

HP XP7 for Business Continuity Manager 8.1.0-01 Release Notes

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Version

8.1.0-01

Description

This document contains release notes for HP XP7 for Business Continuity Manager (BCM). This release addresses an issue in which YKQUERY and other CLI commands generated a return code of 44.

Update recommendation

Recommended

Superseded version

8.1.0-00

Operating system

One of the operating system versions shown in the following table is required.

Table 1 Applicable operating system

Operating systems	Required version
z/OS	V1R10-V2R1

License keys

You cannot use license keys that you installed for release 05-03 or earlier. This version requires a new style license key. The new style license key length is 75 characters.

Product models

Table 2 Storage system firmware levels

Storage system	Required microcode version	Storage system support function
HP XP7 Storage	80-01-01 or later	0x40 or lower
HP XP P9500 Storage	70-00-35 or later	0x33 or lower
HP XP24000 Disk Array HP XP20000 Disk Array	60-02-33 or later	0x23 or lower
HP XP12000 Disk Array HP XP10000 Disk Array	50-09-11 or later	0x16 or lower

Devices supported

HP XP7 for Business Continuity Manager on IBM mainframe servers running z/OS using HP XP7 Storage, HP XP P9500 Storage, and HP XP series disk arrays.

Languages

International English

New features and important enhancements

This version of BCM supports the following functions and features:

Table 3 Supported enhancements and features in 8.1.0-00

Item	Column Head Column Head Column Head
Operation improvement	BCM stops updating a disk configuration file if the scanned volumes have the same serial number in the disk configuration file to protect the current disk configuration file from unwanted updating.
	BCM operates PPRC copy pairs that are not dissolved and initialized after scanning the PPRC copy pairs.

If you currently use a BCM version earlier than 8.1.0-00, see *HP XP7 for Business Continuity Manager 8.1.0-00 Release Notes* for new functionality.

Prerequisites

Prerequisite programs

The following software programs must be installed to use Business Continuity Manager.

Table 4 Prerequisite programs to install

Program name	Notes
DFSMS	Standard OS component
ISPF	Standard OS component
TSO/E	Standard OS component
TSO/E REXX	Standard OS component
Security Server	To use the resource access control facility (RACF)
IBM Library for REXX on zSeries Release 4 (FMID HWJ9140) or IBM Library for REXX on zSeries Alternate Library (FMID HWJ9143)	The REXX Alternate Library is included in standard OS component.

Related programs

Linking Replication Manager

The following software programs are required when Replication Manager is used to collect mainframe system storage information.

Table 5 Prerequisite programs when linking Replication Manager

Program name	Description	Notes
IBM Communication Server	A communication program	Standard OS component
Replication Manager	A program required to define, use, and monitor copy pairs.	8.1.0-00 or later
IBM HTTP Server for z/OS	An optional product bundled with WebSphere Application Server for z/OS. This is required when establishing IPv6 connections or HTTPS communication with Replication Manager. In addition, z/OS Security Level3 is required when establishing HTTPS communication with Replication Manager.	Use version 6.1

Operating z/OS on z/VM

The following software programs are required when operating BC Manager z/OS on z/VM. In addition, a LOCALMOD must be performed on the z/VM Control Program (CP) to enable the CCWs used by BCM. See Appendix E in the *HP XP7 for Business Continuity Manager Installation Guide* for the details of the LOCALMOD.

Table 6 Prerequisite programs when operating Business Continuity Manager z/OS on z/VM

Program name	Notes
z/VM	V5R3 (PTF is necessary) or higher

Performing operations in a 2DC configuration with HyperSwap and Continuous Access Journal

The following software program is required when running BCM in a 2DC configuration with HyperSwap and Continuous Access Journal.

Table 7 Prerequisite programs when performing operations in a 2DC configuration with HyperSwap and Cnt Ac-J

Program name	Notes
IBM Tivoli Storage Productivity Center for Replication for System z	4.2.0 or later

Memory and disk space requirements

Virtual memory space requirements

The following indicates the user region necessary to run Business Continuity Manager.

- User region less than 16 MB:
1,024 KB
- Extended user region greater than 16 MB:
 - For TSO/E:
 $4,000 \text{ KB} + (2 \times \text{number of volumes}) \text{ KB}$
 - For Batch:
 $4,000 \text{ KB} + \uparrow(1.5 \times \text{number of volumes})\uparrow \text{ KB}$
number of volumes: Number of all volumes included in DAD used. When two or more copy groups are operated, they are sum totals of the number of volumes that each copy group uses.

The following indicates the user region necessary when linking with Replication Manager. The *PREFIX* parameter and *DEVN* parameter in the following formula are the initialization parameters of the BCM agent.

- User region less than 16 MB:
2,048 KB
- Extended user region greater than 16 MB:
 $6,000 \text{ KB} + A \text{ KB}$
 $+ \uparrow(512 \times \text{number-of-specified-PREFIX-parameters}) \div 1,024 \uparrow \text{ KB}$
 $+ \uparrow(64 \times \text{number-of-specified-DEVN-parameters}) \div 1,024 \uparrow \text{ KB}$
A: The larger value of the following: the value of $(1.5 \times D)$ and the result of $(3 \times P)$

D: Among the numbers of devices specified for the DEVN parameters, the highest number of devices.

P: Among the copy groups used by the BCM agent, the highest number of copy pairs in any group.

The amount of memory required to use BCM Monitor is shown as follows.

- For a user region less than 16 MB:
2,048 KB
- For an extended user region of 16 MB or more:
6,000 KB + (3 × *number-of-copy-pairs*) KB + (C + S) × 1 KB
C: Number of copy group parameters specified in the YKMONCG file.
S: Number of action parameters specified in the YKMONCG file.

Table 8 Disk space requirements

Files to be installed	Required space (in unit of tracks)	Number of directories
HPQSYSAMT	15 tracks	5
HPQSYLNKT	90 tracks	30
HPQSYLPAT	1 track	1
HPQSYPRCT	5 tracks	10
HPQSYEXET	45 tracks	10
HPQSYEXVT	45 tracks	10
HPQSYPNLT	60 tracks	200
HPQSYMSGT	5 tracks	5
HPQSYTABT	5 tracks	5

Resolved issues

Resolved issues from 8.1.0-00 to 8.1.0-01.

Table 9 Resolved issues

Resolved issues	Applied products	Applied OS
<p>Addressed an issue in which YKQUERY and other CLI commands generated the YKZ207E message and ended abnormally with the return code of 44. The issue occurs if the all following condition are met.</p> <ul style="list-style-type: none"> • Set the BCM environment variable LOGPUT or the corresponding system symbol name &YKLOGPT to SAM. SYSOUT is specified to the DD name YKLOG01 or YKLOG02. • The copygroup uses a Non-Gen'ed volume in P-VOL or S-VOL. • Execute the CLI commands: YKMAKE, YKSUSPND, YKRESYNC, YKDELETE, YKRECVER, YKFREEZE, YKRUN, YKQUERY, YKEWIT, YKSTATS, and YKWATCH. 	BCM	All

Table 9 Resolved issues (continued)

Resolved issues	Applied products	Applied OS

Known issues

None.

Installation instructions

Installation precautions

Review the following manual references for installation:

- Before starting installation, ensure that there are sufficient dataset capacity and number of directories in the distribution libraries and the target libraries that are required for installation.
- See the installation chapter of the *HP XP7 for Business Continuity Manager Installation Guide* for full details.

Determining current version

Version description

The Main Menu panel displays the version number of this product as follows:

- Version 8.1.0-01

The ISPF Setting Information panel and the YKINSCHK command YKK001I message output display the version number of this product as follows:

- Version 8.1.0-01 (00)

The YKDSPENV command YKT400I message output displays the version number of this product as follows:

- Version 8.1.0-01

When Agent starts, the YKY001I message output displays the version number of this product as follows:

- Version 8.1.0-01

The YKENV command displays the version number of this product as follows:

- Version 8.1.0-01 (00)

When BCM Monitor starts, the YK8001I message output displays the version number of this product as follows:

- Version 8.1.0-01

In the chapters "Installing Business Continuity Manager" and "Modifying Sample JCL" in the *HP XP7 Business Continuity Manager Installation Guide*, replace CHYK nnn and V $nnnnnn$ as follows:

In the manual	Replace with
CHYK nnn	CHYK806
V $nnnnnn$	V081001

User SVC version that corresponds to this product version

The User SVC version that corresponds to this product version is as follows:

- Version 7.5.0-00(00) or later

This information appears in the User SVC Information panel and the `YKINSCHK` command execution result.

Compatibility/interoperability

System configuration

- BCM supports 2DC configurations (1:1). By making multiple units of 2DC configurations, it is possible to create N:N configurations.
- BCM supports 3DC (Cnt Ac-S and Cnt Ac-J) configurations (Cascade configurations and Multi-Target configurations). Note that 3DC configurations are supported only when all storage systems in the configurations are XP10000/XP12000 disk arrays, XP20000/XP24000 disk arrays, XP P9500 Storage, or XP7 Storage. N:1 configuration and a configuration that consists of 4 or more DCs are not supported.
- BCM supports 4x4 and 4x4x4 Multi-Target configurations. Note that the configuration should consist entirely of XP10000/XP12000 disk arrays, XP20000/XP24000 disk arrays, XP P9500 Storage, or XP7 Storage.
- BCM supports 4x4x4 Cascade configurations. Note that the configuration should consist entirely of XP12000/XP10000 disk arrays, XP24000/XP20000 disk arrays, XP P9500 Storage, or XP7 Storage.

Remote DKC control function

- When using Remote DKC control function, use Fibre Channel links for connection between DKCs. ESCON links are not supported. When you define the logical path between CUs for Remote DKC control function, you must define the path between the CUs that belong to the command device volumes.
- To share a command device among multiple operating systems, ensure that the `&YKCMDIF` variable is either defined in the IEASYM member or set by the `START YKSETENV` command.
- When allocating a command device, note the following items:
 - A parity group cannot be moved if a command device is defined within the parity group.
 - The parity group type cannot be changed if the command device is defined within the parity group.

- The command device between LCUs cannot be moved.
- The volume size of the command device cannot be changed.
- When defining a multiple command device line, HP recommends the following command device setting to reduce the CLI command response time:
 - The number of command devices for the first storage system of a route list should be 17 or less.

Copy types

There should not be a mix of copy types within a single copy group. Ensure that all volumes are `SIMPLEX` in the initial state. BCM does not display the pair status correctly in the following conditions:

- Copy group definition is changed when all pairs are not `SIMPLEX`.
- Pair configuration in the copy group definition differs from the actual pair configuration.

Other

- From BCM 04-00, CLI Command-Execution Logs are output to `SYSLOG`. This applies to the CLI commands that are executed from within the ISPF panels of BCM. Therefore, large amounts of data will be output to `SYSLOG` when you make frequent use of BCM or issue many CLI commands.
- BCM does not support Data Exchange volumes.
- From z/OS V1R8, a console ID cannot be specified to the CN operand of the TSO/E `SEND` command. Because of this, a console ID cannot be specified for the CN operand of the `YKWATCH` command when using it on z/OS V1R8 or later. If the console ID is specified, the TSO/E `SEND` command that is used in the `YKWATCH` command will fail and the `YKWATCH` does not return the expected message.
- From BCM 06-00, it becomes impossible to use the configuration file made by versions earlier than 02-00. (`APIInfo Level` in the configuration file is 1.1.0 or earlier).
- After the storage system microcode is replaced, scan the storage system.
- Specify a different storage system serial number for P-VOL and S-VOL when you define the copy group definition of the copy type other than Business Copy.
- Do not specify a different DADID from the DADID in a copy group definition when you specify a DADID in the Set Defaults panel or the `YKLOAD` command's operand.
- From BCM 06-00, it is necessary to set up the resource access control facility (RACF) to use the CLI commands or BCM agent.
- Do not perform PPRC operations on BCM copy pairs. If you perform PPRC operations to BCM copy pairs, dissolve and re-establish the copy pairs using BCM.
You can resynchronize copy pairs with the `CESTPAIR` operation with the default operands only if you perform the `CSUSPEND` operation with the default operands on the BCM copy pairs of a Cnt-Ac S copy group without the C/T group ID.
- If there is already a configuration file generated by the `YKP2A` command of the Mainframe Agent program, make sure to use the different prefix value for BCM so that it does not reference the configuration file generated by the `YKP2A` command. BCM does not accept a configuration file generated by the `YKP2A` command. If such a file is used for any BCM operations, it causes an error.
- With BCM versions earlier than version 6.1.0-00, user SVCs cannot be used to suppress output of IOS002A messages when the I/O path between the host and the storage system is disconnected while device scanning is being performed. Therefore, in a mixed-version environment, make sure to always use user SVCs of BCM version 6.1.0-00 or later.

Temporary restrictions

- In a configuration in which supported XP disk arrays, XP P9500 Storage, and XP7 Storage coexist, BCM can manage a configuration only when it consists of devices whose serial numbers are not duplicates. Each device in the configuration must have a unique serial number.
- When using BCM to operate from L-site in a 4x4x4 Multi-Target configuration with Delta Resync, do not perform the resync operation on a Cnt Ac-J copy pair that was automatically suspended after performing Reverse Resync on Cnt Ac-S copy pairs to avoid forming a 3DC Cascade configuration.
- When using BCM to operate from L-site in a 4x4x4 Multi-Target configuration with Delta Resync, start the business operation after Cnt Ac-S and Cnt Ac-J copy pairs are formed so the Multi-Target configuration is established.
- BCM does not support a recovery procedure from failure in 4x4x4 Multi-Target configuration with Delta Resync by misoperation. In this case, use the following assistance:
If you need to call technical support, make sure to provide as much information about the problem as possible, including:
 - The circumstances surrounding the error or failure.
 - The content of any error messages displayed on the host systems.
 - The content of any error messages displayed on Remote Web Console.
 - The Remote Web Console configuration information (use the FD Dump Tool).
 - The service information messages (SIMs), including reference codes and severity levels, displayed by Remote Web Console.
- Do not specify the following values to the DADID of a Disk Configuration Definition, a copy group, or a route list. Specifying those values may cause the information displayed in the Discover HP Storage Arrays panel to become incorrect.
 - "R"
 - "CMD"
 - "I"
 - "K"
 - "RC"

Examples that cannot be specified:

- "R"
- "xx.R"
- "R.xx"
- "xx.R.xx"

where *xx* is an arbitrary string of one or more characters.

- The `YKWATCH` command is not available for monitoring a copy pair status transition if the `PPRCSUM` feature in `DEVSUPxx` is enabled in z/OS V1R13 or later. Use the `YKEWAIT` command to monitor instead.

Specification differences from previous versions

This section describes the specification differences between BCM version 8.0.0-00 and version 8.1.0-00.

- In configuration files and in REXX variable structures, "XP7" is displayed as "VSPG1000".

Overall

Item	Specification in version 8.0.0	New specification in version 8.1.0
BCM Agent	Volume scanning in Replication Manager updates a disk configuration file if the scanned volumes have the same serial number in a disk configuration file.	Volume scanning in Replication Manager does not update a disk configuration file if the scanned volumes have the same serial number in a disk configuration file.
PPRC copy pairs	PPRC copy pairs can be operated by PPRC only; therefore the use of these copy pairs by BCM requires their dissolving and initializing.	Without PPRC copy pairs dissolved and initialized, BCM can operate them after scanning.
Import PPRC copy pairs	With importing PPRC copy pairs, BCM generates a copy group in the following unit. Business Copy/Cnt Ac-S: All the scanned copy pairs TCA: C/T group	With importing PPRC copy pairs, BC Manager generates a copy group in the following unit. Business Copy with no C/T group ID/Cnt Ac-S: All the scanned copy pairs Business Copy with C/T group ID/TCA: C/T group

Commands

Command	Specification in version 8.0.0-00	New specification in version 8.1.0-00
YKSCAN YKBTSCAN	Commands continue scanning if the scanned volumes have the same serial number in a disk configuration file.	Commands stop scanning if the scanned volumes have the same serial number in a disk configuration file.

ISPF panels

Panel name	Specification in version 8.0.0-00	New specification in version 8.1.0-00
Scan Device Address Extent	A disk configuration file is updated if the scanned volumes have the same serial number in the file at local scanning.	A disk configuration file is not updated if the same serial numbers with the scanned volume is detected in the file at local scanning.
Selection List for Edit devn	A disk configuration file is updated if the scanned volumes have the same serial number in the file after editing the device number.	A disk configuration file is not updated if the same serial number with the scanned volumes is detected in the file after editing the device number.

Messages

Message number	Specification in version 8.0.0-00	New specification in version 8.1.0-00
YK7100E	-	Newly added.
YK7101E	-	
YKM779E	-	
YKY731E	-	
YKZ423E	-	
YKX104E	Device# DEVN () is not found	Device# DEVN (<devn>) is not found
YKX204E		
YKZ004E		

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