



Using Vanguard Security Solutions to Complete DISA STIG SRR Review Procedures

z/OS BMC Control-O for RACF Analysis Process and Checklist

Modeled After:
SRR REVIEW PROCEDURES
z/OS BMC Control-O for RACF Checklist
Developed by DISA for the DOD
Version 6 Release 7
October 2018

Using Vanguard Security Solutions™ to Complete DISA STIG SRR Review Procedures

DISA Version 6.28

Document Number CTO_STIG-08012016-115100-628A

October, 2018

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Table of Contents

- ___ STIG ID: ZCTO0040..... 4
- ___ STIG ID: ZCTO0041..... 5
- ___ STIG ID: ZCTO0060..... 6
- ___ STIG ID: ZCTOR001 9
- ___ STIG ID: ZCTOR020 10
- ___ STIG ID: ZCTOR030 11

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Version 6 Release 6

___ **STIG ID: ZCTO0040**

Default Severity: Category II

- a) Ensure the following keywords are specified in the BMC CONTROL-O security parameter member:

Keyword	Value
DEFMCHKO	\$\$CTOEDM
SECTOLO	NO
DFMO01	EXTEND
DFMO02	EXTEND
DFMO03	EXTEND
DFMO04	EXTEND
DFMO08	EXTEND
DFMO10	PROD (new for 6.3.xx)
DFMO15	EXTEND

- b) If the above Keywords and Values are as specified above, there is NO FINDING.
- c) If the above Keywords and Values are NOT as specified above, this is a FINDING.

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___**STIG ID: ZCTO0041**

Default Severity: Category II

- a) The following keywords will have the specified values in the BMC CONTROL-O security parameter member:

Keyword	Value
RUNTDFT	OWNER
RUNTCACH	100
AUTOMLOG	V

- b) If the above Keywords and Values are as specified above, there is NO FINDING.
- c) If the above Keywords and Values are NOT as specified above, this is a FINDING.

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___ **STIG ID: ZCTO0060**

Default Severity: Category II

- a) Interview the systems programmer responsible for the BMC CONTROL-O. Determine if the site has modified the following security exit(s)::

CTOSE01
CTOSE02
CTOSE03
CTOSE04
CTOSE08
CTOSE10
CTOSE15

Ensure the above security exit(s) has (have) not been modified.

If the above security exit(s) has (have) been modified, ensure that the security exit(s) has (have) been approved by the site systems programmer and the approval is on file for examination.

- b) If the above exits have not been modified, or modified and a letter is on file from the systems programmer approving the changes, then there is NO FINDING.
- c) If the above exits have been modified and a letter is NOT on file from the systems programmer approving the changes, then there is a FINDING.

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___**STIG ID: ZCTOR000**

Default Severity: Category II

1. Check with your IOA or Systems Programming personnel and compile the list of BMC CONTROL-O Installation Datasets. Most likely they are similar to:
SYS2.IOA.*.CTO*.** or SYS3.IOA.*.CTOI.**.
2. From the Administrator Main Menu Choose Option 2 Security Server Commands.
3. Then choose Option: 3 Data Set.
4. Type the resource names collected in option 1. above into: "Enter fully qualified (without quotes) data set or profile name:".
5. Hit enter.
6. Enter Y for Display covering profile?
7. Verify that the UACC is NONE.
8. Verify that Audit Successes and Failures specifies UPDATE or READ.
9. Tab down to Standard Access Permits and place an E next to it (hit enter) and validate that UPDATE or higher access is limited to Systems Programming personnel. Verify Read access if applicable is given to:
 - Auditors
 - BMC Users
 - BMC STCs
 - Batch Users.
10. If CONDITIONAL ACCESS PERMITS: _ (E to edit data) has *data is present* next to it, place an E next to it and validate that conditional access permits of Update or higher are limited to Systems Programming Personnel as well. Verify Read access if applicable is given to:
 - Auditors
 - BMC Users
 - BMC STCs
 - Batch Users.
11. Repeat steps 2 through 10 for all datasets in option 1.above.
12. If 7, 8, 9 and 10 are all true, there is NO FINDING.
13. If 7, 8, 9 and 10 are not true, this is a FINDING.

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Version 6 Release 6

CCI: CCI-000213

CCI: CCI-002234

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Version 6 Release 6

___**STIG ID: ZCTOR001**

Default Severity: Category II

1. Check with your ISSO or Systems Programming personnel and compile the list of BMC Control-O STC and/or batch data sets datasets. Most likely they are similar to SYS3.IOA.*.CTDO.**.
2. From the Administrator Main Menu Choose Option 2 Security Server Commands.
3. Then choose Option: 3 Data Set.
4. Type the resource names collected in option a.1 above into: "Enter fully qualified (without quotes) data set or profile name:".
5. Hit enter.
6. Enter Y for Display covering profile?
7. Verify that the UACC is NONE.
8. Tab down to Standard Access Permits and place an E next to it (hit enter)and validate that UPDATE or higher access is limited to Systems Programming Personnel. Update access is permitted to BMC STCs, BMC Users and BMC batch users. Verify Read access is limited to Auditors, System Operators, and domain-level Production Control and Scheduling personnel.
9. If Conditional Access Permits: _ (E to edit data) has *data is present* next to it, place an E next to it and validate that conditional access permits of UPDATE or higher are limited to Systems Programming Personnel. Update access is permitted to BMC STCs, BMC Users and BMC batch users. Verify Read access is limited to Auditors, System Operators, and domain-level Production Control and Scheduling personnel.
10. Repeat steps 2 through 9 for all datasets in option.1. above.
11. If 7, 8, and 9 are all true, there is NO FINDING.
12. If 7, 8, or 9 are not true, this is a FINDING.

CCI: CCI-001499

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Version 6 Release 6

___**STIG ID: ZCTOR020**

Default Severity: Category II

Verify that the accesses to resources in the BMC CONTROL-O Resources table in the z/OS STIG Addendum are properly restricted.

NOTE: To determine what resource class is used review the IOACCLASS setting in SECPARM to determine the resource class to use. Refer to ZIOA0040 for this setting.

- a) Verify the resources identified in the BMC CONTROL-O Resources table in the z/OS STIG Addendum are properly defined and access is restricted to the appropriate personnel. For all the PROFILES found in BMC CONTROL-O Resources table in the z/OS STIG Addendum:
 1. From the Administrator Main Menu Choose Option 3 Security Server Reports
 2. then choose Option: 4 General Resource Profile
 3. On the command line choose option 4 AND then Put (* or \$\$*) next to PROFILE: and (class name from ZIOA0040) next to CLASS:
 - Profile: from table (or specify \$\$* as all profile start with a \$\$)
 - Class: from ZIOA0040
 4. Hit enter.
 5. Verify that the UACC for all profiles listed is NONE
 6. Place an S next to the profile and validate that the access list is appropriate (as defined or more restrictive than the BMC CONTROL-O Resources table in the z/OS STIG Addendum. If TYPE is GROUP, place an S in the CMD line and hit enter to explode the GROUP.
 7. For all resources with logging requirements place an LR next to the profile (hit enter and review the output) and validate that it specifies ALL(READ).
- b) If all profiles, access lists, and Auditing are defined like or more restrictive than the BMC CONTROL-O Resources table in the z/OS STIG Addendum, then there is NO FINDING.
- c) If any Profile, Access list or Auditing is more permissive than the BMC CONTROL-O Resources table in the z/OS STIG Addendum, then there is a FINDING.

CCI: CCI-000035

CCI: CCI-002234

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Version 6 Release 6

___ **STIG ID: ZCTOR030**

Default Severity: Category II

- a) From Analyzer main Menu, go to 3;4; Press ENTER
- b) Key in SORT PROCNAME; Press ENTER
- c) Key in L CONTROLO; Press ENTER
- d) If not found then CONTROLO; is not defined to RACF as a STC user.
- e) If found then use the U line command to determine if the userid is defined to RACF.
- f) The userid is defined to RACF if a userid display appears. If not defined you should see the message No data to display
- g) Press F3 to go back to the previous display. If no R is next to the entry then the user is protected.
- h) If an R is next to the entry, place an M on the command line and validate the following is NOT displayed: VSA346R The user ID does not have the protected attribute.
- i) If the userid for the CONTROL-O started task is defined to the security database and is protected, there is NO FINDING.
- j) If the userid for the CONTROL-O started task is not defined to the security database, or is defined but does not have the protected attribute, this is a FINDING.

CCI: CCI-000764

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Version 6 Release 6

___**STIG ID: ZCTOR032**

Default Severity: Category II

- a) Use Vanguard s Analyzer product to look at the Started Procedures Analysis report:
 - 1. From Analyzer main Menu, go to 3;4; Press ENTER
 - 2. Key in SORT PROCNAME; Press ENTER
 - 3. Key in L CONTROLO; Press ENTER
 - 4. Look at the source column. It will indicate STARTED class profile or ICHRIN03 entry.
 - 5. If not found then CONTROLO is not defined to RACF as a STC user.
- b) If a STARTED resource class profile exists for the CONTROLO STC, there is NO FINDING.
- c) If neither a STARTED resource class profile or an ICHRIN03 entry exists for the CONTROLO STC, this is a FINDING.

CCI: CCI-000764