


OWA_SEC

The OWA_SEC package provides an interface for custom authentication.

 **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:

- [Operational Notes](#)
- [Summary of OWA_SEC Subprograms](#)

OWA_SEC Operational Notes

Parameters that have default values are optional.

Summary of OWA_SEC Subprograms

This table lists the OWA_SEC subprograms in alphabetical order and briefly describes them.

Table 254-1 OWA_SEC Package Subprograms

Subprogram	Description
GET_CLIENT_HOSTNAME Function	Returns the client's hostname
GET_CLIENT_IP Function	Returns the client's IP address
GET_PASSWORD Function	Returns the password that the user entered
GET_USER_ID Function	Returns the username that the user entered
SET_AUTHORIZATION Procedure	Enables the PL/SQL application to use custom authentication
SET_PROTECTION_REALM Procedure	Defines the realm that the page is in

GET_CLIENT_HOSTNAME Function

This function returns the hostname of the client.

Syntax

```
OWA_SEC.GET_CLIENT_HOSTNAME
RETURN VARCHAR2;
```

Return Values

The hostname.

GET_CLIENT_IP Function

This function returns the IP address of the client.

Syntax

```
OWA_SEC.GET_CLIENT_IP  
    RETURN OWA_UTIL.IP_ADDRESS;
```

Return Values

The IP address. The `owa_util.ip_address` datatype is a PL/SQL table where the first four elements contain the four numbers of the IP address. For example, if the IP address is 123.45.67.89 and the variable `ipaddr` is of the `owa_util.ip_address` datatype, the variable would contain the following values:

```
ipaddr(1) = 123  
ipaddr(2) = 45  
ipaddr(3) = 67  
ipaddr(4) = 89
```

GET_PASSWORD Function

This function returns the password that the user used to log in.

Syntax

```
OWA_SEC.GET_PASSWORD  
    RETURN VARCHAR2;
```

Return Values

The password.

Usage Notes

For security reasons, this function returns a true value only when custom authentication is used. If you call this function when you are not using custom authentication, the function returns an undefined value. Thus, the database passwords are not exposed.

GET_USER_ID Function

This function returns the username that the user used to log in.

Syntax

```
OWA_SEC.GET_USER_ID  
    RETURN VARCHAR2;
```

Return Values

The username.

SET_AUTHORIZATION Procedure

This procedure, called in the initialization portion of the OWA_CUSTOM package, sets the authorization scheme for the PL/SQL Gateway.

This implements your `authorize` function, which authorizes the user before his requested procedure is run. The placement of the `authorize` function depends on the scheme you select.

Syntax

```
OWA_SEC.SET_AUTHORIZATION(  
    scheme          IN      INTEGER);
```

Parameters

Table 254-2 SET_AUTHORIZATION Procedure Parameters

Parameter	Description
scheme	<p>The authorization scheme. It is one of the following schemes for SET_AUTHORIZATION:</p> <ul style="list-style-type: none">OWA_SEC.NO_CHECK - Specifies that the PL/SQL application is not to do any custom authentication. This is the default.OWA_SEC.GLOBAL - Defines an authorize function that is called for all users and all procedures. This is the OWA_CUSTOM.AUTHORIZE Function in the "sys" schema.OWA_SEC.PER_PACKAGE - Define an authorize function that is called when procedures in a package or anonymous procedures are called. If the procedures are in a package, the package.AUTHORIZE function in the user's schema is called to authorize the user. If the procedures are not in a package, then the anonymous authorize function in the user's schema is called.OWA_SEC.CUSTOM - Implements different authorize functions for each user. The function OWA_CUSTOM.AUTHORIZE Function in the user's schema is called to authorize the user. If the user's schema does not contain an OWA_CUSTOM.AUTHORIZE Function, the PL/SQL Gateway looks for it in the "sys" schema. <p>The custom authorize function has the following signature:</p> <pre>FUNCTION AUTHORIZE RETURN BOOLEAN;</pre> <p>If the function returns TRUE, authentication succeeded. If it returns FALSE, authentication failed. If the authorize function is not defined, the Gateway returns an error and fails.</p>

Related Topics

- [OWA_CUSTOM](#)

The OWA_CUSTOM package provides a Global PLSQL Agent Authorization callback function.

SET_PROTECTION_REALM Procedure

This procedure sets the realm of the page that is returned to the user. The user enters a username and login that already exist in the realm.

Syntax

```
OWA_SEC.SET_PROTECTION_REALM(  
    realm      IN      VARCHAR2);
```

Parameters

Table 254-3 SET_PROTECTION_REALM Procedure Parameters

Parameter	Description
realm	The realm where the page belongs. This string is displayed to the user.