BlackBerry Enterprise Server 4.1 for IBM Lotus Domino
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 or DB2. 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
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 mail server environment and the BlackBerry Enterprise Server • During installation read/write permission are needed on the notes.ini file

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) • 2 GB RAM • MSDE 2000 on the same computer • 60 GB disk space in addition to Domino requirements	same
1000	☐	• Intel Pentium IV dual processor (2 GHz or higher) • 3 GB RAM • MSDE 2000 on the same computer • 60 GB disk space in addition to Domino requirements	• Intel Pentium IV dual processor (2 GHz or higher) • 2 GB RAM • Microsoft SQL (2000SP3a or 2005) or DB2 UDB v 8.2 on a separate server • 60 GB disk space in addition to Domino requirements
2000	☐	• Intel Pentium IV dual processor (2.8 GHz or higher) • 3 GB RAM • Microsoft SQL (2000SP3a or 2005) DB2 UDB v 8.2 on a separate server • 60 GB disk space in addition to Domino requirements	same

Note: 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 Windows 2000 (Server or Advanced Server editions) or Microsoft Windows Server. 2003 +
		• IBM® Lotus® Domino® server version 5.0.3 or later (5.0.12 or later recommended) or
		• IBM Lotus Domino server version 6.0.1 CF2 or later or
		• IBM Lotus Domino server version 6.5 or later
		• IBM Lotus Domino server version 7 (required to support encrypted message display)
		If roaming User to support PIM synchronization: IBM Lotus Domino server version 6.5.1
	☐	The IBM® Lotus Notes® client software must not be installed on the computer on which the BlackBerry Enterprise Server is installed
	☐	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 SP3a • SQL Server 2005 (Proffesional , Enterprise or Express) • DB2 UDB (Express or Enterprise) 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 Note: If you are using DB2 UDB, do not install the database program on a mainframe computer
	☐	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
IBM Lotus Domino Infrastructure	☐	• Verify that the IBM Lotus Domino messaging server and the IBM Lotus Notes client software is version 5.0.3 or later (5.0.12 or later is recommended) • For Read/Unread support the IBM Lotus Domino server version 6.0 or later must be installed on the messaging server • The IBM Lotus Domino server on which the BlackBerry Enterprise Server is installed must be a member of the LocalDomainServers group • The IBM Lotus Domino server on which the BlackBerry Enterprise Server is installed has permission to run agents • If the BlackBerry Enterprise Server is installed on an IBM Lotus Domino server version 6.0 or later, the IBM Lotus Domino server must be installed with the primary Domino Directory option • The BlackBerry Enterprise Server may not be installed on a partitioned IBM Lotus Domino server
Multi-domain Infrastructure	☐	• The IBM Lotus Domino server on which the BlackBerry Enterprise Server is installed must contain connection documents from the IBM Lotus Domino servers in other domains from which it will replicate

		• The IBM Lotus Domino server on which the BlackBerry Enterprise Server is installed must have directory assistance enabled for every other domain. • To provide access control, the IBM Lotus Domino server on which the BlackBerry Enterprise Server is installed should be a member of the LocalDomainServers group in every other domain. Note: If you choose alternate access control arrangements, the minimum requirements are read access to the Domino Directory and read/write access to the mail files. • Cross certification, at either a per-server or per-organization level, must be established between the IBM Lotus Domino server on which the BlackBerry Enterprise Server is installed and the messaging and directory servers in other domains.
Permissions	☐	**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
	☐	**BlackBerry Configuration Panel** • Windows: administration account used during installation • SQL Server role: serveradmin • Database role: db_owner
	☐	**BlackBerry Manager** • Windows: administration account used during installation • IBM Lotus Domino: local user ID file that is a member of BlackBerryAdmins group • Database role: rim_db_bes_server