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| **How To Cleanup Orphaned DataPump Jobs In DBA\_DATAPUMP\_JOBS ? (Doc ID 336014.1)** | [[To Bottom](https://support.oracle.com/epmos/faces/DocumentDisplay?_afrLoop=313294557197798&id=336014.1&_adf.ctrl-state=upsk05sau_69)To Bottom](https://support.oracle.com/epmos/faces/DocumentDisplay?_afrLoop=313294557197798&id=336014.1&_adf.ctrl-state=upsk05sau_69) | https://support.oracle.com/epmos/adf/images/t.gif |

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| **In this Document**   |  |  | | --- | --- | |  | [Goal](https://support.oracle.com/epmos/faces/DocumentDisplay?_afrLoop=313294557197798&id=336014.1&_adf.ctrl-state=upsk05sau_69#GOAL) |  |  |  | | --- | --- | |  | [Solution](https://support.oracle.com/epmos/faces/DocumentDisplay?_afrLoop=313294557197798&id=336014.1&_adf.ctrl-state=upsk05sau_69#FIX) |  |  |  | | --- | --- | |  | [Additional Resources](https://support.oracle.com/epmos/faces/DocumentDisplay?_afrLoop=313294557197798&id=336014.1&_adf.ctrl-state=upsk05sau_69#aref_section21) |   **Applies to:**  Enterprise Manager for Oracle Database - Version 10.1.0.2 to 12.1.0.7.0 [Release 10.1 to 12.1] Oracle Database - Enterprise Edition - Version 10.1.0.2 to 12.1.0.2 [Release 10.1 to 12.1] Oracle Database - Personal Edition - Version 10.1.0.2 to 12.1.0.2 [Release 10.1 to 12.1] Oracle Database - Standard Edition - Version 10.1.0.2 to 12.1.0.2 [Release 10.1 to 12.1] Information in this document applies to any platform. \*\*\*Checked for relevance on 29-Apr-2014\*\*\*  **Goal**  How to cleanup orphaned Data Pump jobs in DBA\_DATAPUMP\_JOBS ?  **Solution**  The jobs used in this example: - Export job SCOTT.EXPDP\_20051121 is a schema level export that is running - Export job SCOTT.SYS\_EXPORT\_TABLE\_01 is an orphaned table level export job - Export job SCOTT.SYS\_EXPORT\_TABLE\_02 is a table level export job that was stopped - Export job SYSTEM.SYS\_EXPORT\_FULL\_01 is a full database export job that is temporary stopped  Step 1. Determine in SQL\*Plus which Data Pump jobs exist in the database:  %sqlplus /nolog  CONNECT / as sysdba  SET lines 200  COL owner\_name FORMAT a10;  COL job\_name FORMAT a20  COL state FORMAT a12 COL operation LIKE state  COL job\_mode LIKE state  COL owner.object for a50  -- locate Data Pump jobs:   SELECT owner\_name, job\_name, rtrim(operation) "OPERATION",         rtrim(job\_mode) "JOB\_MODE", state, attached\_sessions   FROM dba\_datapump\_jobs  WHERE job\_name NOT LIKE 'BIN$%'  ORDER BY 1,2;  OWNER\_NAME JOB\_NAME            OPERATION JOB\_MODE  STATE       ATTACHED ---------- ------------------- --------- --------- ----------- -------- SCOTT      EXPDP\_20051121      EXPORT    SCHEMA    EXECUTING          1 SCOTT      SYS\_EXPORT\_TABLE\_01 EXPORT    TABLE     NOT RUNNING        0  SCOTT      SYS\_EXPORT\_TABLE\_02 EXPORT    TABLE     NOT RUNNING        0  SYSTEM     SYS\_EXPORT\_FULL\_01  EXPORT    FULL      NOT RUNNING        0  Step 2. Ensure that the listed jobs in dba\_datapump\_jobs are not export/import Data Pump jobs that are active: status should be 'NOT RUNNING'.  Step 3. Check with the job owner that the job with status 'NOT RUNNING' in dba\_datapump\_jobs is not an export/import Data Pump job that has been temporary stopped, but is actually a job that failed. (E.g. the full database export job by SYSTEM is **not** a job that failed, but was deliberately paused with STOP\_JOB).  Step 4. Determine in SQL\*Plus the related master tables:  -- locate Data Pump master tables:   SELECT o.status, o.object\_id, o.object\_type,         o.owner||'.'||object\_name "OWNER.OBJECT"    FROM dba\_objects o, dba\_datapump\_jobs j   WHERE o.owner=j.owner\_name AND o.object\_name=j.job\_name     AND j.job\_name NOT LIKE 'BIN$%' ORDER BY 4,2;   STATUS   OBJECT\_ID OBJECT\_TYPE  OWNER.OBJECT  ------- ---------- ------------ -------------------------  VALID        85283 TABLE        SCOTT.EXPDP\_20051121  VALID        85215 TABLE        SCOTT.SYS\_EXPORT\_TABLE\_02  VALID        85162 TABLE        SYSTEM.SYS\_EXPORT\_FULL\_01  Step 5. For jobs that were stopped in the past and won't be restarted anymore, delete the master table. E.g.:  DROP TABLE scott.sys\_export\_table\_02;  -- For systems with recycle bin additionally run: purge dba\_recyclebin;    **NOTE:** In case the table name is mixed case, you can get errors on the drop, e.g.:  SQL> drop table SYSTEM.impdp\_schema\_STGMDM\_10202014\_0; drop table SYSTEM.impdp\_schema\_STGMDM\_10202014\_0                 \* ERROR at line 1: ORA-00942: table or view does not exist  Because the table has a mixed case, try using these statements with double quotes around the table name, for instance:  drop table SYSTEM."impdp\_SCHEMA\_STGMDM\_04102015\_1"; drop table SYSTEM."impdp\_schema\_STGMDM\_10202014\_0";    Step 6. Re-run the query on dba\_datapump\_jobs and dba\_objects (step 1 and 4). If there are still jobs listed in dba\_datapump\_jobs, and these jobs do not have a master table anymore, cleanup the job while connected as the job owner. E.g.:  CONNECT scott/tiger   SET serveroutput on  SET lines 100  DECLARE     h1 NUMBER;  BEGIN     h1 := DBMS\_DATAPUMP.ATTACH('SYS\_EXPORT\_TABLE\_01','SCOTT');     DBMS\_DATAPUMP.STOP\_JOB (h1);  END;  /  Note that after the call to the STOP\_JOB procedure, it may take some time for the job to be removed. Query the view user\_datapump\_jobs to check whether the job has been removed:  CONNECT scott/tiger   SELECT \* FROM user\_datapump\_jobs;  Step 7. Confirm that the job has been removed:  CONNECT / as sysdba  SET lines 200   COL owner\_name FORMAT a10;   COL job\_name FORMAT a20   COL state FORMAT a12   COL operation LIKE state   COL job\_mode LIKE state   COL owner.object for a50  -- locate Data Pump jobs:    SELECT owner\_name, job\_name, rtrim(operation) "OPERATION",         rtrim(job\_mode) "JOB\_MODE", state, attached\_sessions   FROM dba\_datapump\_jobs  WHERE job\_name NOT LIKE 'BIN$%'  ORDER BY 1,2;  OWNER\_NAME JOB\_NAME            OPERATION JOB\_MODE  STATE       ATTACHED  ---------- ------------------- --------- --------- ----------- --------  SCOTT      EXPDP\_20051121      EXPORT    SCHEMA    EXECUTING          1  SYSTEM     SYS\_EXPORT\_FULL\_01  EXPORT    FULL      NOT RUNNING        0   -- locate Data Pump master tables:   SELECT o.status, o.object\_id, o.object\_type,         o.owner||'.'||object\_name "OWNER.OBJECT"    FROM dba\_objects o, dba\_datapump\_jobs j   WHERE o.owner=j.owner\_name AND o.object\_name=j.job\_name     AND j.job\_name NOT LIKE 'BIN$%' ORDER BY 4,2;   STATUS   OBJECT\_ID OBJECT\_TYPE  OWNER.OBJECT  ------- ---------- ------------ -------------------------  VALID        85283 TABLE        SCOTT.EXPDP\_20051121  VALID        85162 TABLE        SYSTEM.SYS\_EXPORT\_FULL\_01  ***Remarks:*** 1. Orphaned Data Pump jobs do not have an impact on new Data Pump jobs. The view dba\_datapump\_jobs is a view, based on gv$datapump\_job, obj$, com$, and user$. The view shows the Data Pump jobs that are still running, or jobs for which the master table was kept in the database, or in case of an abnormal end of the Data Pump job (the orphaned job). If a new Data Pump job is started, a new entry will be created, which has no relation to the old Data Pump jobs.  2. When starting the new Data Pump job and using a system generated name, we check the names of existing Data Pump jobs in the dba\_datapump\_job in order to obtain a unique new system generated jobname. Naturally, there needs to be enough free space for the new master table to be created in the schema that started the new Data Pump job.  3. A Data Pump job is not the same as a job that is defined with DBMS\_JOBS. Jobs created with DBMS\_JOBS use there own processes. Data Pump jobs use a master process and worker process(es). In case a Data Pump still is temporary stopped (STOP\_JOB while in interactive command mode), the Data Pump job still exists in the database (status: NOT RUNNING), while the master and worker process(es) are stopped and do not exist anymore. The client can attach to the job at a later time, and continue the job execution (START\_JOB).  4. The possibility of corruption when the master table of an active Data Pump job is deleted, depends on the Data Pump job.  4.a. If the job is an **export job**, corruption is unlikely as the drop of the master table will only cause the Data Pump master and worker processes to abort. This situation is similar to aborting an export of the original export client.  4.b. If the job is an **import job** then the situation is different. When dropping the master table, the Data Pump worker and master processes will abort. This will probably lead to an incomplete import: e.g. not all table data was imported, and/or table was imported incomplete, and indexes, views, etc. are missing. This situation is similar to aborting an import of the original import client.  The drop of the master table itself, does not lead to any data dictionary corruption. If you keep the master table after the job completes (using the undocumented parameter: KEEP\_MASTER=Y), then a drop of the master table afterwards, will not cause any corruption.  5. Instead of the status 'NOT RUNNING' the status of a failed job could also be 'DEFINING'. When trying to attach to such a job, this would fail with:  $ expdp system/manager attach=system.sys\_export\_schema\_01  Export: Release 11.2.0.4.0 - Production on Tue Jan 27 10:14:27 2015 Copyright (c) 1982, 2011, Oracle and/or its affiliates.  All rights reserved.  Connected to: Oracle Database 11g Enterprise Edition Release 11.2.0.4.0 - 64bit Production With the Partitioning, OLAP, Data Mining and Real Application Testing options ORA-31626: job does not exist ORA-06512: at "SYS.DBMS\_SYS\_ERROR", line 79 ORA-06512: at "SYS.KUPV$FT", line 405 ORA-31638: cannot attach to job SYS\_EXPORT\_SCHEMA\_01 for user SYSTEM ORA-31632: master table "SYSTEM.SYS\_EXPORT\_SCHEMA\_01" not found, invalid, or inaccessible ORA-00942: table or view does not exist |