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OWA_COOKIE

The OWA_COOKIE package provides an interface for sending and retrieving HTTP cookies from the client's browser.

> **See Also:**
>
> For more information about implementation of this package:
> - *Oracle Fusion Middleware Administrator's Guide for Oracle HTTP Server*
> - *Oracle Fusion Middleware User's Guide for mod_plsql*

The chapter contains the following topics:

- Overview
- Types
- Rules and Limits
- Summary of OWA_COOKIE Subprograms

OWA_CUSTOM Overview

Cookies are opaque strings sent to the browser to maintain state between HTTP calls. State can be maintained throughout the client's sessions, or longer if an expiration date is included. The system date is calculated with reference to the information specified in the OWA_CUSTOM package.

OWA_COOKIE Types

This datatype contains cookie name-value pairs.

Since the HTTP standard allows cookie names to be overloaded (that is, multiple values can be associated with the same cookie name), there is a PL/SQL `RECORD` holding all values associated with a given cookie name.

```
TYPE vc_arr IS TABLE OF VARCHAR2(4000) INDEX BY BINARY_INTEGER.

TYPE COOKIE IS RECORD (
    name          VARCHAR2(4000),
    vals          vc_arr,
    num_vals      INTEGER);
```

OWA_COOKIE Rules and Limits

All HTTP headers must be in English and the ASCII character set. If the headers are generated from the database, verify they are created in the English language.

Summary of OWA_COOKIE Subprograms

This table lists the `OWA_COOKIE` subprograms and briefly describes them.

Table 249-1   OWA_COOKIE Package Subprograms

Subprogram	Description
GET Function	Gets the value of the specified cookie
GET_ALL Procedure	Gets all cookie name-value pairs
REMOVE Procedure	Removes the specified cookie
SEND procedure	Generates a "Set-Cookie" line in the HTTP header

GET Function

This function returns the values associated with the specified cookie. The values are returned in a `OWA_COOKIE.COOKIE DATA TYPE` .

Syntax

```
OWA_COOKIE.GET(
   name           IN       VARCHAR2)
 RETURN COOKIE;
```

Parameters

Table 249-2   GET Function Parameters

Parameter	Description
name	The name of the cookie.

Return Values

`OWA_COOKIE.COOKIE DATA TYPE.`

GET_ALL Procedure

This procedure returns all cookie names and their values from the client's browser. The values appear in the order in which they were sent from the browser.

Syntax

```
OWA_COOKIE.GET_ALL(
   names          OUT      vc_arr,
   vals           OUT      vc_arr,
   num_vals       OUT      INTEGER);
```

Parameters

Table 249-3   GET_ALL Procedure Parameters

Parameter	Description
names	The names of the cookies.
vals	The values of the cookies.
num_vals	The number of cookie-value pairs.

REMOVE Procedure

This procedure forces a cookie to expire immediately by setting the "expires" field of a Set-Cookie line in the HTTP header to "01-Jan-1990".

This procedure must be called within the context of an HTTP header.

Syntax

```
OWA_COOKIE.REMOVE(
    name          IN      VARCHAR2,
    val           IN      VARCHAR2,
    path          IN      VARCHAR2  DEFAULT NULL);
```

Parameters

Table 249-4   REMOVE Procedure Parameters

Parameter	Description
name	The name of the cookie to expire.
val	The value of the cookie.
path	[Currently unused]

SEND procedure

This procedure generates a Set-Cookie line, which transmits a cookie to the client.

This procedure must occur in the context of an HTTP header.

Syntax

```
OWA_COOKIE.SEND(
    name          in      varchar2,
    value         in      varchar2,
    expires       in      date      DEFAULT NULL,
    path          in      varchar2  DEFAULT NULL,
    domain        in      varchar2  DEFAULT NULL,
    secure        in      varchar2  DEFAULT NULL);
```

Parameters

Table 249-5   SEND Procedure Parameters

Parameter	Description
name	The name of the cookie.
value	The value of the cookie.
expires	The date at which the cookie will expire
path	The value for the path field.
domain	The value for the domain field.
secure	If the value of this parameter is not NULL, the "secure" field is added to the line.