BMC Intelligent Capping for zEnterprise
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The new RESTORE parameter allows you to change how iCap restores DCs and GCLs when the PAS terminates, a new policy is activated, or iCap leaves manage mode.

BMC is announcing a enhancement to the BMC Intelligent Capping for zEnterprise product.

Overview of the enhancement

iCap restores DCs and GCLs when the PAS terminates, or when iCap stops managing a group or LPAR. Previously, iCap always restored DCs and GCLs to the values they had when the master PAS initialized. The new RESTORE parameter continues to offer that option (via the default RESTORE=YES) while also offering three new options:

- **RESTORE=NO** leaves DCs and GCLs as they were when iCap stopped managing the LPAR or group, or the PAS terminated.
- **RESTORE=ZERO** sets DCs to 0 and GCLs to the value they had when the PAS initialized.
- **RESTORE=ENT** sets the DC and GCL values based on entitlement:
  - For LPARs, iCap sets the DC according to the LPAR's entitlement level.
  - For groups, iCap sets the GCL according to the group's entitlement level.
  - For group members that are being managed individually, iCap sets the GCL to the sum of the individual members' entitlements.

*Note*

The DC of each group member is set to MAXDCGCL, or to 0 if you did not specify MAXDCGCL.
Using the RESTORE parameter

You can set the value for RESTORE when you start the master PAS. If the master PAS is already running, you can also temporarily change the value for RESTORE by issuing a MODIFY command.

To change the RESTORE parameter when you start the master PAS

1 Add the RESTORE parameter to the master PAS JCL.

   **Note**
   The default value for RESTORE is YES. Add the RESTORE parameter to the master PAS JCL *only if you want to specify a different value.*

   **Example**
   ```
   //PAS EXEC PGM=DC9XZ00,
   // PARM=('SSID=&SSID,XDM=&XDM,RESTORE=ENT,
   // POLICY=&POLICY,MODE=&PASMODE,TYPE=MASTER'),
   // REGION=&RGN.M,
   // TIME=1440
   ```

To temporarily change the RESTORE parameter

1 Issue the following MODIFY (F) command:

   ```
   F PAS,RESTORE=option
   ```

   **Note**
   Issuing a MODIFY command does not automatically restore DCs and GCLs. The change will take effect only if any of the following conditions occur:
   - You activate a new policy.
   - The master PAS terminates.
   - You switch from manage mode to message or observe mode.

Examples of how RESTORE affects DCs and GCLs

To understand how iCap responds to the RESTORE parameter options, assume that the following conditions exist:
Policy A (the active policy) contains SYSA, SYSB, and SYSC.

Policy B contains SYSA and SYSB.

RESTORE=YES is set in the master PAS JCL.

**Example**

Switching the active policy from Policy A to Policy B produces the following results:

- iCap restores only groups or LPARs that existed in Policy A but *not* in Policy B. Consequently, switching the policy causes iCap to restore only SYSC.

- SYSA and SYSB (common to both the old policy and the new) remain at their current value. They are not restored until iCap stops managing them, or the master PAS terminates.

**Example**

As another example, assume that the same initial conditions exist regarding Policy A, Policy B, and RESTORE=YES; however, you use a MODIFY command to change the RESTORE parameter to NO while the master PAS is running. Switching the active policy from Policy A to Policy B produces the following results:

- SYSC is not restored (meaning the DCs and GCLs do not change).

- iCap does not save the original value for SYSC, which was set when the master PAS initialized. That is, the DCs and GCLs cannot be restored, even if you change the RESTORE parameter back to YES.

For this second example, if the master PAS terminates or iCap switches out of manage mode, results are as follows:

- If RESTORE=NO, SYSA and SYSB are not restored. When you restart the master PAS, iCap uses the DC and GCL values that existed when the PAS terminated; the original values for SYSA and SYSB are lost.

- If you change back to RESTORE=YES (before the PAS terminates), SYSA and SYSB are restored, but SYSC does not change.

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**Obtaining the enhancement**

Use the following procedure to obtain the enhancement:
1 Apply PTF BQY0647.
BMC recommends using BMC Internet Service Retrieval (ISR) to obtain PTFs. For information about ISR, see the maintenance information in the Installation System documentation.
You can also obtain PTFs from eFix PTF Distribution Services (eFix). You can access eFix directly at http://apps.bmc.com/support/efix.cgi or from the support site. For information about eFix, see the online Help.

2 Restart the CAS with a cold start (COLD=Y).

**Note**
If you need to restore this PTF for any reason, you must restart the CAS again with a cold start.

**Note**
If you have questions, contact Customer Support at 1 800 537 1813 (United States or Canada) or call your local support center.