Migrating BES 4.0 to 4.1

Update Briefing

BES4.1
Agenda

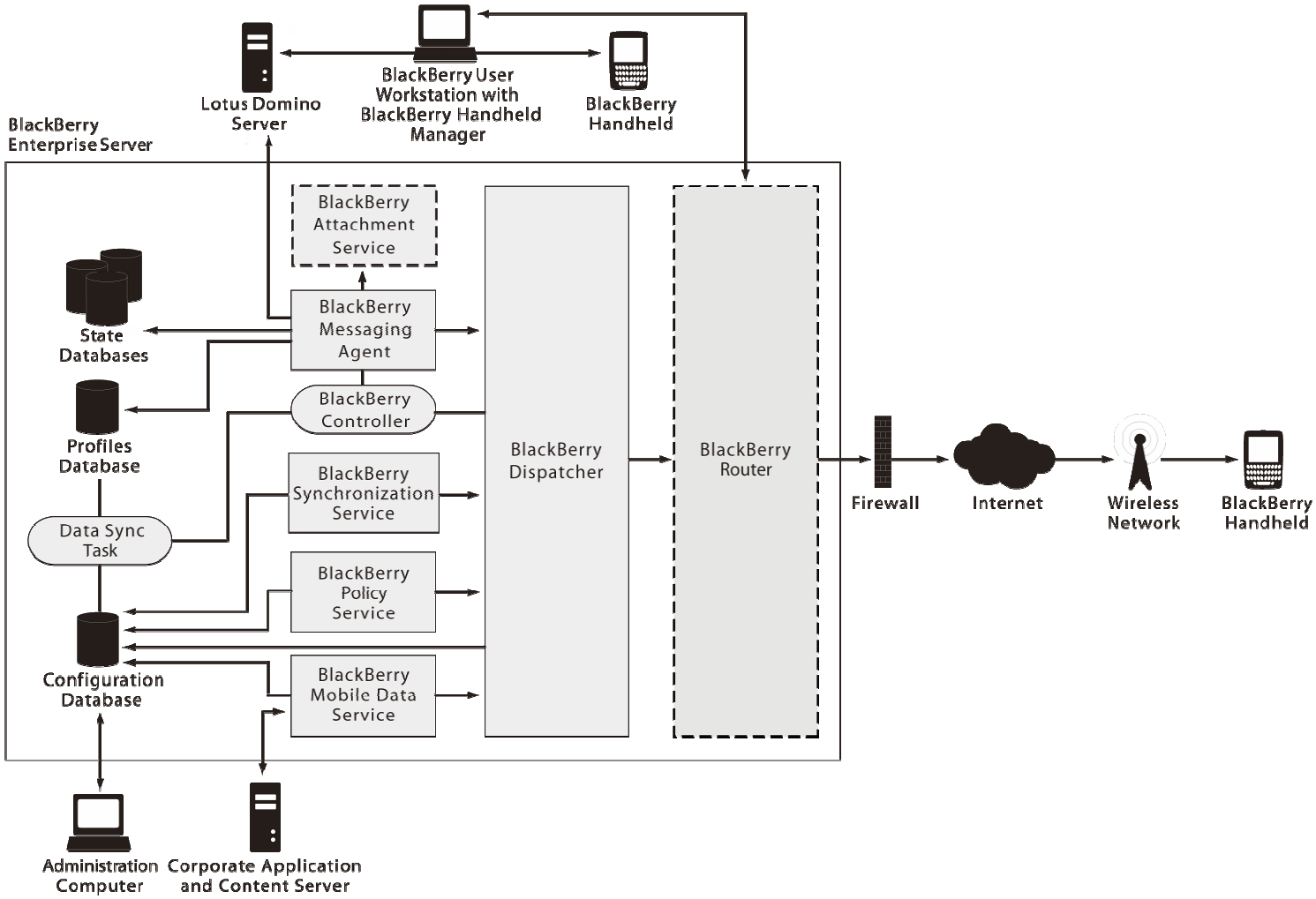
- Quick overview of changes
- Overview of Components
- New Services
- Remote components
- Admin console features
- Instant Messaging
- Questions?

BES 4.1 Overview

- Easier to Manage and Support
    - Improved Common Administration Console for all Microsoft® Exchange, IBM® Lotus® Domino® and Novell® GroupWise® based on the BlackBerry Enterprise Server v4.0 for Domino UI
    - Support for Multiple Administrator Roles
    - Group-based Administration
    - Support for DB2
- Enterprise Instant Messaging
- Mobile Data Service Enhancements
    - Backend RSA integration with MDS for authentication
    - Support for Mobile Web Services
        - A Visual Design Tool for Forms-based Wireless Applications

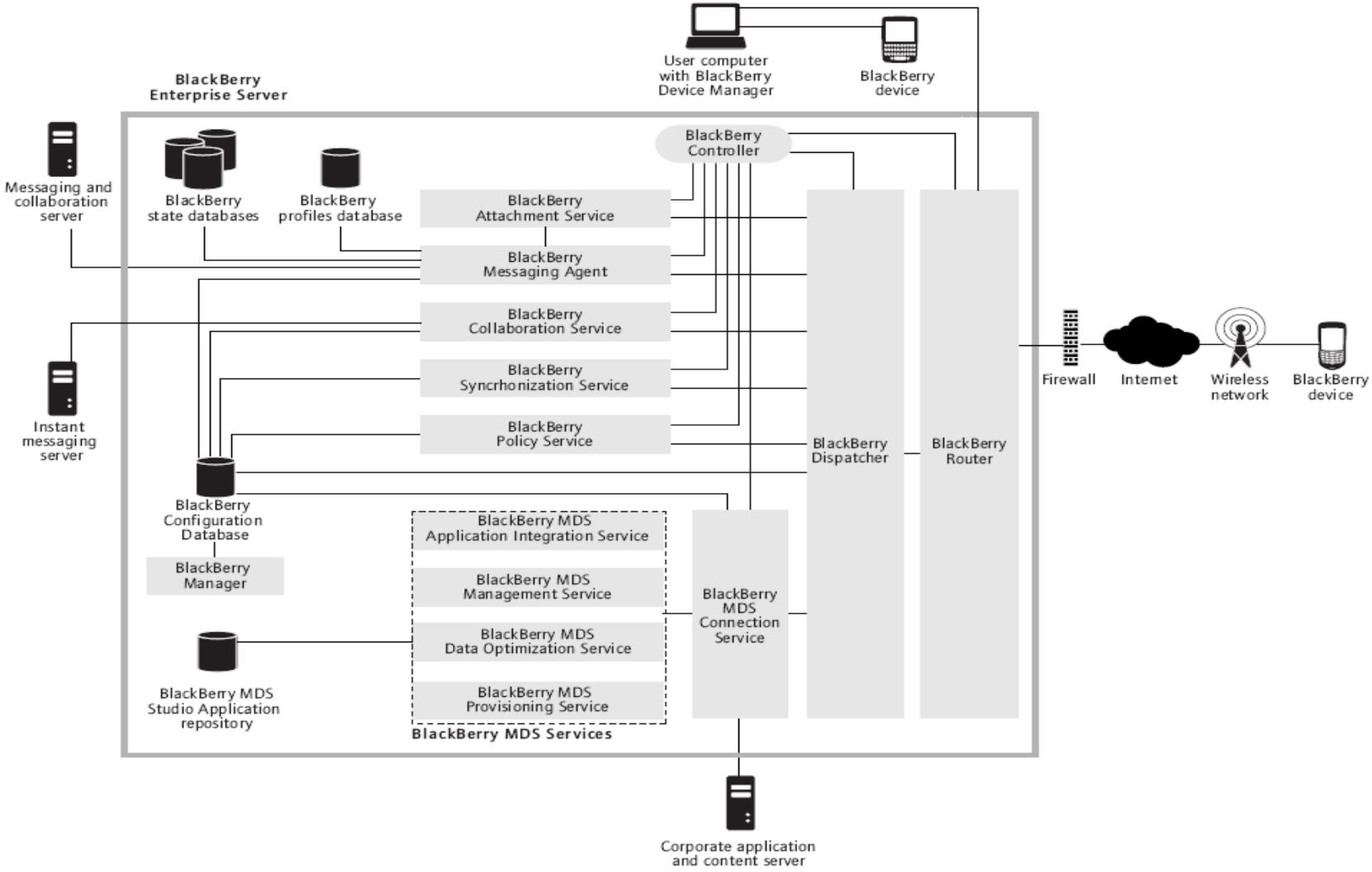
Domino BES 4.0

BlackBerry Enterprise Server Architecture



What is the BlackBerry Enterprise Solution?

One BlackBerry Platform…

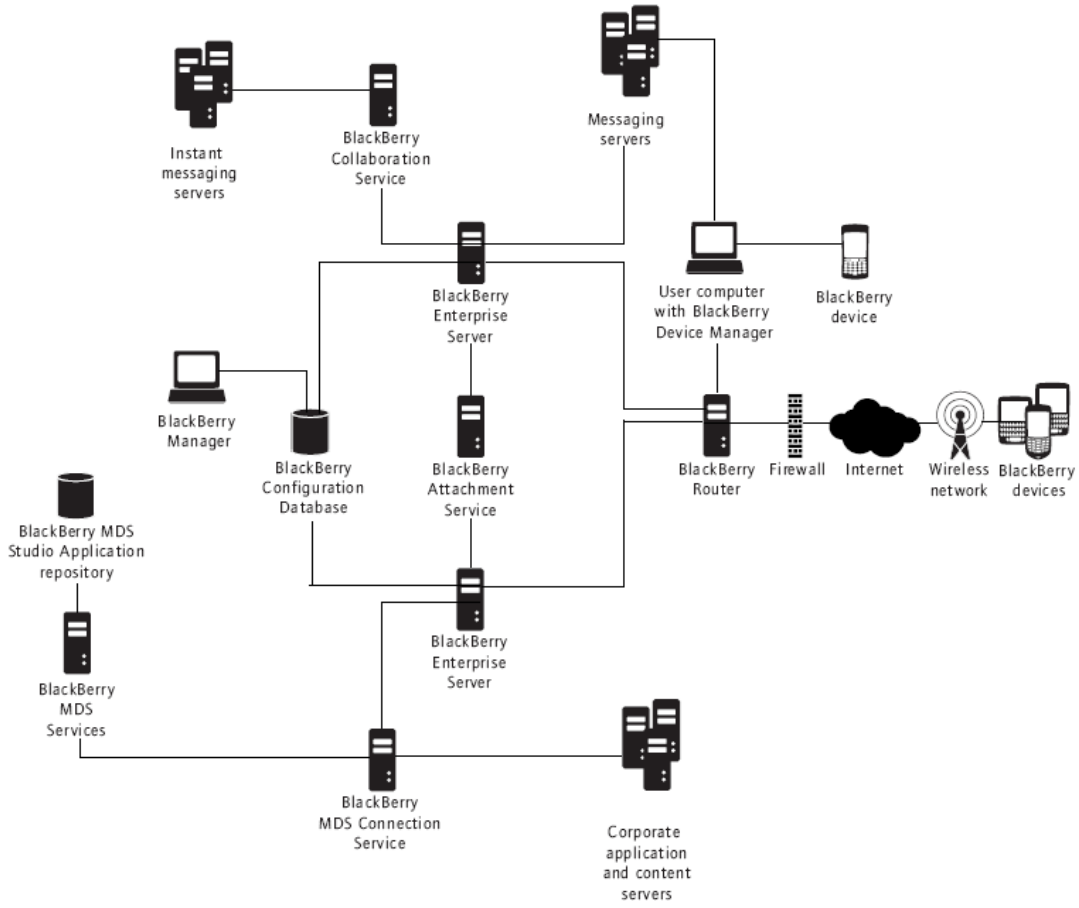


BlackBerry Enterprise Server architecture

New Components

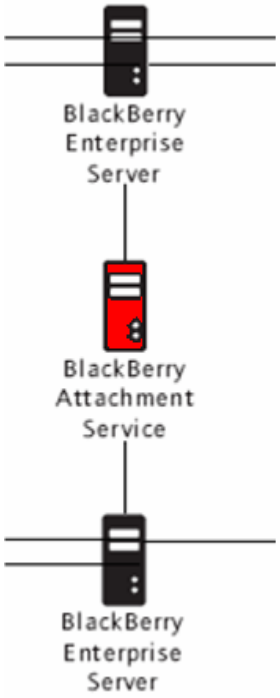
- BlackBerry Collaboration Service
- BB MDS Connection Service
- BB MDS Studio Application repository

Separation of Services



Sample BlackBerry Enterprise Server architecture with remote components

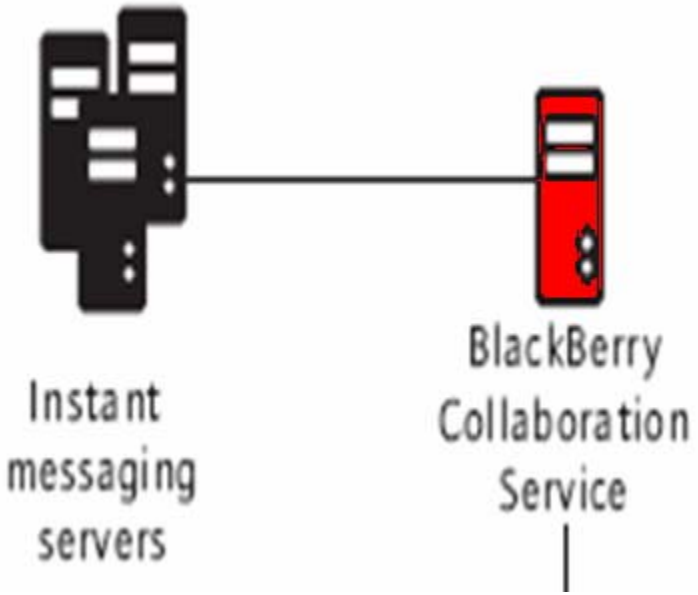
Separation of Services



- BlackBerry Attachment Service
  - Can support multiple servers
  - Can increase system resources for multiple requests
  - Allows faster message processing on the BES
  - Can increase number of concurrent conversions

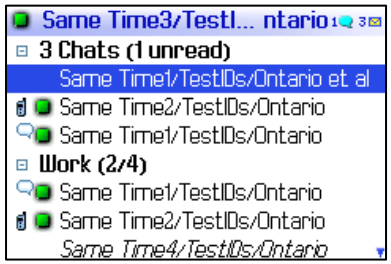
Separation of Services

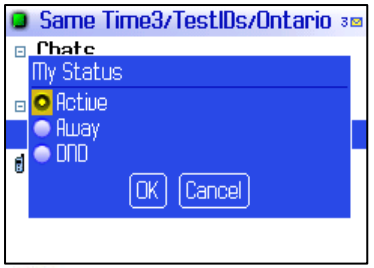
- Collaboration Service
  - Can install one type of collaboration server
  - Uses a persistent socket connection for each messaging session
  - Can support one BES



BlackBerry Enterprise Server v4.1
Instant Messaging

- Group Chat can be initiated and managed from the handheld device
- Presence indicates user is on a mobile device (away, busy, lunch etc.)
- Automatic presence management when out of coverage
- Buddy List is synchronized with the enterprise instant messaging server
- Alerts when team member(s) becomes available
- Distinct alert profile for instant messages
- Phone calls or browser sessions can be initiated directly from phone numbers or URLs imbedded in instant messages
- Client runs in the background and integrates with standard BlackBerry notification profiles



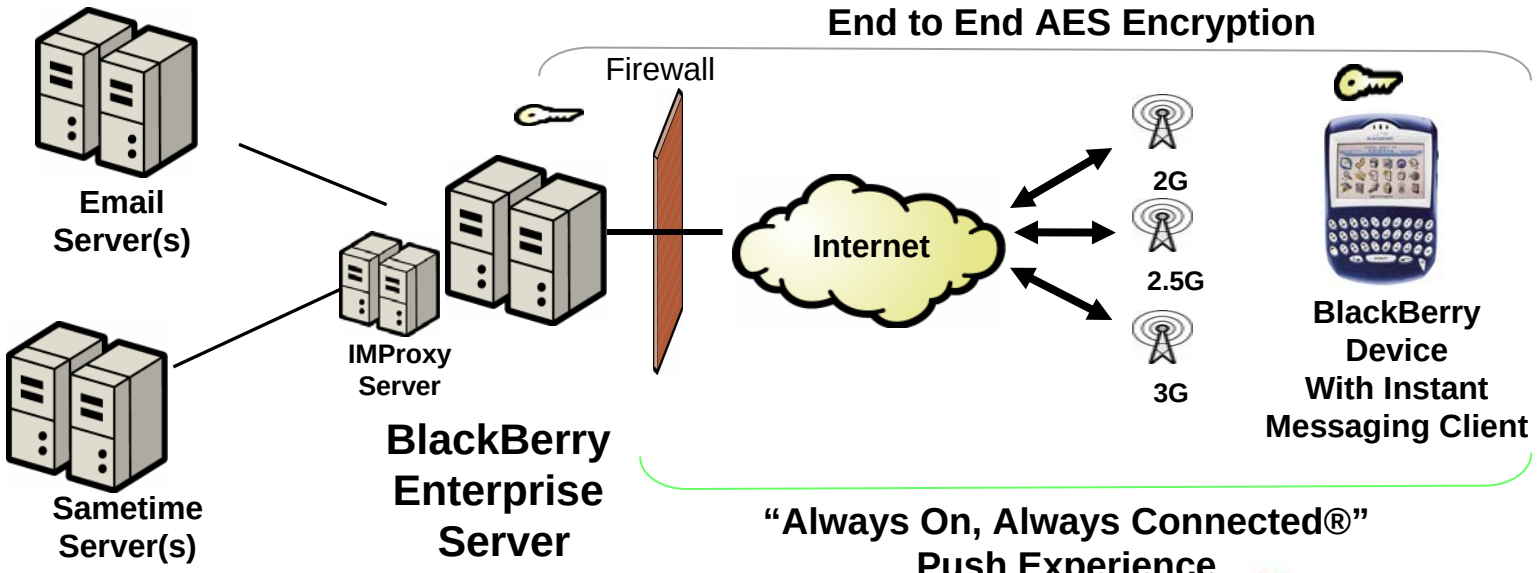


BlackBerry for Lotus Domino

BlackBerry™

IM Architecture (Sametime Example)

- IM client pushed to BlackBerry device by BlackBerry Enterprise Server
- BlackBerry Enterprise Server connected to enterprise IM server that provides message auditing and controls enterprise access
- Makes use of AES encrypted transport



Separation of Services

- MDS Studio Application repository
  - A remote repository can support one instance
  - Must be installed on the database server as the configuration database

Separation of Services

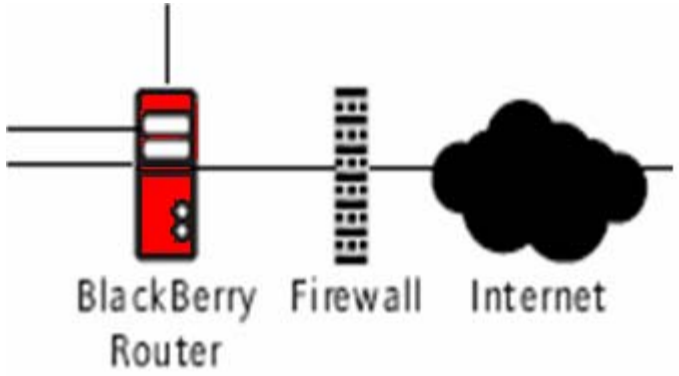
- MDS Connection Service
  - Can support on BES
  - Offload the processing of the content requests
  - Minimize the impact on the message delivery

Separation of Services

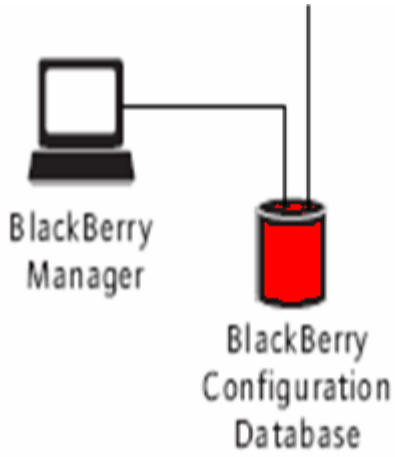
- MDS Services
  - Can support multiple BES and one repository
  - Can use the increased system resources when processing content requests

Separation of Services

- BlackBerry Router
  - Can support multiple BES
  - Does not use system resources, but critical point in the system
  - Can install several in standby mode for failover purposes



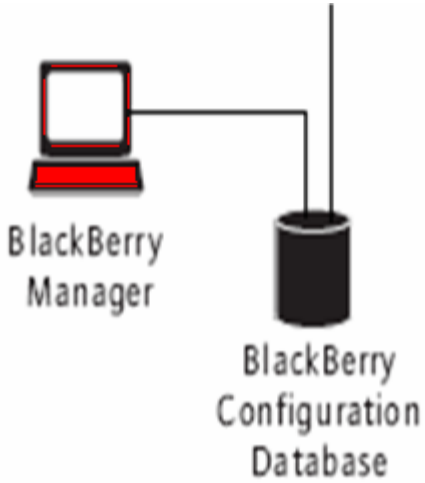
Separation of Services



- Configuration Database
  - Now will be supporting DB2!
  - Can support multiple BES, creating a BB Domain

Separation of Services

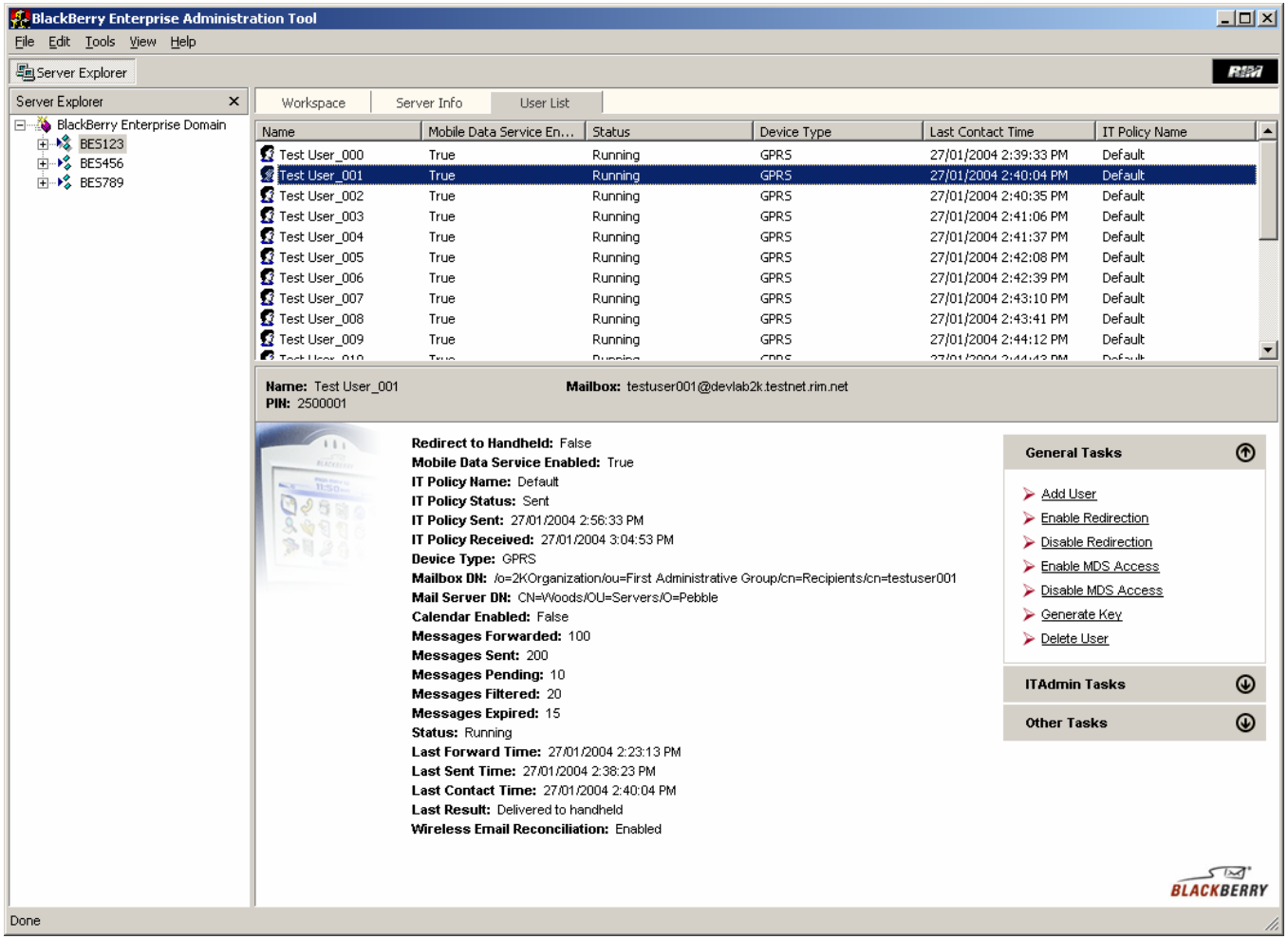
- Blackberry Manager
  - Allows you to manage on a machine that is not the BES for the entire BB domain



Admin Console

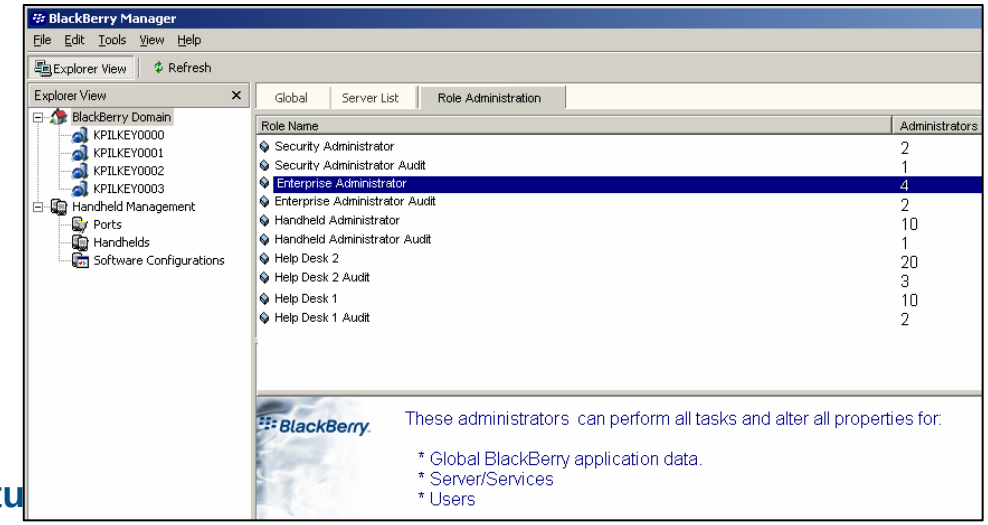
- Easy management of user groups
- More secure administrator access
  - Eliminate the possibility of junior staff making catastrophic administrative errors
- Provides ability to lower costs by segregating duties, i.e. simple tasks can be assigned to lower cost help desk staff
- Lower the total cost of ownership of the BlackBerry Enterprise Solution™

Admin Console



Role-based Administration

- Provides more granular access to BlackBerry Enterprise Server management functions for users such as Help Desk
  - *Role-Based Administration* will allow IT Administrators to assign specific roles to a set of administrators. Those admins will have access to only applicable functions when they log in to the BlackBerry Manager

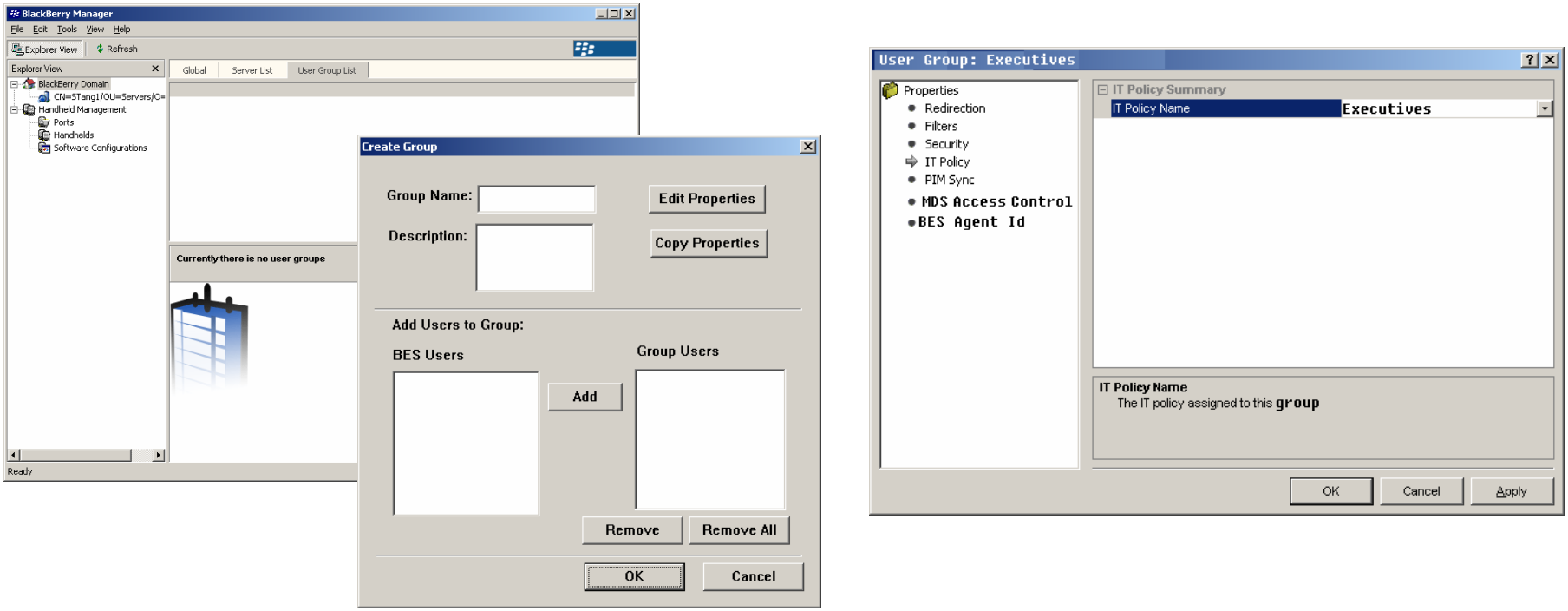


Role-based Administration

- 5 Predefined Admin roles
  - Security Administrator
  - Enterprise Administrator
  - Device Administrator
  - Senior Help Desk Administrator
  - Junior Help Desk Administrator

Group Administration

- Ability to create groups of users to ease administrative tasks



- Ability to assign properties and tasks to groups such as: IT Policies, Email filters, MDS Access Control, Redirection, PIM Sync, Send bulletins to groups, Auto signature, etc…

Group Administration

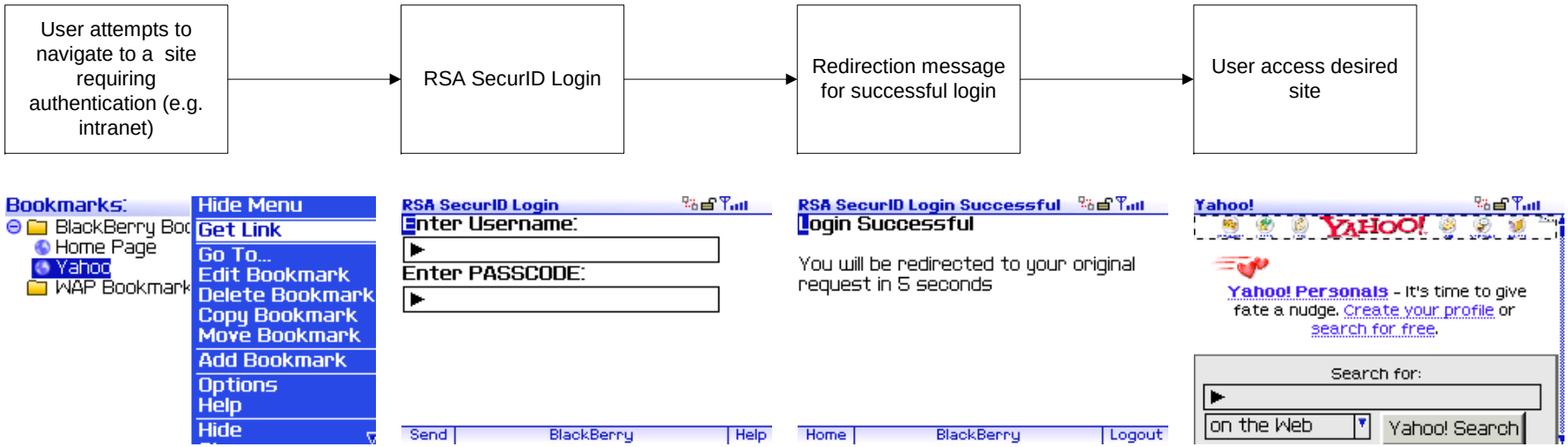
- Must be Security Admin or Enterprise Admin to create groups and edit properties
- Other Admin types can view
- Group Software policies can be edited by Device Admin

RSA Overview

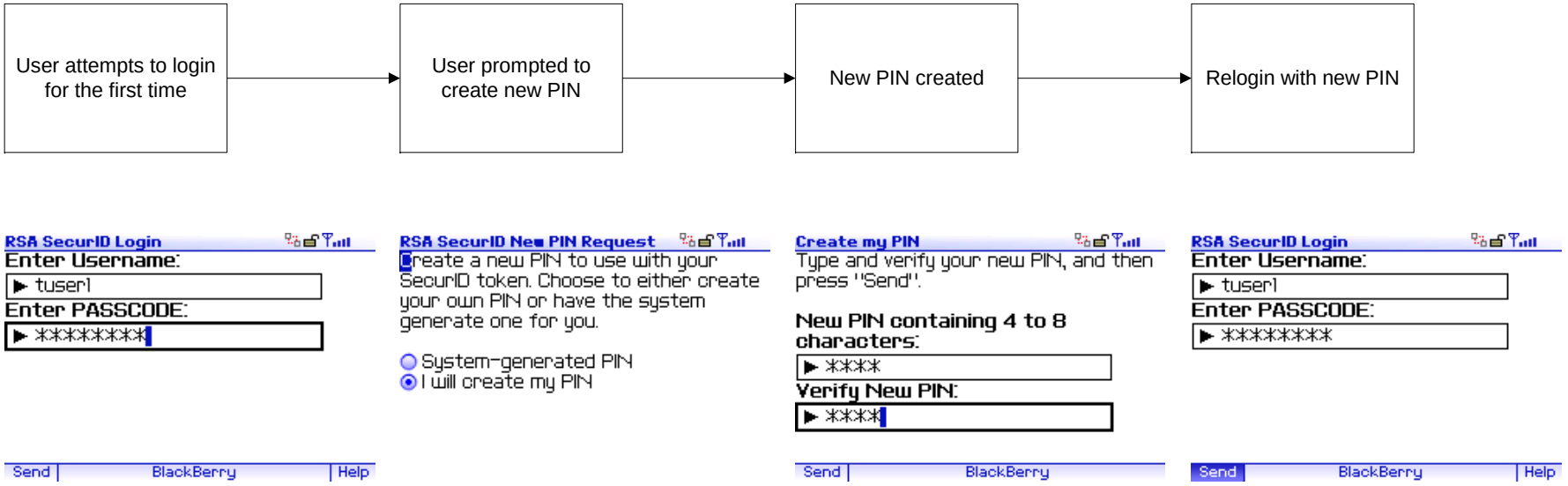
- MDS integrates with RSA Authentication Manager (formerly ACE Server) to support RSA SecurID authentication as extra authorization to access content served by MDS

- User Experience
  - Normal login session
    - Typical use of RSA SecurID
  - New PIN session
    - Required when the user uses the SecurID token for the first time
  - Next token session
    - Required when the user's passcode is entered incorrectly a few times

Normal Login Session



New PIN Session

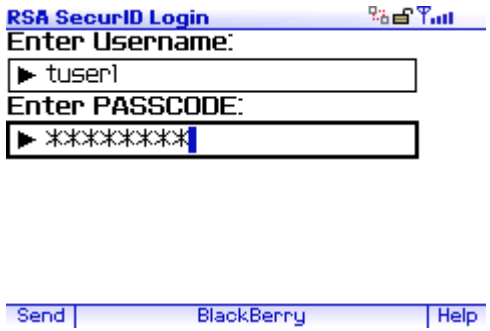


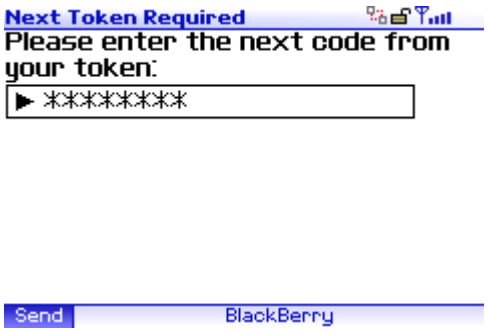
Next Token Session

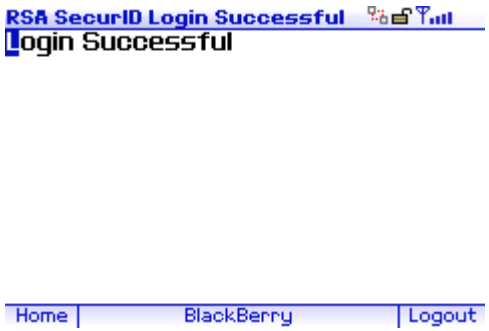
User enters incorrect passcode multiple times then enters correct passcode

User prompted to enter next passcode (token)

Successful login







New to BlackBerry for Lotus Domino - IBM DB2!

- Key Addition to Feature Rich BES 4.1
- MS SQL or DB2 Option
- Migrate to DB2 from BES 4.0 Only
- Continued Commitment to IBM Lotus Notes Domino
- MSSQL or DB2 - Transparent to End Users
- Leverage Your Preferred Database Backend
- Meet New People – Your DB2 DBA(s)!

DB2 Requirements

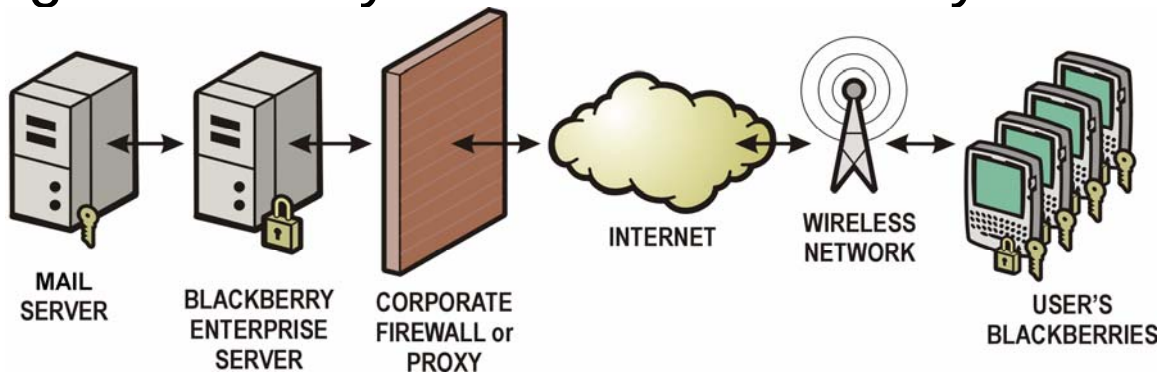
- UDB 8.2 Express or Higher required
- If database remotely installed, then insure that DB2 run-time client lite is installed on BES
- At this time DB2 is not supported on a mainframe

Notes Native and S/MIME Encryption for Domino users

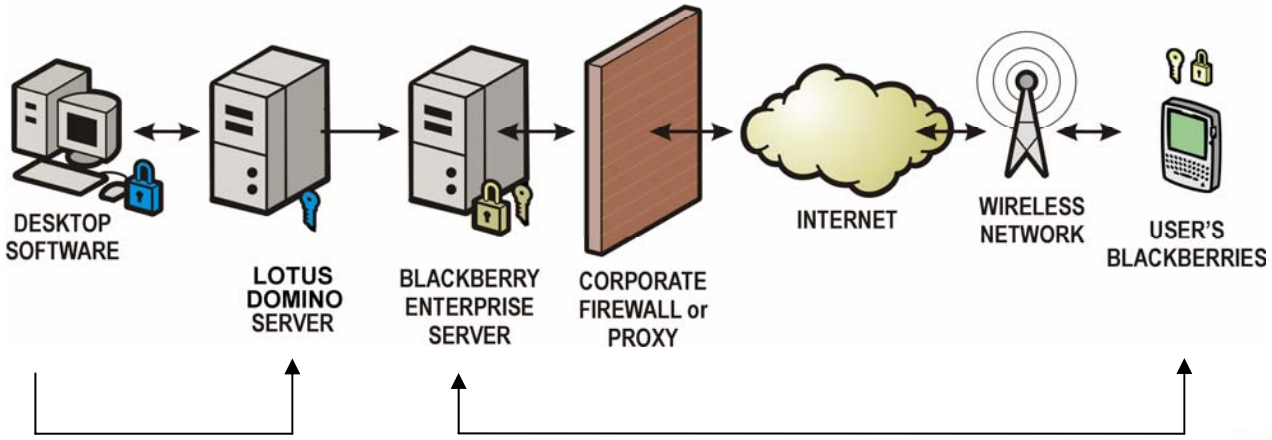
- With v4.1 for Lotus Domino, the BlackBerry Enterprise Server will leverage new APIs coming available in Domino 7.0 to provide support for viewing encrypted messages on the BlackBerry handhelds
- The Server will use the new APIs to access a decrypted version of these messages directly from the Domino server and then treat them like any other message, encrypting (3DES or AES) and forwarding to the handheld
- Requirements:
  - BlackBerry Enterprise Server v4.1 for Domino
  - BlackBerry Handheld Applications v4.1
  - Domino 7.0

BlackBerry Security
Notes Native and S/MIME Encryption – Technical Overview

Existing BlackBerry End-to-End Security Model:



With v4.1 Notes Native and S/MIME support:



Notes Native or S/MIME Encryption

BlackBerry Encryption

First Look at BES4.1

- Questions?

BlackBerry for Lotus Domino

Thank you for attending!

For more resources, please visit:

www.blackberry.com/go/domino

www.blackberry.com/go/dominoresources