,
   label                        OKC_SECTION_CONTENTS_V.LABEL%TYPE := OKC_
API.G_MISS_CHAR,
    cat_id                              NUMBER := OKC_API.G_MISS_NUM,
    cle_id                              NUMBER := OKC_API.G_MISS_NUM,
    sae_id                              NUMBER := OKC_API.G_MISS_NUM,
    content_sequence                    NUMBER := OKC_API.G_MISS_NUM,
    object_version_number               NUMBER := OKC_API.G_MISS_NUM,
    created_by                          NUMBER := OKC_API.G_MISS_NUM,
    creation_date                       OKC_SECTION_CONTENTS_V.CREATION_DATE%TYPE :=
OKC_API.G_MISS_DATE,
    last_updated_by                     NUMBER := OKC_API.G_MISS_NUM,
    last_update_date                    OKC_SECTION_CONTENTS_V.LAST_UPDATE_DATE%TYPE
:= OKC_API.G_MISS_DATE,
    last_update_login                   NUMBER := OKC_API.G_MISS_NUM,
    attribute_category                  OKC_SECTION_CONTENTS_V.ATTRIBUTE_
CATEGORY%TYPE := OKC_API.G_MISS_CHAR,
    attribute1                          OKC_SECTION_CONTENTS_V.ATTRIBUTE1%TYPE :=
OKC_API.G_MISS_CHAR,
    attribute2                          OKC_SECTION_CONTENTS_V.ATTRIBUTE2%TYPE :=
OKC_API.G_MISS_CHAR,
    attribute3                          OKC_SECTION_CONTENTS_V.ATTRIBUTE3%TYPE :=
OKC_API.G_MISS_CHAR,
    attribute4                          OKC_SECTION_CONTENTS_V.ATTRIBUTE4%TYPE :=
OKC_API.G_MISS_CHAR,
    attribute5                          OKC_SECTION_CONTENTS_V.ATTRIBUTE5%TYPE :=
OKC_API.G_MISS_CHAR,
    attribute6                          OKC_SECTION_CONTENTS_V.ATTRIBUTE6%TYPE :=
OKC_API.G_MISS_CHAR,
    attribute7                          OKC_SECTION_CONTENTS_V.ATTRIBUTE7%TYPE :=
OKC_API.G_MISS_CHAR,
    attribute8                          OKC_SECTION_CONTENTS_V.ATTRIBUTE8%TYPE :=
OKC_API.G_MISS_CHAR,
    attribute9                          OKC_SECTION_CONTENTS_V.ATTRIBUTE9%TYPE :=
OKC_API.G_MISS_CHAR,
    attribute10                         OKC_SECTION_CONTENTS_V.ATTRIBUTE10%TYPE :=
OKC_API.G_MISS_CHAR,
    attribute11                         OKC_SECTION_CONTENTS_V.ATTRIBUTE11%TYPE :=
OKC_API.G_MISS_CHAR,
    attribute12                         OKC_SECTION_CONTENTS_V.ATTRIBUTE12%TYPE :=
OKC_API.G_MISS_CHAR,
    attribute13                     OKC_SECTION_CONTENTS_V.ATTRIBUTE13%TYPE :=
OKC_API.G_MISS_CHAR,
    attribute14                     OKC_SECTION_CONTENTS_V.ATTRIBUTE14%TYPE :=
OKC_API.G_MISS_CHAR,
    attribute15                     OKC_SECTION_CONTENTS_V.ATTRIBUTE15%TYPE :=
OKC_API.G_MISS_CHAR);
```

3.10.8 Data Structure k_article_rec_type

```
TYPE k_article_rec_type IS RECORD (
    id                              NUMBER := OKC_API.G_MISS_NUM,
    chr_id                          NUMBER := OKC_API.G_MISS_NUM,
    cle_id                          NUMBER := OKC_API.G_MISS_NUM,
    cat_id                          NUMBER := OKC_API.G_MISS_NUM,
    object_version_number           NUMBER := OKC_API.G_MISS_NUM,
    sfwt_flag                       OKC_K_ARTICLES_V.SFWT_FLAG%TYPE := OKC_API.G_
MISS_CHAR,
    sav_sae_id                      NUMBER := OKC_API.G_MISS_NUM,
    sav_sav_release                 OKC_K_ARTICLES_V.SAV_SAV_RELEASE%TYPE := OKC_
API.G_MISS_CHAR,
    sbt_code                        OKC_K_ARTICLES_V.SBT_CODE%TYPE := OKC_API.G_
MISS_CHAR,
    dnz_chr_id                      NUMBER := OKC_API.G_MISS_NUM,
    comments                        OKC_K_ARTICLES_V.COMMENTS%TYPE := OKC_API.G_
MISS_CHAR,
    fulltext_yn                     OKC_K_ARTICLES_V.FULLTEXT_YN%TYPE := OKC_
API.G_MISS_CHAR,
    variation_description           OKC_K_ARTICLES_V.VARIATION_DESCRIPTION%TYPE
:= OKC_API.G_MISS_CHAR,
    name                            OKC_K_ARTICLES_V.NAME%TYPE := OKC_API.G_MISS_
CHAR,
--  text                            OKC_K_ARTICLES_V.TEXT%TYPE := OKC_API.G_MISS_
CHAR,
--+Hand code start
    text                            VARCHAR2(32767) := OKC_API.G_MISS_CHAR,
--+Hand code end
    attribute_category              OKC_K_ARTICLES_V.ATTRIBUTE_CATEGORY%TYPE :=
OKC_API.G_MISS_CHAR,
    attribute1                      OKC_K_ARTICLES_V.ATTRIBUTE1%TYPE := OKC_
API.G_MISS_CHAR,
    attribute2                      OKC_K_ARTICLES_V.ATTRIBUTE2%TYPE := OKC_
API.G_MISS_CHAR,
    attribute3                      OKC_K_ARTICLES_V.ATTRIBUTE3%TYPE := OKC_
API.G_MISS_CHAR,
    attribute4                  OKC_K_ARTICLES_V.ATTRIBUTE4%TYPE := OKC_
API.G_MISS_CHAR,
    attribute5                  OKC_K_ARTICLES_V.ATTRIBUTE5%TYPE := OKC_
API.G_MISS_CHAR,
    attribute6                  OKC_K_ARTICLES_V.ATTRIBUTE6%TYPE := OKC_
API.G_MISS_CHAR,
    attribute7                  OKC_K_ARTICLES_V.ATTRIBUTE7%TYPE := OKC_
API.G_MISS_CHAR,
    attribute8                  OKC_K_ARTICLES_V.ATTRIBUTE8%TYPE := OKC_
API.G_MISS_CHAR,
    attribute9                  OKC_K_ARTICLES_V.ATTRIBUTE9%TYPE := OKC_
API.G_MISS_CHAR,
    attribute10                 OKC_K_ARTICLES_V.ATTRIBUTE10%TYPE := OKC_
API.G_MISS_CHAR,
    attribute11                 OKC_K_ARTICLES_V.ATTRIBUTE11%TYPE := OKC_
API.G_MISS_CHAR,
    attribute12                 OKC_K_ARTICLES_V.ATTRIBUTE12%TYPE := OKC_
API.G_MISS_CHAR,
    attribute13                 OKC_K_ARTICLES_V.ATTRIBUTE13%TYPE := OKC_
API.G_MISS_CHAR,
    attribute14                 OKC_K_ARTICLES_V.ATTRIBUTE14%TYPE := OKC_
API.G_MISS_CHAR,
    attribute15                 OKC_K_ARTICLES_V.ATTRIBUTE15%TYPE := OKC_
API.G_MISS_CHAR,
    cat_type                    OKC_K_ARTICLES_V.CAT_TYPE%TYPE := OKC_API.G_
MISS_CHAR,
    created_by                  NUMBER := OKC_API.G_MISS_NUM,
    creation_date               OKC_K_ARTICLES_V.CREATION_DATE%TYPE := OKC_
API.G_MISS_DATE,
    last_updated_by             NUMBER := OKC_API.G_MISS_NUM,
    last_update_date            OKC_K_ARTICLES_V.LAST_UPDATE_DATE%TYPE :=
OKC_API.G_MISS_DATE,
    last_update_login           NUMBER := OKC_API.G_MISS_NUM);
```

3.10.9 Data Structure attv_rec_type

```
TYPE attv_rec_type IS RECORD (
     entity_name          OKR_ATTACHMENTS_V.ENTITY_NAME%TYPE,
     chr_id               OKR_ATTACHMENTS_V.CHR_ID%TYPE,
     seq_num              OKR_ATTACHMENTS_V.SEQ_NUM%TYPE,
     datatype_id          OKR_ATTACHMENTS_V.DATATYPE_ID%TYPE,
     category_id          OKR_ATTACHMENTS_V.CATEGORY_ID%TYPE,
     description          OKR_ATTACHMENTS_V.DESCRIPTION%TYPE,
     file_name            OKR_ATTACHMENTS_V.FILE_NAME%TYPE,
            media_id              OKR_ATTACHMENTS_V.MEDIA_ID%TYPE);
```

3.10.10 Data Structure okr_msg_tbl_type

```
TYPE okr_msg_rec_type IS RECORD (
        contract_number         OKC_K_HEADERS_V.CONTRACT_NUMBER%TYPE,
        severity                OKC_QA_LIST_PROCESSES_V.SEVERITY%TYPE,
        name                    OKC_PROCESS_DEFS_V.NAME%TYPE,
        description             OKC_PROCESS_DEFS_V.DESCRIPTION%TYPE,
        package_name            OKC_PROCESS_DEFS_V.PACKAGE_NAME%TYPE,
        procedure_name          OKC_PROCESS_DEFS_V.PROCEDURE_NAME%TYPE,
        error_status        VARCHAR2(1),
        error_code              VARCHAR2(30),
        message_text        VARCHAR2(2000));

  TYPE okr_msg_tbl_type IS TABLE OF okr_msg_rec_type
  INDEX BY BINARY_INTEGER;
```

3.10.11 Data Structure cvmv_rec_type

```
TYPE cvmv_rec_type IS RECORD (
    chr_id                          NUMBER := OKC_API.G_MISS_NUM,
    object_version_number           NUMBER := OKC_API.G_MISS_NUM,
    major_version                   NUMBER := OKC_API.G_MISS_NUM,
    minor_version                   NUMBER := OKC_API.G_MISS_NUM,
    created_by                      NUMBER := OKC_API.G_MISS_NUM,
    creation_date                   OKC_K_VERS_NUMBERS_V.CREATION_DATE%TYPE :=
OKC_API.G_MISS_DATE,
    last_updated_by                 NUMBER := OKC_API.G_MISS_NUM,
    last_update_date               OKC_K_VERS_NUMBERS_V.LAST_UPDATE_DATE%TYPE :=
OKC_API.G_MISS_DATE,
    last_update_login               NUMBER := OKC_API.G_MISS_NUM);
  g_miss_cvmv_rec                          cvmv_rec_type;
```