Process Chain Log Deletion

Applies to:
SAP BW 3.x & SAP BI Net Weaver 2004s. For more information, visit the EDW homepage

Summary
Process chains are used in BW landscape to automate the loading sequence. There are multiple process chains running in the production system at a given time. Log of each execution are stored in database. These logs are required for analysis. However, storing older log may use up the disk space. Hence, it is required to delete the older process chain execution log.

The document explains the step to delete the old process chain execution log from the system to free the database space and basic strategy for the log deletion.

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Author Bio
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# Process Chain Log Deletion

## Table of Contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process Chain Details an Overview</td>
<td>3</td>
</tr>
<tr>
<td>Process Chain Log Deletion</td>
<td>3</td>
</tr>
<tr>
<td>Process Chain Instance Deletion</td>
<td>5</td>
</tr>
<tr>
<td>General Strategy for Log Deletion</td>
<td>6</td>
</tr>
<tr>
<td>Related Content</td>
<td>7</td>
</tr>
<tr>
<td>Disclaimer and Liability Notice</td>
<td>8</td>
</tr>
</tbody>
</table>
Process Chain Details an Overview

Process chain is sequence of process defined to load the data in BW system. There are number of process chains executing in the BI system to make the latest data available for reporting and analysis.

Depending on various requirements the process chains can be executed at following different frequencies

- Daily single execution
- Daily multiple execution
- Weekly
- Monthly
- On specific calendar day ETC

Log of each execution of the process chain are stored in system and can be used for runtime analysis of the process chain.

Tables RSPCLOGCHAIN (cross-table log ID to chain ID) and RSPCPROCESSLOG (chain process logs) hold information about the process chains logs.

Tables RSPCINSTANCE (Generic Instance Storage) and RSPCINSTANCET (Texts for Generic Instance-Storage) holds the information of the instance of the chain.

Since there are multiple executions taking place in a production system each day these table sizes grow thus utilizing the data base space. Although these logs are required for analysis it is necessary to clear the old logs from the system to maintain the table space at desired level.

Process Chain Log Deletion

To delete the process chain log we can use report RSPC_LOG_DELETE "Deletion of Process Chain Logs and Assigned Process Logs".

Detail steps and significance of the each entry filed are explained as below

Go to Transaction se38 and execute report RSPC_LOG_DELETE

![ABAP Editor: Initial Screen](image)

The initial screen of the program is as shown below
Deletion of Process Chain Logs and Assigned Process Logs

- **Process Chain (ID)**
  Provide the ID of the process chain for which the loads are to be deleted

- **Delete from date**
  Start date from which the logs needs to be deleted

- **Up to and including date**
  Date until which the logs needs to be deleted. The date entered is included for log deletion

- **Log-ID of a process chain**
  You can either provide the above details or delete the log for a process chain via log ID. The log-ID is determined during the runtime (by the start-process). It holds the chain run together.
  We can retrieve the log ID of a process chain run via table RSPCPROCESSLOG or can be checked in the logs of process chain.

- **Ignore Errors**
  If the flag is set, the errors in deletion of logs are ignored and the logs are deleted.
Enter the details as per the requirement and execute the program.

A success message is displayed showing which all logs are deleted.

Process Chain Instance Deletion

An Instance is generated for each process chain execution (as shown below) and is stored in tables RSPCINSTANCE and RSPCINSTANCET.
We can use the report RSPC_INSTANCE_CLEANUP to delete entries in tables RSPCINSTANCE and RSPCINSTANCET.

Go to transaction se38 and execute the report RSPC_INSTANCE_CLEANUP as shown below.

![Report RSPC_INSTANCE_CLEANUP](image_url)

Provide the date before which you want to delete the entries in this tables. Select “without corresponding chain run” option to delete the variant entry without execution of chain run. Select “delete log” option to delete the logs.

Execute the report with the details to delete the entries from the data base tables.

Thus using reports RSPC_LOG_DELETE and RSPC_INSTANCE_CLEANUP, we are able to clean up older logs for execution of process chain from the data base table.

**General Strategy for Log Deletion**

There are process chains executing at different frequency in the system. A general strategy that should be followed for deletion of log is as follows.

<table>
<thead>
<tr>
<th>Frequency of Execution</th>
<th>Log to be deleted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Daily</td>
<td>Older than 3 Months</td>
</tr>
<tr>
<td>Weekly</td>
<td>Older than 3 Months</td>
</tr>
<tr>
<td>Monthly</td>
<td>Older than 6 Months</td>
</tr>
<tr>
<td>Quarterly</td>
<td>Older than 6 Months</td>
</tr>
<tr>
<td>Other’s (calendar day specific etc)</td>
<td>As per requirement</td>
</tr>
</tbody>
</table>

The strategy depends upon various factors, like system data base size, frequency of chains, number of chain executing in the system etc, and should be decided/changed based on above factors.
Related Content

http://www.sdn.sap.com

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