

BlackBerry Enterprise Server for IBM Domino

Version: 5.0
Service Pack: 4
Maintenance Release: 7



Maintenance Release Notes

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Related resources

To read the following guides, visit www.blackberry.com/go/serverdocs.

Guide	Information
<i>BlackBerry Enterprise Server Feature and Technical Overview</i>	<ul style="list-style-type: none">• BlackBerry Enterprise Server features• System architecture• Data workflows
<i>BlackBerry Enterprise Server Installation and Configuration Guide</i>	<ul style="list-style-type: none">• System requirements• Installation instructions
<i>BlackBerry Enterprise Server Upgrade Guide</i>	<ul style="list-style-type: none">• System requirements• Installation instructions
<i>BlackBerry Enterprise Server Administration Guide</i>	<ul style="list-style-type: none">• System setup and management• BlackBerry device implementation instructions

What's new in BlackBerry Enterprise Server 5.0 SP4 MR7

BlackBerry Enterprise Server setup application

Updates to BlackBerry Enterprise Server 5.0 SP4 MR7 include installation of JRE version 1.7, update 51 and JBoss Enterprise Application Platform version 5.1.2.

Installing the maintenance release

Where to install the maintenance release

Install this maintenance release on any computer that hosts a BlackBerry Enterprise Server and on any remote computer that hosts a BlackBerry MDS Connection Service, BlackBerry Collaboration Service, BlackBerry Attachment Service, BlackBerry Administration Service, or BlackBerry Web Desktop Manager.

Verify the BlackBerry Enterprise Server software version on a computer that runs Windows Server 2012

This maintenance release works with BlackBerry Enterprise Server 5.0.4 for IBM Domino.

1. On the **Start** screen, click **Control Panel**.
2. Double-click **Programs and Features**.
3. If the window does not display the **Version** column, perform the following actions:
 - a. Right-click on any column heading. Click **More**.
 - b. In the dialog box, click **Version**.
 - c. Click **OK**.
4. In the list of currently installed programs, search for **BlackBerry Enterprise Server for IBM Domino**.
5. Verify that the version number is at least 5.0.4 (Bundle 38).

Verify the BlackBerry Enterprise Server software version on a computer that runs Windows Server 2008

This maintenance release works with BlackBerry Enterprise Server 5.0.4 for IBM Domino.

1. On the taskbar, click **Start > Control Panel**.
2. Double-click **Programs and Features**.
3. If the window does not display the **Version** column, perform the following actions:
 - a. Right-click on any column heading. Click **More**.
 - b. In the dialog box, click **Version**.
 - c. Click **OK**.
4. In the list of currently installed programs, search for **BlackBerry Enterprise Server for IBM Domino**.
5. Verify that the version number is at least 5.0.4 (Bundle 38).

Verify the BlackBerry Enterprise Server software version on a computer that runs Windows Server 2003

This maintenance release works with BlackBerry Enterprise Server 5.0.4 for IBM Domino.

1. On the taskbar, click **Start > Control Panel**.
2. Double-click **Add or Remove Programs**.
3. In the list of currently installed programs, click **BlackBerry Enterprise Server for IBM Domino**.
4. Click **Click here for support information**.

5. Verify that the version number is at least 5.0.4 (Bundle 38).

Install the maintenance release

If you configured BlackBerry Enterprise Server high availability to limit the downtime of BlackBerry services, you can install the maintenance release on the standby BlackBerry Enterprise Server instance, fail over to the standby BlackBerry Enterprise Server, and then install the maintenance release on the primary BlackBerry Enterprise Server.

Before you begin:

- On the computer that hosts the BlackBerry Enterprise Server, make sure that you can access the installation files that were used to install the BlackBerry Enterprise Server. Depending on how the software was installed, the files might be located on a product CD or in a network location.
- On the computer that hosts the BlackBerry Administration Service, make sure that the service ports are synchronized with the BlackBerry Configuration Database. For more information, visit the Knowledge Base at blackberry.com/support to read article KB26557.
- This maintenance release includes updates to the BlackBerry Configuration Database. You must back up the BlackBerry Configuration Database so that you can restore it if the BlackBerry Enterprise Server upgrade process does not complete. For more information about backing up the BlackBerry Configuration Database, see the *BlackBerry Enterprise Server Upgrade Guide*.

1. Using the service account (for example, BESAdmin), log in to the computer that you want to install the maintenance release on.
2. In the Windows Services, stop all BlackBerry Enterprise Server services.
3. Close the Windows Services.
4. Extract the installation files from **besn504mr7.zip** to a folder on the computer.
5. Browse to the location of the setup program files.
6. Double-click **setup.exe**.
7. Complete the configuration screens.
8. Click **Finish**.
9. In Windows Services, restart all BlackBerry Enterprise Server services.

Note: Depending upon the number of users, it may take significantly longer for the BlackBerry Enterprise Server services to fully start the first time after an upgrade because the state database designs must complete a one-time refresh.

Note: If you add a BlackBerry component or change the BlackBerry Configuration Database using the BlackBerry Enterprise Server 5.0.4 Gold installer, you must reinstall the maintenance release, using the steps above.

Verify that you installed the maintenance release on a computer that runs Windows Server 2012

1. On the **Start** screen, click **Control Panel**.
2. Click **Programs and Features**.
3. If the window does not display the **Version** column, perform the following actions:
 - a. Right-click on any column heading. Click **More**.
 - b. In the dialog box, click **Version**.
 - c. Click **OK**.
4. In the list of currently installed programs, search for **BlackBerry Enterprise Server for IBM Domino**.
5. Verify that the version number is 5.0.4 MR7 (Bundle #160).

Verify that you installed the maintenance release on a computer that runs Windows Server 2008

1. On the taskbar, click **Start > Control Panel**.
2. Click **Programs and Features**.
3. If the window does not display the **Version** column, perform the following actions:
 - a. Right-click on any column heading. Click **More**.
 - b. In the dialog box, click **Version**.

- c. Click **OK**.
4. In the list of currently installed programs, search for **BlackBerry Enterprise Server for IBM Domino**.
5. Verify that the version number is 5.0.4 MR7 (Bundle #160).

Verify that you installed the maintenance release on a computer that runs Windows Server 2003

1. On the taskbar, click **Start > Control Panel**.
2. Click **Add or Remove Programs**.
3. In the list of programs, click **BlackBerry Enterprise Server for IBM Domino**.
4. Click **Click here for support information**.
5. Verify that the version number is 5.0.4 MR7 (Bundle #160).

Fixed issues

4

Issues marked with an asterisk (*) are newly fixed in this release. All other issues were fixed in previous maintenance releases.

Activation

If moving a user fails because the application acknowledgment of the move request was not received, the user remains in a pending state, preventing all subsequent activation attempts. This state requires administrator intervention to remove, re-add, and re-activate the user. (DT 6390380).

A delay of over 10 minutes in the OTAKEYGEN process leaves devices in a disconnected state. When promotion of the key fails, the device is left using the old key while the BlackBerry Enterprise Server is left using the new key. In this state, the device can only send and not receive (decrypt) packets from the BlackBerry Enterprise Server. (DT 6738489).

BlackBerry Administration Service

The BlackBerry Administration Service cannot specify a Server Routing Protocol (SRP) address that begins with a numeral as a fully qualified domain name (FQDN). The associated method within the code assumes it is an IP address and tries to validate it as such. (DT 4405948).

You cannot customize the **Manage Users** view by moving columns to the left side of the view as you did in BlackBerry Administration Service 5.0.3. The columns are anchored and will return to their original position. (DT 5897303).

The BlackBerry Administration Service does not restart after applying BlackBerry Enterprise Server 5.0 SP4 MR1 or MR2 in a Windows Server 2012 environment. (DT 6489174).

After an administrator moves a messaging server from primary to backup, the 'Location - server' and 'Location - relative path' database fields are cleared. This happens even if the value of 'Agent who determines organizer data location' was set to 'Administrator only' and the value of 'Override the organizer data location' was set to 'Yes' for all user accounts in BlackBerry Administration Service. (DT 6534093).

When an IT policy change is made through the BlackBerry Administration Service Console, the previous IT Policy is re-sent before the new IT Policy is sent. (DT 6545760).

The BlackBerry Administration Service database reconciliation process slows and then stops when it processes certain jobs that contain bad data. When this occurs, you cannot log in to the BlackBerry Administration Service. The reconciliation process should operate normally when processing these jobs. (DT 6635949).

After the BlackBerry Collaboration Service is upgraded from Microsoft Lync Server 2010 to Lync 2013, the instance, collaboration client type, and transfer protocol name is not represented as Lync 2013 in the BlackBerry Administration Service. (DT 6721800).

A BlackBerry Administration Service JVM runs out of memory and becomes unavailable when a software configuration containing 5 applications is assigned to a group of 5000 users or more, who are enrolled with at least 3 devices each (15,000 or more devices total). (DT 7280978).

High CPU usage happens for extended periods of time on the BlackBerry Administration Service during reconciliation because of repeated XML validation of internal ACP Data. (JT 598141)

BlackBerry Attachment Service

On the BlackBerry device, in the Basic Viewer for Microsoft Excel, negative numbers for the 1000 (thousandth) separator-enabled format appear incorrectly. Parentheses "(" should appear around such negative numbers. (DT 5799453).

Certain Microsoft Office files created with LibreOffice cannot be opened on the BlackBerry device using the basic viewer. Only files saved in Microsoft Excel 97-2003, 2007, and XP or Microsoft PowerPoint 97-2003, 2007, and XP file formats will open on the BlackBerry device. It is expected that all Microsoft Office files created with LibreOffice open on the BlackBerry device. (DT 5975763).

The BlackBerry Attachment Service does not convert date and time data in the Japanese version of Microsoft Excel spreadsheets. (DT 6044493).

There are missing symbols in the BlackBerry Attachment Service memory dumps. This causes difficulties when troubleshooting issues with BlackBerry Attachment Service because the outputs are not legible. (DT 6488503).

BlackBerry Collaboration Service

On BlackBerry Enterprise Server instances configured for high-availability, the BlackBerry Collaboration Service that uses Microsoft Office Communications Server 2007 R2 or Microsoft Lync Server 2010 fails to start when **Instant messaging server pool is load balanced** is set to **Yes**. The high-availability pair creates duplicate Trusted Service Entries (TSEs) within Microsoft Active Directory for the load balanced instant messaging server pool. (DT 2019072).

* When the BlackBerry Collaboration Service encounters missing heartbeats between itself and the OCS Connector, the OCS Connector is restarted but no messages are processed and Enterprise IM feature is lost until after a restart of the BlackBerry Collaboration Service. (DT 8331922).

BlackBerry Dispatcher

When two users swap their BlackBerry devices before a failover, the BlackBerry Dispatcher incorrectly detects duplicate personal identification numbers (PINs) and resets the PIN to **0** for one of the users after the failover. (DT 454394).

A high availability server configured for automatic failover is flagged as "unhealthy" after a connection to port 5096 is established and dropped. (DT 1889799).

If no BlackBerry Messaging Agents are connected to the BlackBerry Dispatcher when it broadcasts a failover mode alert (during a failover), the function that handles the broadcast returns an error, preventing BlackBerry Dispatcher from updating itself accordingly. When the next failover occurs, BlackBerry Dispatcher will not attempt to broadcast a failover mode alert to the BlackBerry Messaging Agents. (DT 6503927).

BlackBerry Enterprise Server Maintenance Release Installer

The BlackBerry Enterprise Server Maintenance Release Installer does not automatically update JRE 1.6 to update 37 during the initial installation of the maintenance release. (DT 5763463).

If the installation drive is set to something different from the default (C:) when installing BlackBerry Enterprise Server 5.0 SP4 MR5 on Windows Server 2012, then the JRE installation does not complete and services are mapped to a nonexistent version of JRE. (JT 598379).

BlackBerry Enterprise Server setup application

When you upgrade the BlackBerry Enterprise Server after installing a newer version of JDK and removing the older version of JDK, you must re-install the older version of JDK to successfully complete the upgrade. The BlackBerry Enterprise Server Installer does not dynamically select the newer version of JDK. (DT 6982727).

When you upgrade to BlackBerry Enterprise Server 5.0.4 from BlackBerry Enterprise Server 5.0.3, the version number in the BlackBerry Administration Service is not updated accordingly. This blocks importing IT policies from the upgraded BlackBerry Enterprise Server to a BlackBerry Enterprise Server with a fresh installation of version 5.0.4. (DT 7217060).

BlackBerry MDS Connection Service

Starting with BlackBerry Enterprise Server 5.0 SP3 MR6, you could configure BlackBerry MDS Connection Service to route direct Transport Layer Security (TLS) connections through a proxy server, but some connections would fail as BlackBerry MDS Connection Service did not support proxy auto-configuration (PAC) files for direct TLS connections. You can now configure BlackBerry MDS Connection Service to use PAC files to route direct TLS connections through a proxy server. (DT 2737990).

BlackBerry device users cannot browse using BlackBerry MDS Integration Service authentication if they are within a Microsoft Active Directory domain that is separate from the target website. The BlackBerry MDS Connection Service can query Microsoft Active Directory users via a Lightweight Directory Access Protocol (LDAP) only if they are in the same domain as the web server of the targeted website. (DT 4994857, DT 6110523).

BlackBerry device users cannot authenticate using RSA for URLs that are using HTTPS because the BlackBerry MDS Connection Service times out while redirecting to the RSA login webpage. (DT 5894839).

When the secure remote password (SRP) connection is lost between the BlackBerry MDS Connection Service and the BlackBerry Dispatcher due to a timeout when BlackBerry MDS Connection Service is processing a large browser request, the BlackBerry MDS Connection Service remains in standby mode after reconnection even though the BlackBerry Dispatcher is reporting the BlackBerry MDS Connection Service. (DT 5896462).

The proxy auto-configuration (PAC) file retrieval process may cause other applications within your network to run slowly. Currently, there is no method to specify a domain in the rimpublic.property file to bypass the added PAC file code for exempted servers. (DT 5959365).

The BlackBerry MDS Connection Service occasionally sends a disconnect notification to the device because it falsely diagnosed that the connection to the remote host was lost. (DT 6008209).

When all devices in an organization are configured to use BlackBerry MDS Connection Service for web traffic, and that traffic is directed through a proxy server, the Twitter application becomes unavailable. (DT 6399750).

Kerberos authentication does not complete and is replaced with Microsoft NT LAN Manager (NTLM) authentication when you use JRE 1.6 update 37. The version was updated from JRE 1.6 update 33 to JRE 1.6 update 37 as part of BlackBerry Enterprise Server 5.0 SP4 MR1. (DT 6721494).

The BlackBerry MDS Connection Service stops processing incoming requests from devices when it encounters a Java-level deadlock (that is when two or more threads are permanently blocked waiting for the others to resolve). (DT 7717570).

BlackBerry Messaging Agent

The due date of a follow-up message is synchronized to 6 hours earlier on BlackBerry devices than on the mail client. (DT 1033794).

Email messages return to the original inbox when an Over-the-air Folder Manager (OTAFM) scan encounters duplicate folder documents in the BlackBerry State database. (DT 3165118).

If the **When receiving unencrypted mail, encrypt before storing in your mail file** value is set to **Yes**, the original body text of the email message is not included when a user forwards or replies to messages from outside the domain. (DT 6237681).

Scans, refreshes, and health checks randomly remove handle locks on public folders, causing users to become unsubscribed from public folders after the message: **(SDT00022582) "User has insufficient access privileges to public folder <<publicfolder>> and must be re-subscribed"** is received. (DT 6309158, DT 6309328).

You cannot forward email messages received in Multipurpose Internet Mail Extension (MIME) format using Notes Native Encryption (NNE). (DT 6449714).

The return dates of "Out of Office" notifications are set to the day prior to the correct return date on devices when BlackBerry Enterprise Server is set to the GMT+8 timezone. (DT 6779157).

You cannot perform address lookups against person documents if the search string contains a partial first name and a partial last name. (DT 7001892).

After restarting the BlackBerry Controller Service, BlackBerry Enterprise Server performance counters may become unavailable. (DT 7036898).

* BlackBerry Messaging Agent counters are not accessible or visible in Perfmon. This happens because the BlackBerry Messaging Agent is unable to access the memory share upon start up. (DT 7913126).

BlackBerry Policy Service

In large databases, the SQL command to re-queue pending commands requires a large amount of resources and causes the BlackBerry Policy Service server to enter a throttled state for an undefined period, which, prevents application pushes going to devices. (DT 7091315).

BlackBerry Router

On a BlackBerry Enterprise Server instance that is running on a 64-bit computer, the router client counter and the router session counter may become unavailable when they are used at the same time. This is because the two counters access the same shared memory block. (DT 6316873).

* BlackBerry Router counters are not accessible or visible in Perfmon. This happens because the BlackBerry Router is unable to access the memory share upon startup. (DT 7913126).

BlackBerry Synchronization Service

The BlackBerry Synchronization Service drops responses when BlackBerry Enterprise Server is slow to respond to a command to initialize synchronization from/for the address book. This leads to the BlackBerry device retrying the command and the synchronization process is not started. (DT 2087862).

The BlackBerry Synchronization Service produces Short Message Service (SMS) logs that can contain unreadable text or truncated lines after processing a Unicode message. This is due to an issue in the Unicode where least significant bytes are switched for most significant bytes (or vice versa). (DT 2599450).

Having numerous organizer data items may cause a low memory condition within the BlackBerry Synchronization Service. Support for XML chunking between the BlackBerry Synchronization Service and its connectors is required to avoid creating exceedingly large XML packages. (DT 4930615, DT 4415679, DT 6255659).

Processing Short Message Service (SMS) data from large (over 160 character) messages for logging causes the BlackBerry Synchronization Service to become unresponsive, and BlackBerry device users experience interrupted service. (DT 6873904).

When the Microsoft SQL Server is unavailable during a restart of the BlackBerry Synchronization Service, the event to retry start-up of the PIM connectors is not sent. (DT 6877457).

The BlackBerry Synchronization Service becomes unavailable if you attempt to use the same shared network path for audit logging on more than one server. (DT 7105697).

* The BlackBerry Synchronization Service becomes unavailable and requires a restart after encountering an SMS item that has an invalid value in the date/time field. (DT 8820509).

BlackBerry Web Services

In domains with numerous instances of the BlackBerry Dispatcher, calls from the BlackBerry Management Studio to retrieve a select list of servers may time-out (after 60 seconds by default) while attempting to retrieve a `createUsers().server` object. (DT 6312656).

When you add users to a BlackBerry Enterprise Server domain from the BlackBerry Management Studio, the call to get the list of servers may take more than 60 seconds, which then causes the connection to drop. (DT 7197839).

IBM Domino Calendar

When an instance of a recurring meeting is rescheduled twice, the second update that is sent to the BlackBerry device is identical to the first. (DT 6029270).

BlackBerry Enterprise Server restart after reaching the wait count limit when processing an over-the-air calendar uninvite. (DT 6202395).

Multiple calendar synchronization requests simultaneously arrive to the BlackBerry device when a user returns to a wireless coverage area. This results in calendar synchronization conflicts and users experience synchronization sessions that stop, restart, and eventually timeout. (DT 6296084).

Online meeting details are not updated after you accept a meeting update sent by Domino Notes, running on a new IBM Domino 9.0.1 server, with your BlackBerry device. (DT 7778935).

Logging

Since BlackBerry Enterprise Server 5.0.3 MR7, the BlackBerry MDS Connection Service logs Java Null Pointer Exceptions (NPEs) repeatedly when requesting a push message for a user with no personal identification number (PIN). Depending on the frequency of the push message, the BlackBerry MDS Connection Service can repeatedly log NPEs, causing the logs to grow rapidly to several gigabytes in size and resulting in a disk drive running out of space. (DT 5765689).

Security

Vulnerabilities existed in how the BlackBerry MDS Connection Service, BlackBerry Collaboration Service, and the BlackBerry Messaging Agent processed TIFF images for rendering on BlackBerry devices. These vulnerabilities could have

allowed a potentially malicious user to execute arbitrary code using the privileges of the BlackBerry Enterprise Server login account. (DT 5468999, DT 5542642, DT 5890761, and DT 6098370).

These issues are resolved by an interim security software update. The update replaces the image.dll file that the affected components use with an image.dll file that is not affected by the vulnerabilities. For more information, visit the Knowledge Base at blackberry.com/support to read article KB33425.

* A vulnerability existed in the implementation of the logging of exceptions encountered during user or session management that could have allowed an attacker to gain access to logged shared secrets or domain credentials from the exception log. The vulnerability was limited by default access controls on the server. (DT 8770510, DT 8770535).

These issues were resolved by this interim security software update. For more information, visit www.blackberry.com/btsc to read KB35647.

Wireless calendar synchronization

An invalid calendar synchronization state prevents a server-initiated full synchronization if a full synchronization session was stopped with a non-retry-able error, such as session mismatch error. This can occur when a server attempts to initiate a full synchronization process while the device is offline. Starting with BlackBerry Enterprise Server 5.0.4 MR1, in a case of a non-retry-able error, the server waits 1 hour and resolves any relevant values (such as session number) to allow a new server-initiated full synchronization process to be scheduled. (DT 5291872).

The full calendar synchronization process may not complete if a server rejects device updates for meetings that are canceled or deleted in IBM Notes. (DT 5859843).

Known issues

Issues marked with an asterisk (*) are newly found in this release. All other issues were found in previous maintenance releases.

BlackBerry Administration API

* The BlackBerry Administration API becomes unavailable after upgrading to BlackBerry Enterprise Server 5.0 SP4 MR7. (JT 670055).

BlackBerry Administration Service

Changes to the membership of a group to which you belong may not succeed, and a Kerberos Clock Skew error may be displayed, when you make the changes more than 5 minutes after logging in to the BlackBerry Administration Service using Single Sign-on (SSO). (DT 6918388).

Workaround: Begin making group membership changes within 5 minutes after logging into the BlackBerry Administration Service console via SSO.

* After an upgrade to BlackBerry Enterprise Server 5.0 SP4 MR7, the BlackBerry Administration Service NCC JVM options registry keys are updated incorrectly when the Server Configuration utility is used to update the BlackBerry Administration Service NCC internal ports numbers. (JT 665092).

Workaround: Manually update the port numbers and settings in the JVM options for the BlackBerry Administration Service NCC registry values.

BlackBerry Enterprise Server Maintenance Release Installer

After applying BlackBerry Enterprise Server 5.0.4 MR1 or BlackBerry Enterprise Server 5.0.4 MR2 in a Microsoft Windows Server 2012 environment, the BlackBerry Administration Service web client becomes unresponsive. (DT 6489174).

Workaround: Configure the BlackBerry Administration Service to use TCP, rather than UDP, prior to applying the MR.

* Depending upon the number of users, it may take significantly longer for the BlackBerry Enterprise Server services to fully start the first time after an upgrade because the state database designs must complete a one-time refresh. (JT 645279).

* If you attempt to re-install BlackBerry Enterprise Server 5.0 SP4 MR7 the BlackBerry Dispatcher service is removed. (JT 675346).

Workaround: Uninstall and re-install BlackBerry Enterprise Server 5.0 SP4.

* During an upgrade to BlackBerry Enterprise Server 5.0 SP4 MR7, the BlackBerry Enterprise Server Maintenance Release Installer does not prompt you to update the BlackBerry Collaboration Service for Microsoft Lync Server 2013 support, and the BlackBerry Collaboration Service defaults to Microsoft Lync Server 2010 support. (JT 675413).

Workaround: Manually configure the BlackBerry Enterprise Server to use Microsoft Lync Server 2013 using the BlackBerry Enterprise Server 5.0 SP4 MR2 - MR6 installer prior to the upgrade.

BlackBerry MDS Connection Service

* BlackBerry MDS Connection Service does not establish a connection if the web server is set up to use TCP PAC file processing and the proxy address returned is an IP address rather than an FQDN. (DT 8980289).

Workaround: Create the appropriate entries in DNS so a host name is used and update the PAC file.

BlackBerry Enterprise Server setup application

During Service Pack upgrades, the BlackBerry Enterprise Server setup application does not unregister the BlackBerry Messaging Agent and the BlackBerry Router in the Windows Management Instrumentation (WMI) counters before uninstalling the old files. (DT 628488).

Performance monitoring counters are not automatically installed during BlackBerry Enterprise Server installations on 64-bit versions of Windows Server. (DT 3562704, DT 7059449).

Workaround: Add performance monitoring counters manually after installation. For more information, visit the Knowledge Base at blackberry.com/support to read article KB21534.

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