BlackBerry Enterprise Server 4.1 for Microsoft Exchange
Standard Installation Requirements (v1.2)

Note: Installation Requirements for a standard BES setup (without Mobile Data System) with all components running on a single server, with exception of BlackBerry Configuration Database on SQL Server. If you wish to have more detailed information, install components on a separate server, or install extra components, please consult the BES 4.1 Installation Guide. Consider any impacts on system resources when deciding where to install a component.

Environment

Component		Requirement
Mail environment	☐	• Microsoft Exchange 5.5 SP4 or later mail server environment *and/or* • Microsoft Exchange 2000 SP2 or later mail server environment *and/or* • Microsoft Exchange 2003 mail server environment
		BlackBerry Enterprise Server is in the same Microsoft Exchange domain as your mail server
Firewall	☐	The firewall settings must allow the BlackBerry Enterprise Server computer to initiate a bidirectional TCP/IP connection on port 3101 to an external server srp.eu.blackberry.net
	☐	Your corporate firewall must be able to resolve Internet addresses using the Domain Name System (DNS)
Local Area Network	☐	• Do not put the BlackBerry Enterprise Server in the DMZ • Do not put a firewall between the Exchange server environment and the BlackBerry Enterprise Server

BlackBerry Server Hardware: dedicated server provided by customer

Maximum users		Minimum required hardware and configuration	Recommended hardware and configuration
200	☐	• Intel® Pentium® III processor (1.4 GHz or higher) • 1.5 GB RAM • MSDE 2000 on the same computer • 10 GB disk space in addition to Windows requirements	• Intel® Pentium® III processor (1.4 GHz or higher) • 1.5 GB RAM • MSDE 2000 on the same computer • 20 GB disk space in addition to Windows requirements
500	☐	• Intel® Pentium® IV processor (2 GHz or higher) • 1.5 GB RAM • MSDE 2000 on the same computer • 60 GB disk space in addition to Windows requirements	same
1000	☐	• Intel Pentium IV dual processor (2 GHz or higher) • 2 GB RAM • MSDE 2000 on the same computer • 60 GB disk space in addition to Windows requirements	• Intel Pentium IV dual processor (2 GHz or higher) • 1.5 GB RAM • Microsoft SQL (2000SP3a or 2005) on a separate server • 60 GB disk space in addition to Windows requirements
2000	☐	• Intel Pentium IV dual processor (2.8 GHz or higher) • 2 GB RAM • Microsoft SQL (2000SP3a or 2005) on a separate server • 60 GB disk space in addition to Windows requirements	Same

Notes: For systems running more than 1000 users, Research In Motion recommends that you install Microsoft SQL Server on a separate computer. Installing Microsoft SQL Server on a separate computer reduces the memory requirement on the BlackBerry Enterprise Server.

BlackBerry Server Software

Component		Requirement	
Software	☐	**Operating system**	**Microsoft Exchange management**
		Microsoft Windows® 2000 Service Pack 4 (Server or Advanced Server editions)	Dependant on mail environment: • Microsoft Exchange 5.5. System Administrator *or* • Microsoft Exchange 2000 System Manager *or* • Microsoft Exchange 2003 System Manager
			No Microsoft Exchange installed
	☐	Microsoft Windows Server 2003 (SP1 required for MS Windows Messenger support)	• Microsoft Exchange 2003 messaging server environment • Microsoft Exchange 2003 System Manager
			No Microsoft Exchange installed
	☐	Any Microsoft Exchange Service Packs that are installed on your mail server must also be installed on the BlackBerry Enterprise Server computer	
	☐	Microsoft Outlook® must not be installed on the computer on which you install the BlackBerry Enterprise Server	
	☐	Terminal Services: Windows Server 2003: Do not install; select Remote Desktop mode on the System Properties Remote tab. Windows Server 2000: If installed, select Remote Administration mode. Warning: Application Server mode is not recommended. Additional screens will appear during the BlackBerry Enterprise Server installation and might cause unpredictable results.	
		Various	
	☐	Microsoft Internet Explorer 6.0 or later Note: The online Help requires Microsoft Internet Explorer 4.0 or later with Java or JavaScript. enabled as the default system browser	
	☐	Configuration information for the BlackBerry Enterprise Server is stored in a Microsoft-compliant database. One of these database engines must be installed and available to the computer on which you are installing the BlackBerry Enterprise Server: • MSDE 2000 • SQL Server 2000 • SQL 2005 (Professional, Enterprise or Express) Note: During installation, if an existing SQL Server 2000 instance is not already available, then MSDE 2000 is installed. Note: If you are installing BlackBerry MDS Services you cannot use MS SQL Server 2005 Express as your Database program	
	☐	Microsoft Data Access Components (MDAC) 2.8 with security patch MC04-003 or Microsoft Data Access Components (MDAC) 2.8 SP2 (only shipped with Windows Server 2003 SP1) has to be installed on the computer where the BlackBerry Configuration Database is installed	
Permissions on service account		**Database**	
	☐	To create a new database: • SQL Server role: serveradmin • Database role: db_create To populate a new, empty database during install: • SQL Server role: serveradmin • Database role: db_owner	

		Windows
	☐	A Service Account must be created with the following permissions: • Log on as a service • Local administrator
		Exchange
	☐	The Service Account needs to have a mailbox and the following rights within Exchange: • Microsoft Exchange 5.5: Service Account Admin • Microsoft Exchange 2000/2003: View Only Administrator • Microsoft Exchange 2000/2003: Administer Information store, Send as, and Receive as