



# Control-M/Enterprise Manager 9.0.00.200 Release Notes



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# Introduction to the Control-M/Enterprise Manager Release Notes

BMC Software is releasing version 9.0.00 fix pack 2 of Control-M/Enterprise Manager (Control-M/EM). 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 manuals.

Up-to-date, essential installation and service information that becomes available after this product is released is available here [000106005](#).

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

### Control-M Automation API

*Automation API* is a new set of tools, bundled into the Enterprise Manager. It focuses on leveraging the value of Control-M for developers and DevOps Engineers. It covers a wide range of capabilities:

- **A set of REST based APIs & CLIs** that expose a rich set of functions
- **Simple job construction during early phases of development** which enable developers to develop complex integrations with simple workflows without requiring extensive scripting
- **Automated configuration and provisioning of Control-M Agents** for self-service creation of fully functional testing environments

With the *Automation API* you can now:

- **Run and test workflows locally** without the need for complex infrastructure or tooling. The first release focuses on Hadoop jobs.
- **Utilize existing DevOps ecosystem tools** to manage workflow artifacts just like source code or configuration files
- **Let the developers define workflows in JSON**, meaning developers don't have to learn/re-learn complexities of workflow frameworks

For further information for the end user, please go to the [Getting Started](#) guide.

For further information on the EM/Server side component of the Automation API, please go to the **Admin** guide, section "Control-M Automation API configuration".

### Control-M Workload Change Manager integration with Remedy and other external Change Management systems

Control-M Workload Change Manager now supports open integration with Change Management systems, available via REST APIs.

Upon submitting, returning or approving a Workload Change Manager Request, Control-M can be configured to invoke REST APIs to access an external Change Management system for opening a new ticket or to query an existing ticket status, according to customer-defined logic. As a part of the integration, Control-M will be able to capture Change Management system response and persist the returned information (i.e. change ID) in the Workload Change Manager Request.

In addition, out-of-the-box integration with BMC Remedy (Version 9) is provided. The integration will allow a creation of a new ticket in Remedy upon submitting a request through Control-M Workload Change Manager as well as query certain ticket status in Remedy upon approving a request.

## Control-M Workload Archiving new capabilities

Control-M V9 Workload Archiving now supports Oracle database in addition to existing PostgreSQL support.

This new version of Workload Archiving introduces a number of new capabilities, such as the ability to search by Application fields, improved archiving policies, enhanced auditing, and more.

## Control-M/EM 9.0.00 fix pack 2

The following topics describe enhancements and corrected problems for Control-M/EM 9.0.00 fix pack 2:

- [Control-M/EM fix pack 2 enhancements](#) (on page 7)
- [Control-M/EM security fix pack 2 enhancements](#) (on page 8)
- [Control-M/EM fix pack 2 corrected problems](#) (on page 8)

## Control-M/EM fix pack 2 enhancements

The following table describes the enhancements of Control-M/EM 9.0.00 fix pack 2:

Tracking #	Description
QM001890281	Support Batch Impact Manager integration with BMC Remedy version 9.
WECS006900	Display the last successful login to the user in the login window.
CAR00047763	Support CJK character encoding in Control-M/EM API. To use CJK characters when defining an active job description running on Control-M z/OS, using Control-M/EM API, you must deploy and install: <ul style="list-style-type: none"> <li>▪ APAR BW10264 for Control-M z/OS V9</li> <li>▪ APAR BW10256 for Control-M z/OS V8</li> </ul>
CAR00052703	Usage Reporting tool now supports Oracle RAC
QM001852977	Add "Node Adjustment" (Middle, Right, and Left) option to map view configuration.
QM001790140	New grid mode in monitoring order dialog with sorting and filtering capabilities.
QM001795540	Workload Automation client will automatically close the open viewpoints in monitoring and history domains once client is idle for a period configured in the idle timeout parameter.
QM001876238	Add ability to disable Prerequisite Condition uniqueness mechanism when creating new conditions.
QM001876237	Allow users to set diagnostic level according to a scenario of the problem and not per component.

Tracking #	Description
QM001865244	Add the ability to load and save presets to Forecast filters.
QM001880412	Enable the customer to block the creation of local users in the Control-M Configuration Manager, so that only LDAP users will be able to enter the system.

## Control-M/EM security fix pack 2 enhancements

The following table describes the security enhancements of Control-M/EM 9.0.00 fix pack 2:

Tracking #	Description
QM001857485	Support RSA Secure ID authentication for the EM login and by that allow two factor authentication of EM users.
QM001857273	In the "Monitoring and Administration Tools" you can now specify access level to Application Integrator functionality.

## Control-M/EM fix pack 2 corrected problems

The following table describes the problems that were reported in earlier releases of Control-M/EM and have been corrected.

Tracking #	Description	Client installation required
CAR00058976	Control-M Application Integrator – Fail to undeploy a job type from the AI Web Designer	No
CAR00066922	EM/Gateway update thread may deadlock when it fails to update SETVAR as part of job update	No
CAR00050603	Period days are not saved in Planning Domain "Advanced Scheduling" when the period selected as "P"	Yes
CAR00079017	Global conditions may be mistakenly deleted after Control-M/EM and Control-M/Server are upgraded to version 9.0.00	No
CAR00056468	Control-M Web Server may not start successfully when using the "start_all" script on unix platforms.	No



Tracking #	Description	Client installation required
CAR00061293	The check_server script is not using "dummy" user connection to database anymore, preventing possible breaches.	No
CAR00052466	EM/Gateway correctly handles now folders/calendars pending for local delete.	No
CAR00051773	EM can redeploy now AI job types accurately, as it updates/refreshes application fields of already loaded active jobs.	No
CAR00062696	Job updates occurred while CTM and EM were disconnected are being now reflected in EM when communication resumes.	No
CAR00061688	GCS is working now as expected after changing the system parameter GCSCommUserId.	No
CAR00052236	Uninstalling Control-M Archiving version 8.0.00 with Postgres will not cause deletion of necessary files in case of cancellation of the uninstall process.	No
CAR00056457	When running about 40,000 jobs, the values in the Workload Policy Monitoring window ( WA ) do not reflect the correct jobs status values as are reflected in the Monitoring - Right Pane window.	No
CAR00052313	GTW no longer blocks "redundant" global conditions distributions, in rare situations, this might cause double distribution of conditions.	No
CAR00051473	The CTL utility is able now to locate Control-M/EM components while using the -M flag when these components are defined having a logical name.	No
CAR00050195	Checking in a workspace that includes many jobs that were changed, when working with detailed definition audit, will not take a long time anymore.	No
CAR00048274	Control-M/EM provides now customization of the name (DN) of the internal LDAP connection test user at server start-up.	No
CAR00052552	Control-M/EM database Check Space option in Configuration Manager (CCM) with Oracle does not return with login failure anymore.	No

Tracking #	Description	Client installation required
CAR00050594	When the connected LDAP server becomes inaccessible while the LDAP domain is defined having several valid LDAP servers, the CMS/GSR components now successfully switch to the next available LADP server without the need to recycle the component.	No
CAR00051112	The Gateway will not request the folders/calendars list every 30 minutes while sync mode is defined as: "No Synchronization"	No
CAR00051261	Update existing SMART folder using deffolder will not cause duplicate SMART folder entity, in case JOBISN attribute of the folder data in the input XML has a value greater than 1.	No
CAR00048848	When Control-M/zOS version 7.0.00 (or below) is connected to Control-M/Enterprise Manager version 9.0.00, the following error message will not be displayed every hour: "VERIFICATION FAILED. USER PROFILE NOT FOUND "	No
CAR00051352	Job failures in smart tables will be displayed in "Problematic Jobs" view.	No
CAR00051668	The "NamingViewer" utility does not fail to run on Windows environments anymore.	No
CAR00052000	Control-M/EM CCM Authorization management is now able to use EM Authorizations from CCM of previous versions fix pack after FP7 is installed as long as Workload Change Manager is not active.	No
CAR00052243	The Gateway does not attempt now to connect Control-M Server when its version in COMM table is wrong.	No
CAR00052235	No memory leak occurs in GSR/CMS server components when parsing some XML data.	No
CAR00052295	The Gateway will not crash when global prefixes are updated and db updates related to conditions arrive from Control-M server.	No
CAR00052374	Control-M/EM configuration Agent log does not include wrongly repeated messages "file: /home...../ctm_em//ini/urls.xml could not be read!" when CCM calls 'Get_WebServer_urls_request'.	No
CAR00051080	The Gateway does not hang or fail to reconnect anymore, after New Day on Windows with Postgresql 9.x.	No

Tracking #	Description	Client installation required
CAR00051121	No unnecessary folder \$HOME/oradiag_<username> created for Control-M/EM 9.0.00 with Oracle, anymore.	No
CAR00051113	Incorrect error message is not displayed anymore in GUI Server diag file: CRB_IsJobActionAllowedEnhanced ...Not authorized client kicked off.	No
CAR00050774	ManageSSL - when generating certificates for a web application - tomcat.keystore password is correctly set to the password supplied by the user.	No
CAR00049314	Planning - Check-In fails when deleting existing folder on WS and creating a new one with the same name.	No
CAR00064604	ReportCli is not working with oracle DB.	No
CAR00061587	When a viewpoint is updated, the viewport jumps to the last selected job in Map view in monitoring domain.	Yes
CAR00061086	The minimum number of jobs to get alerts is 1000 in the Usage alert in CCM.  Now the user can define any number greater than 1 jobs.	Yes
CAR00052635	Order date column is missing in the Service Monitor.	Yes
CAR00052488	The order of columns in list view is not saved correctly when reordering the columns in History Domain.	Yes
CAR00057768	The selected row is wrong when selecting one job after selection of multiple jobs using 'Shift' in the List View in Monitoring Domain.	Yes
CAR00056469	Un-selecting rows in List view is not working correctly after selecting multiple rows using 'Shift' in Monitoring Domain.	Yes
CAR00052225	Un-needed jobs are selected when performing rang selection (Shift-Mouse click) on a job when tree is collapsed in list view, monitoring domain.	Yes
CAR00052505	In Alert View - Total Numbers are not updated after filtering the grid.	Yes

Tracking #	Description	Client installation required
CAR00052501	The "Hold" and "Free" buttons are disabled in ribbon after using "find" and select all jobs in the search result pane in the Monitoring Domain.	Yes
CAR00053229	Job types that are deployed through the Application Integrator designer do not appear in the job pallet in the Planning Domain of the Control-M Workload Automation client and in the CCM components list, when the Control-M Web Server is configured to work with SSL (HTTPS).	Yes
CAR00051579	WA - EM Color identification - Tooltip should be mid centered.	Yes
CAR00051203	File watcher form - Validation error message is displayed when trying to use the character "." in File Watcher fields.	Yes
CAR00052742	An exception of type 'System.NullReferenceException' occurred in Global Condition manager in Tools Domain.	Yes
CAR00052741	The focus on the selected job is lost upon clicking any check-box at the "Show in Hierarchy" in flow diagram in Forecast Domain.	Yes
CAR00059478	Monitoring & History & Forecast - "Expand All" move the focus from Job.	Yes
CAR00051859	The bookmarks list is not refreshed when moving a bookmarked job from one container to another in the planning domain.	Yes
CAR00051900	Do Remote Order is displayed in the "Compare With Predecessors" window even when no changes were made to it. This is done in the planning domain.	Yes
CAR00047989	History Domain - missing scroll bar in 'All days list'.	Yes
CAR00047008	The "Due Finish Time" field should be formatted to be more readable in Reporting Facility "BIM SLA" report.	Yes
CAR00051842	The "Last Update" Time displays incorrect time in Service Monitor.	Yes
CAR00047804	BIM SLA Analysis report time fields do not display time zone data and all values are in GMT.	Yes

Tracking #	Description	Client installation required
CAR00052432	A call that informs global prefixes changes is triggered when deleting a condition in the "Conditions" window. This may cause the gateway to crash if many conditions are deleted at the same time.	Yes
CAR00051091	The amount of memory utilized consistently growing in WA during continuous arrival of the alerts.	Yes
CAR00051098	Domain drop down button should be available in all top tabs, in all domains, when the ribbon is collapsed.	Yes
CAR00060684	A WLA Client which is installed from EPD will not get updates notifications about new fix packs.	Yes
CAR00050925	Validation error is displayed on internal Job Variables when enforcing Standard for Variables defined by user in Site Standard tool.	Yes
CAR00052755	Elevate option is disabled in the CCM when we have only one version to promote to.	Yes
CAR00052608	Workload Automation Client - Planning Domain - Out condition disappears after adding In condition with the same name.	Yes
CAR00052577	Planning - Exception thrown when saving changes on copied job with conditions.	Yes
CAR00052555	Planning - Saving changes prompt message is missing when closing floating JEF.	Yes
CAR00052457	Compare between job versions where the job contains "On-Do" action, the changes shown in wrong version column in planning domain.	Yes
CAR00051915	CCM - CTM Server - DB - Right Click - Context Menu - all actions are not relevant and disabled	Yes
CAR00051587	Validation of operators 'Less or Equal' and 'Greater or Equal' is wrong in job on statement -> OS completion status in WA client after Control-M\Server migration.	Yes
CAR00051570	Misleading message displayed in the report dialog when trying to checked out a folder which already checked in another workspace.	Yes

Tracking #	Description	Client installation required
CAR00051521	In export window of the view schedule option in the planning domain, the date is not exported correctly.	Yes
CAR00051500	Host/Host Group value is not being resolved in Find & Update tool when using "assign Function".	Yes
CAR00052654	Wrong error message is displayed when promoting between different Enterprise managers if the target EM is configured as LDAP.	Yes
CAR00052620	The title of "Compare With Predecessor..." context menu item is confusing at Workload Automation Client Planning domain.	Yes
CAR00052586	Sub Folder Name attribute corrupted after creating a site standard on Workload Automation.	Yes
CAR00050773	Period days are not saved in Planning Domain "Advanced Scheduling" when the period selected is "P".	Yes
CAR00051123	All folder jobs are loaded into the workspace when filtering for a specific job and the filtered tree contains more than one folder.	Yes
CAR00050842	The condition is not updated for dependent jobs when updating it from the condition editor window in a workspace of the planning domain.	Yes
CAR00051281	WLA - Import SMART Folder or Job doesn't include Variables with empty value.	Yes
CAR00051227	Workload Automation Client - Planning - More/Less option in Order dialog is showing More when the expander is expanded.	Yes
CAR00051282	Wrong data is displayed when comparing job versions in list parts like: variables, notifications in planning domain compare with predecessor or show history.	Yes
CAR00051208	In conditions are not deleted when checking in a workspace if the conditions were deleted via the condition edit popup in the flow diagram.	Yes
CAR00048949	Workload Automation Manager - Forecast - Gantt mode - Export to file (Save) output file is essentially empty with the exception of the headers.	Yes

Tracking #	Description	Client installation required
CAR00051205	Validation check is missing in do-statement when setting two do actions (SET OK, NOTOK, RERUN) to the same on statement.	Yes
CAR00051059	"updatedef" utility fails when trying to update jobs in EM server database that contains Do "Handle Output" or Do "Set Variable".	Yes
CAR00051414	defjob creating new jobs although the job should be updated according to the existence of JOBISN.	Yes
CAR00052391	emdef updatedef utility fails when the job has a Do Remedy step.	Yes
CAR00049642	Tab selection is highlighted for the last two tabs instead of only for the currently selected tab in the job properties view In workload automation, when job is editable, this happen only for some client environments.	Yes
CAR00049818	Unable to move to an item in all domains tree view by clicking on the keyboard.	Yes
CAR00051814	Validation error in Planning Domain "Output Handling" when selecting an action from output handling in non-English settings.	Yes
CAR00051534	Can't add/edit/delete job properties lists like In/Out Conditions easily using Keyboard.	Yes
CAR00049854	Map Overview bottom pane and right pane job properties can be stuck in all domains when resizing the client from wide screen to smaller view.	Yes
CAR00052209	Shift selection selects more jobs than it should when using selection from find and update dialog in planning domain.	Yes
CAR00052623	The DOT (".") character is invalid input in the "Rename Control-M" window in the CCM.	No
CAR00051299	Local filter is ignoring the Node ID property in forecast domain.	Yes
CAR00048628	WA - Planning Domain - "Compare with Predecessor" doesn't show variable differences when variable name starts with %%PARM.	Yes
CAR00051283	Workspace map scrolls to the previously selected node when selecting a node in a workspace where a job was added from the palette.	Yes

Tracking #	Description	Client installation required
CAR00066925	While modifying a job a message will pop up stating the job have been modifying outside of the source editor in Monitoring Domain - Modify Job.	Yes
CAR00050027	Missing "Description" field as "First Display Field" option in File->Options->Map: Node Settings in both "Workspace" & "ViewPoint"	Yes
CAR00048538	EM API request_def_add_jobs fails to add jobs to regular jobs.	No
CAR00051554	Job and folder definition in EM API fails when the registered user has specific Folder authorization.	No
CAR00066118	EM900 FP1 installation on AIX failed due to missing soft-link (libldap_r.a).	No
CAR00052494	Login failed in client deploy when trying to connect to server that is not the default	Yes
CAR00066320	Unclear scheduling type when defining scheduling based on weekdays order - Workload Automation Client planning	Yes
CAR00066319	EMAPI - response_act_retrieve_jobs is not compliant with schema (xsd) when schema 800 or 900 is used	No
CAR00051896	An exception is thrown when creating a new quantitative resource while no other resources exists in the resources list and moving the focus to the empty list without saving the resource first	Yes
CAR00051226	The "Start Time" and "End Time" columns of the view point list view are not sorted correctly and sometimes sorting is disabled in the monitoring domain and history domain.	Yes
CAR00051808	After applying controlm/em 8.0.00.700 in a ms cluster env the Control-M-EM-WEB component fails to start	Yes
CAR00051730	FQDN- Deploy AI job type to EM client fail. The resolved tomcat host address was wrong (short name was used instead of FQDN)	Yes
CAR00052173	Control-M Web server does not shutdown via CCM nor "stop_web_server" script , in case the user account name is longer than 8 characters.	Yes



Tracking #	Description	Client installation required
CAR00051442	Annotation and Confirmation dialog is missing when adding In-Condition or using "Apply All" to add all conditions in the Job Properties "Waiting Info" tab in Monitoring Domain.	Yes
CAR00051548	The alerts taskbar icon is not flickered when alerts window is detached from WA main window and a new alert is generated.	Yes
CAR00051129	An incorrect error message is displayed in the Order dialog when ordering a z\OS job with empty Library field in "Selected job" mode in Monitoring Domain.	Yes
CAR00051150	Warning message about holding SMART Folder jobs that are not in the filtered viewpoint should be issued in Monitoring Domain.	Yes
CAR00051180	Filter fields lose focus in Alerts window after highlighting an alert.	Yes
CAR00051211	The command of the previous job appears in the Job Properties window in Monitoring Domain when selecting OS job and then selecting a job defined as "Run As Dummy".	Yes
CAR00051247	Changing the number of running jobs in the workload policies definitions enables the "OK" button only after decreasing and increasing the running jobs number.	Yes
CAR00049809	The lock icon is not displayed at the job when the zoom level is lower than 70% in viewpoint flow diagram.	Yes
CAR00050869	WA freezes When copying job to clipboard	Yes
CAR00051290	The Times columns are not sorted correctly in the Analysis View in Monitoring Domain.	Yes
CAR00051289	The scroll is not working in the right pane of Projection or Forecast Why window, when a job is waiting for a resource that is held by 5 jobs and clicking the '+' to see all jobs holding the resource.	Yes
CAR00051335	Time is always displayed in 12 hours format in History Domain playback tab when region setting is defined as long time 24 hours format (HH:MM:SS).	Yes
CAR00050982	The "External Program" definitions cannot be shared between users.	Yes

Tracking #	Description	Client installation required
CAR00051897	The Service Monitor filter is not refreshed when service status is changed.	Yes
CAR00052129	"Last synchronized" column is not formatted according to the machine time format in Calendars window in Tools Domain.	Yes
CAR00052634	Monitoring - Order - SMART folder - Selected Jobs option - Grid View - when selecting a job, the 'SMART Folder Parameters' option should be enabled	Yes
CAR00077686	Smart folder advanced scheduling is not saved after click ok button and the folder properties window closed.	Yes
CAR00076680	Windows 10 UAC is on: GA installed as an administrator while the FP can not find valid EM instance.	No
CAR00068736	GA installed as an administrator while the FP is trying to install as non-admin since the user is not appears in the Administrator group but the 'DomainAdmins' group that include the user appear in the Administrator group.	No
CAR00076779	Windows Administrative user that is not listed directly at "Administrators" group. GA installed in c:\users. Fixpack can not find GA.	No
CAR00076279	Improve the message in case the user that installs the FP is not the same as the user that installed the GA.	No
CAR00066422	Control-M V9 client orbconfigure.vbs not working in 32 bit installation	Yes

## Control-M/EM Batch Impact Manager fix pack 2 corrected problems

The following table describes the problems that were reported in earlier releases of Control-M/EM and have been corrected.

#	Tracking	Description	Client installation required
CAR00051184		BMC Batch Impact Manager and Control-M Self Service Crash when a job with invalid prerequisite conditions expression is used.	No
CAR00051057		BIM and Forecast ignore the '+ days' in From/Until Time for z/OS jobs, as a result the time estimation is wrong.	No
CAR00051165		DO SIM now supports ProactiveNet 9.x. cells specified per service. Please consult <a href="#">KA429890</a> for important configuration.	No
CAR00051254		Projection and why commands do not show all cyclic jobs holding a Control Resource or Quantitative Resource.	No
CAR00051323		Wrong BIM estimation of run number of z/OS Cyclic jobs when job is executing or rerun after max rerun.	No
CAR00051153		BIM crashes upon receiving job with an odate with less than 6 characters.	No
CAR00051430		The BIM Service problematic jobs will show the JCL jobname instead of memname, if in the Control-M for z/OS the CTMPARM parameter JNMATORD is Y and in the Control-M Configuration Manager (CCM) the Control-M Server for z/OS definition, "statistics field:" Is JOBNAME.	No
CAR00051486		The estimation time of CTM z/OS "Run as dummy" job is not 0 in BIM and Forecast calculation.	No
CAR00051483		Sometimes the ended BIM service has "OK" status instead of "Completed OK" status.	No

#	Tracking	Description	Client installation required
CAR00052405		"Problematic jobs" are generated incorrectly whenever there is a change in the service's deadline.	No
CAR00051251		BIM does not skip "forced" calculation when LoadNetRecommended has been issued.	No
CAR00058875		BIM server doesn't crash when using dynamic statistics.	No
CAR00054736		The Monitoring Alert message is limited to 255, longer messages are truncated. When using a 200 characters BIM service name, the alert message doesn't show important alert info.	No
CAR00052617		When the problem origin is a smart table, BIM reported the first job in the smart as the problematic instead of the smart.	No
CAR00052616		When the service was late only by a few minutes BIM may reported the wrong problematic job.	No
CAR00052408		When a flow contains SMART tables, sometimes the due time and problematic jobs are calculated incorrectly.	No
CAR00052815		Service deadline in BIM is affected by long tolerance values.	No

## Control-M Self Service fix pack 2

The following topics describe the enhancements and corrected problems for Control-M Self Service fix pack 2:

- [Control-M Self Service fix pack 2 enhancements](#) (on page 21)
- [Control-M Self Service fix pack 2 corrected problems](#) (on page 21)

### Control-M Self Service fix pack 2 enhancements

The following table describes the enhancements of Control-M Self Service 9.0.00 fix pack 2:

Tracking #	Description
QM001860452	Add Documentation filed to the job properties panel.
QM001872482	User can now order a service that will run as independent flow.
QM001874041	User can customize additional fields on the job node in the map view in addition to the job name.
QM001874706	Self Service Web interface can now be configured to work with Single Sign-On third parties products, so that the user will login once to all Web interfaces.

### Control-M Self Service fix pack 2 corrected problems

The following table describes the problems that were reported in earlier releases of Control-M Self Service and have been corrected.

Tracking #	Description
CAR00051496	Order Service - "Order another service" option is missing.
CAR00051267	Newly ordered service is disappearing after refresh.
CAR00045853	Empty smart tables show up in Self Service.

Tracking #	Description
CAR00051775	When trying to restart a Mainframe job from the SLS interface, the Control-R restart step does not appear in the combo box.
CAR00051925	Job statistics start time and end time "date format" is not always the same as the "date format" in user machine.
CAR00051777	When user password is close to expiration date, user can't change his password.
CAR00051494	Self Service server crashes during service calculation when the same Service Created and Deleted during one calculation.
CAR00052183	High CPU consumption of the database server when multiple users access history data in Self Service.
CAR00051184	BMC Batch Impact Manager, and Control-M Self Service Crash when a job with invalid prerequisite conditions expression is used.
CAR00052539	Control-M Self Service Online Help not opened when configured to HTTPS.
CAR00052291	Self Service Server doesn't crash after deleting a service.
CAR00052481	Service Note larger than 255 are now saved and displayed in SLS history.
CAR00065713	All SLS services have the same odate
CAR00071851	Excessive usage of database connections by Self Service Server causes delays in writing history records to the database.
CAR00052563	Self Service server crashes around new day
CAR00052247	Self Service Server crashes during calculation when rebuilding cache
CAR00052224	Self Service Server updater and calculator processes are not in sync and crash in slower environments.
CAR00052603	Self Service server may crash or hang while exiting
CAR00052604	Self Service Server may crash while reloading definition rules

# Control-M Workload Change Manager fix pack 2

The following topics describe enhancements and corrected problems for Control-M/Workload Change Manager 9.0.00 fix pack 2:

- [Control-M Workload Change Manager fix pack 2 enhancements](#) (on page 23)
- [Control-M Workload Change Manager fix pack 2 corrected problems](#) (on page 24)

## Control-M Workload Change Manager fix pack 2 enhancements

The following table describes the enhancements of Control-M Workload Change Manager 9.0.00 fix pack 2:

Tracking #	Description
QM001852098	Allow opening Remedy ticket automatically when WCM Request is submitted.
QM001873671	Ability to prevent WCM request submission or approval based on Change Management ticket status.
QM001876595	The Workload Change Manager interface can now be configured to work with Single Sign-On third parties products, so that the user will login once to all Web interfaces.
QM001886662	Workload Change Manager supports additional Control-M z/OS job attributes in the Site Standards definitions: <ul style="list-style-type: none"> <li>▪ RETENTION GENERATIONS</li> <li>▪ ARCHIVE THE JOB'S SYSDATA</li> <li>▪ AUTO ARCHIVE</li> <li>▪ NCT2</li> </ul>
QM001885425	Workload Change Manager Site Standards now provides an ability to exclude specific words from the job possible values.
QM001885433	Workload Change Manager Site Standards now allows to add Folder Name attribute as a possible Pattern Part of the job attribute rule.

## Control-M Workload Change Manager fix pack 2 corrected problems

The following table describes the problems that were reported in earlier releases of Control-M Change Manager and have been corrected.

Tracking #	Description
CAR00051214	Perform horizontal or vertical representation of the nodes in the map of Workload Change Manager web interface based on certain rules.
CAR00051643	WCM - Site Standard with a rule for Condition format - When the format is complex, filling field properties then clicking rearrange will cause jobs to move out of the folder.
CAR00051639	WCM - After creating a condition, linking job to a parent folder, application is not responding.
CAR00051713	WCM - On do condition and out condition in view - both are drawn as a contiguous line.
CAR00052172	WCM - When logging in for the first time in a new session (browser new tab or new window) and navigating to a different tab ("Other Requests" or "Open from existing flow"), it may take some time to load.
CAR00052189	Control-M WCM encountered intermittent error (General Error) while logging in.
CAR00052237	Workload Change Manager Online Help not opened and Plugins may not be loaded when configured to HTTPS.
CAR00051737	Control-M Workload Change Manager - Validation error may be displayed as warning although "Enforce Validation" option is enabled in Site Standard definition.
CAR00051715	Control-M Workload Change Manager - Foreign languages settings causes "Do Mail" data to be removed.
CAR00051777	SLS - WCM - When user password is close to expiration date, user can't change his password.
CAR00052305	It takes a lot of time to open the "existing job flows" tab if it displays thousands of folders (half an hour for 30,000 folders).



Tracking #	Description
CAR00052480	WCM - Auto fill according to Site Standard contains {*} for free text, which results with a misleading validation warning.
CAR00052675	WCM - Validation message shown for fields that may be hidden via the Site customization.

## Control-M Workload Archiving fix pack 2

The following topics describe enhancements and corrected problems for Control-M/Workload Archiving Manager 9.0.00 fix pack 2:

- [Control-M Workload Archiving fix pack 2 enhancements](#) (on page 26)
- [Control-M Workload Archiving fix pack 2 corrected problems](#) (on page 27)

### Control-M Workload Archiving fix pack 2 enhancements

The following table describes the enhancements of Control-M/Workload Archiving 9.0.00 fix pack 2:

Tracking #	Description
QM001874351	Monitor the collection process (statistics, timing, job in queue, etc.) and save the data to a CSV file.
QM001874331	Support Oracle DB for Workload Archiving database.
QM001868244	Better management of log directory contents in archiving.
QM001874336	Launch Workload Archiving search screen from the alert screen and job definitions.
QM001874359	Save and display Applications (SAP, OEBS, Database, etc.) related data and allow search on application fields.
QM001874333	Set 'Max output size' per policy & if exceeds to collect up to the limit from beginning/end.
QM001867133	Archive jobs according to job name. Example: all the jobs that start with Bank_A_Finan*.
QM001874363	Archive jobs according to Application 'Job Type' field. Example: saving all SAP jobs for 3 years.
QM001880964	In the case of connection loss with the agent, Workload Archiving will try to recollect the outputs once an hour for 24h.
QM001878758	Create windows service for Workload Archiving server.

Tracking #	Description
QM001879997	Adding Audit and Annotation for Workload Archiving operations done in Control-M Configuration Manager.

## Control-M Workload Archiving fix pack 2 corrected problems

The following table describes the problems that were reported in earlier releases of Control-M Workload Archiving and have been corrected.

Tracking #	Description
CAR00050534	WA Server - collection - not all jobs are collected - the reason of the failure is not clear from log: error getting LOG for job x error: Desc (4): user cannot understand the problem.
CAR00050563	Compare taking a long time - WA stuck for 40sec.
CAR00050564	WA Install - Cluster - The start/switch over script needs to be improved, it should try to shut archive before starting it.
CAR00050568	Warning Message "GUI Server is currently not connected to Workload Archiving" appears when GUI Server is up and running.
CAR00050571	WA Server - Log of arc_change_debug_level.sh should be improved. Shows "setting debug level from null to CONFIG" when it changed to different level.
CAR00051068	Viewing output/log result in user not authorized when a Control-M user's group has it "job filter" unchecked.
CAR00051069	When running arc cleanup while archive server is down we get insufficient error: "Failed to delete jobs".
CAR00051106	Archive search end with exception when login with EM user which belongs to 2 groups.
CAR00050522	SLS - Foreign Languages - Usability - Advanced Search dialog - invisible close button appears without text.

Tracking #	Description
CAR00050523	SLS - Foreign Languages - Usability - Empty message issued when archived search data not found.
CAR00050524	SLS - Foreign Languages: French – Usability - Search button in quick search should be wider.
CAR00050540	CCM - xAlerts - Running archive out of disk space - some usability issues.
CAR00050553	WA client - archive search ribbon enabled when datacenter\Application\Sub application from hierarchy is selected those option are disabled from right click thus ribbon should be disabled.
CAR00050559	WA Server - arc cleanup - Usage should be improved.
CAR00050560	SSL - AIX - New Certificates - scripts setup.sh ended with errors when I run the script with relative path.
CAR00051454	Workload Archiving- SSL- SLS - Unable to Request Data from Archive, when SSL use encrypted password (/home/one1/ctm_em/bin/changePass).
CAR00051472	Workload Archiving- SSL- Usability issues- On screen messages and messages in logs.
CAR00052404	CCM - When trying to open the AI from CCM, the Archiving window is open instead.
CAR00055752	Archive – arc_sql not working on PG Windows.
CAR00067233	CM job type data, such as SAP, may lead to failures in archiving job data due to insufficient storage size definition for CM_DATA field in Archive database.
CAR00074770	When using "Archive Advanced Search" user might miss several results when searching "Job Type" filter
CAR00075071	Archive server losses connection to Oracle database when all rules are deleted

## 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 client compatibility with Windows](#) (on page 29)
- [Control-M/EM server compatibility with Windows](#) (on page 31)
- [Control-M/EM server compatibility with UNIX/Linux](#) (on page 32)
- [Control-M/EM compatibility with Control-M components](#) (on page 32)
- [Control-M/EM compatibility with third party software](#) (on page 33)
- [Control-M/EM integration with BMC products](#) (on page 34)
- [Control-M/EM language compatibility](#) (on page 35)

**NOTE:** Before installing Control-M Workload Automation 9.0.00, you must check that you have Java version 1.6 operating system patches/packages prerequisites on your computer. You can do so by running the latest **check\_req** utility. You may also need additional operating system patches/packages. For more details, see the Knowledge article KA390545 in the Knowledge base.

### 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
<b>Windows 7 Enterprise Edition</b>	<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>
<b>Windows 7 Business Edition</b>		
<b>Windows 7 Professional Edition</b>		
<b>Windows 7 Ultimate Edition</b>		
<b>Windows 8 Enterprise Edition</b>		
<b>Windows 8 Professional Edition</b>		

Operating System	Bits	Compatible Processors
Windows 8.1 Enterprise Edition		
Windows 8.1 Professional Edition		
Windows Server 2008 R2 Standard Edition	64	x86_64
Windows Server 2008 R2 Enterprise Edition		
Windows Server 2008 Enterprise Edition		
Windows Server 2008 R2 Enterprise Edition		
Windows Server 2012 Standard Edition		
Windows Server 2012 R2 Standard Edition		
Windows 10 Professional		
Windows 10 Enterprise		

## 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	<ul style="list-style-type: none"> <li>▪ 64</li> </ul>	<ul style="list-style-type: none"> <li>▪ x86_64</li> </ul>	<ul style="list-style-type: none"> <li>▪ Microsoft SQL Server 2008, 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, 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 Standard Edition R2			

## 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
<b>AIX®</b>	<ul style="list-style-type: none"> <li>▪ 7.1 – TL 3</li> <li>▪ 6.1 – TL 7</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>
<b>Oracle Solaris</b>	<ul style="list-style-type: none"> <li>▪ 11</li> <li>▪ 10 (Update 7)</li> </ul>		SPARC	
<b>Red Hat Enterprise Linux Server</b>	<ul style="list-style-type: none"> <li>▪ 7</li> <li>▪ 6</li> <li>▪ 5</li> </ul>		x86_64	
<b>SUSE Linux Enterprise Server</b>	<ul style="list-style-type: none"> <li>▪ 12</li> <li>▪ 11</li> </ul>			
<b>Oracle Enterprise Linux Server</b>	<ul style="list-style-type: none"> <li>▪ 7</li> <li>▪ 6</li> <li>▪ 5</li> </ul>			

## 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/EM version 8.0.00 fix pack 8 is compatible with all supported versions of Application Plug-ins and options for application-specific products that were available before this release.

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	Version
Control-M/Agent	See Control-M/Server compatibility with Control-M components
BMC Batch Discovery	9.0.00
BMC Batch Impact Manager	9.0.00
Control-M/Forecast	9.0.00
Control-M Self Service	9.0.00
Control-M Workload Change Manager	9.0.00
Control-M Workload Archiving	9.0.00
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/EM compatibility with third party software

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

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

Third party software	Version
<b>Internet Explorer</b>	<ul style="list-style-type: none"> <li>▪ 11</li> <li>▪ 10</li> <li>▪ 9</li> </ul>
<b>Mozilla Firefox</b>	24 and higher
<b>Google Chrome</b>	26 and higher
<b>Apple Safari</b>	5.0 and higher
<b>Web server</b>	Any web server that supports Java Servlet API 1.2.

Third party software	Version
<b>.NET Framework (Full Profile)</b>	4.6.1
<b>Microsoft Silverlight</b>	4.0.50826.0 and higher

## Control-M Automation API compatibility with third party software

The following are the requirements for the Automation API development kit.

Third party software	Version
<b>Node.js</b>	4 and higher
<b>npm (Node Package Manager)</b>	3 and higher
<b>Java Runtime Environment</b>	1.7 and higher

## Control-M/EM integration with BMC products

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

BMC product	Version
<b>BMC Remedy</b>	<ul style="list-style-type: none"> <li>▪ 9</li> <li>▪ 8</li> <li>▪ 7</li> </ul>
<b>BMC ProactiveNet/TrueSight</b>	▪ 9
<b>BMC Atrium CMDB</b>	7.6.04

## 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)	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
<b>Internet Explorer</b>	<ul style="list-style-type: none"> <li>▪ 11</li> <li>▪ 10</li> <li>▪ 9</li> </ul>
<b>Mozilla Firefox</b>	35.0 34.0.5
<b>Chrome</b>	21.0.1180.75

## Product Distribution

The following procedures describe how to obtain the installation files for Control-M/Enterprise Manager version 9.0.00 fix pack 2, using EPD, FTP, or the BMC Sales Representative:

- [Obtaining installation files through EPD](#) (on page 36)
- [Obtaining installation files using FTP](#) (on page 36)
- [Obtaining installation files through the BMC sales representative](#) (on page 37)

## Obtaining installation files through EPD

This procedure describes how to obtain the Control-M/Enterprise Manager 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. Log in as a Control-M/EM user and create a temporary directory (for example, TEMP\_INST\_DIR).
3. Do one of the following:
  - **UNIX:** Copy the **PANFT.9.0.00.200\_<platform>\_INSTALL.BIN** files that are relevant to your UNIX system in binary mode from the EPD site to the temporary directory that you created.
  - **Windows:** Copy the **PANFT.9.0.00.200\_<Windows\_platform>.zip** file that is relevant to your Windows system from the EPD site to the temporary directory that you created.
4. (UNIX only) Type the following command for each copied installation file to ensure that the fix pack installation has the necessary authorizations:

```
chmod +x <installation_file>
```

## Obtaining installation files using FTP

This procedure describes how to obtain the Control-M/Enterprise Manager installation files using FTP.

### ➤ To obtain installation files using FTP:

1. Download the installation files from one of the following locations:
  - **UNIX:**[ftp://ftp.bmc.com/pub/control-m/opensystem/CONTROL-M\\_Enterprise\\_Manager/9.0.00/PANFT.9.0.00.200/Unix/](ftp://ftp.bmc.com/pub/control-m/opensystem/CONTROL-M_Enterprise_Manager/9.0.00/PANFT.9.0.00.200/Unix/)
  - **Windows:**[ftp://ftp.bmc.com/pub/control-m/opensystem/CONTROL-M\\_Enterprise\\_Manager/9.0.00/PANFT.9.0.00.200/Windows/](ftp://ftp.bmc.com/pub/control-m/opensystem/CONTROL-M_Enterprise_Manager/9.0.00/PANFT.9.0.00.200/Windows/)
2. Log in as a Control-M/EM user, and create a temporary directory (for example, TEMP\_INST\_DIR).

3. Copy the required files, as follows:
  - **UNIX:** Copy the **PANFT.9.0.00.200\_<platform>\_INSTALL.BIN** file that is relevant to your UNIX system or **PANFT.9.0.00.200.iso** in binary mode from the FTP site to the temporary directory that you created.
  - **Windows:** Copy the .iso or relevant .zip file from the FTP site to the temporary directory that you created.
4. Type the following command for each copied installation file to ensure that the fix pack installation has the necessary authorizations (UNIX only):  
**chmod +x <installation\_file>**

## Obtaining installation files through the BMC sales representative

This procedure describes how to obtain the Control-M/Enterprise Manager 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/>

# Installation

The installation files for Control-M/EM version 9.0.00 fix pack 2 are available from the BMC FTP site, on the installation DVD, or through Electronic Product Distribution (EPD), as described in Product Distribution.

The following procedures enable you to install and uninstall fix pack 2:

- [Installing fix pack 2 on UNIX](#) (on page 39)
- [Installing fix pack 2 on Windows](#) (on page 40)
- [Uninstalling fix pack 2 from UNIX](#) (on page 41)
- [Uninstalling fix pack 2 from Windows](#) (on page 41)

These release notes provide procedures for installing fix pack 2 of Control-M/EM. To install the full Control-M Workload Automation solution, see the *Control-M Installation Guide*.

**The installation process shuts down Control-M processes and components automatically.**

The installation process allows you to shut down Control-M processes and components manually. If you want instructions for shutting them down individually, see [http://bmcsites.force.com/casemgmt/sc\\_KnowledgeArticle?sfdcId=000023656](http://bmcsites.force.com/casemgmt/sc_KnowledgeArticle?sfdcId=000023656)

## Installation requirements

The following table lists the disk space requirements for installing Control-M/EM 9.0.00 fix pack 2:

Operating system	Disk space requirements
AIX	1500 MB
Oracle Solaris	1000 MB
Red Hat	700 MB
SUSE	700 MB
Windows-32 bit	3000 MB
Windows-64 bit	3000 MB

During the installation, additional space of the same sizes as in the previous table, is required in the temporary directory disk (**%temp%** Windows and **/tmp** on UNIX).

## Installing fix pack 2 on UNIX

This procedure describes how to install Control-M/EM version 9.0.00 fix pack 2 on a UNIX computer.

### Before You Begin

Ensure that you have met the following requirements:

- Korn Shell (KSH) is installed.
- Control-M/EM version 9.0.00 is installed.
- No Control-M/EM XML utilities are running.
- Ensure that the database server that contains the Control-M/EM database is up and running.

#### ➤ To install fix pack 2 on UNIX:

1. Do one of the following:
  - If you obtained the installation files using FTP (see [Obtaining installation files using FTP](#) (on page 36)), navigate to the temporary directory that you created.
  - If you obtained a DVD (using EPD or BMC Sales Representative), mount the installation DVD.
2. Install the fix pack with one of the following methods:
  - To perform an interactive installation, type one of the following commands, and then press **Y**:
    - DVD: `<DVD>/Unix/setup.sh`
    - FTP: `<temp_dir>/PANFT.9.0.00.200_<Operating_System>_INSTALL.BIN`
3. To perform a silent installation, use the commands listed below. Log in to a Control-M/EM UNIX computer and shut down the Control-M/EM components, as follows:
  - a. Type the following command:  
**root\_menu**
  - b. Type your Control-M/EM username and password.
  - c. Press **1 - Activation Menu** and then press the following commands:
    - **Stop Control-M/EM Configuration Agent**
    - **Stop Control-M Configuration Server**
    - **Stop CORBA naming service**
    - **Stop Control-M Web Server**
    - DVD: `<DVD>/Unix/setup.sh -s`
    - FTP: `<temp_dir>/PANFT.9.0.00.200_<Operating_System>_INSTALL.BIN -s`

**NOTE:** You can change the location of the directory where temporary installation files are extracted. You might want to do this when there is not enough space left in the temporary **/tmp** directory.

**EXAMPLE:** `<DVDmount>/Unix/PANFT.9.0.00.200_AIX_INSTALL.BIN -d <location>`

The *<location>* variable is the required location.

## Installing fix pack 2 on Windows

This procedure describes how to install Control-M/EM version 9.0.00 fix pack 2 on a Windows computer.

### Before You Begin

Ensure that you have met the following requirements:

- Control-M/EM version 9.0.00 is installed.
- Ensure that no Control-M/EM XML utilities are running.
- Ensure that the database server that contains the Control-M/EM database is up and running.

#### ➤ To install fix pack 2 on Windows:

1. Log in as an administrator.
2. Close the following applications:
  - Control-M Workload Automation
  - Reporting Facility
  - Conversion Tool
  - Online Help
3. Do one of the following:
  - If you obtained the installation files using FTP (see [Obtaining installation files using FTP](#) (on page 36)), navigate to the temporary directory that you created.
  - If you obtained a DVD (using EPD or BMC Sales Representative), insert the DVD, and then navigate to the **Windows** directory.
4. Install the fix pack using one of the following methods:
  - To perform an interactive installation, double-click the *<executableFile>* file and continue with the installation wizard, following the on-screen instructions until the installation is complete.
  - To perform a silent installation, open a command line and do the following:
5. From the Control-M Configuration Manager, shut down the following components, and then exit the Control-M Configuration Manager:
  - Gateway
  - GUI Server
  - GCS
  - BIM
  - Forecast Server



6. Shut down the Control-M/Enterprise Manager Configuration Agent.
7. Extract the fix pack files by typing the following command:  

```
<executableFile> -e
```
8. Navigate to `%temp%\PANFT.9.0.00.200` and type the following command:  

```
silent.bat -i <emInstanceName>
```

**NOTES:**

- If you are using Windows 7, Windows Vista, or Windows Server 2008 operating systems, run the silent installation from a command prompt that was opened with administrator privileges.
- By default the files are extracted to `%temp%`. You can use `-d<extractPath>` to extract the files to another directory. Ensure that there is no space between `-d` and `<extractPath>`. Otherwise, the fix pack files are extracted to the default location: `%temp%`.

## Uninstalling fix pack 2 from UNIX

This procedure describes how to uninstall Control-M/EM version 9.0.00 fix pack 2 from a UNIX computer.

➤ **To uninstall fix pack 2 from UNIX:**

- Uninstall the fix pack using one of the following methods:
  - To perform an interactive uninstall, type the following:  

```
$HOME/ctm_em /patches/remove_fp -f PANFT.9.0.00.200
```
  - To perform a silent uninstall, type the following:  

```
$HOME/ctm_em /patches/remove_fp -f PANFT.9.0.00.200 -s
```

## Uninstalling fix pack 2 from Windows

This procedure describes how to uninstall Control-M/EM 9.0.00 fix pack 2 from a Windows computer.

➤ **To uninstall fix pack 2 from Windows:**

1. Log on as an administrator.
2. Close the following applications:
  - Control-M Workload Automation
  - Reporting Facility
  - Conversion Tool
3. Uninstall the fix pack by using one of the following methods:
  - To perform an interactive uninstall, do the following:

4. From the **Start** menu, select **Control Panel > Add/Remove Programs > Control-M/Enterprise Manager 9.0.00 fix pack 2 <instanceName>**.
5. Select **Remove**.
  - To perform a silent uninstall, do the following:
6. Navigate to the following directory:

*< Control-M/EM home directory > \install\PANFT.9.0.00.200\*

7. From a command line, type the following command:

**uninstallSilent.bat**

**NOTE:** If you are using either Windows 7, Windows Vista, or Windows Server 2008 operating systems, run the silent uninstall from a command prompt that was opened with administrator privileges.

# Support for Control-M 9.0.00.200

These topics provide information about the following:

- [Levels of support](#) (on page 43)
- [Related documentation](#) (on page 43)

## 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 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.

## Control-M/EM fix pack 1

The following topics describe enhancements and corrected problems for Control-M/EM 9.0.00 fix pack 1:

- [Control-M/EM fix pack 1 enhancements](#) (on page 44)
- [Control-M/EM security fix pack 1 enhancements](#) (on page 46)
- [Control-M/EM fix pack 1 corrected problems](#) (on page 47)
- [Control-M/EM Batch Impact Manager fix pack 1 corrected problems](#) (on page 61)
- [Control-M/Forecast fix pack 1 corrected problems](#) (on page 63)
- [Control-M Self Service fix pack 1 enhancements](#) (on page 64)
- [Control-M Self Service fix pack 1 corrected problems](#) (on page 64)
- [Control-M Workload Change Manager fix pack 1 enhancements](#) (on page 66)
- [Control-M Workload Change Manager fix pack 1 corrected problems](#) (on page 67)
- [Control-M Workload Archiving fix pack 1 enhancements](#) (on page 68)

## Control-M/EM fix pack 1 enhancements

The following table describes the enhancements of Control-M/EM 9.0.00 fix pack 1:

Tracking #	Description
QM001824551	Provide Gantt view on the active environment to be able to easily see a visual indication of jobs currently executing and jobs estimated to run at a specific time.
QM001813186	Provide the ability to activate/deactivate a Workload Manager policy based on an event by using a new flag in the em cli utility: -WORKLOAD_ACTIVATE
QM001875070	Enable users to choose the specific Control-M/Server via a single do order action instead of different actions for Remote and Local Control-Ms.
QM001852454	Add a new system parameter <b>OrderForceWithHoldAlwaysOn</b> , that allows the administrator to make the <b>Hold</b> checkbox in the order dialog always checked as default.
QM001873426	Add a link to V9 online training from the Welcome page of the product.
QM001878331	Usage reporting tool automatically creates a zipped file of all included reports, including a PDF of the totals. Users can click on a link to easily access this file.
QM001878334	In the Usage reporting tool, user now have the ability to automatically send the zipped reports file using email from the Results screen. This is done by pressing a button on the Results screen causing the zip file to automatically be attached to the email message.
QM001878335	The Review page of the Usage Reporting tool, prominently displays "Connections Succeeded" message, if all connections are successful.
QM001863968	The log messaging level Control-M Client-Deployment process can now be modified within the Control-M Configuration Manager interface without restarting the Tomcat web server.
QM001881733	Improve the visual indication clarity in Control-M Configuration Manager window when Control-M/Server is set to Pause mode.
QM001866144	Enable resizing the Order dialog box.
QM001867520	Add right click navigation options such as step in and step out for the flow diagram containers.
QM001878336	Change the label of the <b>Read More</b> button to <b>About Tasks</b> .

CAR00049648	<p>Control-M/Enterprise Manager allows using a different JRE package than the one packed with the installation.</p> <p>ON Unix/Linux platforms, this is done by adding the parameter BMC_JAVA_HOME for specifying an alternative Java home directory.</p> <p>On Windows, the PATH environment needs to be updated with the required JAVA path, as the BMC_JAVA_HOME is not supported on this platform. For example, if the custom Java location is in "C:\Program Files\Java\jre1.8.0_66\bin\server", this path should replace the existing one "C:\Program Files\BMC Software\Control-M EM 9.0.00\Default\JRE\bin\server."</p>
QM001860755	Control-M/Enterprise Manager now supports Red Hat Enterprise Linux 7.
QM001874008	Control-M/Enterprise Manager now supports Suse 12.
QM001891398	Control-M/Enterprise Manager now supports Oracle Linux 7
QM001867636	Control-M Enterprise Manager and its add-ons support now Internet Explorer 11.
CAR00049647	Control-M/EM is upgraded to work with Java 1.8.

## Control-M/EM security fix pack 1 enhancements

The following table describes the security enhancements of Control-M/EM 9.0.00 fix pack 1:

Tracking #	Description
QM001875581	<p>Control-M secured communication between server components support TLS 1.2.*</p> <p><b>NOTE:</b> The fix CCID II10411 for Control-M/z-OS is required to enable communication with Control-M/EM. The fix SSL APAR OA39422 for Control-M/z-OS is required when using Control-M/z-OS 1.13.</p>
QM001875729	Provide a user friendly interface for generating CSR for SSL using a custom CA.
CAR00052230	A dedicated panel in CCM system parameters is now available for configuring manage SSL usage instead of the general advanced parameters section.

Tracking #	Description
QM001865030	Improve security granularity by populating the drop-down lists of Application and Sub Application fields in Job Properties with possible values found only on the Jobs that the user is authorized to browse

## Control-M/EM fix pack 1 corrected problems

The following table describes the problems that were reported in earlier releases of Control-M/EM and have been corrected.

Tracking #	Description	Client installation required
CAR00047467	When web server is configured to use HTTPS, web server status is not reported correctly in the CCM. emweb_status script used to obtain the status does not report the correct UP status.	No
CAR00050316	Viewpoints for "All Jobs" having 100,000 jobs or more, can now be opened at all times.	No
CAR00051273	Enable fix-pack installation identify secondary and distributed environment and execute only necessary exits (avoid re-updating database).	No
CAR00048520	Jobs defined with Days D*P <period identity> are forecasted to run only on the first 255 days of a period.	No
CAR00046125	Control-M/EM Audit Reports - Annotation is now written on detailed Definition audit operation.	No
CAR00050609	XML utilities exportdefjob\exportdeftable can be executed using APPL_TYPE, APPL_FROM or APPL_VER in the argument file, to export jobs data. No error messages are issued now.	No
CAR00050747	AUDIT folder definition changes - "From" "To" values are now updated with full information when changing folder type.	No
CAR00048921	Provide physical CPU socket count data in "Managed Servers" report using Reporting Facility, for Control-M/EM installed on Solaris or Windows platforms.	No

Tracking #	Description	Client installation required
CAR00049755	Control-M/EM Reporting Facility "Managed Servers" report provides now the physical CPU sockets information of Control-M Agents hosts connected to it.	No
CAR00050611	History viewpoint opening time interval, when the net contains large amount of events, is now decreased providing an improved user experience.	No
CAR00049806	Control-M Agents which were already removed and do not exist anymore are not mistakenly displayed now in the CCM.	No
CAR00051305	ManageSSL – Even if the ssl_ns.conf file is not placed in its default location, deployment packages' setup scripts complete now successfully.	No
CAR00051828	Global Calendar - Deleting a Calendar that is in use will not cause the calendar to disappear from Calendar Manager, and to be deleted when the calendar is not in use anymore.	No
CAR00051883	The output of CTM/EM utility 'handle_emweb_port' is now free of unnecessary redundant messages.	No
CAR00051931	Including '!' (not) character in 'User/Group Authorizations Folders' functions now as expected.	No
CAR00051933	CTM/EM Gateway does not fail to send SNMP trap message for Alert with error NDS_SNMP_0014.	No
CAR00051979	Components of a CTM/EM where CMS and NS are recycled at the same time, or components of a Distributed CTM/EM installation are registered at the naming service successfully now, enabling WLA and CCM users successful login.	No
CAR00052089	High Availability agent process - emcha – runs even if the web_server_params.xml file is damaged	No
CAR00052124	Uninstall of CTM/EM Distributed environment successfully removes its registration entry from the CONFIG_HA database table.	No



Tracking #	Description	Client installation required
CAR00052145	When the last job is set to OK, the End Time in the smart folder entity in Analysis Viewpoint is now correct.	No
CAR00052146	The "HELP" -cmdstr argument option for EM CTL command to the Configuration Agent ("Config_Agent") component, provides full list of the usage options.	No
CAR00052167	When first opening an Archive Viewpoint, the "Play" button in the "Playback" ribbon tab can be activated now.	No
CAR00051967	Now when the CTM Server component desired state and current state are equal (both up and down) in Configuration Manager Window, there is no false "error" icon in the component line.	No
CAR00049031	Extreme Peak Usage report may display now correct data on the day of moving to DST clock when DST is set to be changed at 24:00.	No
CAR00052280	AI auditing - All results are available in auditing with filter, including AI reports of Audit type in Reporting Facility.	No
CAR00052372	EM GUI servers does not crash on Windows operating systems after installation or during login when DST is enabled and the time zone is set for south hemisphere (summer time in January) and offset gmt+0 to gmt+12.	No
CAR00052325	LDAP authentication with SSL on Linux can be configured successfully.	No
CAR00052419	Upgrade - ControlM_EM_Version system parameter is updated successfully at post Upgrade from version 8.0.00.	No
CAR00052565	No error message is received now when running root_menu of Control-M/EM on Unix or Linux and entering "!" in text dialog "Enter option menu:".	No
CAR00052498	CTM/EM Gateway component does not crash anymore when system parameter GtwParallelProcessingMode value is "off".	No
CAR00052183	When working with CTM/EM on MS SQL Server, the database server does not consume now an excessive amount of CPU.	No

Tracking #	Description	Client installation required
CAR00051490	No popup messages are displayed when trying to recycle several CTM/Agents in the CCM and for some of these agents there are currently running jobs.	Yes
CAR00051498	The condition name for mainframe job validation red mark doesn't remain anymore when moving from selected Action tab to another chosen tab in the condition name editor.	Yes
CAR00051533	What-If host terminology is replaced with What-If downtime terminology across the WLA application.	Yes
CAR00051538	Flow diagram - When changing Hierarchy, the focus does stay on a job in the monitoring domain.	Yes
CAR00051581	The "Toggle Bookmark" ribbon button is enabled when selecting several bookmarks in the planning domain.	Yes
CAR00051583	The "Toggle Bookmark" ribbon button does not remain disabled now after selecting all bookmarks in the results list (lower pane) and then selecting one bookmark in the list, in the planning domain.	Yes
CAR00051584	The bookmarked jobs are not selected correctly after changing the hierarchy in planning and forecast domains.	Yes
CAR00051679	Force Order job - Find and Update action - Adding a value for a separate field completes with no exception thrown now.	Yes
CAR00051758	When performing local filter (like dynamic filter in monitoring and history domains and local filter in forecast domain), bookmarks list display now only items that are part of the current view.	Yes
CAR00051772	The bookmarks list is updated now when unloading a folder that one of its job is bookmarks in the planning domain.	Yes
CAR00051817	The periodic calendar, selected for Calendar Days of Rule Based Calendars window, appears now successfully in calendars combo box.	Yes

Tracking #	Description	Client installation required
CAR00051877	Reporting Facility - Existing templates of "Batch Impact Manager SLA Analysis" report are successfully executed in Reporting Facility.	Yes
CAR00051904	Different runtime estimation tooltips (Based on statistics and Estimated by Batch Impact Manager) represented by a specific icon each in the flow diagram now.	Yes
CAR00051996	All CTM/Agents System Parameters are now saved correctly when the parameters descriptions were changed from one release to another.	Yes
CAR00051997	CCM - Error messages are expectedly displayed now for all relevant Agents that do not support system parameter updates.	Yes
CAR00051972	The saved changes that include JOB TYPE in workload definition filter are applied now correctly.	Yes
CAR00051813	Customizable filter is not empty now when opening viewpoints from a saved preset viewpoint.	Yes
CAR00052036	The "Play" button is enabled now, when first opening an archive view point in the "Playback" ribbon tab, regardless where we set the cursor in the spin control.	Yes
CAR00051750	Client UI is not frozen now in Alert view for long time when many alerts are removed by server.	Yes
CAR00051881	In map view, a z/OS job that ended not OK has end-time of the job instead of 'Unknown end time' just like other views.	Yes
CAR00052520	Control-M Event Manager is now disabled when no control-M z/OS is defined in Tools Domain.	Yes
CAR00052015	CCM - Change password is now working in CCM login window when user must change password for non LDAP users on environments configured for LDAP authentication.	Yes

Tracking #	Description	Client installation required
CAR00051954	CCM – Function selection buttons are refreshed now on time in in CCM when applying actions that require UI changes.	Yes
CAR00051935	Promotion – When Site Standard does not exist on the target environment – a warning is issued now.	Yes
CAR00049496	A job or a folder are not presented as "Modified" now in Planning domain when adding Note to a Job or Folder.	Yes
QM001886289	Planning - CCM Banner color – No missing color picker now.	Yes
CAR00052084	No redundant value ("More") under Site Customization property definitions anymore.	Yes
CAR00051936	Annotation fields 'Description' and 'Note' are not switched now when stored in database for Audit Activities.	Yes
CAR00052109	When there is an unresolvable conflict in Planning\Order "Continue Check-In" button is correctly disabled now.	Yes
CAR00052462	z/OS Dummy job form is not missing now the On/Do actions section in Actions tab.	Yes
CAR00051889	When just opening an existing Capture dialog and clicking "OK", the job is not marked as "Modified" in Planning windows anymore.	Yes
CAR00051893	Find and Update dialog does not throw an exception and does not get locked anymore when adding the value without other properties for "Variables"	Yes
CAR00052570	Calendars – No missing annotations for upload and download of Calendars anymore.	Yes
CAR00051899	"From Time" is updated with the correct value in Planning domain Scheduling tab, When updating via "Find and Update"	Yes
CAR00052133	No exception is thrown now in Planning Workspace after changing smart folder to regular folder from a specific draft.	Yes

Tracking #	Description	Client installation required
CAR00051601	The variable value of do remote order feature is displayed now in the "Compare With Predecessor" window.	Yes
CAR00052100	Client Deployment feature is provided now also when configuring the web server to HTTPS.  If Web Server is configured to HTTPS, you should first configure it to HTTP, install the new FP and then move back to HTTPS.	Yes
CAR00050507	Starting Control-M Web Server on windows platforms takes now a reasonable period of time.	No
CAR00047747	Reporting Facility and Report CLI using PostgreSQL database consume memory resources efficiently now when generating large reports, avoiding the popup message:  "Failed to save report definition Out of memory while reading tuples"	Yes
CAR00044664	RF - Producing Workload distribution report, takes now a reasonable amount of time when choosing in report creation wizard, "Detailed" mode and enabling the checkboxes for sectioning of the jobs according to "Node ID", "Task Type" and "Application type" on Reporting Facility.	Yes
CAR00050859	RF – For customers using MS SQL, when creating Trend Analysis, BIM History, Details & Analysis or JCU reports, and in creation wizard checking the use time filter checkbox and choosing a time frame different from the last 90 days, the generated report shows data of the correct range of time filter now.	Yes
CAR00050985	Control-M Web Server on windows does not take over 1 hour to come up anymore.	No
CAR00049018	Response time significantly slower in Workload Policy Definitions when many hosts and host groups are defined in Control-M.	Yes
CAR00049885	Self Service Definitions filter does not have the STARTS/END operator when creating/editing a service definition that was generated from a rule using grouping jobs into services with the first/last operators.	Yes

Tracking #	Description	Client installation required
CAR00049931	In the "Rule Based Calendar" definition window, the "Keep Active" field (AKA Max Wait) is visually located under the "Confirmation Calendar" section, although it is not related to it.	Yes
CAR00049790	Last synchronized column not sorted correctly in calendars tool when clicking the last synchronized column header.	Yes
CAR00050377	Viewpoint doesn't refresh itself when a time is selected from the drop down ComboBox, In Playback mode of History domain.	Yes
CAR00048970	The Customizable Filters apply to the entire client instead of the particular viewpoint in Monitoring Domain.	Yes
CAR00050436	Popup windows might not open and map zoom value might not be set correctly when working with non-English Windows.	Yes
CAR00050486	The WA UI is unable to connect to a GUI Server in an LDAP environment when working with short usernames and during reconnection.	Yes
CAR00050484	Exception "Specified cast is not valid" is thrown in monitoring when job status is updated or set.	Yes
CAR00050595	The following error "enumeration operation may not execute" received right after logging in to CONTROL-M Workload Automation.	Yes
CAR00050500	Service Monitor shows SLS and BIM related information in Tools domain although the related service is not installed on this installation	Yes
CAR00050542	The "Automatic Reconnect" option in the "Options" window of the Workload Automation GUI is ignored when it is unchecked. The application always tried to automatically reconnect to the GUI Server.	Yes
CAR00050612	Alerts Filtering produces slow response due to refresh in Alert window, when user is typing a filter and there is a large number of alerts (about 10000).	Yes

Tracking #	Description	Client installation required
CAR00050719	Last jobs selection is not saved on order window with "Selected Jobs" option chosen.	Yes
CAR00050701	Projection, "Statistics" & "Belongs to" menu items on monitoring jobs right click, are disabled when CTM is unavailable.	Yes
CAR00050737	The warning "'X' member is not a valid scheduling folder" is shown on check-in of an MVS job when job's scheduling definitions contain more than 8 periods.	Yes
CAR00050748	The annotation window is displayed without the message that should be displayed in the confirmation window, when the annotation is turned on and the relevant confirmation is turned on as well.	Yes
CAR00050304	Some non-resizable windows (like "Change Password", "Connectivity Troubleshooting" and "Workload Policies Running Jobs") are truncated in the WLA when setting the machine's DPI to 125% or higher.	Yes
CAR00050630	Calendars windows are cut, when changing the windows DPI scale.	Yes
CAR00048872	Jobs Start Time and End Time sort does not work correctly in Statistics window in Monitoring Domain.	Yes
CAR00049720	'Task Type' set to 'SMART Folder' doesn't work in View Point Customizable filter, Self Service Definition/Rule and Advanced Find. Also need to click twice on the combo box to see the values.	Yes
CAR00050868	The "Embedded Script" option is disabled for DS job when zooming & saving a job that its original task type is script (AKA, "Job") in the monitoring domain.	Yes
CAR00048619	When trying to restart a Mainframe job from the WA interface, the Control-r restart step does not appear in combo box.	Yes
CAR00050893	Entering a new line in description field of Calendar doesn't create a new line.	Yes

Tracking #	Description	Client installation required
CAR00048399	In the monitoring domain, the "Node ID" field in the simple find section of the "Find" window should be changed to "Host".	Yes
CAR00049471	Upon login to the WA, the Password Expiration dialog pops up along with reconnection dialog, when a user that is requested to change his password each login tries to login to the application.	Yes
CAR00050978	User that configure to work with German/French able to delete "All Jobs" viewpoint from viewpoint manager.	Yes
CAR00050364	Job property From/To date not being saved when selecting different jobs from the find and update window.	Yes
CAR00050430	Job names that contains underscore appear without the underscore in the 'Neighbors' context menu in Planning/Forecast domain.	Yes
CAR00045075	CCM shout destination limited to 99 while not limited in Control-M Server.	Yes
CAR00050126	'More/Less' expander state is not saved in popup Job properties window in Planning or Monitoring Domain.	Yes
CAR00050501	Expressions cannot be used in Find and Update window for some date and time fields.	Yes
CAR00049831	Data is not saved in On Do Action, "Mail", when setting do action to "Mail" and the system localization is French.	Yes
CAR00050057	Validation is missing for "new line" character in Job Definition fields when importing jobs/folders in Planning Domain.	Yes
CAR00050212	Cannot update 'Priority' field with a value that not in the list in the Planning Find and Update tool.	Yes
CAR00049938	Unable to search for jobs within planning workspace advanced search using the Prerequisite Control resource or Quantitative.	Yes



Tracking #	Description	Client installation required
CAR00049892	<p>Dummy job cannot be checked in when user's job authorizations is limited to specific Host/Host Group.</p> <p>System Parameter "ShowHostForDummyJobs" should be set to "1" in order to use Dummy Jobs with job authorizations is limited to specific Host/Host Group.</p>	Yes
CAR00048954	User cannot change the order of Do steps in On Do Actions dialog when editing a job.	Yes
CAR00050273	The buttons of the "Track Changes" bar (Next, Previous, Select All and Undo Delete) are disabled in the workspace window of the planning domain.	Yes
CAR00050392	Validation error is not shown for z/OS jobs if Do Notify Mail Subject exceeded limitation of 70 characters.	Yes
CAR00050641	Checkboxes reacts (check and uncheck) when clicking an empty space in job property window	Yes
CAR00050607	An unclear error is displayed and the folder properties window can no longer be opened when using Find and Update to set an invalid value in the Code/Folder End field of an On statement in a smart folder.	Yes
CAR00050514	Find and Updates presets are not saved in Preset path in Workload automation Manager when File-> Options are never used in a client.	Yes
CAR00050408	View Dependencies settings are not saved in Workload Automation Manager Planning Workspace when closing the application.	Yes
CAR00050317	CCM login might take a few minutes (4-7) when named GUI Server is down.	Yes
CAR00050645	Calendar synopsis displays incorrect details when deleting an item from a filtered calendar list in calendars manager.	Yes
CAR00050710	Calendar is not showing notification in calendar tool when doing check-in calendar.	Yes

Tracking #	Description	Client installation required
CAR00050733	Cannot resolve \$\$JOB_ID\$\$ and \$\$RERUN_COUNTER\$\$ values as parameters to External Program in Monitoring Domain.	Yes
CAR00050839	Some titles of job synopsis are corrupted when French or German language is selected in Workload Automation Client.	Yes
CAR00047414	Jobs cannot be filtered by MEMNAME in Version manager.	Yes
CAR00050800	The Version Manager filter description is misleading.	Yes
CAR00050771	The shortcut Ctrl+L to switch to list view doesn't work in Planning domain.	Yes
CAR00048516	Find & Update in Workload Automation Client cannot update date field when computer date format separator is not slash.	Yes
CAR00050851	"Pre-execution command" and "Post-execution command" are missing in job definition for "FileWatcher" job in Workload Automation Client.	Yes
CAR00050930	Jobs Application & sub-application fields changed to wrong values when dragging more than 1 job from folder to simple folder.	Yes
CAR00050931	Upgrade failed when upgrading WebLaunch V8 fix pack 3 to any V8 higher fix pack.	Yes
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.	Yes
CAR00051206	History viewpoints are displaying the statuses of the jobs that were opened in the first opened history viewpoint.	Yes
CAR00051115	WA client fails to start when installed from a web launch package and configured to work with SSL.	Yes
CAR00051125	On the Monitoring domain for 'Do Set Restart Options' Option, the 'Confirm' check box is un-checked when it supposed to be checked.	No

Tracking #	Description	Client installation required
CAR00050129	Download of definition folder(sync) which contains a very long job definition (a lot of job parts) may intermittently fail	No
CAR00050385	Control-M/Enterprise Manager on Linux may constantly download definition folder which migrated from Control-M Server V7.0.0 every 30 minutes although no change was made.	No
CAR00050653	When group authorization "Run As Users" tab contains more than 16 lines, one of the lines above 16 may split into 2 different lines and the authorization may become less strict for the split line.	No
CAR00050513	Job that has space character in "Month days" or "Week days" fields is no longer valid in Control-M/Enterprise Manager V8.0.0.	No
CAR00051117	Eliminating freezing for several seconds in Workload automation client while viewing a viewpoint.	Yes
CAR00051132	Eliminating freezing in Workload automation client when an error is returned from the server for an AFT job in monitoring viewpoint.	Yes
CAR00051248	Workload automation client crashing when you press Cancel button in the Password Expiration dialog during log in.	Yes
CAR00051318	Control-M GUI Server performance improvement - client hang - when checking service authorizations for a large number of user logins.	No
CAR00049727	Users can now set "ssl_ns.conf" or "ns.conf" (non SSL) files path to other than home directory in orbconfigure utility.	No
CAR00051751	EM Web server - Disabled Trace, Delete & Options http method by a security constraint on the tomcat web server.	No
CAR00051749	EM Web Server - Protected from Clickjacking.	No
CAR00050885	The Control-M SSL guide clearly describes now how to import an external certificate into Tomcat.	No
CAR00050280	Archiving server cannot be managed in CCM when in SSL mode.	Yes

Tracking #	Description	Client installation required
CAR00052398	Upgrade procedure from Control-M/EM 800 Fix-Pack 7 imports now successfully the user authorizations data.	No
CAR00052509	Order/Force a selected job from WA GUI may fail when JOB_ORDER does not match the sequence number of the job.	Yes
CAR00050003	Rename Control-M operation does not corrupt the filter values of the Workload Policies Definition anymore.	Yes
CAR00052153	IDB ARCHIVE - when archive component is not pressed in the tree view , the archive screen would not be opened from the archive icon.	Yes
CAR00050600	Control-M/Enterprise Manager with Self-service server, gateway may fail to synchronize with Control/M after restart - communication status remains "no sync".	No
CAR00050724	Control-M/Enterprise Manager Server components can't start if the host name is longer than 32 characters.	No
CAR00050980	When trying to save a z/OS folder to a different directory containing the same z/OS folder name, Control-M/Enterprise Manager GUI Server might crash after selecting the overwrite option.	No
CAR00051094	Memory leak is eliminated when viewpoint is closed (only first time) when only single dotted condition (e.g. DO condition between 2 datacenters) are presented in map view.	Yes
CAR00051095	Wrong warnings about not found application jobs status are removed from Workload automation client log.	Yes
CAR00052376	Scheduling folders/calendars appear in EM with state "Synchronization Error" and message "No information was received from Control-M/Server" even though the folders/calendars are synchronized, existing on CTM server side and the data is received from Control/M Server.	Yes
CAR00052607	EMAPICLI of WA - Some sample request files lack <ctmem:user_token></ctmem:user_token> tag.	Yes

Tracking #	Description	Client installation required
CAR00052523	When a job ends and a ticket is opened due to Do Remedy option, EM/Gateway does not go down with an error anymore.	Yes
CAR00052655	When Password Expiration was set to "On", users changing their passwords or new users failed to logon, due to false password expiration date set to 01/01/1970. This does not occur anymore.	No

## Control-M/EM Batch Impact Manager fix pack 1 corrected problems

The following table describes the problems that were reported in earlier releases of Control-M/EM and have been corrected.

Tracking #	Description	Client installation required
CAR00048513	Batch Impact Manager recalculating services after they have ended.	No
CAR00048727	Batch Impact Manager recycles when a large number of alerts are sent and the server is working on a high number of threads.	No
CAR00049546	Reporting Facility might display error message: "Failed to get services/jobs data: Service is unavailable. Make sure BMC Batch Impact Manager Server is running".	No
CAR00049561	Batch Impact Manager may recycle during download which has occurred while an analysis viewpoint is being refreshed.	No
CAR00049169	EM GUI Server might recycle and Gateway might not connect to GSR when there are many services with many jobs in them.	No
CAR00049172	Batch Impact Manager services calculation performance improved by making use of multiple processors and by calculating time gaps only for critical path jobs.	No

Tracking #	Description	Client installation required
CAR00051306	Certain memory leaks in BIM and Forecast server processes are prevented now.	No
CAR00042684	Batch Impact Manager may responds promptly now when processing complex condition expressions and the "DiscardOrphanCondition" parameter is enabled.	No
CAR00050758	Enhanced diagnostics in BIM process for alerts and time zone are provided.	No
CAR00050872	"Locate job" function (Service monitor->Service Log->Problematic Job) works now also for jobs of CTM z/OS data centers.	No
CAR00047524	The CTL command for BIM with DIAGL argument and with context value functions now.	No
CAR00050366	There is no one hour difference anymore between the log time and other records in BIM SLA Analysis reports, when Daylight Savings time is in place.	No
CAR00037239	BIM does not crash during Control-M New-Day procedure time.	No
CAR00050435	A user is able to perform a "Drill down" to a BIM service although the system is configured that BIM services authorization is based on service name authorization.	No

Tracking #	Description	Client installation required
CAR00050779	<p>BMC Batch Impact Manager supports statistics by job-name for Control-M z/OS jobs.</p> <p>To activate the feature:</p> <ol style="list-style-type: none"> <li>1. The Control-M for z/OS must be at least at Maintenance 8.0.03 and APARs BM11084 and BM11113 should be applied.</li> <li>2. In the Control-M for z/OS the CTMPARM parameter JNMATORD must be changed to Y.</li> <li>3. In the Control-M Configuration Manager (CCM) the Control-M Server for z/OS definition, "statistics field:" should be changed to jobname.</li> <li>4. In the Control-M Configuration Manager (CCM) the Gateway should be recycled.</li> </ol> <p><b>NOTES:</b></p> <ul style="list-style-type: none"> <li>▪ This feature is only for customers that do not use a unique Memname for the jobs.</li> <li>▪ This feature is only for BIM not for Forecast.</li> </ul>	No

## Control-M/Forecast fix pack 1 corrected problems

The following table describes the problems that were reported in earlier releases of Control-M/EM and have been corrected.

Tracking #	Description	Client installation required
CAR00051149	Forecast and View Scheduling displays incorrect scheduling for a z/OS job that uses ALL of the following scheduling attributes: DAYS, WDAY with AND between them and minus days in the DAYS or WDAY and CONFAL with SHIFT.	Yes
CAR00047661	Forecast - "run as dummy" job - is now calculated for service completion time analysis with run time instead of an assigned time interval.	No

Tracking #	Description	Client installation required
CAR00051078	When a job is ordered by a user daily job and the user daily job is ordered but does not run; the forecast why action for the job is not missing the daily name anymore.	No

## Control-M Self Service fix pack 1 enhancements

The following table describes the enhancements of Control-M Self Service 9.0.00 fix pack 1:

Tracking #	Description
QM001863963	The log messaging level of Control-M Self Service can now be modified within the Control-M Configuration Manager interface without restarting Tomcat web server.
QM001863732	Control-M Self Service now supports CJK characters in the Web interface.
QM001791904	Control-M Self Service now allows the user to customize the job node size so it will display longer job names.

## Control-M Self Service fix pack 1 corrected problems

The following table describes the problems that were reported in earlier releases of Control-M Self Service and have been corrected.

Tracking #	Description
CAR00048994	Control-M Self-Service service is now available in history view after the SLS server is restarted and service status has not changed.
CAR00051422	Order Service - The search field at the bottom works too slowly.
CAR00049125	The pie chart and total number of jobs displayed in the properties of history of a BIM service is correct now.



Tracking #	Description
CAR00049568	Control-M Self Service server might recycle if service status Database updates are accumulating due to database delays.
CAR00050673	SLS Web Service description and note fields, are not empty anymore when looking at services details panel in history view.
CAR00051850	The Job Log is now showing a message regarding "ENDED NOT OK" or "ENDED OK" execution status in SLS window. The completion statuses are displayed now in job log, successfully.
CAR00050770	In SLS Service Jobs map view and WCM request map view, when there are links between jobs from different folders if user collapses and changes focus between the folders in the diagram, the link shown between the collapsed folders sometimes disappear.
CAR00050544	In Self Service web , Odate based service tiles, displays date format in top right corner, as DD/MM should be according to the machine selected local format.
CAR00050341	In Self Service Web interface, when opening job output in separate window "\n" is added to random lines.
CAR00050908	The Spanish localization for Control-M Self Service contained French strings.
CAR00050388	Self Service web client log messages are buffered before being sent to the server.  The out of the box buffer size might not fit all customers, thus client should be able to rely on external configuration: ClientLogBufferSize, ClientLogTimeInterval.
CAR00051145	SLS - Job statistics start time and end time "date format" is not the same as the "date format" in the user's machine.
CAR00051163	History view and Service Log of Self Service services is not showing up data after database is being recycled.

## Control-M Workload Change Manager fix pack 1 enhancements

The following table describes the enhancements of Control-M Workload Change Manager 9.0.00 fix pack 1:

Tracking #	Description
QM001856310	Improve authorization granularity and usability of Workload Change Manager by allowing authorization definition for Site Standards and Site Customizations. When end users will choose the Site Standard for a Request of a new Job Flow in Workload Change Manager web client or for a Folder in Workload Automation client, they will see only the Site Standards that they are allowed to use.
QM001856311	Improve Workload Change Manager auditing capabilities by providing the ability to issue a Requests report that combines Request information, including Request Notes, together with Folder and Job changes included in the Request.
QM001856312	Allow defining specific standards of job properties for jobs of different types in the same Folder by enabling creation of rules per job type in the Site Standard. For example, Job Name of OS job type can contain only lower case letters while Job Name of SAP job type can be only upper case.
QM001856314	Improve efficiency of Workload Change Manager end users by automatically filling Folder and Job properties with fixed values required by Site Standard rules.
QM001864027	Show dotted lines for On / Do Condition links between job nodes.
QM001856313	Add "Created By" field to the list of the available fields Site Standard to allow user defining rule for this field.
QM001856315	Enhance usability of editing the Conditions in Workload Change Manager web client by adding the ability of viewing and editing the Conditions directly from the Map area.
QM001856317	Add the ability to define a Site Standard of the link format between jobs for dependencies that are created by dragging line between jobs in Workload Change Manager web client.
QM001875474	OS400 job type user interface plugin for Workload Change Manager web interface is now available.

Tracking #	Description
QM001863967	The log messaging level of Control-M Workload Change Manager can now be modified within the Control-M Configuration Manager interface without restarting Tomcat web server.
QM001875577	Provide the ability for users to receive email notifications when Workload Change Manager Promotion request is submitted and approved.
QM001873570	Workload Change Manager Promotion action can now be executed as a batch process.
CAR00049370	WCM – Add a configurable link to customer’s home page from Welcome Page.
QM001866874	Add support for CJK characters.

## Control-M Workload Change Manager fix pack 1 corrected problems

The following table describes the problems that were reported in earlier releases of Control-M Change Manager and have been corrected.

Tracking #	Description
CAR00052189	Control-M WCM encountered intermittent error (General Error) while logging in.
CAR00050768	WCM - Open existing job flows - problem with folder display: second folder is not displayed or jobs are not displayed inside a folder till performing scroll.
CAR00049779	Job types cannot be excluded from WCM (web client) job palette in the JEF customization tool.
CAR00050140	When setting the language to German in SLS web preferences, logging in with the same user to WCM, WEB UI in WCM is shown in English.
CAR00052338	Workload Change Manager - Embedded Script being created via WCM UI is being truncated and is left with only the first line when arriving to the EM server.

Tracking #	Description
CAR00052237	Workload Change Manager Online Help not opened and Plugins may not be loaded when configured to HTTPS.
CAR00052172	Workload Change Manager - When logging in for the first time in a new session (browser new tab or new window) and navigating to a different tab ("Other Requests" or "Open from existing flow"), it may take some time to load.
CAR00051191	Working with 'AllowQueryDBFieldValues' System Parameter set to '0' results in disconnecting WCM web client.

## Control-M Workload Archiving fix pack 1 enhancements

The following table describes the enhancements of Control-M Workload Archiving 9.0.00 fix pack 1:

Tracking #	Description
QM001863756	Control-M Archiving now allows opening the archive search from the main Control-M Self Service view.

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