# Title

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Process Monitoring cleanup for CA Automic Workload Automation with IBM DB2 Database

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## Summary

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This is a best practice on how to deal with Tasks in Process Monitoring which cannot be processed following the standard functionality.

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## Introduction

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In different situation it might be necessary to clean up Process Monitoring (Activity Window) of CA Automic Workload Automation (AE / Automation Engine).

* Emergency: Remove specific Tasks after any kind of loop which activated Objects multiple times.
* General clean up: Remove all or specific Tasks, for example after any kind of duplicating the Automation Engine database.
* Specific Tasks: Remove single Tasks, which doesn’t react on any standard action.

The cleanup is possible in two different ways:

* Via the User Interface using the option “Modify Status Manually”, please have a look to the documentation for more details.  
  This can be done for single Tasks only, there is no bulk select possible. So, it’s practicable for a small number of Tasks, only.
* Directly in the database via SQL statements, which is described in this article in detail.  
  This can be used for many tasks.

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## Background (optional)

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**How the SQL statements work**

The SQL statements delete all Tasks (Activities) specified in the sub- select. Therefore, it’s very important to use the same sub-select for all statements!

* The first delete statements clean up the subordinate tables in the beginning. The order is important because there are relationships between the tables.
* The two update statements set the end date for the Execution (Statistic Record) and for the Reports of the Task. As end date, end time the current database timestamp is used (CURRENT TIMESTAMP).  
  The status of the Execution is set to 1850 which is “ENDED\_CANCEL - manually canceled”.  
  Note: This is important for the reorganization – without a valid end timestamp and end status the entries will never be reorganized.
* Finally, the header record for the Task is deleted.

Be aware that manual deletion of Tasks causes the regular deactivation of these Tasks to be skipped. This has side effects, for example there will be no Monitor for Workflows (JOBP) available, because the data is transferred to the statistic tables during deactivation.

### **The sub-select**

With the sub-select it’s possible to choose which Tasks you like to remove. Most common is to specify the client and the name of the Object. This is also used in the examples below.

Here some other fields sometimes used – in general all fields of the EH table can be used if necessary:

|  |  |  |
| --- | --- | --- |
| Name | DB Field Name | Example |
| Client | EH\_CLIENT | EH\_CLIENT = 22 |
| Task or Object Name | EH\_NAME | EH\_NAME = 'SCRI.RUNFOREVER' |
| RunID | EH\_AH\_IDNR | EH\_AH\_IDNR = 1234567890 |
| Task or Object Type | EH\_OTYPE | EH\_OTYPE = 'JOBS' |
| Status / Status Number | EH\_STATUS | EH\_STATUS = 1572 |
| Start Timestamp | EH\_STARTTIME | EH\_STARTTIME < '2018-06-15 00:00:00' |
| Agent | EH\_HOSTDST | EH\_HOSTDST like 'WIN%' |

The different DB table fields are combined with “or” and “and”. Here an example:

(select EH\_AH\_IDNR from EH where EH\_CLIENT = 22 and EH\_OTYPE = 'JOBS' and EH\_STATUS = 1572 and EH\_STARTTIME < '2018-06-15 00:00:00' and EH\_HOSTDST like 'WIN% with UR')

So, this one will select all Tasks which are in client 22, and have the Object type “JOBS”, and the status 1572 (“Generating”). The start of the Jobs must be before the 15th of June 2018, and the Jobs run on Agents with the name “WIN…” in the beginning.

Note: Timestamps in the database are in UTC.

### **You are in doubt – verify fist**

Most important is to select the correct Tasks via the sub-select. If you are in doubt about that, just verify which Tasks will be affected. Use the sub-select created and add for example client, object type and name, and the RunID for the output. Here an example:

select EH\_CLIENT, EH\_OTYPE, EH\_NAME, EH\_AH\_IDNR from EH where EH\_CLIENT = 22 and EH\_OTYPE = 'JOBS' and EH\_STATUS = 1572 and EH\_STARTTIME < '2018-06-15 00:00:00' and EH\_HOSTDST like 'WIN%' with UR;

### **Use a specific end date**

The statements set the end date for the statistic record and for the reports to the current DB time. If a specific timestamp is necessary it is possible to remove CURRENT TIMESTAMP and specify specific date and time.

Example:

Use '2018-06-15 00:00:00' instead of CURRENT TIMESTAMP will set the end timestamp to 15th of June 2018, 00:00 AM.

Note: Timestamps in the database are in UTC.

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## Environment (optional)

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This article is for Automation Engine environments using an IBM DB2 Database.

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## Instruction

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As the cleanup of Tasks is a serious action, it should be done guided by a CA Support engineers only! Therefor the statements itself are not posted in this article.

For further information on this knowledgebase article please contact CA Support.

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## Additional Information (optional)

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## Internal Notes (optional)

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-- EH delete statements for Automic Automation Engine version 11.0, 11.1, 11.2, 12.0, 12.1 or 12.2 (any Service Pack) with IBM DB2 DB

delete from EJ where EJ\_AH\_IDNR in (select EH\_AH\_IDNR from EH where eh\_client = 22 and EH\_name = 'SCRI.RUNFOREVER') with UR;

delete from EFC where EFC\_AH\_IDNR in (select EH\_AH\_IDNR from EH where eh\_client = 22 and EH\_name = 'SCRI.RUNFOREVER') with UR;

delete from EPDC where EPDC\_AH\_IDNR in (select EH\_AH\_IDNR from EH where eh\_client = 22 and EH\_name = 'SCRI.RUNFOREVER') with UR;

delete from EPD where EPD\_AH\_IDNR in (select EH\_AH\_IDNR from EH where eh\_client = 22 and EH\_name = 'SCRI.RUNFOREVER') with UR;

delete from EPPF where EPPF\_AH\_IDNR in (select EH\_AH\_IDNR from EH where eh\_client = 22 and EH\_name = 'SCRI.RUNFOREVER') with UR;

delete from ESTP where ESTP\_AH\_IDNR in (select EH\_AH\_IDNR from EH where eh\_client = 22 and EH\_name = 'SCRI.RUNFOREVER') with UR;

delete from EEC where EEC\_AH\_IDNR in (select EH\_AH\_IDNR from EH where eh\_client = 22 and EH\_name = 'SCRI.RUNFOREVER') with UR;

delete from EQT where EQT\_AH\_IDNR in (select EH\_AH\_IDNR from EH where eh\_client = 22 and EH\_name = 'SCRI.RUNFOREVER') with UR;

delete from EET where EET\_AH\_IDNR in (select EH\_AH\_IDNR from EH where eh\_client = 22 and EH\_name = 'SCRI.RUNFOREVER') with UR;

delete from ETI where ETI\_AH\_IDNR in (select EH\_AH\_IDNR from EH where eh\_client = 22 and EH\_name = 'SCRI.RUNFOREVER') with UR;

delete from EJPOP where EJPOP\_AH\_IDNR in (select EH\_AH\_IDNR from EH where eh\_client = 22 and EH\_name = 'SCRI.RUNFOREVER') with UR;

delete from EOI where EOI\_AH\_IDNR in (select EH\_AH\_IDNR from EH where eh\_client = 22 and EH\_name = 'SCRI.RUNFOREVER') with UR;

delete from EEDB where EEDB\_AH\_IDNR in (select EH\_AH\_IDNR from EH where eh\_client = 22 and EH\_name = 'SCRI.RUNFOREVER') with UR;

delete from EJPFV where EJPFV\_AH\_IDNR in (select EH\_AH\_IDNR from EH where eh\_client = 22 and EH\_name = 'SCRI.RUNFOREVER') with UR;

delete from EJPVA where EJPVA\_AH\_IDNR in (select EH\_AH\_IDNR from EH where eh\_client = 22 and EH\_name = 'SCRI.RUNFOREVER') with UR;

delete from EJPPC where EJPPC\_AH\_IDNR in (select EH\_AH\_IDNR from EH where eh\_client = 22 and EH\_name = 'SCRI.RUNFOREVER') with UR;

delete from EJPOV where EJPOV\_AH\_IDNR in (select EH\_AH\_IDNR from EH where eh\_client = 22 and EH\_name = 'SCRI.RUNFOREVER') with UR;

delete from EJPPF where EJPPF\_AH\_IDNR in (select EH\_AH\_IDNR from EH where eh\_client = 22 and EH\_name = 'SCRI.RUNFOREVER') with UR;

delete from EJPPA where EJPPA\_AH\_IDNR in (select EH\_AH\_IDNR from EH where eh\_client = 22 and EH\_name = 'SCRI.RUNFOREVER') with UR;

delete from EPUDA where EPUDA\_AH\_IDNR in (select EH\_AH\_IDNR from EH where eh\_client = 22 and EH\_name = 'SCRI.RUNFOREVER') with UR;

delete from EJPPO where EJPPO\_AH\_IDNR in (select EH\_AH\_IDNR from EH where eh\_client = 22 and EH\_name = 'SCRI.RUNFOREVER') with UR;

delete from EJPPV where EJPPV\_AH\_IDNR in (select EH\_AH\_IDNR from EH where eh\_client = 22 and EH\_name = 'SCRI.RUNFOREVER') with UR;

delete from EV where EV\_AH\_IDNR in (select EH\_AH\_IDNR from EH where eh\_client = 22 and EH\_name = 'SCRI.RUNFOREVER') with UR;

delete from ERB where ERB\_AH\_IDNR in (select EH\_AH\_IDNR from EH where eh\_client = 22 and EH\_name = 'SCRI.RUNFOREVER') with UR;

delete from EJPCV where EJPCV\_AH\_IDNR in (select EH\_AH\_IDNR from EH where eh\_client = 22 and EH\_name = 'SCRI.RUNFOREVER') with UR;

delete from ECV where ECV\_AH\_IDNR in (select EH\_AH\_IDNR from EH where eh\_client = 22 and EH\_name = 'SCRI.RUNFOREVER') with UR;

delete from ECA where ECA\_AH\_IDNR in (select EH\_AH\_IDNR from EH where eh\_client = 22 and EH\_name = 'SCRI.RUNFOREVER') with UR;

delete from EJPP where EJPP\_AH\_IDNR in (select EH\_AH\_IDNR from EH where eh\_client = 22 and EH\_name = 'SCRI.RUNFOREVER') with UR;

delete from EPUD where EPUD\_AH\_IDNR in (select EH\_AH\_IDNR from EH where eh\_client = 22 and EH\_name = 'SCRI.RUNFOREVER') with UR;

delete from ERET where ERET\_AH\_IDNR in (select EH\_AH\_IDNR from EH where eh\_client = 22 and EH\_name = 'SCRI.RUNFOREVER') with UR;

delete from EVP where EVP\_AH\_IDNR in (select EH\_AH\_IDNR from EH where eh\_client = 22 and EH\_name = 'SCRI.RUNFOREVER') with UR;

delete from EY where EY\_AH\_IDNR in (select EH\_AH\_IDNR from EH where eh\_client = 22 and EH\_name = 'SCRI.RUNFOREVER') with UR;

update ah set ah\_timestamp4 = CURRENT TIMESTAMP, ah\_status = 1850 where ah\_idnr in (select EH\_AH\_IDNR from EH where eh\_client = 22 and EH\_name = 'SCRI.RUNFOREVER') with UR;

update rh set rh\_timestamp4 = CURRENT TIMESTAMP where rh\_ah\_idnr in (select EH\_AH\_IDNR from EH where eh\_client = 22 and EH\_name = 'SCRI.RUNFOREVER') with UR;

delete from EH where EH\_AH\_IDNR in (select EH\_AH\_IDNR from EH where eh\_client = 22 and EH\_name = 'SCRI.RUNFOREVER') with UR;

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