

# OWA\_TEXT

The `OWA_TEXT` package contains subprograms used by `OWA_PATTERN` for manipulating strings. They are externalized so you can use them directly.



## 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:

- [Types](#)
- [Summary of OWA\\_TEXT Subprograms](#)

## OWA\_OPT\_LOCK Types

There are three `OWA_OPT_LOCK` lock types.

- [MULTI\\_LINE DATA TYPE](#)
- [ROW\\_LIST DATA TYPE](#)
- [VC\\_ARR DATA TYPE](#)

## MULTI\_LINE DATA TYPE

This datatype is a PL/SQL record that holds large amounts of text. The `rows` field, of type `OWA_TEXT.VC_ARR DATA TYPE`, contains the text data in the record.

```
TYPE multi_line IS RECORD (
    rows          vc_arr,
    num_rows      INTEGER,
    partial_row    BOOLEAN);
```

## ROW\_LIST DATA TYPE

This is the datatype for holding data to be processed.

```
TYPE row_list IS RECORD (
    rows          int_arr,
    num_rows      INTEGER);
```

```
int_arr IS DEFINED AS:
```

```
TYPE int_arr IS TABLE OF INTEGER INDEX BY BINARY_INTEGER;
```

## VC\_ARR DATA TYPE

This is a component of the MULTI\_LINE DATA TYPE and is used for holding large amounts of text.

```
TYPE vc_arr IS TABLE OF VARCHAR2(32767) INDEX BY BINARY_INTEGER;
```

### Related Topics

- [MULTI\\_LINE DATA TYPE](#)

This datatype is a PL/SQL record that holds large amounts of text. The rows field, of type OWA\_TEXT.VC\_ARR DATA TYPE, contains the text data in the record.

## Summary of OWA\_TEXT Subprograms

This table lists the OWA\_TEXT subprograms and briefly describes them.

**Table 255-1 OWA\_TEXT Package Subprograms**

Subprogram	Description
<a href="#">ADD2MULTI Procedure</a>	Adds text to an existing multi_line type
<a href="#">NEW_ROW_LIST Function and Procedure</a>	Creates a new row_list
<a href="#">PRINT_MULTI Procedure</a>	Prints out the contents of a multi_list
<a href="#">PRINT_ROW_LIST Procedure</a>	Prints out the contents of a row_list
<a href="#">STREAM2MULTI Procedure</a>	Converts a varchar2 to a multi_line type

## ADD2MULTI Procedure

This procedure adds content to an existing Multi\_Line Data Type

### Syntax

```
OWA_TEXT.ADD2MULTI(  
    stream      IN      VARCHAR2,  
    mline       IN OUT  multi_line,  
  
    continue    IN      BOOLEAN DEFAULT TRUE);
```

### Parameters

**Table 255-2 ADD2MULTI Procedure Parameters**

Parameter	Description
stream	The text to add.
mline	The OWA_TEXT.MULTI_LINE DATA TYPE. The output of this parameter contains <i>stream</i> .
continue	If TRUE, the procedure appends <i>stream</i> within the previous final row (assuming it is less than 32K). If FALSE, the procedure places <i>stream</i> in a new row.

## NEW\_ROW\_LIST Function and Procedure

This function or procedure creates a new `OWA_TEXT.ROW_LIST` DATA TYPE.

The function version uses no parameters and returns a new empty `row_list`. The procedure version creates the `row_list` datatype as an output parameter.

### Syntax

```
OWA_TEXT.NEW_ROW_LIST
  RETURN ROW_LIST;

OWA_TEXT.NEW_ROW_LIST(
  rlist    OUT    row_list);
```

### Parameters

**Table 255-3** *NEW\_ROW\_LIST Procedure Parameters*

Parameter	Description
<code>rlist</code>	This is an output parameter containing the new <code>row_list</code> datatype

### Return Values

The function version returns the new `row_list` datatype.

## PRINT\_MULTI Procedure

This procedure uses the PRINT Procedures or the PRN Procedures to print the "rows" field of the `OWA_TEXT.MULTI_LINE` DATA TYPE.

### Syntax

```
OWA_TEXT.PRINT_MULTI(
  mline    IN    multi_line);
```

### Parameters

**Table 255-4** *PRINT\_MULTI Procedure Parameters*

Parameter	Description
<code>mline</code>	The <code>multi_line</code> datatype to print.

### Return Values

The contents of the `multi_line`.

### Related Topics

- [PRINT Procedures](#)  
These procedures generate the specified parameter as a string terminated with the `\n` newline character.
- [PRN Procedures](#)  
These procedures generate the specified parameter as a string.

## PRINT\_ROW\_LIST Procedure

This procedure uses the PRINT Procedures or the PRN Procedures to print the "rows" field of the OWA\_TEXT.ROW\_LIST DATA TYPE.

### Syntax

```
OWA_TEXT.PRINT_ROW_LIST(  
    rlist          IN          multi_line);
```

### Parameters

**Table 255-5 PRINT\_ROW\_LIST Procedure Parameters**

Parameter	Description
rlist	The row_list datatype to print.

### Return Values

The contents of the row\_list.

### Related Topics

- [PRINT Procedures](#)  
These procedures generate the specified parameter as a string terminated with the \n newline character.
- [PRN Procedures](#)  
These procedures generate the specified parameter as a string.

## STREAM2MULTI Procedure

This procedure converts a string to a multi\_line datatype.

### Syntax

```
OWA_TEXT.STREAM2MULTI(  
    stream          IN          VARCHAR2  
    mline          OUT         multi_line);
```

### Parameters

**Table 255-6 STREAM2MULTI Procedure Parameters**

Parameter	Description
stream	The string to convert.
mline	The stream in OWA_TEXT.MULTI_LINE DATA TYPE format