

Subject: MCR-10045, Fix >t>admin.ec to support consolidated volume dumps

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Introduction

>t>admin.ec is installed into >sc1 during cold boot. It provides the implementation of the Initializer “x” commands. One of these commands is “x vcons”, which starts a consolidated volume dump. MCR8135 made obsolete the -incr_skip_count N control argument to the consolidated_volume_dump command, but admin.ec still uses it. Consequently, you cannot start a consolidated volume dump using an “x” command.

The manual that documents consolidated_volume_dump, GB64-00, still documents the -incr_skip_count N control argument. The info segment is up-to-date. It may well be that we simply don’t have the latest version of GB64.

Update: There has existed a GB64 errata since MR12.5 in >doc>info>gb64.errata.info that does direct the reader to remove the -incr_skip_count N control argument and add the replacement control arguments.

Problem

The issue is very simple, the -incr_skip_count N control argument to the consolidated_volume_dump command is no longer supported. >t>admin.ec implements the “x vcons” command this way:

```
&label consolidated_volume
&label vcons
&
& exec_com to allow the operators to easily run consolidated volume dumping.
&
& ARG1 = the operator's initials
&
&
&if [not [exists argument &r2]] &then &goto error
sc_command login Volume_Dumper Daemon vcons
pause 10
sc_command r vcons consolidated_volume_dump -control sys_vols -operator &r2 -error_on
-auto -incr_skip_count 2 &rf3
&quit
```

If you invoke “x vcons ejs” you get the following error:

```
1527 vcons consolidated_volume_dump:
1527 vcons Creating new control seg
>user_dir>Daemon>Volume_Dumper>sys_vols.cons.control
1527 vcons dmpr_report_: Error file dmpr_err.cons.01/17/18.1527 created
1527 vcons dmpr_arg_reader_:
1527 vcons The -incr_skip_count function has been replaced by -purge_volume_log.:
Invalid argument.
1527 vcons dmpr_arg_reader_: -incr_skip_count: Invalid argument.
1527 vcons r 15:27 0.191 11
```

and no consolidated volume dump occurs.

Proposed Changes

Replacing the command line with the following:

```
sc_command r vcons consolidated_volume_dump -control sys_vols -operator &r2 -error_on
-auto -purge_volume_log &rf3
```

fixes the problem. According to the code (dmp_arg_reader_.pl1), -incr_skip_count N was replaced by -purge_volume_log:

```
else if arg = "-incr_skip_count" then do;
    call dmpr_report_$error_output (error_table_$bad_arg, myname, "
The -incr_skip_count function has been replaced by -purge_volume_log.", arg);
    goto bad_arg;
end;
```

Note: The '-purge_volume_log' uses the count set by 'set_volume_log', and the default value used for the count is 2

The history comments in this program include:

```
3) change(89-08-31,GWMay), approve(89-10-03,MCR8135),
audit(89-10-04,Beattie), install(89-10-10,MR12.3-1089):
Disabled the -incr_skip_count argument. Used the value
dmp_data .incr_skip_count as a switch for a new control argument set.
Added -purge_volume_log, -pvl, -no_purge_volume_log, -npvl arguments.
```

Testing of the Change

Testing of this change involves invoking "x vcons ejs" to make sure that a consolidated volume dump occurs correctly.

Bug Reference

- Reference URL of Multics Change Ticket: <http://multics-trac.swenson.org/ticket/98>.

Documentation

An errata already exists for GB64 and the info segment for the consolidated_volume_dump command is already up-to-date so no further documentation changes are needed.

Version History

Date	Revision	Author	Comment
2018-01-17	1.0	Eric Swenson	Initial version of MCR.
2018-01-23	1.1	Eric Swenson	Added note about the value (2) of N specified as the old -incr_skip_count argument.

