

# DBMS\_AUTO\_TASK\_ADMIN

The `DBMS_AUTO_TASK_ADMIN` package provides an interface to `AUTOTASK` functionality. It is used by the DBA as well as Enterprise Manager to access the `AUTOTASK` controls. Enterprise Manager also uses the `AUTOTASK` Advisor.



## See Also:

*Oracle Database Administrator's Guide* for more information about "Configuring Automated Maintenance Task"

This chapter contains the following sections:

- [Deprecated Subprograms](#)
- [Security Model](#)
- [Constants](#)
- [Summary of DBMS\\_AUTO\\_TASK\\_ADMIN Subprograms](#)

## DBMS\_AUTO\_TASK\_ADMIN Deprecated Subprograms

The `DBMS_AUTO_TASK_ADMIN OVERRIDE_PRIORITY` subprogram has been deprecated.



## Note:

Oracle recommends that you do not use deprecated procedures in new applications. Support for deprecated features is for backward compatibility only.

- [OVERRIDE\\_PRIORITY Procedures](#)

## DBMS\_AUTO\_TASK\_ADMIN Security Model

`DBMS_AUTO_TASK_ADMIN` is a definer's rights package, and `EXECUTE` is automatically granted to DBA, `IMP_FULL_DATABASE` and `DATAPUMP_IMP_FULL_DATABASE`.

## DBMS\_AUTO\_TASK\_ADMIN Constants

The `DBMS_AUTO_TASK_ADMIN` package defines several constants that can be used for specifying parameter values.

These constants shown in the following table:

**Table 39-1 DBMS\_AUTO\_TASK\_ADMIN Constants**

Name	Type	Value	Description
PRIORITY_MEDIUM	VARCHAR2	'MEDIUM'	Task with this priority should be executed as time permits
PRIORITY_HIGH	VARCHAR2	'HIGH'	Task with this priority should be executed within the current Maintenance Window
PRIORITY_URGENT	VARCHAR2	'URGENT'	Task with this priority is to be executed at the earliest opportunity

## Summary of DBMS\_AUTO\_TASK\_ADMIN Subprograms

This table lists the DBMS\_AUTO\_TASK\_ADMIN subprograms and briefly describes them.

**Table 39-2 DBMS\_AUTO\_TASK\_ADMIN Package Subprograms**

Method	Description
<a href="#">DISABLE Procedures</a>	Prevents AUTOTASK from executing any requests from a specified client or operation.
<a href="#">ENABLE Procedures</a>	Allows a previously disabled client, operation, target type, or individual target to be enabled under AUTOTASK control
<a href="#">GET_CLIENT_ATTRIBUTES Procedure</a>	Returns values of select client attributes
<a href="#">GET_P1_RESOURCES Procedure</a>	Returns percent of resources allocated to each AUTOTASK High Priority Consumer Groups
<a href="#">OVERRIDE_PRIORITY Procedures</a>	Manually overrides task priority.
<a href="#">SET_CLIENT_SERVICE Procedure</a>	Associates an AUTOTASK Client with a specified Service
<a href="#">SET_P1_RESOURCES Procedure</a>	Sets percentage-based resource allocation for each High Priority Consumer Group used by AUTOTASK Clients

## DISABLE Procedures

This procedure prevents AUTOTASK from executing any requests from a specified client or operation.

### Syntax

Disables all AUTOTASK functionality.

```
DBMS_AUTO_TASK_ADMIN.DISABLE;
```

Disables all tasks for the client or operation.

```
DBMS_AUTO_TASK_ADMIN.DISABLE (
  client_name      IN   VARCHAR2,
  operation        IN   VARCHAR2,
  window_name     IN   VARCHAR2);
```

## Parameters

**Table 39-3 DISABLE Procedure Parameters**

Parameter	Description
client_name	Name of the client, as found in DBA_AUTOTASK_CLIENT View
operation	Name of the operation as specified in DBA_AUTOTASK_OPERATION View
window_name	Optional name of the window in which client is to be disabled

## Usage Notes

- If operation and window\_name are both NULL, the client is disabled.
- If operation is not NULL, window\_name is ignored and the operation is disabled
- If operation is NULL and window\_name is not NULL, the client is disabled in the specified window.
- Auto STS Capture Task is accepted.

## ENABLE Procedures

This procedure allows a previously disabled client, operation, target type, or individual target to be enabled under AUTOTASK control.

Specifying the DEFERRED option postpones the effect of the call until the start of the next maintenance window. If IMMEDIATE option is specified the effect of this call is immediate – as long as there is a currently open maintenance window.

## Syntax

Re-enabling AUTOTASK. This version enables the specified client. Note that any explicitly disabled tasks or operations must be re-enabled individually.

```
DBMS_AUTO_TASK_ADMIN.ENABLE;
```

Re-enabling a client or operation. Note that any explicitly disabled tasks or operations must be re-enabled individually.

```
DBMS_AUTO_TASK_ADMIN.ENABLE (
  client_name      IN   VARCHAR2,
  operation        IN   VARCHAR2,
  window_name      IN   VARCHAR2);
```

## Parameters

**Table 39-4 ENABLE Procedure Parameters**

Parameter	Description
client_name	Name of the client, as found in DBA_AUTOTASK_CLIENT View
operation	Name of the operation as specified in DBA_AUTOTASK_OPERATION View
window_name	Optional name of the window in which client is to be enabled

### Usage Notes

- If operation and window\_name are both NULL, the client is enabled.
- If operation is not NULL, window\_name is ignored and the specified operation is enabled
- If operation is NULL and window\_name is not NULL, the client is enabled in the specified window.
- Auto STS Capture Task is accepted.

## GET\_CLIENT\_ATTRIBUTES Procedure

This procedure returns values of select client attributes.

### Syntax

```
DBMS_AUTO_TASK_ADMIN.GET_CLIENT_ATTRIBUTES (
    client_name      IN   VARCHAR2,  service_name      OUT   VARCHAR2,
    window_group     OUT   VARCHAR2);
```

### Parameters

**Table 39-5 GET\_CLIENT\_ATTRIBUTES Procedure Parameters**

Parameter	Description
client_name	Name of the client, as found in DBA_AUTOTASK_CLIENT View
service_name	Service name for client, may be NULL
window_group	Name of the window group in which the client is active

## GET\_P1\_RESOURCES Procedure

This procedure returns percent of resources allocated to each AUTOTASK High Priority Consumer Group.

### Syntax

```
DBMS_AUTO_TASK_ADMIN.GET_P1_RESOURCES (
    stats_group_pct   OUT   NUMBER,
    seg_group_pct     OUT   NUMBER,
    tune_group_pct    OUT   NUMBER,
    health_group_pct  OUT   NUMBER);
```

### Parameters

**Table 39-6 GET\_P1\_RESOURCES Procedure Parameters**

Parameter	Description
stats_group_pct	%resources for Statistics Gathering
seg_group_pct	%resources for Space Management
tune_group_pct	%resources for SQL Tuning
health_group_pct	%resources for Health Checks

## Usage Notes

Values will add up to 100%.

# OVERRIDE\_PRIORITY Procedures

This deprecated procedure is used to manually override task priority.



### Note:

This subprogram is deprecated and becomes nonoperative with Oracle Database 12c.

This can be done at the client, operation or individual task level. This priority assignment is honored during the next maintenance window in which the named client is active. Specifically, setting the priority to **URGENT** causes a high priority job to be generated at the start of the maintenance window. Setting priority to **CLEAR** removes the override.

## Syntax

Override Priority for a Client.

```
DBMS_AUTO_TASK_ADMIN.OVERRIDE_PRIORITY (
  client_name      IN   VARCHAR2,
  priority         IN   VARCHAR2);
```

Override Priority for an Operation.

```
DBMS_AUTO_TASK_ADMIN.OVERRIDE_PRIORITY (
  client_name      IN   VARCHAR2,
  operation        IN   VARCHAR2,
  priority         IN   VARCHAR2);
```

Override Priority for a Task.

```
DBMS_AUTO_TASK_ADMIN.OVERRIDE_PRIORITY (
  client_name      IN   VARCHAR2,
  operation        IN   VARCHAR2,
  task_target_type IN   VARCHAR2,
  task_target_name IN   VARCHAR2,
  priority         IN   VARCHAR2);
```

## Parameters

**Table 39-7** **OVERRIDE\_PRIORITY Procedure Parameters**

Parameter	Description
client_name	Name of the client, as found in DBA_AUTOTASK_CLIENT View
priority	URGENT, HIGH, MEDIUM or LOW
operation	Name of the operation as specified in DBA_AUTOTASK_OPERATION View
task_target_type	Type of target to be affected, as found in V\$AUTOTASK_TARGET_TYPE View

**Table 39-7 (Cont.) OVERRIDE\_PRIORITY Procedure Parameters**

Parameter	Description
task_target_name	Name of the specific target to be affected

## SET\_CLIENT\_SERVICE Procedure

This procedure associates an AUTOTASK Client with a specified Service.

### Syntax

```
DBMS_AUTO_TASK_ADMIN.SET_CLIENT_SERVICE (
    client_name      IN   VARCHAR2,
    service_name     IN   VARCHAR2);
```

### Parameters

**Table 39-8 SET\_CLIENT\_SERVICE Procedure Parameters**

Parameter	Description
client_name	Name of the client, as found in DBA_AUTOTASK_CLIENT View
service_name	Service name for client, may be NULL

### Usage Notes

All work performed on behalf of the Client takes place only on instances where the service is enabled.

## SET\_P1\_RESOURCES Procedure

This procedure sets percentage-based resource allocation for each High Priority Consumer Group used by AUTOTASK Clients.

### Syntax

```
DBMS_AUTO_TASK_ADMIN.SET_P1_RESOURCES (
    stats_group_pct  IN   NUMBER,
    seq_group_pct    IN   NUMBER,
    tune_group_pct   IN   NUMBER,
    health_group_pct IN   NUMBER);
```

### Parameters

**Table 39-9 SET\_P1\_RESOURCES Procedure Parameters**

Parameter	Description
stats_group_pct	%resources for Statistics Gathering
seq_group_pct	%resources for Space Management
tune_group_pct	%resources for SQL Tuning
health_group_pct	%resources for Health Checks

### Usage Notes

Values must be integers in the range 0 to 100, and must add up to 100 (percent), otherwise, an exception is raised.