INCONTROL for z/OS 9.0.00 Release Notes

July 2015

Contents

Introduction to INCONTROL for z/OS Release Notes 3

Control-M enhancements 4

Control-D enhancements 6

IOA enhancements 8

Product Distribution 9

Obtaining installation files through EPD 9
Obtaining installation files through the BMC sales representative 9
Obtaining optional files 9

Installation 10

Support for INCONTROL for z/OS 9.0.00 12

Levels of support 12
Compatibility requirements and supported resources 13
Products included in this version 13
Related documentation 14
Customer support 14

Introduction to INCONTROL for z/OS Release Notes

BMC is releasing version 9.0.00 of the INCONTROL family of products, listed under Products included in this version on page 13. These release notes provide information about the enhancements in this release. The information in this document supplements and supersedes information in the INCONTROL product manuals.

Up-to-date, essential installation and service information that becomes available after this product is released will be placed at https://kb.bmc.com/infocenter/index?page=content&id=KA409165.

Before installation, and again before going into production, BMC recommends that you check the website for any up-to-date information and also to determine whether recent fixes are available for this product by following the procedure described in the "Identifying and resolving PE PTFs using eFix" Appendix in the *INCONTROL for z/OS Installation Guide: Maintaining*.

Control-M enhancements

The following table describes Control-M enhancements for version 9.0.00.

What's new	Description
CAR00048634	**IPv6 communication**: IPv6 support, including support for mixed IPv4 and IPv6 environments available for the following components: ▪ Control-M Agent and Agentless ▪ Control-M Server ▪ Control-M Mainframe ▪ Control-M Enterprise Management - Server, Clients **NOTE**: Control-M Agentless is not supported at this configuration
CAR00033187	**Sharing information between jobs**: Ability to share information between jobs by extracting data from a job output and passing it to other jobs as a variable. Additional granularity of the variables is introduced as well, allowing the definition of variables in groups called "named pools" or as Smart folder variables that are unique per folder execution, in addition to global and local variables.
QM001775396	**Global Calendars**: You can now save time and reduce the efforts invested in calendar management by creating a single calendar in the Control-M Enterprise Manager that will be distributed to all the Control-M/Servers.
CAR00040992	**Control-M Event Management Rules in Workload Automation client**: z/OS customers can now view, edit and manage CMEM rules via the Control-M Workload Automation client.

What's new	Description
QM0AAT86992	**Dynamic job ordering on a remote Control-M Server**: Ability to order jobs on remote Control-M/Servers by setting an on/do action in a job to trigger another job, and pass variables as a part of the order operation.
CAR00048626	**Improved SMART folder management.** The management of SMART folders and their jobs has been improved by providing the ability to prevent jobs from being removed from the Active Jobs File (AJF) individually, even if the jobs have already been completed ok. Instead the SMART folders and their jobs will be removed from the AJF together based on the maximum value of the MAXWAIT parameter. This option guarantees a minimal period in which the folder and the jobs in it are kept after a failure, thus providing valuable data for analysis.

For a complete list of the Control-M V9 enhancements, see the Control-M Workload Automation 9.0.00.000 Release Notes accessible through the Control-M Workload Automation Documentation portal.

Control-D enhancements

The following table describes Control-D enhancements for version 9.0.00.

Tracking #	Description
CAR00044033	**Extended Address Volumes (EAV) support.** Control-D and Control-V now support Extended Address Volumes (EAV) with the new set of EAVUSE parameters, allowing the storage of reports, which once required many small volumes, in a small number of large volumes. The following Control-D and Control-V files are available for allocation on EAV: ▪ Control-D REPORTS library ▪ Control-D User files and its extents ▪ Active and Migrated to DASD CDAM files and its extents ▪ Active and Migrated to DASD Index files The EAVUSE parameters override the EATTR allocation parameter of the file. The actual allocation on the EAV depends on the SPACE allocation parameter of the file and the common z/OS or SMS definitions for the EAV volumes. The z/OS EAV rules are: ▪ The EAV space is allocated and released by Multiple Cylinder Units (MCU). Each unit usually consists of 21 cylinders (315 tracks). ▪ The EAV space is preferable if the primary/secondary allocation requests more than the Break Point Value (BPV) space. The BPV space usually consists of 10 cylinders (150 tracks). ▪ The EAV space is available for SMS and non-SMS files.
CAR00047579	**Decollation improvements** It is now possible to collect job in-stream data (SYSINs), in addition to other job SYSOUTs, in the Control-D Job Archiving facility, by setting the new $SYSIN system variable in the decollation definition. The in-stream data is then picked up by a decollation monitor when the generic decollation mission is performed from the corresponding MSGCLASS. In order to increase decollation mission throughput, it is now possible to specify multiple monitors for non-generic decollation missions, using the MONITOR parameter. When a list of monitors is specified, the decollation missions can be automatically assigned to one of the available monitors from the list. Thus long running decollation missions can be activated on specific monitors without affecting other urgent decollations.

Tracking #	Description
CAR00049912	**Performance statistics and trace in IOAAS** The performance statistics and trace facilities associated with the IOA Application Server (IOAAS) have been enhanced to make them more informative and more flexible for customers and support staff. For example, the performance statistics and trace data collection can be continuous, with the collected data stored in memory. At the end of a specified interval the data will be written out into external memory, allowing detailed information on IOAAS performance to be kept for long periods of time. In addition, the performance traces in IOAAS are more flexible and selective, allowing traces of either specific types of requests or actions of specific users.
CAR00047593	**Repartitioning the Migrated User Report List file** The new CTDUFMPR Utility automatically reorganizes the Migrated User Report List file (MUF) partitions more efficiently, in terms of DASD space and CPU processing time, than older utilities. The CTDUFMPR utility reorganizes the MUF partitions inside the existing partitioned datasets, using the new partition date ranges specified with the input parameters, without changing the number of partitions. Control-D/WebAccess and 3270 terminal end users can continue working with the MUF during the entire repartition process, since any records that are updated by end users during the process will be automatically synchronized with the newly repartitioned MUF.
CAR00048723	The Control-D Active Mission file can now be expanded using ICE.
CAR00047267	Access to the JOB LOGs is now available from Control-D/WebAccess.
CAR00047571	Eligible I/O workloads can now be offloaded to the zIIP processor in Control-D and Control-V.
CAR00048722	The Bypass option is now available in the Control-D Active mission file.
CAR00045492	A multistage approval process is now available.

IOA enhancements

The following table describes IOA enhancements for version 9.0.00.

Tracking #	Description
CAR00050289	**IOA Incremental Upgrade is obsolete** The Incremental Upgrade is now obsolete, being completely replaced by the IOA Express Upgrade automatic process. The IOA Express Upgrade, which you can invoke from ICE and allows you to quickly upgrade from previous INCONTROL releases, was introduced in version 8.0.00 of INCONTROL for z/OS.
CAR00048514	**TCP/IP IPv6 protocol support** INCONTROL for z/OS Version 9.0.00 supports the TCP/IP IPv6 protocol for all communications that were previously performed using the IPv4 protocol. IPv6 support is activated automatically, so that in many cases there is no need to make any changes to enable connections. INCONTROL uses IPv6 wherever possible. When initiating an outbound connection, INCONTROL iterates over all IP addresses (IPv4 and IPv6) returned by DNS, until the connection succeeds. When in IPv6 mode, messages containing IP addresses will display the IPv6 addresses or IPv4-mapped IPv6 addresses. Trace messages indicate which mode is in use. INCONTROL for z/OS Version 8.0.00 and earlier use the SAS/C TCP/IP socket API for communications. Since SAS/C does not support IPv6, all the C programs that perform socket programming have been converted to IBM C. Optionally, SAS/C can still be used by specifying SAS/C with the new ISOCKAPI and ESOCKAPI parameters. IOAGATE still uses SAS/C for Control-D encryption and compression. The following changes have been made, as a result of the conversion to IBM C: ▪ TCP/IP error strings displayed within IOAGATE messages are more detailed. ▪ In case of abend, the CEEDUMP and SYSOUT files will contain diagnostic data. There is no need to pre-allocate them. ▪ Trace messages from C programs were moved from DATRACE to SYSPRINT. ▪ Some messages were moved from the console to the DAIGLOG file.
CAR00050116	The IOA Condition file can now be expanded using ICE.
CAR00043856	Password phrase support is now available for IOA Online users and Control-D/WebAccess users.
CAR00048802	A new utility is available for handling IOA Global Variables.

Product Distribution

The following procedures describe how to obtain the installation files for INCONTROL for z/OS version 9.0.00, using EPD, or the BMC sales representative:

- Obtaining installation files through EPD (on page 9)
- Obtaining installation files through the BMC sales representative (on page 9)
- Obtaining optional files (on page 9)

Obtaining installation files through EPD

This procedure describes how to obtain the INCONTROL for z/OS version 9.0.00 installation files through EPD.

➢ To obtain installation files via EPD:

1. Click https://webapps.bmc.com/epd/ and follow the instructions on the EPD site until you reach the Download Files page.
2. Follow the provided instructions.

Obtaining installation files through the BMC sales representative

This procedure describes how to obtain the INCONTROL for z/OS version 9.0.00 installation files through the BMC sales representative.

➢ To obtain installation files through the BMC sales representative:

- To obtain a product CD, contact your BMC sales representative.

  Contact information is available on the BMC website see http://www.bmc.com/corporate/contacts-locations/

Obtaining optional files

- Request National Language Support on CD or download it from the EPD site.
- Request the Control-M Conversion tool on CD or download it from the EPD site.

Installation

The installation files for INCONTROL for z/OS version 9.0.00 are available on the installation CD or through Electronic Product Distribution (EPD), as described in Product Distribution (on page 9).

➢ To install INCONTROL for z/OS:

1. Up-to-date, essential, installation and service information for version 9.0.00 will be placed in solution KA409165 in the Knowledge Base on the BMC Customer Support website. BMC recommends that you access this location before you begin the installation of this product.
2. Install INCONTROL for z/OS from one of the media shown in the table below.

   Load ICE from the Electronic Product Distribution (EPD) site or CD, using the following space requirements:

   - For the uploaded image file – approximately 175 cylinders of a DASD volume
   - For the basepref.XMITLIB library – ppp,ss,dd = 420,40,45 cylinders

Media		Image File Name
EPD	CD	
INCONTROL for z/OS Version 9.0.00 Installation	9000B7	bmcifo-9000-inst-9000b0.bin

   Complete the installation using the Express installation process in ICE.

   Full installation instructions are provided in the sections about the Installation and Customization Engine (ICE) and the Express installation in the *INCONTROL for z/OS Installation Guide: Installing*.
3. If necessary, install the optional INCONTROL National Language Support component from one of the media shown in the table below.

   National language support is available for version 9.0.00 of the INCONTROL products listed under Products included in this version (on page 13).

   Load the National Language Support from the Electronic Product Distribution (EPD) site or CD, using the following space requirements:

   - For the uploaded image file – approximately 25 cylinders of a DASD volume.
   - For the basepref.NLSSUPP file – ppp,ss,dd = 140,14,45 cylinders.

Media		Image File Name
EPD	CD	
INCONTROL for z/OS Version 9.0.00 National Language Support	9000N7	bmcifo-9000-nls-9000n0.bin

For available options of using national or multi-national language support in the IOA online environment, see solution KA355384 in the Knowledge Base, accessible at

https://kb.bmc.com/infocenter/index?page=content&id=KA355384.

Installation instructions are provided in the *INCONTROL for z/OS Installation Guide: Installing*.

4. After you finish the installation, review the following post-installation Screen Display considerations:

   These products are shipped with the default version of IOAX037 (IOA user Exit 37), which is used to translate specific hexadecimal values. The default version of this exit translates certain hexadecimal values to X'40' (blanks). This could result in incorrect display of some screen characters under certain circumstances, in which case this exit may require local tailoring. For further information on modifying this exit, refer to the description of Exit IOAX037 in the Exits chapter of the *INCONTROL for z/OS Administrator Guide.*

5. If necessary, install the optional Control-M Conversion tool.

   The Control-M Conversion tool is used to assist in converting scheduling definitions from other products for use with Control-M.

   The information in these release notes supplements and supersedes information in the Control-M for z/OS conversion guides.

   NOTE: Details about recent fixes, zaps, or PTFs for these products are available in the Knowledge Base on the BMC Customer Support web site in solution SLN000000197255 (click on this link to obtain a list of APARs required for conversion to Control-M:

   https://kb.bmc.com/render/KCSRenderController?type=cssolutionext&id=SLN000000197255).

   Before installation, BMC recommends that you check the web site.

   To access the documentation for the relevant Control-M Conversion tool, see Related documentation on page 14. Refer to the section about downloading and installing the Control-M Conversion tools in the relevant Control-M for z/OS conversion guide.

Support for INCONTROL for z/OS 9.0.00

These topics provide information about the following:

- Levels of support (on page 12)
- Compatibility requirements and supported resources (on page 13)
- Products included in this version (on page 13)
- Related documentation (on page 14)
- Customer support (on page 14)

Levels of support

BMC supports the following product versions and releases:

Product name and version	Level of support
INCONTROL 9.0.*xx*	Full
INCONTROL 8.0.*xx*	Full
INCONTROL 7.0.*xx*	Full

For more information about the latest support policies and guidelines, see the Customer Support page of the BMC website at http://www.bmc.com/support.

Compatibility requirements and supported resources

This section provides release-specific information about requirements and supported resources for version 9.0.00 of INCONTROL for z/OS.

Operating system support

For the most current compatibility information for this version, see

http://webapps.bmc.com/paczos/faces/pac/index.jsp

INCONTROL for z/OS version 9.0.00 is compliant with the following operating systems:

- z/OS v1.12
- z/OS v1.13
- z/OS v2.1

INCONTROL for z/OS

For INCONTROL for z/OS version 8.0.01 and above, either the CMEM (Control-M Event Manager) or the Control-O monitor must be active during the New Day procedure. (This requirement was not mandatory in preceding releases).

For INCONTROL for z/OS versions 7.0.03 and above, and 8.0.00 and above, the Control-M monitor requires update access authorization to the Control-M Statistics file in support of APAR IM10089, which implements the retention of daily job counts on the Control-M Statistics file (CAR00045549).

Control-M/Enterprise Manager

INCONTROL for z/OS version 9.0.00 requires that Control-M/Enterprise Manager must be version 9.0.00 or later.

Products included in this version

Version 9.0.00 of the INCONTROL family of products includes the following products:

- Control-M for z/OS
- Control-M/Restart
- BMC Control-M Workload Automation JCL Verify
- Control-O
- Control-M/Tape
- Control-D
- Control-V
- Control-M/Analyzer
- Control-M/Assist

- Control-D/Image
- Control-D/Page On Demand
- Control-M/Links

You may have some or all of these products installed at your site. If so, review the versions of your installed products. If you are already using version 9.0.00 or later, do not reinstall that product.

For complete instructions about the installation and implementation of INCONTROL products, see the INCONTROL for z/OS Installation Guide: Installing. This guide is included in Adobe Portable Document Format (PDF) on the documentation CD, which is included as part of the product shipment.

Related documentation

To view the latest BMC documents, including documents in other languages, see the Customer Support website at http://www.bmc.com/support.

Notices, such as flashes, technical bulletins, and release notes, are available on the website.

You can subscribe to proactive alerts to receive e-mail messages when notices are issued or updated. For more information about proactive alerts, see the Customer Support website.

Customer support

If you have problems with or questions about a BMC product, see the Customer Support web site at http://www.bmc.com/support. You can view or download product documents, find answers to frequently asked questions, and download products and maintenance. If you do not have access to the web and you are in the United States or Canada, contact Customer Support at 800 537 1813. Outside the United States or Canada, contact your local BMC office or agent.

© Copyright 1999-2015 BMC Software, Inc.

BMC, BMC Software, and the BMC Software logo are the exclusive properties of BMC Software, Inc., are registered with the U.S. Patent and Trademark Office, and may be registered or pending registration in other countries. All other BMC trademarks, service marks, and logos may be registered or pending registration in the U.S. or in other countries. All other trademarks or registered trademarks are the property of their respective owners.

IT Infrastructure Library® is a registered trademark of the Office of Government Commerce and is used here by BMC Software, Inc., under license from and with the permission of OGC.

ITIL® is a registered trademark, and a registered community trademark of the Office of Government Commerce, and is registered in the U.S. Patent and Trademark Office, and is used here by BMC Software, Inc., under license from and with the permission of OGC.

IBM® Tivoli® Business Service Manager, IBM Tivoli Workload Scheduler, IBM Cognos, IBM InfoSphere DataStage, IBM iSeries, IBM Websphere, and AIX® are the trademarks or registered trademarks of International Business Machines Corporation in the United States, other countries, or both.

UNIX® is the registered trademark of The Open Group in the US and other countries.

Linux is the registered trademark of Linus Torvalds.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

SAP® R/2 and SAP R/3, SAP Business Objects, and SAP NetWeaver are trademarks or registered trademarks of SAP AG in Germany and in several other countries.

BMC Software considers information included in this documentation to be proprietary and confidential. Your use of this information is subject to the terms and conditions of the applicable End User License Agreement for the product and the proprietary and restricted rights notices included in this documentation.

Third party Software

For the provisions described in the BMC License Agreement and Order related to third party products or technologies included in the BMC Product, go to https://docs.bmc.com and click **Third-party software (TPS)**.

BMC SOFTWARE INC
2101 CITYWEST BLVD, HOUSTON TX 77042-2827, USA• 713 918 8800
Customer Support: 800 537 1813 (United States and Canada) or contact your local support center.

450661