

OWA_CACHE

The `OWA_CACHE` package provides an interface that enables the PL/SQL Gateway cache to improve the performance of PL/SQL Web applications.



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:

- [Constants](#)
- [Summary of OWA_CACHE Subprograms](#)

OWA_CACHE Constants

`OWA_CACHE` defines several constants to use when specifying parameter values.

- `system_level` CONSTANT VARCHAR(6) := 'SYSTEM';
- `user_level` CONSTANT VARCHAR(4) := 'USER';

Summary of OWA_CACHE Subprograms

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

Table 248-1 OWA_CACHE Package Subprograms

Subprogram	Description
DISABLE Procedure	Disables the cache for this particular request
GET_ETAG Function	Returns the tag associated with the cached content (used in the Validation technique model only)
GET_LEVEL Function	Returns the caching level (used in the Validation technique model only)
SET_CACHE Procedure	Sets up the cache headers for validation model cache type
SET_EXPIRES Procedure	Sets up the cache headers for expires model cache type
SET_NOT_MODIFIED Procedure	Sets up the headers for a not modified cache hit (used in the Validation technique model only)
SET_SURROGATE_CONTROL Procedure	Sets up the headers for a surrogate-control header for Web cache

DISABLE Procedure

This procedure disables the cache for this particular request.

Syntax

```
OWA_CACHE.DISABLE;
```

GET_ETAG Function

This function returns the tag associated with the cached content. It is used in the Validation technique only.

Syntax

```
OWA_CACHE.GET_ETAG  
RETURN VARCHAR2;
```

Return Values

The tag for cache hit, otherwise NULL.

GET_LEVEL Function

This returns the caching level. It is used in the Validation technique model only.

Syntax

```
OWA_CACHE.GET_LEVEL  
RETURN VARCHAR2;
```

Return Values

The caching level string ('USER' or 'SYSTEM') for cache hit, otherwise NULL.

SET_CACHE Procedure

This procedure sets up the cache headers for validation model cache type.

Syntax

```
OWA_CACHE.SET_CACHE(  
    p_etag      IN      VARCHAR2,  
    p_level     IN      VARCHAR2);
```

Parameters

Table 248-2 *SET_CACHE Procedure Parameters*

Parameter	Description
p_etag	The etag associated with this content
p_level	The caching level ('USER' or 'SYSTEM').

Exceptions

VALUE_ERROR is thrown if

- p_etag is greater than 55
- p_level is not 'USER' or 'SYSTEM'

SET_EXPIRES Procedure

This procedure sets up the cache headers for expires model cache type.

Syntax

```
OWA_CACHE.SET_EXPIRES (
    p_expires      IN      NUMBER,
    p_level        IN      VARCHAR2);
```

Parameters

Table 248-3 SET_EXPIRES Procedure Parameters

Parameter	Description
p_expires	The number of minutes this content is valid.
p_level	The caching level ('USER' or 'SYSTEM').

Exceptions

VALUE_ERROR is thrown if

- p_expires is negative or zero
- p_level is not 'USER' or 'SYSTEM'
- p_expires is > 525600 (1 year)

SET_NOT_MODIFIED Procedure

This procedure sets up the headers for a not-modified cache hit. It is used in the Validation technique only.

Syntax

```
OWA_CACHE.SET_NOT_MODIFIED;
```

Exceptions

VALUE_ERROR is thrown if If the etag was not passed in

SET_SURROGATE_CONTROL Procedure

This procedure sets the headers for a surrogate-control header for Web cache

Syntax

```
OWA_CACHE.SET_SURROGATE_CONTROL(  
    p_value          IN          VARCHAR2);
```

Parameters

Table 248-4 SET_SURROGATE_CONTROL Procedure Parameters

Parameter	Description
p_value	The value to be passed as the Surrogate-Control header.

Exceptions

VALUE_ERROR is thrown if p_value is greater than 55 in length.