Installation & Getting Started Guide

BlackBerry Enterprise Server for Lotus Domino

Version 2.0

BlackBerryTM Enterprise Server Software Installation & User's Guide. Last revised 05/01/01 Part Number: MAT-03196-001

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1

Overview

BlackBerryTM is a mobile email solution that consists of the BlackBerry handheld, docking cradle, BlackBerry Desktop Software, and flat-rate airtime on a nationwide wireless network.

About BlackBerry and the BlackBerry Enterprise Server

The BlackBerry Enterprise Server performs email redirection for all BlackBerry users in an organization. It performs the following functions for each user:

- Monitors the user's inbox for new mail
- Applies filters (defined by the user) to new messages, to determine if and how the BlackBerry service will relay the message to the user's BlackBerry handheld
- Compresses and encrypts new messages and delivers them to the BlackBerry handheld over the Internet
- Receives, over the Internet, messages composed on the BlackBerry handheld, then decrypts and decompresses the messages for the corporate Lotus Domino server to deliver

6 Overview — About BlackBerry and the BlackBerry Enterprise Server

The BlackBerry Enterprise Server runs as a Lotus Domino Server task that can monitor many users at once over a single administrative connection to the Lotus Domino server. The BlackBerry Enterprise Server maintains a direct TCP/IP connection (Server Routing Protocol or SRP) to the wireless network. This mode of connection requires that you configure your corporate firewall to allow the BlackBerry Enterprise Server to connect through port 3101. This is not a "hole" in the firewall, since only an outbound-initiated connection is required.

Figure 1 shows an example of events that occur when an external email message is sent to a user on the BlackBerry Enterprise Server.



Figure 1: Sample email path with BlackBerry Enterprise Server

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About this guide

This *BlackBerry Enterprise Server Software Installation and Getting Started Guide* will help you set up your system for installation, install the server software, and get started with the server administration tools.

Please consult the *BlackBerry Enterprise Server Online Help* (installed with your software) for procedures, tips, and troubleshooting. To open the online guide, click the Help button in any of the BlackBerry Enterprise Server windows.

In your package

Your BlackBerry Enterprise Server package should contain the following:

- BlackBerry Enterprise Server Software CD
- This BlackBerry Enterprise Server Software Installation & Getting Started Guide
- SRP Authentication label (located on the CD jewel case)

If any of these components are missing, please contact technical support at 1-887-255-2377 (U.S./Canada).

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Setup and installation

This chapter includes the following components:

- System requirements and pre-installation checklist
- Installing BlackBerry Enterprise Server Software
- Importing system information
- Creating the BlackBerryAdmins group
- Uninstalling BlackBerry Enterprise Server Software

System requirements

The BlackBerry Enterprise Server for Lotus Domino Software requires the following hardware and software components:

Hardware

• PC with an Intel Pentium II processor or compatible (233 MHz or higher, 128 MB RAM, 1 GB hard drive)

Software

- Windows NT® 4.0 server, Service Pack 3 or higher installed
- Lotus[®] Domino[™] Server and Client 4.6 or higher installed (where the Lotus Domino server is in the LocalDomainServers group)

10 Setup and installation — Pre-Installation checklist

Pre-Installation checklist

Use this checklist to track the specific information required when you install the BlackBerry Enterprise Server. Keep this information for future reference. The information you enter will be required if you need to contact our support department.

Hardware - minimum requirements

- PC with an Intel Pentium II processor or compatible (233 MHz or higher)
- □ 128 MB RAM.
- □ 1 GB free disk space
- □ 10 Mbps LAN connection

BlackBerry Enterprise Server Software

This document assumes that your BlackBerry Enterprise Server for Lotus Domino will be in the same Lotus Notes Named Network as the Lotus Domino mail server.

- Windows NT® 4.0 server, Service Pack 3 or higher installed
- □ Lotus[®] Domino[™] Server and Client 4.6 or higher installed
- Ensure the Lotus Domino server is in the LocalDomainServers group

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Information

You will be asked for the SRP Identifier and the SRP Authentication Key. You can find this information on the label on your BlackBerry Enterprise Server for Lotus Domino installation CD. It is highly recommended that you write down these values in the spaces provided below.

TCP/IP Common Name (the first part of a server name, for example, *Server1*, where the full server name is *Server1*/Server/BlackBerry) or NETBIOS Name of BlackBerry Enterprise Server:

Platform your mail servers run on:

Lotus Notes Organization Name:

System Attendant (name of System Administrator, used for sending email alerts in a valid SMTP address format, e.g. *administrator@rim.net*):

BlackBerry Enterprise Server Installation Folder Location:

• or

| □ _{defau} | ılt |
|--------------------|-----|
|--------------------|-----|

SRP Host (the SRP Address value provided on your installation CD label):

SRP Identifier: S______

12 Setup and installation — Firewall configuration

SRP Authentication Key: _____

The authentication key is very long. To simplify installations, upgrades, and reinstalls, create a .txt file containing your authentication key. You can use this .txt file to copy the key and paste it into the **Authentication Key** field. Keep this file in a secure directory.

Lotus Domino Data Directory location: (for example, C:\Lotus\Domino\Data)

Name of the Name and Address Book (Domino Directory):

Note

Your corporate firewall must be able to resolve Internet addresses using DNS.

Firewall configuration

The BlackBerry Enterprise Server initiates connections to the wireless network in an outbound direction. To support BlackBerry in an environment with a firewall in place, the firewall must be configured to allow the computers running BlackBerry Enterprise Server within the company to initiate TCP/IP connections to an outside server listening on port 3101. If the firewall is a proxying

Setup and installation — Firewall configuration 13

firewall, the proxy must be transparent. Please ensure that your firewall is configured to accommodate these types of connections.

Note A transparent proxy does NOT modify requests or responses through the proxy during proxy authentication and identification, whereas a non-transparent proxy (where the client specifies the hostname and port number of the proxy) IS used to modify requests or responses through the proxy. If you have a non-transparent proxy, the BlackBerry Enterprise Server can be configured to access an internal proxy address which is then translated externally to the SRP Host on port 3101.

14 Setup and installation — Important setup overview

Important setup overview

To ensure successful installation and setup of the BlackBerry Enterprise Server, please follow this setup order. (Detailed procedures follow for each step in the overview.)

- Log in with an Administrator account on the Lotus Domino Server where the BlackBerry Enterprise Server will run.
- Install the Blackberry Enterprise Server software on the Lotus Domino Server that acts as the gateway to the wireless network.
- Create the BlackBerryAdmins group and add administrators to it.
- Start the BlackBerry Enterprise Server service.

Logging in to the Administrator account

 On the server where the BlackBerry Enterprise Server will run, log in with a Windows NT administrator account to the account you usually use for Administrator-level tasks. This account will be used throughout the installation. For simplicity, we will refer to this account as your "Administrator account".

The BlackBerryAdmins group will not be created when you install the BlackBerry Enterprise Server; you will need to create a BlackBerryAdmins group in the Name and Address Book (Domino Directory) and add administrators to it.

Note You must have Windows NT Administrator privileges as well as Lotus Domino Administrator privileges to log in.

Installing the server

Follow these steps to install the BlackBerry Enterprise Server.

Note For instructions on uninstalling, see "Uninstalling the software" on page 33.

1. Insert the BlackBerry Enterprise Server for Lotus Domino CD into the CD drive of the computer that will run the BlackBerry Enterprise Server.



 Double-click the Installer folder to open it. Double-click BlackBerry Enterprise Server for Lotus Domino to start installation. A Welcome screen appears.



3. Click Next. The License Agreement window appears.

| nstallShield Wizard | | | × |
|---|---|--|------------------------------|
| Please read the following license agreement ca | arefully. | | |
| Press the PAGE DOWN key to see the rest of | the agreement. | | |
| Part I Enterprise Solution Server Software Lic BlackBerry Enterprise Server License Agreem This is a legal agreement between you, the Cu Research In Motion Limited ("RIM"), BY INST. OR MORE COPIES OF THIS SOFTWARE (O FOREGOING), YOU ARE AGREEING TO BE AGREEMENT, IF YOU DO NOT AGREE TO PROMPTLY RETURN THE SOFTWARE ANI (INCLUDING WRITTEN MATERIALS AND BI TO RIM. | ense Agreemen Istomer ('You'' o ALLING, USING R ANY COMBIN BOUND BY THI THE TERMS OF D THE ACCOMF INDERS OR OT | : "Your"), and OR MAKING ON ATION OF THE E TERMS OF TH THIS AGREEM 'ANYING ITEMS HER CONTAINE | IS ENT, IRS) |
| Do you accept all the terms of the preceding Li setup will close. To install BlackBerry Enterpris agreement. | cense Agreemer e Server for Lotu | nt? If you choose is Domino, you m | e No, the ust accept this |
| istallohield | < Back | Yes | No |

4. Please read the license agreement carefully; proceeding with the installation indicates that you accept its conditions. Click **Yes** to continue. The **Setup Type** window appears.



5. To install the BlackBerry Enterprise Server, select **BlackBerry Server and Utilities**. This option installs the BlackBErry Enterprise Server task and the administrator interface. If you are installing a BlackBerry Enterprise Server Administration Console, select **BlackBerry Utilities Only**. This option installs only the administrator interface. Click **Next** to continue. The first **BlackBerry Enterprise Server for Lotus Domino Setup** screen appears.

| stallShield Wizard | | | |
|---|---------------------------------------|---|----------------------------|
| BlackBerry Enterprise Server for Lotus D System Attendant | omino Setup | | |
| Enter the email address of your System Attend and can be changed at a later time by modifyir NOTES.INI file directly. | ant. This value i ng the 'RIMSyste | s stored in the NC emAttendant' valu |)TES.INI file le in the |
| System Attendant | | | |
| Enter the email address of the System Admin | istrator. This ad | dress should be a | valid email |
| aduless. Replies to system generated alerts | or warnings will | De seric (o triis au | |
| Carl.Colt@rim.net | | | |
| <u></u> | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| stallShield | | | |
| | | | |
| | < <u>B</u> ack | <u>IN</u> ext > | Lancel |
| | | | |

Note If you want to manage the BlackBerry Enterprise Server from another machine, (running Windows NT with SP3 or higher, or Windows 2000), install the Utilities on that machine as well as on this machine.

- 6. In the BlackBerry Enterprise Server for Lotus Domino Setup screen labelled **System Attendant**, in the **System Attendant** field, type the email address of the System Administrator. Use a valid email address that can send and receive Alert or Warning messages.
- 7. Click **Next** to continue. The second **BlackBerry Enterprise Server for Lotus Domino Setup** screen appears.

| InstallShield Wiz | zard | | | x |
|---|---|---|--|------------------------|
| BlackBerry Er SRP Host and | nterprise Server for Lotus Do d Authentication Information | mino Setup | | |
| Enter the Hos Identifier and a be changed a | et Name and Port number of your of Authentication Key, found on the la at a later time by editing the NOTES | onnection to you abel of your insta 6.INI file. | ir SRP host. Enter allation CD. These | your SRP values can |
| Connection | to SRP | | | |
| Host Name: | srp.blackberry.net | | Port: 3 | 101 |
| | | | Test Conne | ction |
| - SRP Auther | ntication | | | |
| Identifier: | S609609 | | | |
| Key: | 5mm6-6cmv-5mn6-6yai-5mm6-4v | /3h-2cv9-8m45-r | mnn6 | |
| InstallShield | | | | |
| | [| < <u>B</u> ack | <u>N</u> ext > | Cancel |

- 8. In the BlackBerry Enterprise Server for Lotus Domino Setup screen labelled **SRP Host and Authentication Information**, enter the following values under Connection to SRP:
 - In the **Host Name** field, enter the SRP Address (also referred to as SRP Host) provided on the installation CD label. The *SRP Host* connects to the wireless network. The BlackBerry Enterprise Server can sit anywhere on the LAN and route its TCP/IP traffic through the firewall or

through a transparent proxy server.

| l | Note | A transparent proxy does NOT modify requests or responses through the proxy during proxy authentication and identification, whereas a non-transparent proxy (where the client specifies the hostname and port number of the proxy) IS used to modify requests or responses through the proxy. If you have a non-transparent proxy, the BlackBerry Enterprise Server can be configured to access an internal proxy address which is then translated externally to the SRP Host on port 3101. | | | |
|-----|---|---|--|--|--|
| | • In the firew typic conr | ne Port field, the SRP Port, configured during the vall configuration process, is set to 3101, and is cally not changed. This is an outbound-initiated nection. Click Next to continue. | | | |
| 9. | During y setup pro connect t | your initial installation, click Test Connection . The ogram will perform a test to ensure that the server can o <i>SRP Host</i> . | | | |
| | If the test is successful, messages will confirm your connection. From the DOS prompt, press Enter to continue. Click OK to close the message and continue the installation. | | | | |
| | If the test is not successful, you will see an error message. Note the error code, and press Enter. Click OK in the dialog box to close the error message. | | | | |
| ľ | Note | If the SRP test is not successful, you will have to stop the installation and correct the reason for the failure before you can restart the installation. See the "Resolving Connection Errors" section of this guide for a list of common errors and suggestions for their resolution. | | | |
| 10. | In the SR Authenti | P Authentication section, enter the SRP Identifier and cation Key obtained from the label on the installation | | | |

CD. These values are unique to each host license. Each BlackBerry Enterprise Server requires its own unique SRP Identifier and Authentication Key.

Tip The authentication key is very long. To simplify installations, upgrades, and reinstalls, create a .txt file containing your authentication key. You can use this .txt file to copy the key and paste it into the **Authentication Key** field. Keep this file in a secure directory.

- 11. Click Next to continue.
- 12. The **Choose Destination Location** window appears. In the **Choose Destination Location** window, ensure that the destination path is correct and click **Next**.

| Setup and installation — | Installing the server | 23 |
|--------------------------|-----------------------|----|
| eetup ana metanation | metalling are conten | |

| InstallShield | Wizard X |
|---|---|
| Choose Des Select fold | tination Location ler where Setup will install files. |
| Setup will i | install BlackBerry Enterprise Server for Lotus Domino in the following folder. |
| To install t another fol | o this folder, click Next. To install to a different folder, click Browse and select Ider. |
| Destinati C:\\Bla InstallShield — | ion FolderBrowseBrowse |
| | < Back Next > Cancel |
| Note | The default path for the BlackBerry Enterprise Server is C:\Program Files\Research In |

- 24 Setup and installation Installing the server
 - 13. In the **Select Program Folder** window, ensure the correct folder is selected and click **Next** to complete the installation.

| InstallShield Wizard | | | X |
|--|--|--------------------------------|--------------|
| Select Program Folder Please select a program folder. | | | |
| Setup will add program icons to the Program Fo name, or select one from the existing folders list | older listed belov t. Click Next to | v. You may type a continue. | a new folder |
| Program Folders: | | | |
| BlackBerry Enterprise Server for Lotus Domino | | | |
| Existing Folders: | | | |
| Accessories Administrative Tools Lotus Applications Startup VNC | | | |
| InstallShield | | | |
| H LANDING HIGHN - | < Back | Next> | Cancel |

14. When the installation is complete, you will see a confirmation window.



15. Click **Finish** to close the window.

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Creating the BlackBerryAdmins group

You must create a BlackBerryAdmins group in the Lotus Domino administration server directory and replicate it in the BlackBerry Enterprise Server Domino directory, then add Lotus Notes users who want to be BESAdmin members directly to the group.

1. From the Domino Administrator, click the appropriate server icon.

| B | Domino Administrator | | | _ 🗆 × |
|----|--|--|------------------------------|------------------|
| Ei | e Edit ⊻iew <u>C</u> reate Actions Administration <u>P</u> e | ople <u>H</u> elp | din . | ⇒ ⊗ ⋳ Q |
| | Administration | | | administrator |
| 9 | SERVER1.RIM.NET Domain _ | Replication Configuration | | |
| ſ | Server1/SQA | | | Tools |
| | All Servers | 📋 Add Person 🖉 Edit Person 🍓 Delete Person | Move Mail File | > 👸 People |
| | Clusters Instructure | Name Telephone Company 🔺 | E-Mail | Groups |
| | Hierarchy Belease | Mai75 | Mail75/SQA @ server1.rim.net | |
| | Dperating System | Mai76 | Mail76/SQA @server1.tim.net | |
| | | Mail77 | Mail77/SQA @ server1.rim.net | |
| | | Mail80 | Mail80/SQA @server1.rim.net | |
| | | Mail81 | Mail81/SQA @server1.nim.net | |
| | | | | 1 == 2 Office 11 |

2. Select the **People & Groups** tab, then **Domino Directories**. Select the appropriate **Address Book**, then select the **Groups** view.



| administrator |
|---------------|
| |
| √Tools |
| 👂 👸 People |
| 🖂 📸 Groups |
| Manage |
| Create |
| Edit |
| Delete |
| |
| |

- 3. In the **Groups** menu list, click **Create** to add the group.
- 4. Select the **Basics** tab.
 - In the Group name field, type: BlackBerryAdmins

| Note | This field is case-sensitive; type the name exactly as shown |
|------|--|
| | above. |

- In the **Group type** field, type or select **ACL**.
- In the **Description** field, type a description that will appear in the view. For instance, you could type the description: **Users who can add, remove and modify BlackBerry user settings**.
- In the **Members** field, select the name of the users who will be administering the BlackBerry Enterprise Server. For example, select **Admin**, or **SQA**.

| De No | ew Group - Domino / | Administrator | | | _ | |
|-------|-----------------------------|--|----|-----|--|----------|
| File | Edit View Create | Actions Text Help | | | $\otimes \bigcirc \bigcirc$ | 0 |
| | Administration | New Group × | | adn | ninistrat | or |
| 9 | 🚡 Save and Close | 🔊 Sort Member List | | | | |
| | GROUP | BlackBerryAdmins | | - | | - |
| | Basics Administr Basics: | ation | | _ | | |
| | Group name: | ^C BlackBerryAdmins_ | | | | |
| | Group type: | Multi-purpose 💵 💌 | | | | |
| | Description: | ^{II} Users who can add, remove, and modil BlackBerry user settings | fy | | | |
| | Members: | 🖥 Admin SQA 🗉 💌 | | | | |
| | | | | | | _ |
| | | ^ | | | Office | |

28 Setup and installation — Creating the BlackBerryAdmins group

Setup and installation — Creating the BlackBerryAdmins group 29

- 5. Select the **Administration** tab.
 - In the **Owners** field, type the names of the users who are allowed to change the group membership.
 - In the **Administrators** field, type the users who are allowed to edit the Group document.
 - In the **Foreign directory sync allowed** field, select **Yes** to enable the group to be copied to foreign directories during synchronization.

| | Administration | BlackBerryAdmins | × administra | ator |
|---|-----------------------|----------------------------------|---------------------------------|----------------|
| 9 | Save and Close | 🔊 Sort Member Lis | | |
| A | GROUP: B | lackBerryAd | nins | <u> </u> |
| _ | | | | |
| | Basics Administration | | | |
| | Administration | | | |
| | Owners: | ₽Ådmin SQA/SQA | | |
| | Administrators: | ⊿ ^{Ir} Admin SQA/SQA | | |
| | Eoreian directoru | I TYes I | | |
| | sync allowed: | 1002 | | - |
| | Distinguishe | d names of peop | le allowed to modify the group. | |
| | ^ ^ | ^ | ^ ⊶⊃ Office | ^ <u>```</u> ^ |

6. Select **Save and Close**. The BlackBerryAdmins Group will appear in the Name and Address Book (Domino Directory) on the local Lotus Domino Server.

30 Setup and installation — Adding administrators to the BlackBerryAdmins

Adding administrators to the BlackBerryAdmins group

After you installed the BlackBerry Enterprise Server, you created a special Group called the BlackBerryAdmins Group and added it to the Name and Address Book (Domino Directory) on the local Lotus Domino Server. This Group is used to control access to the BlackBerry user accounts and inbound and outbound queue databases. The BlackBerryAdmins Group administrators can access only those databases needed to run and administer the BlackBerry Enterprise Server software.

To add more administrators

- 1. From the Notes Client on the BlackBerry Enterprise Server, open the Name and Address Book (Domino Directory).
- 2. Select the Groups view, then select BlackBerryAdmins.
- 3. Click **Edit Group**, and then add the users that will be Administrators for the BlackBerry Enterprise Server.
- 4. Add the LocalDomainServer group. Ensure that the Lotus Domino server that has the BES add-in task is already in the LocalDomainServer's group.

Setup and installation — Starting the server add-in task 31

Starting the server add-in task

Once the server has been created, and the BlackBerryAdmins group added, start the BlackBerry Enterprise Server.

In the Lotus Server Console on the BlackBerry Enterprise Server machine, type **load BES** or restart the Lotus Domino server. Since the BlackBerry Enterprise Server is an add-in task to the Lotus Domino Server, the Notes.ini file has been modified to include a startup task called BES. This service supplies email redirection.

Changing the polling interval

The Polling Interval value determines how often the BlackBerry Enterprise Server will scan each user's mailbox for new mail. The lower the value, the more often scanning will occur. A very low value will place an added load on system resources. The default value is 20 seconds. You can change the value in the Notes.INI file or using BESAdmin. You must restart the BES add-in task for the change to take effect.

Resolving Connection Errors

Use the suggestions below to resolve connection errors if the srptest portion of your installation fails.

Error code 10060

Error code 10060 generates these messages:

"C:\>bbsrptest *srp host*" "Attempting to connect to *srp host* (206.51.26.33), port 3101" "connect() failed: error code = 10060"

Error code 10060 indicates that the connect request is not being answered, or that the firewall has lost the connection request. Error 10060 is a timeout error.

If your firewall has been configured to proxy connections on port 3101 to *srp host*, try using the proxy to connect. To do this you must know the internal IP address of the firewall or the proxy server through which you are trying to send the request. For example, if the IP address of the firewall/proxy server is 192.168.0.1, you would type:

bbsrptest 192.168.0.1

The program will try to connect to *srp host*. You should see the following response:

"Attempting to connect to 192.168.0.1 (192.168.0.1), port 3101"

- "Sending test packet"
- "Waiting for response"
- "Receiving response"
- "Checking response"
- "Successful"

Once you receive the "Successful" message, you are ready to begin your installation.

Error code 10061

Error code 10061 generates this message: "connect() failed: error code = 10061"

Error code 10061 indicates that the connection was refused. Either the SRP server is not running, or more likely, the firewall prevented the connection from being completed.

To resolve this error, check with your firewall administrator to ensure that an outbound connection from the machine you are using to *srp host* on port 3101 is allowed.

Connection lost

The "connection lost" error generates this message: "recv(): connection lost."

Setup and installation — Uninstalling the software 33

This message indicates that the connection was broken by the firewall or proxy before the test program could connect with the SRP server.

To resolve this error, check with your firewall administrator to ensure that an outbound connection from the machine you are using to *srp host* on port 3101 is allowed.

Error code 11001

Error code 11001 generates this message: "Connect () failed: error code = 11001."

Error code 11001 indicates that the DNS cannot locate the *SRP Host* address.

To resolve this error, ensure that your DNS settings are correct on the machine you are using, then open the Command prompt and type:

ping SRP HOST.

You should receive an IP resolution on the name. If you do not, your DNS settings must be corrected. (The ping will not be returned. This is normal.)

Uninstalling the software

To uninstall the BlackBerry Enterprise Server, follow these steps.

- 1. From the Lotus Domino Server console screen, type: tell BES Quit
- Uninstall the Blackberry Enterprise Server by selecting Start> Settings> Control Panel> Add/Remove Programs. An Add/ Remove window appears.

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 - 3. In the Add/Remove Programs Properties window, select **BlackBerry Enterprise Server for Lotus Domino** and click **Add/Remove**. A Confirm File Deletion dialog appears.

| Add/Remove Programs Properties | | | | | | |
|---|---|--------|--------|--|--|--|
| Install/Uninstal | Install/Uninstall Windows NT Setup | | | | | |
| | I o install a new program from a floppy disk or CD-HUM drive, click Install. | | | | | |
| | | | nstall | | | |
| Wi Col Ad | The following software can be automatically removed by Windows. To remove a program or to modify its installed components, select it from the list and click Add/Remove. | | | | | |
| ATI Display BlackBerry B | ATI Display Driver BlackBerry Enterprise Server for Lotus Domino | | | | | |
| Lotus Notes Microsoft Internet Explorer 5.5 and Internet Tools | | | | | | |
| Microsoft Outlook Express 5 Microsoft Windows Media Player 6.4 | | | | | | |
| Windows NT 4.0 Service Fack 6 WinVNC 3.3.3 | | | | | | |
| · · | | | | | | |
| Add/ <u>R</u> emove | | | | | | |
| | OK | Cancel | Apply | | | |

4. Click **OK** to remove the BlackBerry Enterprise Server software.



BlackBerry Enterprise Server Software for Lotus Domino

Setup and installation — Uninstalling the software 35

5. A confirmation window will appear when all programs have been successfully removed.



Note Uninstalling the application does not remove the user configuration and message queue databases. If you wish to remove these as well, these items can be found in the BES folder in the Lotus Domino Server's data directory.
3

Administration tasks

You can perform user- and handheld-oriented administrative functions through the BESAdmin utility. This tool was installed if you selected **Utilities** during installation.

Note If the Utilities were not selected during installation, you can go back to the installation procedure and install the utilities without having to re-install the service.

Opening the BESAdmin window

The install process placed a file named BESAdmin.exe in the folder \Program Files\Research In Motion\BlackBerry Enterprise Server. There are several ways to start this file: by creating and launching a shortcut, by using a quicklaunch, by using Windows explorer, or by clicking **Start> Program Files> BlackBerry Enterprise Server for Lotus Domino> BlackBerry Server Management**. Starting this file will establish your connection to the BlackBerry Enterprise Server (or servers, if you are using more than one).

To open the BESAdmin window

 In the BlackBerry Enterprise Server main menu, click File> Connect. The Adding BES for Domino Server dialog box appears.

- Ele View Lools Help

 Connect

 Discorrect

 Print Setup...

 1 \\Grus

 2 \\grus

 Exit
- 2. In the dialog box, type the common name or NETBIOS name of the server to which you want to connect (for example, *Server1*, where the full server name is *Server1*/Server/BlackBerry).. Click **OK**. You will be prompted for a password.

| Adding BES for Domino Server | | | | |
|------------------------------|--|--|--|--|
| | | | | |
| ;i | | | | |
| | | | | |
| 1 | | | | |

The BESAdmin window appears. You are now able to administer users.

BlackBerry Enterprise Server Software for Lotus Domino

38 Administration tasks — Opening the BESAdmin window

📇 \\ser v1 <u>- | | ×</u> Users: 4 User Name Add to Server PIN In Cradle Enabled User Name CN=Admin SQA/O=Sqa2K CN=Sarah Hanes/O=SQA CN=Joe Long/O=SQA CN=Bert Lo/O=SQA N/A No Yes 5678910 No Yes 1234567 No Yes N/A No Yes Move User Send <u>M</u>essage Statistics Messages Forwarded: Last Time In Cradle: Messages Filtered: Last Mailbox Scan: Messages Received: Last Handheld Contact: Messages Pending: Last Forwarded: Messages Sent from Handheld: Last Expired: Messages Expired: Last Key Date: Errors <u>C</u>lear Stats

Administration tasks — Connecting a handheld to the cradle 39

Connecting a handheld to the cradle

System administrators can use the cradle to add users, assign PIN numbers, and generate encryption keys.

Note Please ensure that you use only the cradle provided by Research In Motion.

40 Administration tasks — Connecting a handheld to the cradle

To connect the handheld

1. Connect the cradle cable to the COM port on the machine running BESAdmin.



Secure the pager-sized handheld in the cradle by inserting the connector port on the bottom edge of the handheld into the connector prongs of the cradle. Then click the top of the handheld into the cradle.



Secure the palm-sized handheld in the cradle by inserting the connector port on the bottom edge of the handheld into the connector prongs of the cradle and press firmly in place.

- 2. In the BESAdmin window, click **Tools**. Click **Settings** to open the Settings window.
- 3. The Settings window will show you the COM port being used to connect the cradle. Click **Detect**. You will receive the following message: "Please ensure your handheld is securely connected." Click **OK**.
- 4. When the handheld is detected, you will see a message similar to "Located a handheld device attached to your computer on COM1." Click OK to close the message and OK again to close the Settings window.
 - Note If the machine cannot detect the handheld on a COM (serial) port, the message "Unable to locate a handheld device attached to your computer" will appear. Check that the handheld and cradle cable both appear to be connected securely. If the error message still appears, ensure that no other devices are sharing the serial port.

Administration tasks — Adding users 41

Removing a handheld from the cradle



To remove the pager-sized handheld from the cradle, brace the bottom of the cradle with one hand and gently pull the top of the handheld towards you.



To remove the palm-sized handheld from the charging cradle, brace the bottom of the cradle with one hand and gently pull the handheld up out of the cradle.

Adding users

One of the BESAdmin tool's primary functions is to add a handheld to a BlackBerry Enterprise Server. You can add a user with or without a personal identification number (PIN). To add a user and a PIN at the same time, see "Adding a user and a PIN" on page 42.

Note Users must be registered on the Lotus Domino Server before they can be added to the BlackBerry Enterprise Server. Refer to your Lotus Domino documentation for details on user registration.

To add a user

- 1. In the BESAdmin window for the appropriate BlackBerry Enterprise Server, click **Add to Server**. A list of all users in the default Name and Address Book (Domino Directory) will appear. (This directory contains the names of registered Lotus Notes users.)
 - Note For email redirection to function properly, the Lotus Domino Server that has the BES add-in task must have the Server-Manager- and Delete-permissions in the Access Control List (ACL) of the users' mail file.

42 Administration tasks — Adding users

| Add User | x |
|------------------------------------|---------------|
| Users on Notes Server: | |
| CN=Admin/0=SQA CN=JoeLong/0=SQA | |
| CN=Sarah Hanes/0=SOA | |
| CIT-Delt LOVO-SQA | |
| | |
| | |
| | |
| | |
| Show users with handhe | elas |
| Handheld PIN: | |
| UserName: CN=Sarah | n Hanes/O=SQA |
| OK | Cancel |

2. Select the name of the user to be added and click **OK**. You will see a "successfully added" message. Click **OK** to close the message.

Adding a user and a PIN

You can attribute the handheld's PIN to a specific user when you add the user to the BlackBerry Enterprise Server. If you haven't already done so, connect the cradle to a COM port at the PC, ensuring that it has been detected by the server. (For details, see "Connecting a handheld to the cradle" on page 39.)

- Note Users must be registered on the Lotus Domino Server before they can be added to the BlackBerry Enterprise Server. Refer to your Lotus Domino documentation for details on user registration.
- 1. In the BESAdmin window for the appropriate BlackBerry Enterprise Server, click **Add to Server**. A list of registered Lotus Notes users appears.

Administration tasks — Adding users 43

- 2. Place the user's handheld in the cradle. The server will detect the handheld and automatically add the PIN to the Handheld PIN field.
 - Note While the BESAdmin is running, ensure that the BlackBerry Desktop Manager is not running on the same machine.

| Add User X |
|---------------------------|
| Users on Notes Server: |
| CN=JoeLong/0=SQA |
| CN=Bert Lo/O=SQA |
| |
| |
| |
| |
| |
| Show users with handhelds |
| Handheld PIN: 1234567 |
| UserName: |
| 0K Cancel |

- 3. Select the name of the user to be added and click **OK**. A dialog box appears asking if you would like to generate an encryption key for the handheld. Click **Yes**.
- 4. You will be prompted to generate an encryption key. Move the mouse as requested. You will receive a "successfully added" message. Click **OK** to close the message. The handheld is now ready to use.

Note If the user's name is identified as a previous BlackBerry user, you will not need to update the encryption key.

44 Administration tasks — Enabling and disabling a handheld

Enabling and disabling a handheld

The BlackBerry Enterprise Server lets you disable or enable a handheld without actually removing that user from the server. You may want to use this function if, for example, a user is traveling out of coverage for an extended period and does not want any messages forwarded to the handheld during that time. Instead of removing the user from the server, you can disable that particular handheld while the user is out of coverage and enable the handheld when the user returns to an area with coverage.

To enable a handheld

- 1. In the BESAdmin window, select the BlackBerry Enterprise Server where the user is enabled.
- 2. Select the user. Click **Enable User** to activate the user's handheld for email redirection.

| | 🗏 \\ ser v1 | | | | |
|----|-------------------|--------------------|-----------|------------|----------------------|
| | Users: 4 | | | | |
| II | User Name | PIN | In Cradle | Enabled | Add to Server |
| | CN=Admin/O=SQA | 2345678 1234567 | No No | Yes Yes | Edit |
| | CN=Alan Quo/0=SQA | N/A | No | No | |
| | | | | | Move User |
| | | | | | Enable User |
| | | | | | Disable User |
| | | | | | |
| II | | | | | Send <u>M</u> essage |
| | | | | | Purge Pending |
| | | | | | Clear In-Cradle |
| | , | | | | |

3. You will be asked for confirmation. Click **Yes**. The Enabled column for the user changes from No to Yes.

Administration tasks — Enabling and disabling a handheld 45

To disable a handheld

- 1. In the BESAdmin window, select the BlackBerry Enterprise Server where the user is enabled.
- 2. Select the user. Click **Disable User** to prevent email from being forwarded to the user's handheld.
- 3. You will be asked for confirmation. Click **Yes**. The Enabled column for the user changes from Yes to No and the icon in the User Name column changes.

| User Name | PIN | In Cradle | Enabled | Add to Server |
|------------------------|---------|-----------|---------|----------------------|
| 🖬 CN=Admin SQA/O=Sqa2K | N/A | No | Yes | Edit |
| CN=Alan Quo/O=SQA | N/A | No | No | |
| CN=JoeLong/O=SQA | 1234567 | No | No | |
| | | | | <u>M</u> ove User |
| | | | | Enabled leer |
| | | | | Disable User |
| | | | | 2,000,0000 |
| | | | | Send <u>M</u> essage |
| | | | | Purge Pending |
| | | | | Purge Pendir |
| | | | | Clear In-Cradie |

46 Administration tasks — Purging pending messages

To remove a user

You can remove a user from a BlackBerry Enterprise Server using the BESAdmin tool.

- 1. In the BESAdmin window, select the BlackBerry Enterprise Server where the user is registered.
- 2. Select the user. Click **Remove from Server** to remove all of the user's BlackBerry information.
- 3. You will be asked for confirmation. Click **Yes**. The user is removed from the BESAdmin window and you receive a "successfully removed" message. Click **OK** to close the message.

WARNING Once a user is removed, the user's encryption key, filters and statistics are permanently deleted.

Purging pending messages

Some situations may arise where it is necessary for you to purge any messages that are pending to a particular handheld.

To purge all messages

- 1. In the BESAdmin window, select the BlackBerry Enterprise Server where the user is registered. Select the user, and click **Purge Pending**.
- You will be asked for confirmation. Click Yes. The messages waiting to be sent to that handheld are removed from the local queue, although they will still appear in the user's Inbox. (Messages already waiting on the wireless network will be not be purged.) You will receive a "cleared pending messages" notification. Click OK to close the message.

Administration tasks — Generating encryption keys 47

Clearing in-cradle status

By default, email will not be redirected to the handheld as long as it is in the cradle. Occasionally, an interruption in network communications may prevent the BlackBerry Desktop Manager from clearing the in-cradle status after the handheld has been removed from the cradle. If this happens, messages will not be forwarded to your handheld until you clear the in-cradle status.

- 1. In the BESAdmin window, select the BlackBerry Enterprise Server on which the user is registered.
- 2. Select the user. Click **Clear In-Cradle**. You will be asked to confirm your request. Click **Yes**. The status in the In-Cradle column changes to No for the user and email redirection resumes.

Generating encryption keys

In the BlackBerry encryption model, only the handheld and the desktop know the encryption key. If the user does not have the BlackBerry Desktop Software installed, you can generate a key at the server level.

- 1. Insert the user's handheld into the cradle that is connected to the server. The status should change to Connected and the handheld's Personal Identification Number (PIN) will appear.
- 2. In the BESAdmin window, select the BlackBerry Enterprise Server on which the user is registered. Select the user, then click Edit/Generate.
- 3. The application will ask if you want to generate a new encryption key. Click **Yes**. The application will prompt you to move your mouse around to generate a new encryption key for the handheld. Move your mouse as requested.

48 Administration tasks — Monitoring email statistics

Monitoring email statistics

The BESAdmin tool reports on each user's email flow from server to handheld. The information in the Statistics fields lets you verify that the server is redirecting email properly.

To monitor statistics

- 1. In the BESAdmin window, select the BlackBerry Enterprise Server on which the user is registered.
- 2. Select the user. The user's statistics are shown at the bottom of the window.

| - Statistics | | |
|------------------------------|---------------------------|--------------------------|
| Messages Forwarded: | 13 Last Time In Cradle: | Never |
| Messages Filtered: | 0 Last Mailbox Scan: | Mon Jan 29 16:37:10 2001 |
| Messages Received: | 13 Last Handheld Contact: | Mon Jan 29 17:26:03 2001 |
| Messages Pending: | 0 Last Forwarded: | Mon Jan 29 17:22:24 2001 |
| Messages Sent from Handheld: | 37 Last Expired: | Never |
| Messages Expired: | 0 Last Key Date: | Mon Jan 29 12:28:25 2001 |
| Errors | 0 | <u>C</u> lear Stats |

Administration tasks — Reading the status fields 49

Reading the status fields

In the BESAdmin window, each user will have a set of properties (found in the Properties window). The BlackBerry tab in this window displays numbers, dates and times to indicate the stage and status of email for that user.

The following table explains the type of information displayed in each field.

| Field | Description |
|-----------------------------------|---|
| Messages Forwarded | The number of messages that have been forwarded to the handheld. This field is updated automatically as new messages are forwarded. The messages that are forwarded depend on the filters set by each user at the desktop. |
| Messages Filtered | The number of messages that were not sent to the handheld because of the filters enabled in the BlackBerry Desktop Manager. |
| Messages Received | The number of messages that have been received by the handheld. |
| Messages Pending | The number of messages being held until the handheld is turned on or returns to coverage. When the handheld is active again, the messages are sent. |
| Messages Sent from Handheld | The number of messages sent from the handheld. This field is updated automatically as new messages are sent |

| Messages Expired | Number of messages that have timed out on the wireless network. This usually occurs after 7 days. |
|--------------------------|---|
| Errors | Number of messages that failed to be delivered. |
| Last Time in Cradle | Last time the handheld was placed in the cradle. |
| Last Mailbox Scan | Date and time of the last new message in the Inbox that was forwarded to the wireless network. |
| Last Handheld Contact | The length of time that has passed since the last message was forwarded to the handheld. |
| Last Forwarded | Date and time that the last message was forwarded to the handheld |
| Last Expired | Date and time of last expired message |
| Last Key Date | Date and time last encryption key was generated. |

50 Administration tasks — Sending a message to one user

Sending a message to one user

If you wish to send an email message to any handheld user on a BlackBerry Enterprise Server, you can do so from the BESAdmin tool.

- 1. Ensure that you are connected to the server. In the BESAdmin window, select the BlackBerry Enterprise Server on which the user is registered. Select the user.
- 2. Click Send Message to open the Send Message window.

| Administration tasks — Ch | anging a user's har | dheld 5 |
|---------------------------|---------------------|---------|
|---------------------------|---------------------|---------|

| Send Message | × | 1 |
|------------------|------------------------|---|
| Send Message to: | CN=Alan Quo/O=SQA | |
| Subject: | new server | |
| Message: | goes online at 10 p.m. | |
| | OK Cancel | |

- 3. Type information into the **Subject** and **Message** fields of the window, and click **OK**. The message will be sent to the recipient's Inbox, and proceed to that person's handheld. You will receive a "successful" message. Click **OK** to close the message.
 - Tip You can send an All Points Bulletin from the BlackBerry Enterprise Server's Tools window. See page 58 for more information.

Changing a user's handheld

If the user receives a different handheld, you must register the new handheld's PIN for proper email redirection. If the user does not have access to the BlackBerry Desktop Manager, you must register the new handheld through the BESAdmin tool.

- 1. From the BESAdmin window, select the BlackBerry Enterprise Server on which the user is registered. Select the user.
- 2. Place the new handheld in the cradle, connected to the server. When the application detects the handheld, it will prompt you to confirm that you want to assign the new PIN to this user. Click Yes. The application will prompt you to generate a new encryption key by moving your mouse around the screen. Move your mouse as requested. You will receive a "successful" message when the new key has been generated. Click OK to close the message.

Viewing global statistics

You can view the combined statistics of all handhelds on a particular BlackBerry Enterprise Server.

To view global statistics

In the BESAdmin window, select **Tools > Global Statistics**. The Global Statistics window appears.

| Global Statistics | | x |
|--|------------------------|-------|
| Number of messages processed: Number of messages sent: Number of messages received: Number of messages filtered: Number of pending messages: Number of expired messages: Number of errors: | 10 4 6 0 0 | Clear |
| | | |

Viewing statistics by queue

You can view the combined statistics of all handhelds on a particular BlackBerry Enterprise Server organized by queue.

To view statistics by queue

In the Start menu, select **Programs** > **BlackBerry Enterprise Server for Lotus Domino** > **BlackBerry Server Monitor**. The BESMonitor window appears. If necessary, select the BlackBerry Enterprise Server to be monitored from the dropdown list in the **Server Name** field.

Note If the name of your server does not appear in the list, click **Add**. The Adding BES Server dialog box appears. Type the name of the server into the box and click **OK**.

| 1.45 | BESMonitor - DO | RADO | | | | _ 🗆 × |
|------|--|--|---|-----------------------------------|--------------------------------------|---|
| | Server Name: DO |)RADO | | • | <u>A</u> dd | <u>D</u> elete |
| | State: Last Started: Last reconnect: Ping delay: | connected Mon Jan 29 1 Mon Jan 29 1 | 4:30:50 200 4:30:54 200 | 01 01 | | <u>C</u> onfigure <u>M</u> inimize Exit |
| | Reconnects: | 0 | | | _ | |
| | Reconnects: Queue Name | 0 Status | Proces | Filtered | Errors | Pending |
| | Reconnects: Queue Name BESFromPager | 0 Status running | Proces 145 | Filtered 0 | Errors 0 | |
| | Reconnects: Queue Name BESFromPager BESIncoming | 0 Status running running | Proces 145 145 | Filtered 0 0 | Errors 0 0 | Pending 0 0 |
| | Reconnects: Queue Name BESFromPager BESIncoming BESOutgoing | 0 Status running running running | Proces 145 145 124 | Filtered 0 0 3 | | |
| | Reconnects: Queue Name BESFromPager BESIncoming BESOutgoing BESToPager | 0 Status running running running running | Proces 145 145 124 138 | Filtered 0 3 0 | Errors 0 0 0 0 0 | |
| | Reconnects: Queue Name BESFromPager BESIncoming BESOutgoing BESToPager SRP | 0 Status running running running running running | Proces 145 145 124 138 283 | Filtered 0 0 3 0 0 | - 0 0 0 0 0 0 0 | - |

Note If the name of your server does not appear in the dropdown list in the Server Name field, click **Add**. The Adding BES Server dialog box appears. Type the name of the server into the box and click **OK**.

To view Global Stats in Performance Monitor

Performance Monitor allows you to view dynamic global statistics. The statistics available in Performance Monitor are the same as those listed under "Viewing Global Statistics", but they also show the SRP connection state.

1. From the **Start** menu, select **Run**. In the **Open** field, type **perfmon** and click OK. The Performance window opens.



2. In the Perfmon tool bar, click the **Add** icon (a + sign). The Add Counters window opens.



BlackBerry Enterprise Server Software for Lotus Domino

- Administration tasks Viewing global statistics 55
- 3. In the Performance Object field, select **BlackBerry Server** from the drop-down list.

| Add Counters | <u>?</u> × |
|---|---|
| C Use local computer counters Select counters from computer: \\\HAPPY Performance object: BlackBerry Server | Add Close Explain |
| C All counters Select counters from list Connection State Messages Expired Messages Filtered Messages Buceived Messages Received Messages Received/min | All instances Select instances from list: |
| Explain Text - \\HAPPY\BlackBerry Number of Messages queued for delive | Server\Messages Queued Fo X ary(pending) to handhelds |

4. Either click **All Counters** or click **Select counters from list** to select individual counters from the drop-down list.

Note To see a description of each counter, click Explain. To remove a counter from those you are using, select the counter from the list at the bottom of the Performance window and press Delete on your keyboard.

To view Global Stats in SNMP

SNMP also allows you to view dynamic global statistics. The statistics that you can view in SNMP are the same as the ones listed under "Viewing Global Stats".

Viewing Global Stats in SNMP has the following requirements:

- an SNMP service running
- a third-party SNMP Browser that is capable of compiling the .mib file that is included in the installation package.

4

Server-level administration

You can administer tasks that affect all users from the BESAdmin window.

Adding handheld licenses

The License Manager tracks BlackBerry client licenses. Each time you open and exit the Add Users window, the License Manager will tell you if you require more licenses. Once you've purchased more licenses, you should use the License Manager to record the number of additional licences you have purchased.

- 1. In the BESAdmin window, connect to the appropriate server.
- 2. Click **Tools** and then click **License Manager** to open the License Manager window. Type the updated number of licenses in the User Licenses field and click **OK**.
- 3. You will receive a message: "You have changed the configuration of this server. Would you like to apply the changes to the server?" Click **Yes** to update your license information.

Server-level administration — Sending an All Points Bulletin 58

| Server Information | ? × |
|--------------------|--|
| Current Users: | 0 |
| User Licences: | 20 |
| Server UID: | \$969609 |
| Server Key: | 5mm6cmnq-5mm6-yaik5mm6v3h5mm6-8mt5-237y-5mm6 |



WARNING Some of the information in the Server Information window (such as the SRP information) is unique to your installation. Changing any of the information in the SRP Identifier or SRP Authentication fields changes the routing information for all users on the server and requires each user to generate a new encryption key.

Sending an All Points Bulletin

Use the All Points Bulletin (APB) feature to send an email message to multiple handheld users. You can choose to send your message to all users on a specific server, or to all users on all your BlackBerry Enterprise Servers.

- In the BESAdmin tool, select the BlackBerry Enterprise Server 1. associated with the message recipients.
- 2. Click Tools and then click APB. The Send Message window appears.

Note You can send a message to an individual handheld user from the BESAdmin window, by selecting the user and then selecting Message.

| ing an All Points Bulletin 59 |
|-------------------------------|
| d |

| Send Message | × | | | |
|------------------|--|--|--|--|
| Send Message to: | All Users | | | |
| Subject: | Server upgrade Saturday from 11:30 - 11:45 p.m | | | |
| Message: | Sorry for any inconvenience. | | | |
| | OK Cancel | | | |

3. Type information into the Subject and Message fields of the window and click **OK**. The message will be sent to the users associated with the server that you've specified.

5

BESMonitor and BESAlert

The BESMonitor program is installed automatically when you select Utilities during installation. This program can be installed on the BlackBerry Enterprise Server or on another computer, and can be used to monitor multiple BlackBerry Enterprise Servers.

By default, the BlackBerry Enterprise Server records significant events in the Notes Event Log under Miscellaneous Events. These events include errors, warnings, and various types of information levels.

The BESAlert tool watches the Windows NT Event Log, and can be configured to send you a copy of events whenever an error, warning or information event is recorded. Since registry settings can be used to determine the level of event to be recorded, these settings may also affect the operation of the BESAlert tool.

Checking server status

When BESMonitor is running, an icon appears in the Systray (lowerright of screen.) Holding your mouse over the icon displays the BlackBerry Enterprise Server status as a tooltip.

| lcon | Tooltip appearing with mouseover | Description |
|------|---|-------------------|
| °A° | BES Monitor [name of server]: connected | Server is running |

| lcon | Tooltip appearing with mouseover | Description |
|------------|--|---|
| A | BES Monitor [name of server]: disconnected | Server is running, but the SRP connection is down |
| I <u>A</u> | BES Monitor [name of server]: disabled | Server is not running |
| Note | For information on what to do | when your SRP connection is |

62 BESMonitor and BESAlert — Checking server status

For information on what to do when your SRP connection is lost or your server is not running, consult the FAQ chapter of this guide.

It is possible to monitor the BlackBerry Enterprise Server using the BESMonitor icons. If you double-click the icon, a dialog box opens to show the name of the server being monitored, its status, and its global statistics.

| 1986 | BESMonitor - D | ORADO | | | | _ 🗆 × |
|------|--|-----------|--------|----------|------------|------------------|
| | <u>S</u> erver Name: | ORADO | | • | <u></u> dd | Delete |
| | State: | connected | | | | Configure |
| | Last Started: Mon Jan 29 14:30:50 2001 Last reconnect: Mon Jan 29 14:30:54 2001 | | | | | <u>M</u> inimize |
| | Ping delay: | | | | | Exit |
| | Reconnects: | 0 | | | - | |
| | Queue Name | Status | Proces | Filtered | Errors | Pending |
| | BESFromPager | running | 145 | 0 | 0 | 0 |
| | BESIncoming | running | 145 | 0 | 0 | 0 |
| | BESOutgoing | running | 124 | 3 | 0 | 0 |
| | BESToPager | running | 138 | 0 | 0 | 0 |
| | SRP | running | 283 | 0 | 0 | 0 |
| | | | | | | |

BESMonitor and BESAlert — Configuring BESAlert 63

Configuring BESAlert

You can configure the BESAlert program to send you a copy of events whenever an Error, Warning or Information event (with event ID 5) is logged.

To configure BESAlert notifications

 To open the BESMonitor window, click Start > Programs > BlackBerry Enterprise Server for Lotus Domino > BlackBerry Server Monitor.

| BESMonitor - HAPP | Y | | | | _ 🗆 × |
|-------------------|--------------|--------|----------|--------|-----------|
| Server Name: HAP | PY | | • | Add | Delete |
| State: n | ot connecte | d | | | Configure |
| Last Started: N | /A | | | Ē | Minimize |
| Last reconnect: N | /A | | | _ | Minimize |
| Ping delay: n | ot ready yet | | | | Exit |
| Reconnects: 0 | | | | _ | |
| Queue Name | Status | Proces | Filtered | Errors | Pending |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

2. Click **Configure** to open the BESAlert Configuration window.



| BESAlert Configuration | x |
|-----------------------------|-------------------|
| Notification Account Name: | BESAlert@acme.com |
| Notification Host Name: | smtp.acme.com |
| Notification Login Name: | johnmemu |
| Default Notification Level: | Warning 💌 |
| Default Logging Level: | Informational |
| User Notification | |
| John McMu | Add |
| | |
| | |
| | Delete |
| | |
| OK | Cancel Help |

64 BESMonitor and BESAlert — Configuring BESAlert

- 3. In the **Notification Account Name** field, type the full SMTP address from which the BESAlert messages will be sent (for example, BESAlert@acme.com).
- 4. In the **Notification Host Name** field, type the name of the machine on which the SMTP server is running (for example, smtp.acme.com).
- 5. Some servers require a Windows NT account name (in addition to an SMTP address and a machine name) to be able to send BESAlert messages. Type the Windows NT account name into the Notification Login Name field if your server requires it. (For example, type the name you use to log into your Windows NT machine.)
- 6. Each significant event that is logged and sent to administrators can be sent to multiple destinations. The **User Notification**

BESMonitor and BESAlert — Configuring BESAlert 65

section lists the destinations or users who will receive these event reports. To add new names to the User Notification list, click **Add**; to update names currently in the User Notification list, click **Edit**. The User Configuration window appears.

| User Configuration | × |
|-------------------------------|---|
| Name : John McMu | |
| Email address: imcmu@acme.com | |
| Console name: | - |
| Notification Level: Default | - |
| OK Cancel | |

- 7. In the **Name** field, type the user or machine name as you'd like it to appear in the User Notification list (a simple alias is sufficient).
- 8. Each destination in the list can have an associated email address, a popup console specification, or both. In the **Email address** field, type the destination email address to be used when sending notifications to this particular user.
- 9. In the **Console name** field, type the name of the machine on which the popup message is to be displayed. Click **OK** to close the window.
- If necessary, repeat steps 6-9 to add more names to the User Notification list. Click OK to close the BESAlert Configuration Window.

6

Frequently asked questions

For additional support:

- Email: support@blackberry.net
- Phone: 1-887-255-2377 (U.S. and Canada)
- Web: www.blackberry.net (for general information about the BlackBerry Wireless Email Solution)

What should I do when the BESMonitor status shows "SRP Connection Down".

Symptoms

The BESMonitor icon in the Windows SysTray indicates that BlackBerry Enterprise Server status is SRP Connection Down.

Problem

While the BlackBerry Enterprise Server is running, the SRP (the link to the wireless network) is disconnected.

Solution

You should check that DNS is set up properly on the server machine. It may not be able to resolve or find SRP HOST (indicated in italics because the value is variable), which is the Network Address Node specified during installation. To find out where the connection process is failing, run the BBSRPTEST utility.

68 Frequently asked questions

- 1. Copy bbsrptest.exe to the machine that is running BlackBerry Enterprise Server.
- 2. Open a command prompt and run the program with one additional parameter: bbsrptest srphostname. (Refer to your Installation Check List on page 11, under "SRP Host" for your hostname information.) The utility will read the settings from the registry and attempt to connect to the SRP host server.

What you should see is:

• Attempting to connect to *srp host (IP Address)*, port 3101 Successful

where *srp host* and *IP Address* are indicated in italics because the values are variable; see the label on your installation CD for the correct SRP Host value and IP Address.

You may see one of the following messages instead:

• gethostbyname() failed for name *srp host* error code = 11001

This message indicates a configuration problem on your machine, as it is unable to look up the *SRP host* server's name. Error 11001 means name not found.

• connect() failed: error code = 10060

This message indicates that the connection request is not being answered, or that the firewall "lost" the connection request. Error 10060 means a timeout.

• connect() failed: error code = 10061

This message indicates that the connection was refused; either the *SRP host* server is not running or the firewall prevented the connection from going through. Error 10061 means that the connection was refused.

• recv(): connection lost

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This message indicates that the connection was broken (by the firewall or proxy) before the test program could connect to the *SRP host* server. The error code that is listed is the Winsock error code.

Why isn't this laptop user's handheld receiving messages?

Symptoms

The laptop user's handheld has not received email messages since the laptop was last connected to the LAN.

Problem

If the user is running BlackBerry Desktop Software on a laptop connected to a LAN, and the handheld is connected to the laptop, the user must exit the BlackBerry Desktop Manager before disconnecting the laptop from the LAN.

If the user does not remove the handheld from the cradle (or exit the Desktop Manager) before disconnecting the laptop from the LAN, the server will not be notified that the handheld is no longer in the cradle. Therefore, if the "don't forward messages while the handheld is in the cradle" option is turned on, no email will be forwarded to the handheld as the server believes it is still in the cradle.

Solution

Instruct the user to connect to the LAN again. Start the BlackBerry Desktop Manager and connect the handheld to the PC. Then remove the handheld from the cradle and exit the BlackBerry Desktop Manager.

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