

CONTROL-M Database was restored from an old back up and now the jobs are not executing and Autoedits are showing up in the wrong job. (SLN000015069918)

This document contains official content from the BMC Software Knowledge Base. It is automatically updated when the knowledge article is modified.

PRODUCT:

Control-M/Server for UNIX and Microsoft Windows

APPLIES TO:

Control-M/Server for UNIX and Microsoft Windows

PROBLEM:

THIS SOLUTION HAS BEEN WRITTEN FOR INTERNAL USE ONLY. ***The CONTROL-M/Server database should not be restored using an old backup. Given the nature of extremely dynamic data high availability tools should be either Mirroring or Clustering so that at the time of failure CONTROL-M/Server has can pick up from exactly where it left off.***

If the CONTROL-M/Server database is restored from an old backup there are various things that can then be out of order. The CONTROL-M/Server database and the active environment has very dynamic data and it is changing by the second as jobs are ordered executed etc. By restoring from an old backup CONTROL-M/Server, the state of all the data in the active environment has become obsolete. One of the problems that occurs is that the LAST_ISN (sequence number) of the order ids gets set back to what it was at the time of the backup. For example at the time of the backup the LAST_ISN value under CMR_LASTNO was 1000. CONTROL-M/Server ran for a week after the backup and during this time the LAST_ISN reached 1700. Then due to a database crash the backup was used to restore. Now the LAST_ISN is set back to 1000 and CONTROL-M/Server will now regenerate the Order IDs already used which will be 700 order ids in this example. The effect of this change in LAST_ISN is that when CONTROL-M/Server submits jobs with these order ids, the CONTROL-M/Agents may still have dsct files and sysouts that belong to these order ids.

What will be seen at the job level is that the job is submitted and then ends right away. The ctmlog will show it went from a state of Submission to ENDED OK or NOT OK without going into the EXECUTION state. This is because the when the CONTROL-M/Agent received the job with that order id, it sent a message back to the CONTROL-M/Server informing it that the job has already run and it passes back the information from the dsct file. **This dsct file may also include AutoEdit variables.** The CONTROL-M/Agent will send these AutoEdit variables back as well and when the job is viewed in the CONTROL-M/Enterprise Manager GUI, these seemingly unrelated AutoEdits will appear in the Job Definition.

For example a week ago JOBA ran with order ID of 1005 and after the restore, JOBC gets assigned the order ID 1005. When JOBC gets submitted (assuming to the same Agent as

CONTROL-M Database was restored from an old back up and now the jobs are not executing and Autoedits are showing up in the wrong job. (SLN000015069918)

JOB A) the CONTROL-M/Agent will respond with the information of JOB C. JOB C will show the information that actually belongs to JOB A, which ran a week ago. CONTROL-M/Server for UNIX and Microsoft Windows (version 6.2.01) CONTROL-M/Server Restored Database

SOLUTION:

Legacy ID:KA299473

CONTROL-M/Server Restored Database Option 1 Delete the files under the CONTROL-M/Agent's Status, Backup and Sysout directories on all CONTROL-M/Agents. It is important to note that by cleaning out the Status directory there may be some jobs that may go into a disappeared state. Manual intervention will be needed by the customer to figure out if some of these jobs should be rerun by the customer.

Option 2 Instead of removing the backup files on the CONTROL-M/Agent, since there could be 100 s of boxes to connect to, is to identify as best you can (see below on how to estimate)* the last ORDERID used by the CONTROL-M/Server before the crash, and then force the CONTROL-M/Server to begin the assignment of new ORDERIDs with a number that is higher than this. That way there can never be a conflict based on CONTROL-M/Agent backup/status files. This can be done by stopping the CONTROL-M/Server and then updating the CMR_AJF value in the CMR_LASTNO Table of the Database. Since it can be difficult for Production Customers to do new CONTROL-M/Agent installations and change Ports, etc. the following is a quick and easy workaround.

*Estimating the value of ORDERNO.

You don't need to be very accurate simply determine how old is the backup that will be applied and then take the number of jobs definitions in the datacenter and multiple by the difference in days between the old backup and today. For example if you have 10,000 job in CMS_JOBDEF and the backup database that you will be restoring is 7 days old then add 70,000 to the current value of LAST_ISN plus add additional 10,000 to provide a large buffer should the estimation be too conservative.

An example of how to determine the value and increase it. ++++++

You can stop the CONTROL-M/Server (e.g. shut_ca; shut_ctm) and modify the CMR_AJF value in the Table CMR_LASTNO of the Database. Below is a copy and paste example where the orderid value is changed from 13252 to 25000 to see that the ORDERID of the next Active Job was 25001.

++++++
++++++ login as: cm631syb

Password: aps-melb-sol1-cm631syb [1] SQL

1> select * from CMR_LASTNO

2> go TABLENAME LASTISN

CMR_AJF 13252

CMS_JOBDEF 3242

CONTROL-M Database was restored from an old back up and now the jobs are not executing and Autoedits are showing up in the wrong job. (SLN000015069918)

```
CR      1
CTMUT0aix2  1
EMUTIOaix2  1          (5 rows affected)      1> quit          aps-melb-sol1-cm631syb [2] shut_ca;
shut_ctm
```

Shutting down CONTROL-M/Server Configuration Agent

Waiting ..

CONTROL-M/Server Configuration Agent is down

Shutting down CONTROL-M.

```
Waiting ...          aps-melb-sol1-cm631syb [3] SQL          1> select MAX(ORDERNO) from
CMR_AJF
2> go
```

```
13252          (1 row affected)          1> update CMR_LASTNO set LASTISN=25000 where
TABLENAME='CMR_AJF'
```

2> go

(1 row affected) 1> select * from CMR_LASTNO

2> go

TABLENAME LASTISN

CMR_AJF 25000
CMS_JOBDEF 3242

CR 1

CTMUT0aix2 1

EMUTIOaix2 1 (5 rows affected) 1> quit

aps-melb-sol1-cm631syb [20] start_ca; start_ctm Starting CONTROL-M/Server Configuration Agent at Wed Oct 22 13:21:37 EST 2008

Starting CONTROL-M/Server at Wed Oct 22 13:21:43 EST 2008 aps-melb-sol1-cm631syb [21]
ctmcreate -TASKTYPE COMMAND -CMDLINE hostname -JOBNAME ORDERID_TEST -NODEGRP
defaultagent new ORDER created, orderid:000jah(25001) for JOBNAME=ORDERID_TEST.

Note: a subsequent ctmprsm check of the Job shows that it was OK: 00000a84
SLEEP_REMINDER DMY 20081022 Post proc OK 1115

00000jah ORDERID_TEST CMD 20081022 Post proc OK H) Hold, F) Free, D) Delete, U)
Undelete R) Rerun, W) Why, Z) Details

LO) LogOrd, LJ) LogJob, Cn) Confirm, Sx) Sort[x: 1.ORDERNO 2.JOBNAME]

J) Sysout A) Statistic V) View Script/JCL K) Force OK I) Dependencies Jobs

Gx) Global action x [x: H(Hold), F(Free), D(Delete), U(Undelete) R(Rerun)]

CONTROL-M Database was restored from an old back up and now the jobs are not executing and Autoedits are showing up in the wrong job. (SLN000015069918)

Q)Quit Enter Option:LO

Enter Orderno [:00000jah >ctmlog listord "00000jah" "*" < Date: 22-Oct-2008. Page: 1

CTMLOG REPORT from 00000000 000000 to 99999999 999999 Orderno : 00jah (*25001)

+-----+

Date	Time	Jobname	Order	SS	MID	Message
------	------	---------	-------	----	-----	---------

+-----+

1022	1322	ORDERID_TEST	00jah	UT	5407	CREATED BY USER cm631syb
------	------	--------------	-------	----	------	--------------------------

1022	1322	ORDERID_TEST	00jah	SL	5105	SUBMITTED TO aps-melb-sol1
------	------	--------------	-------	----	------	----------------------------

1022	1322	ORDERID_TEST	00jah	TR	5101	STARTED AT 20081022132209 ON aps-melb-sol1
------	------	--------------	-------	----	------	--

1022	1322	ORDERID_TEST	00jah	TR	5120	JOB STATE CHANGED TO Executing
------	------	--------------	-------	----	------	--------------------------------

1022	1322	ORDERID_TEST	00jah	TR	5100	ENDED AT 20081022132234. OSCOMPSTAT 0. RUNCNT 1
------	------	--------------	-------	----	------	---

1022	1322	ORDERID_TEST	00jah	TR	5133	ENDED OK
------	------	--------------	-------	----	------	----------

1022	1322	ORDERID_TEST	00jah	TR	5120	JOB STATE CHANGED TO Analyzed
------	------	--------------	-------	----	------	-------------------------------

1022	1322	ORDERID_TEST	00jah	SL	5120	JOB STATE CHANGED TO Post processed
------	------	--------------	-------	----	------	-------------------------------------

 Press
ENTER to continue:

The CONTROL-M/Server database should not be restored using an old backup. Given the nature of extremely dynamic data high availability tools should be either Mirroring or Clustering so that at the time of failure CONTROL-M/Server has can pick up from exactly where it left off.

Related Products:

1. Control-M/Server for UNIX and Microsoft Windows
2. Control-M/CM for SAP

Article Number:

000096250

Article Type:

Solutions to a Product Problem

Looking for additional information? [Search BMC Support](#) or [Browse Knowledge Articles](#)