



# Control-M Workload Automation 9.0.00 Release Notes



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## General information

BMC Software is releasing Control-M Workload Automation 9.0.00. These release notes provide information about the enhancements and resolved problems in this release. The information in this document supplements and supersedes information in the Control-M Workload Automation documentation.

Up-to-date, essential installation and service information that becomes available after this product is released will be placed under solution <https://kb.bmc.com/infocenter/index?page=content&id=KA427679> in the Knowledge Base on the Customer Support website, located at <http://www.bmc.com/support>. Before installation, BMC recommends that you check the website for any up-to-date information and also to determine whether recent patches are available for this product.

## What's new

BMC is proud to present Control-M Workload Automation Version 9.0.00, which includes substantial enhancements across all components of the Control-M solution. The following items highlight the major changes in V9:

### High Availability

Control-M high availability solution enables you to maximize your production environment uptime and prevent data loss in the event of hardware maintenance or failure.

In the case of hardware failure or if all Control-M processes are down unexpectedly, you can now perform either an automatic or manual failover for both Control-M/EM and Control-M/Server. After the problem is fixed, you can fallback to the primary host. This functionally applies to customers using an Oracle or MSSQL database for Control-M.

In the event of a hardware failure, when using Control-M/Server with PostgreSQL database, you can perform a manual failover to a secondary Control-M/Server, and later, when the problem is fixed, you can fallback to the primary Control-M/Server. In addition, this solution provides PostgreSQL database replication for Control-M/Server.

### Automated Agent Deployment

Upgrade one or many agents to V9 and future versions including fix packs in just a few simple steps. You can choose between transferring the package to agents for later deployment, or automatically transferring and deploying in a single step.

### Automated Client Deployment

The new Client Deployment utility replaces the WebLaunch tool in previous Control-M versions. Use the Client Deployment utility to easily distribute full client installation packages, fix packs and patches to users. You can set policies to force users to apply update packages by a specific date.

### Promotion between environments

Promotion between environments is a new capability of the Control-M Workload Change Manager that enables you to move job definitions between environments. For example, from a development environment to a production environment. During the promotion process, job definitions are modified and validated according the Site Standards of the target environment.

### Control-M configuration Manager (CCM) enhancements

The Control-M configuration Manager user interface has been updated to improve user experience. In addition, the following Control-M components are now managed via the tool: Control-M Database, Naming Server (NS), Configuration Management Server (CMS) as well as Control-M Workload Archiving.

## Usage alerts

Keep an eye on your task usage with Usage Alerts, available from within the CCM. Define task usage alert thresholds across all of your EMs. Exceeding a threshold will send an email alert.

## Security enhancements

Introducing the SSL certificate deployment capability that extends the packaging and deployment of SSL security certificates with the option to specify an external Certificate Authority.

Improved security algorithmSSL support for:

- AES suite ciphers (128 bit and 256 bit)
- SHA-2 hashing (on Enterprise Manager Client-Server communication)
- RSA keys with length 2048, 3072 and 4096
- Control-M Enterprise Manager password hashed using SHA-512

## NFS support for Control-M/Server and Control-M Agent installation

You can now install Control-M/Server and Control-M/Agents on NFS.

## IPv6 communication

IPv6 support, including support for mixed IPv4 and IPv6 environments, is now available for the following components:

- Control-M/Agent
- Control-M/Server
- Control-M Mainframe
- Control-M/Enterprise Management – Server, Clients

**Note:** Control-M Agentless is not supported at this configuration.

## 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 to define variables in groups called “named pools” or as Smart folder variables that are unique per folder execution, in addition to global and local variables.

## Runtime estimations

With Control-M Batch Impact Manager you can now see estimated runtimes of all the jobs in a regular viewpoint without them being defined as a part of a Batch Impact Manager service.

## Multi-days job flows monitoring

Improved monitoring and troubleshooting for the job flows that span on multiple days. You can now configure the active environment retention period for a SMART folder so the SMART folder itself and its jobs are kept in the active environment until the end of the period.

## Dynamic job ordering on a remote Control-M Server

Ability to order jobs on remote Control-M Servers by setting an action in a job to trigger another job on a different Control-M Server and also pass variables as a part of this order operation.

## 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 If Host simulation

New capability for Control-M Batch Impact Manager and Forecast to simulate the influence of the unavailability of a specific Control-M Agent or a group of Control-M Agents on your job flows, and prepare for planned shutdowns and maintenance windows.

## 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.

## Bookmarks

You can bookmark the jobs in a workspace or a viewpoint to analyze flows and easily locate your jobs. Bookmarks are supported in the Planning, Monitoring, Forecast, and History domains.

## Export flow diagram to a file

You can now export your flow diagram to a Microsoft Visio-compatible EMF format from any domain. Just click the "Save as" function in the application "File" menu.

## Enhanced search when loading jobs to a workspace

Now you can view more fine-tuned results when loading jobs into a workspace in the Planning domain by filtering folders and jobs with a larger variety of fields.

## Control-M enhancements

The following table lists the Control-M enhancements for version 9.0.00.

Tracking #	Enhancement
QM001785787	In-house <a href="#">Control-M High Availability solution</a>
QM001785788	In-house <a href="#">Control-M PostgreSQL Database replication solution</a>
QM001785790	Ability to put distributed Control-M Server in the inactive state to pause jobs submission, similar to Control-M z/OS quiesce mode
CAR00048634	Support of <a href="#">IPv6 network configuration</a> <b>Note:</b> Control-M remote hosts are not supported in this configuration.
QM001794229	Perform administrative operations, like setting configuration parameters, on multiple Control-M Agents at once
CAR00048638	Support of <a href="#">customer-provided Certificates Authority</a>
CAR00048635	Enhance <a href="#">Usage Alerts</a> feature providing proactive notifications based on task usage
QM001796788	Active environment retention definition enables the user to specify “forever” instead of 99 for the retention period field
QM001796791	<a href="#">Enhance monitoring and troubleshooting capabilities</a> by the ability to define that the removal of the jobs from the active environment will be done with their parent SMART folder, and not in New Day process
CAR00049008	Minimize Workload Automation client installation size on the hard disk by 400% by keeping documentation video and help files in the centralized location on the Control-M/Enterprise Manager Server
QM001800051	Validate if the host specified in the job, corresponds to an existing Control-M/Agent in the Control-M environment prior to checking in the job in order to prevent user mistakes
CAR00048637	<a href="#">NFS installation support</a> for Control-M Server and Control-M Agent

Tracking #	Enhancement
CAR00048633	<a href="#">Support for additional industry encryption standards</a> , including: <ul style="list-style-type: none"> <li>• Support of AES suite ciphers (128 bit and 256 bit)</li> <li>• Support of SHA-2 set functions hashing (on Enterprise Manager Client-Server communication)</li> <li>• RSA keys with length 2048, 3072 and 4096</li> </ul>
QM001878426	Control-M Workload Archiving can now be managed in Control-M Configuration Manager (CCM)
CAR00033187	Ability to store job variables in specific groups (“named pool”) so they can be easily accessed from other jobs for <a href="#">exchanging data between jobs</a>
WMPM007241	On / Do action allows <a href="#">setting a variable value which is extracted from the output of a job</a> , based on a user defined expression that refers to the location of a string in the output
CAR00040992	<a href="#">Manage CMEM rules via the Control-M Enterprise Manager interface</a>
QM0AAT86992	Ability to <a href="#">order jobs on remote Control-M Servers</a> by setting an on / do action in a job to trigger another job, and pass variables as a part of this order operation
QM001800135	Provide an additional visual indicator for Control-M z/OS jobs on the 'flow view' indicating that the job is in waiting status
CAR00048312	Ability to perform <a href="#">automated Control-M Agent deployment</a>
CAR00048312	Ability to perform <a href="#">automated Workload Automation Client deployment</a> . This functionality replaces the previous WebLaunch method for distributing clients.
QM001780569 QM001798581 QM001775394	Allow export of the job flow diagram to a file in a <a href="#">format readable by Microsoft Visio</a>
QM001775396	Ability to create a single calendar that is distributed to all Control-M/Servers in order to <a href="#">minimize Calendars maintenance overhead</a>
QM001824536	Simulate situations in which a Host / Host Group is not available in order to <a href="#">prepare for maintenance windows and shutdowns</a>
QM001824537	Provide the ability to <a href="#">navigate effectively between jobs in large viewpoints/workspaces</a> by setting bookmarks on the jobs of interest



Tracking #	Enhancement
QM001824545	Show start/end run time and <a href="#">Control-M Batch Impact Manager estimated start/end time</a> of the jobs in the Monitoring environment
QM001824554	Enable <a href="#">easy finding of jobs from the Planning domain home page</a> based on a wider range of Job Properties without first loading jobs into a Workspace
QM001824555	Provide a command line interface for EM API functionality to ease automation efforts and make it more accessible to users who don't possess programming knowledge that EM API requires
QM001824556	Enable users working with multiple EM instances, a clear designation in the application title to which environment is connected
CAR00049939	Enhancements to the CheckReq process, including a new user interface
CAR00050302	Control-M Configuration Manager loaded without requiring an authentication when it is opened via the Workload Automation client
QM001881998	Ability to either install all of the <a href="#">Application plugins</a> (as part of the full Control-M installation) or selectively install only the Application plugins you wish to work with.

# Control-M 9.0.00 Compatibility

The following lists the operating systems and other pre-installation requirements for Control-M/EM, Control-M/Server, and Control-M/Agent:

- [Control-M/EM Compatibility](#) (on page 10)
- [Control-M/Server compatibility](#) (on page 17)
- [Control-M/Agent compatibility](#) (on page 21)
- [Online help compatibility](#) (on page 25)

## Control-M/EM Compatibility

Control-M/EM can be installed on Windows and UNIX computers and works together with other products in the Control-M scheduling solution (for example, Control-M/Server and Control-M/Agent).

The following lists the operating systems and other pre-installation requirements for Control-M/EM:

- [Control-M/EM server compatibility with Windows](#) (on page 11)
- [Control-M/EM server compatibility with UNIX/Linux](#) (on page 12)
- [Control-M/EM client compatibility with Windows](#) (on page 13)
- [Control-M/EM compatibility with Control-M components](#) (on page 14)
- [Control-M/EM compatibility with third party software](#) (on page 16)
- [Control-M/EM integration with BMC products](#) (on page 17)
- [Control-M/EM language compatibility](#) (on page 17)

## Control-M/EM server compatibility with Windows

The following table lists the Windows operating systems that are compatible with Control-M/EM server.

Operating System	Bits	Compatible Processors	Database servers and clients
Windows Server 2008 Standard Edition	64	x86_64	<ul style="list-style-type: none"> <li>▪ Microsoft SQL Server 2008 (for Server only), 2012, 2014</li> <li>▪ A BMC-supplied PostgreSQL 9.2.4 server and client.</li> </ul>
Windows Server 2008 Enterprise Edition			
Windows Server 2008 R2 Standard Edition	64	x86_64	
Windows Server 2008 R2 Enterprise Edition			
Windows Server 2012 Standard Edition			
Windows Server 2012 R2 Standard Edition			

## Control-M/EM server compatibility with UNIX/Linux

The following table lists the UNIX/Linux operating systems that are compatible with Control-M/EM server.

Operating System	Version	Bits	Compatible Processors	Database server and clients
AIX®	<ul style="list-style-type: none"> <li>▪ 7.1</li> <li>▪ 6.1</li> </ul>	64	Power	<ul style="list-style-type: none"> <li>▪ An Oracle 11 and 12C database server</li> <li>▪ A BMC-supplied PostgreSQL 9.2.8 server and client.</li> </ul>
Oracle Solaris	<ul style="list-style-type: none"> <li>▪ 11</li> <li>▪ 10 (Update 7)</li> </ul>		SPARC	
Oracle Enterprise Linux Server	<ul style="list-style-type: none"> <li>▪ 6</li> <li>▪ 5</li> </ul>	64	x86_64	
Red Hat Enterprise Linux Server	<ul style="list-style-type: none"> <li>▪ 7</li> <li>▪ 6</li> <li>▪ 5</li> </ul>			
SUSE Linux Enterprise Server	<ul style="list-style-type: none"> <li>▪ 11</li> <li>▪ 12</li> </ul>			

## Control-M/EM client compatibility with Windows

The following table lists the Windows operating systems that are compatible with Control-M/EM client.

Operating System	Bits	Compatible Processors
Windows 7 Enterprise Edition	<ul style="list-style-type: none"> <li>▪ 32</li> <li>▪ 64</li> </ul>	<ul style="list-style-type: none"> <li>▪ x86</li> <li>▪ x86_64</li> </ul>
Windows 7 Business Edition		
Windows 7 Professional Edition		
Windows 7 Ultimate Edition		
Windows 8 Enterprise Edition		
Windows 8 Professional Edition		
Windows 8.1 Enterprise Edition		
Windows 8.1 Professional Edition		
Windows Server 2008 Standard Edition	<ul style="list-style-type: none"> <li>▪ 64</li> </ul>	<ul style="list-style-type: none"> <li>▪ X86_64</li> </ul>
Windows Server 2008 Enterprise Edition		
Windows Server 2008 R2 Standard Edition		
Windows Server 2008 R2 Enterprise Edition		
Windows Server 2012 Standard Edition		
Windows Server 2012 R2 Standard Edition		

## Control-M/EM compatibility with Control-M components

The following table lists the Control-M components that are compatible with Control-M/EM.

Control-M	Version
Control-M/Server	<ul style="list-style-type: none"> <li>▪ 9.0.00</li> <li>▪ 8.0.00</li> <li>▪ 7.0.00</li> </ul>
Control-M/Agent	See <a href="#">Control-M/Server compatibility with Control-M components</a> (on page 20)
BMC Batch Impact Manager	<ul style="list-style-type: none"> <li>▪ 9.0.00</li> </ul>
Control-M/Forecast	<ul style="list-style-type: none"> <li>▪ 9.0.00</li> </ul>
Control-M Self Service	<ul style="list-style-type: none"> <li>▪ 9.0.00</li> </ul>
Control-M for z/OS	<ul style="list-style-type: none"> <li>▪ 9.0.xx</li> <li>▪ 8.0.xx</li> <li>▪ 7.0.xx</li> </ul>
Control-M Workload Archiving	<ul style="list-style-type: none"> <li>▪ 9.0.00</li> </ul>
Control-M Workload Change Manager	<ul style="list-style-type: none"> <li>▪ 9.0.00</li> </ul>

## Control-M Application Plugins compatability

Control-M/EM version 9.0.00 is compatible with all supported versions of Application Plug-ins and options for application-specific products that were available before this release.

Control-M Application Plug-ins enable Control-M/Agents to interface with external applications (for example, SAP and Oracle applications), bringing Control-M functionality to an external application environment.

The following Control-M Application Plug-ins are automatically installed in a non-trial version (see the Control-M Installation Guide), with the Control-M full installation option:

- Control-M for PeopleSoft 8.0.00
- Control-M for Databases 7.0.00
- Control-M for SAP 8.0.00
- Control-M for SAP Business Objects 7.0.00
- Control-M for Informatica 8.0.00
- Control-M for Oracle E-Business Suite 9.0.00

The following Control-M Application Plug-ins are automatically installed in a trial version in addition to the application plug-ins from the non-trial version (see the Control-M Installation Guide), with the Control-M full installation option:

- Control-M for Advanced File Transfer 7.0.00
- Control-M for Oracle Business Intelligence 7.0.00
- Control-M for IBM Cognos 7.0.00
- Control-M for Cloud 7.0.00
- Control-M for Backup 8.0.00
- Control-M for IBM InfoSphere DataStage 8.0.00
- Control-M for Web Services, Java, and Messaging 8.0.00
- Control-M for Hadoop 8.0.00 (relevant only for Linux platforms)
- Control-M for Oracle Retail 8.0.00 (relevant only for Linux platforms)

## Control-M/EM compatibility with third-party software

The following table lists third-party software that is compatible with Control-M/EM.

Third party software	Version
Internet Explorer	<ul style="list-style-type: none"> <li>▪ 11</li> <li>▪ 10</li> <li>▪ 9</li> </ul>
Mozilla Firefox	24 and higher
Google Chrome	26 and higher
Apple Safari	5.0 and higher
Web server	Any web server that supports Java Servlet API 1.2.
Android Mobile Devices	Android 2.3.3 and higher
.NET Framework (Full Profile)	4.5.2
Microsoft Silverlight	4.0.50826.0 and higher

Third-party notices, terms, and conditions pertaining to third-party software can be found in the "ThirdParty" subdirectory of the Control-M installation.



## Control-M/EM integration with BMC products

The following table lists BMC products that can integrate with Control-M/EM.

BMC product	Version
BMC Remedy	<ul style="list-style-type: none"> <li>▪ 8.0</li> <li>▪ 7</li> </ul>
BMC Service Impact Manager	<ul style="list-style-type: none"> <li>▪ 7.3</li> <li>▪ 7.1</li> </ul>
BMC Atrium CMDB	<ul style="list-style-type: none"> <li>▪ 7.6.04</li> </ul>

## Control-M/EM language compatibility

The following table lists the languages that are compatible with Control-M/EM.

Language	Level of support
East Asian (CJK)	<p>The following languages are now supported:</p> <ul style="list-style-type: none"> <li>▪ Traditional Chinese</li> <li>▪ Simplified Chinese</li> <li>▪ Japanese</li> <li>▪ Korean</li> </ul>
Western European (Latin-1 character set)	<p>Special Western European characters used in English, Spanish, German, and French can be specified in most free-text fields and parameters.</p>
Basic ASCII	US English

## Control-M/Server compatibility

Control-M/Server can be installed on Windows and/or UNIX computers and works together with other products in the Control-M scheduling solution (for example, Control-M/EM and Control-M/Agent).

The following lists the operating systems and other pre-installation requirements for Control-M/Server:

- [Control-M/Server compatibility with Windows](#) (on page 18)
- [Control-M/Server compatibility with UNIX/Linux](#) (on page 19)
- [Control-M/Server compatibility with Control-M components](#) (on page 20)

- [Control-M/Server integration with BMC products](#) (on page 20)
- [Control-M/Server language compatibility](#) (on page 21)

## Control-M/Server compatibility with Windows

The following table lists the supported Microsoft Windows operating systems and databases for Control-M/Server.

Operating System	Bits	Compatible Processors	Database servers and clients
Windows Server 2008 Standard Edition	64	x86_64	<ul style="list-style-type: none"> <li>▪ Microsoft SQL Server 2008 (for Server only), 2012, 2014</li> <li>▪ A BMC-supplied PostgreSQL 9.2.8 server and client.</li> </ul>
Windows Server 2008 Enterprise Edition			
Windows Server 2008 R2 Standard Edition	64	x86_64	<ul style="list-style-type: none"> <li>▪ Microsoft SQL Server 2008 (for Server only), 2012, 2014</li> <li>▪ A BMC-supplied PostgreSQL 9.2.8 server and client.</li> </ul>
Windows Server 2008 R2 Enterprise Edition			
Windows Server 2012 Standard Edition			
Windows Server 2012 R2 Standard Edition			

## Control-M/Server compatibility with UNIX/Linux

The following table lists the supported UNIX/Linux operating systems and databases for Control-M/Server.

Operating System	Version	Bits	Compatible Processors	Database server and clients
AIX®	<ul style="list-style-type: none"> <li>▪ 7.1</li> <li>▪ 6.1</li> </ul>	64	Power	<ul style="list-style-type: none"> <li>▪ An Oracle 11 and 12C database server</li> <li>▪ A BMC-supplied PostgreSQL 9.2.8 server and client.</li> </ul>
Oracle Solaris	<ul style="list-style-type: none"> <li>▪ 11</li> <li>▪ 10 (Update 7)</li> </ul>		SPARC	
Oracle Enterprise Linux Server	<ul style="list-style-type: none"> <li>▪ 6</li> <li>▪ 5</li> </ul>	64	x86_64	
Red Hat Enterprise Linux Server	<ul style="list-style-type: none"> <li>▪ 7</li> <li>▪ 6</li> <li>▪ 5</li> </ul>			
SUSE Linux Enterprise Server	<ul style="list-style-type: none"> <li>▪ 11</li> </ul>			

## Control-M/Server compatibility with Control-M components

The following table lists the versions of Control-M/EM and Control-M/Agents that are compatible with Control-M/Server.

Component	Version
Control-M/Enterprise Manager	<ul style="list-style-type: none"> <li>▪ 9.0.00</li> </ul>
Control-M/Agent for UNIX and Microsoft Windows	<ul style="list-style-type: none"> <li>▪ 9.0.00</li> <li>▪ 8.0.00</li> <li>▪ 7.0.00</li> </ul>
Control-M/Agent for iSeries (AS/400)	<ul style="list-style-type: none"> <li>▪ 7.0.00</li> <li>▪ 6.3.02</li> <li>▪ 6.3.01</li> </ul>
Control-M/Agent for MAPPER System for 2200	<ul style="list-style-type: none"> <li>▪ 6.4.01</li> </ul>
Control-M/Agent for OpenVMS Alpha, Itanium, and VAX	2.25.01 with the following fix packs: <ul style="list-style-type: none"> <li>▪ PANDB.2.25.01.100 for Alpha</li> <li>▪ PACOV.2.25.01.100 for Itanium</li> </ul>
Control-M/Agent for Tandem Guardian	<ul style="list-style-type: none"> <li>▪ 6.3.02</li> <li>▪ 6.3.01</li> </ul>
Control-M/Agent for UNISYS 2200	<ul style="list-style-type: none"> <li>▪ 6.4.01</li> </ul>

## Control-M/Server integration with BMC products

The following table lists third party software that is compatible with Control-M/Server.

BMC product	Version
BMC Remedy	<ul style="list-style-type: none"> <li>▪ 7</li> <li>▪ 8.0</li> </ul>

## Control-M/Server language compatibility

The following table lists the languages that are compatible with Control-M/Server.

Language	Level of support
East Asian (CJK)	The following languages are now supported: <ul style="list-style-type: none"> <li>▪ Traditional Chinese</li> <li>▪ Simplified Chinese</li> <li>▪ Japanese</li> <li>▪ Korean</li> </ul>
Western European (Latin-1 character set)	Special Western European characters used in English, Spanish, German, and French can be specified in most free-text fields and parameters.
Basic ASCII	US English

## Control-M/Agent compatibility

Control-M/Agent can be installed on Windows and/or UNIX computers and works together with other products in the Control-M scheduling solution (for example, Control-M/EM and Control-M/Server).

The following lists the operating systems and other pre-installation requirements for Control-M/Agent:

- [Control-M/Agent compatibility with Windows](#) (on page 22)
- [Control-M/Agent compatibility with UNIX](#) (on page 23)
- [Control-M/Agent compatibility with Control-M components](#) (on page 24)
- [Control-M/Agent language compatibility](#) (on page 25)

## Control-M/Agent compatibility with Windows

The following table lists the supported Windows operating systems for Control-M/Agent.

Operating System	Bits	Compatible Processors
Windows 7 Enterprise Edition	32	X86
Windows 7 Professional Edition		
Windows 7 Ultimate Edition		
Windows 8		
Windows 8 Enterprise Edition		
Windows 8 Professional Edition		
Windows Server 2008 Standard Edition		
Windows Server 2008 Enterprise Edition		
Windows 7 Enterprise x64 Edition	64	X86_64
Windows 7 Professional x64 Edition		
Windows 7 Ultimate x64 Edition		
Windows 8		
Windows 8 Enterprise Edition		
Windows 8 Professional Edition		
Windows Server 2008 R2 Standard Edition	64	X86_64
Windows Server 2008 R2 Enterprise Edition		
Windows Server 2012		
Windows Server 2012 R2		

## Control-M/Agent compatibility with UNIX

The following table lists the supported UNIX operating systems for Control-M/Agent.

Operating system	Version	Bits	Compatible processors
AIX®	▪ 6.1	▪ 32	Power
	▪ 7.1	▪ 64	
	▪ 6.1		
HP-UX	▪ 11.31	▪ 32 ▪ 64	RISC
	▪ 11.31	▪ 64	Itanium
Red Hat Enterprise Linux Server	▪ 6 ▪ 5	▪ 32	X86
	▪ 6 ▪ 5	▪ 64	X86_64, zSeries
	▪ 7	▪ 64	X86_64

Operating system	Version	Bits	Compatible processors
Oracle Solaris	▪ 10	▪ 32	X86, SPARC
	▪ 11	▪ 64	X86_64, SPARC
	▪ 10		
SUSE Linux Enterprise Server	▪ 11	▪ 32	X86
	▪ 10		
	▪ 11	▪ 64	X86_64, zSeries
	▪ 10		
Oracle Enterprise Linux Server	▪ 12	▪ 64	X86_64
	▪ 6	▪ 32	X86
	▪ 5	▪ 64	X86_64
CentOS	▪ 7	▪ 64	X86_64
	▪ 6		

## Control-M/Agent compatibility with Control-M components

The following table lists the versions of Control-M/EM and Control-M/Server that are compatible with Control-M/Agent.

Component	Version
Control-M/Enterprise Manager	9.0.00
Control-M/Server for UNIX and Microsoft Windows	9.0.00



## Control-M/Agent language compatibility

The following table lists the languages that are compatible with Control-M/Agent.

Language	Level of support
East Asian (CJK)	The following languages are now supported: <ul style="list-style-type: none"> <li>▪ Traditional Chinese</li> <li>▪ Simplified Chinese</li> <li>▪ Japanese</li> <li>▪ Korean</li> </ul>
Western European (Latin-1 character set)	Special Western European characters used in English, Spanish, German, and French can be specified in most free-text fields and parameters.
Basic ASCII	US English

## Online help compatibility

The following table lists the supported browsers for the Online help:

Third party software	Version
Internet Explorer	<ul style="list-style-type: none"> <li>▪ 11</li> <li>▪ 10</li> <li>▪ 9</li> </ul>
Mozilla Firefox	<ul style="list-style-type: none"> <li>▪ 35.0</li> <li>▪ 34.0.5</li> </ul>
Chrome	<ul style="list-style-type: none"> <li>▪ 21.0.1180.75</li> </ul>

# Product Distribution

The following procedures describe how to obtain the installation files for Control-M Workload Automation 9.0.00 using EPD, FTP, or the BMC Sales Representative:

- [Obtaining installation files through EPD](#) (on page 26)
- [Obtaining installation files through the BMC sales representative](#) (on page 27)

## Obtaining installation files through EPD

This procedure describes how to obtain the Control-M Workload Automation 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. Download the installation files, as follows:

- UNIX:

- a. Download and save the file into a temporary directory :

```
<INST_TEMP_DIR>
```

If you downloaded it to your PC machine, transfer it to a UNIX machine using binary ftp mode to an intermediate location:

```
<UNIX_TAR_Z_LOCATION>
```

- b. CD into:

```
<INST_TEMP_DIR>
```

- c. Extract compressed tar using command:

```
uncompress -c <UNIX_TAR_Z_LOCATION>/<InstallationFileName.tar.Z> | tar xf -
```

For example : `uncompress -c /tmp/DROST.9.0.00_Linux-x86_64.tar | tar xf -`

If you do not have an uncompress command, use zcat instead of uncompress -c:

```
zcat <UNIX_TAR_Z_LOCATION>/<InstallationFileName.tar.Z> | tar xf -
```

- Windows: Do one of the following:
  - Download and save the .iso file to a temporary directory, and then burn it onto a DVD.
  - Download and save the relevant .zip file to a temporary directory.

## Obtaining installation files through the BMC sales representative

This procedure describes how to obtain the Control-M Workload Automation 9.0.00 installation files through the BMC sales representative.

➤ **To obtain installation files through the BMC Sales representative:**

To obtain a product DVD, contact your BMC Sales Representative.

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

The DVD for this version is associated with tracking number DRNFT.9.0.00. Refer to this number when ordering or requesting maintenance for this product.

# Support for Control-M 9.0.00

These topics provide information about:

- [Levels of support](#) (on page 28)
- [Related documentation](#) (on page 28)

## Levels of support

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>.

## Related documentation

To view the latest BMC documents, including documents in other languages, see the Documentation portal at <https://docs.bmc.com>.

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.

The following provide more information about Control-M:

- Administration
- Getting Started
- Installation
- Language and customization
- Messages
- Parameters
- Archiving setup
- Reporting Facility
- Control-M Self Service
- SSL Management
- Control-M Workload Change Manager
- Upgrade
- Using Control-M Workload Automation
- Utilities

# Appendix: Corrected problems & Known Issues

## Control-M/EM corrected problems

The following table describes the problems that were reported in earlier releases of Control-M/EM and have been corrected. The list of corrected problems is also available under solution <https://kb.bmc.com/infocenter/index?page=content&id=KA427680> in the Knowledge Base.

Tracking #	Description
CAR00050978	While viewing German/French languages via Viewpoint manage, "All Jobs" view point is not read only.
CAR00050653	When group authorization "Run As Users" tab or "Folders" tab contains more than 16 lines, one of the lines above 16 may split into 2 different lines
CAR00049291	Average Start Time of Cyclic jobs, is not correct
CAR00050024	The Applications are not sorted in alphabetical order in workspace tree view when we open a Folder.
CAR00050906	Changing value in the "Conditions Relationship" combo box affects all jobs when changing single job value via the popup properties window, In Planning and in Monitoring domains
CAR00050733	Cannot resolve %%JOB_ID%% value as parameter to External Program in Monitoring Domain
CAR00051180	Filter fields lose focus in WA GUI - Alerts window while user typing values in the filter field
CAR00050822	When cluster installation EM configuration agent is offline and the running processes move to another node, ctls to CMS are sent to the wrong node causing LDAP configuration problems

## Control-M Self Service corrected problems

The following table describes the problems that were reported in earlier releases of Control-M Self Service and have been corrected. The list of corrected problems is also available under solution <https://kb.bmc.com/infocenter/index?page=content&id=KA427681> in the Knowledge Base.

Tracking #	Description
CAR00048938	In Control-M Self Service the 'Script' tab is enabled for 'Command' jobs

## Control-M Workload Change Manager corrected problems

The following table describes the problems that were reported in earlier releases of Control-M Workload Change Manager and have been corrected. The list of corrected problems is also available under solution <https://kb.bmc.com/infocenter/index?page=content&id=KA427681> in the Knowledge Base.

Tracking #	Description
CAR00050716	Remove the limitation on the size of the folder note

## Control-M Workload Archiving corrected problems

The following table describes the problems that were reported in earlier releases of Control-M Workload Archiving and have been corrected. The list of corrected problems is also available under solution <https://kb.bmc.com/infocenter/index?page=content&id=KA427682> in the Knowledge Base.

Tracking #	Description
CAR00050745	Add an option to open Workload Archiving in Self Service (not via job)

## BMC Batch Impact Manager (BIM) corrected problems

The following table describes the problems that were reported in earlier releases of BMC Batch Impact Manager and have been corrected. The list of corrected problems is also available under solution <https://kb.bmc.com/infocenter/index?page=content&id=KA427683> in the Knowledge Base.

Tracking #	Description
CAR00051057	BIM and Forecast ignore the '+ days' in From/Until Time for z/OS jobs, as a result the time estimation is wrong.
CAR00050810	BIM might experience high CPU consumption when a cyclic job has illegal value in its specific times
CAR00051153	BIM might crash upon receiving job with an ODATE with less than 6 characters
CAR00050435	A user is able to perform a "Drill down" to a BIM service although the system is marked that BIM services authorization will be based service name authorization.

## Control-M/ Forecast corrected problems

The following table describes the problems that were reported in earlier releases of Control-M/Forecast and have been corrected. The list of corrected problems is also available under solution <https://kb.bmc.com/infocenter/index?page=content&id=KA427684> in the Knowledge Base.

Tracking #	Description
CAR00049998	Control-M/Forecast does not predict the first run of a cyclic job with specific run times

## Control-M/Server corrected problems

The following table describes the problems that were reported in earlier releases of Control-M/Server and have been corrected. The list of corrected problems is also available under solution <https://kb.bmc.com/infocenter/index?page=content&id=KA427685> in the Knowledge Base.

Tracking #	Description
CAR00051046	No Jobs are submitted when a global variable has a null value. CE log error message: "Error occurred during SL Job test17 (943/000q7)", [SEVERE], T@101, T:ctm.Selector.IO.101, "SL Job test17 (943/000q7)", com.bmc.ctms.selector.entity.WaitingEntity, ContextLogger::run, "java.lang.NullPointerException at com.bmc.ctms.common.active.CalculateAutoedits.calcGlobalAutoedits(CalculateAutoedits.java:1051

## Control-M/Agent corrected problems

The following table describes the problems that were reported in earlier releases of Control-M/Agent and have been corrected. The list of corrected problems is also available under solution <https://kb.bmc.com/infocenter/index?page=content&id=KA427686> in the Knowledge Base.

Tracking #	Description
N/A	(Linux Only) su.bmc binary is removed from Control-M/Agent package. Upgraded agents that have parameter CTM_SU_PATH set at OS.dat are advised to remove it.

## Known issues

The following table describes issues that remain open in this release:

Tracking #	Description
CAR00052091	Defining Control-M for Databases Application plug-in jobs in WLA clients may result in exceptions while using the load CM data. For more details on how to overcome this issue, please refer to KA427668.
CAR00052100	The Automated Client Deployment feature is not supported on HTTPS web server configurations. A patch addressing this issue is planned for release shortly.



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