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**Quick Installation and Deployment Guide for
Broadcast Agent Publisher**

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Manual abstract:

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patents, which may cover products that are offered and sold by Business Objects: 5,555,403, 6,247,008 B1, 6,578,027 B2, 6,490,593 and 6,289,352. Patents Quick Installation and Deployment Guide for Broadcast Agent Publisher 3 Overview This guide is a checklist of the steps required to quickly install and deploy Broadcast Agent Publisher on Windows and UNIX. It does not describe how to install other Business Objects components, nor does it describe how to set up your repository and universes. There are a number of prerequisites that must be installed on client and server machines before you begin installation of Broadcast Agent Publisher. Please read this Quick Installation guide before you begin installation.

For detailed information on installing and deploying Broadcast Agent Publisher, refer to the Broadcast Agent Publisher Installation and Deployment Guide.

4 Quick Installation and Deployment Guide for Broadcast Agent Publisher General system requirements Platforms BCA Publisher is supported on Windows and UNIX. The following components are not available on UNIX: · BCA Publisher Addin · Demo Kit · Recipient Manager · Repository Manager For information about which versions of each platform are supported, refer to the Product Availability Report (PAR). Databases The database middleware required for Broadcast Agent Publisher to access the Business Objects repository must be installed on the same machine as the Broadcast Agent Publisher Recipient Manager, the InfoView E service, and the BCA Publisher Addin. Refer to the Business Objects Installation and Configuration Guide and the Business Objects Deployment Guide for more information.

The current version of Broadcast Agent Publisher supports: · Oracle · Microsoft SQL Server · IBM DB2 UDB · Sybase ASE (Adaptive Server Enterprise) For information about which versions of each database are supported, refer to the PAR. MDAC All databases require Microsoft Data Access Components. These provide the necessary database drivers. For all databases, the user account that is used to create the Broadcast Agent Publisher tables in the repository must also have the rights to create database objects, namely: · tables · views · stored procedures Quick Installation and Deployment Guide for Broadcast Agent Publisher 5 Email Your email server configuration depends on the mailing system you want to use to broadcast publications. Microsoft Exchange To use the SMAILER component with Microsoft Exchange as your mailing system, you must: · Install Microsoft Outlook on the same machine as Recipient Manager. · Define an Exchange profile to be used in Recipient Manager. · Install Microsoft Outlook on each cluster node that may be used for broadcasting. · Define an Exchange profile with the same name as defined above to be used on every cluster node. This profile must use the same Windows account as the one that identifies the BusObj.exe Automation Server on the cluster nodes.

(You can find this using the Service Parameters in the Configuration tool.) CDO Component for Microsoft Exchange To collect email addresses using Microsoft Exchange, you must have the CDO (Collaboration Data Objects) component installed. CDO is a scripting interface that enables Recipient Manager to communicate with Exchange. If you are using Windows 2000, you may find that you need to re-install the component on your computer. Lotus Domino To use the Domino mailer component with Lotus Domino as your mailing system, you must: · Install Lotus Notes on the same machine as Recipient Manager. · Define a Domino profile to be used in Recipient Manager. · Install Lotus Notes with a valid user on each cluster node that may be used for broadcasting. The Notes user you use on the machine running Recipient Manager does not need to be the same as the user defined on the nodes that execute the publications. A valid user is sufficient., however, Business Objects recommends you use the same user to simplify your deployment.

General system requirements 6 Quick Installation and Deployment Guide for Broadcast Agent Publisher Business Objects Prerequisites Broadcast Agent Publisher 6.5 requires BusinessObjects6.5 and WebIntelligence 6.5. An administrator of Broadcast Agent Publisher must have the following Business Objects components installed.

This is a minimum requirement: · Administration products Designer Supervisor Configuration Tool Administration Console Broadcast Agent Console Server products Business Objects Server InfoView WebIntelligence Broadcast Agent Scheduler Desktop products BusinessObjects Quick Installation and Deployment Guide for Broadcast Agent Publisher 7 Windows and UNIX Prerequisites Windows Before you can install Broadcast Agent Publisher on Windows you must install: · Windows Scripting · Microsoft XML parser These are available on the Broadcast Agent Publisher installation CD. · MDAC UNIX Before you can install Broadcast Agent Publisher on UNIX, you must have installed: · The JDBC drivers appropriate for your database platform. Refer to your database documentation for more information. · Tomcat or another application server. Refer to the WebIntelligence Administrator's Guide and Installing and Configuring Application Servers for more information.

· JDK You can download this from <http://java.sun.com> Additional requirements: · Business Objects recommends using the BASH shell · JAVA_HOME must be set as an environment variable as shown in this example: `export JAVA_HOME=/usr/u/qaunix/jdk1.4.2` Windows and UNIX Prerequisites 8 Quick Installation and Deployment Guide for Broadcast Agent Publisher Broadcast Agent Publisher components The following is a list of the Broadcast Agent Publisher components in the order in which they appear in the installation wizard: · BCA Publisher Addin · Demo Kits · InfoView E Service · Online Guides · Recipient Manager · Repository Manager · InfoView E web site · Publication Manager The following components are not displayed in the wizard.



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You install them using the Repository Manager: · The Broadcast Agent Publisher tables · Broadcast Agent Publisher universe and document · A bomain.mkey file Prerequisites for the components BCA Publisher Addin The BCA Publisher Addin must be installed on all Broadcast Agent nodes on which the BOManager is enabled for batch processing. All servers on which the addin is installed must also have the following installed: · Broadcast Agent · prerequisites, InfoView E Service For a Windows installation, the InfoView E Service requires the standard prerequisites. For a UNIX installation, the InfoView E Service does not require any of the prerequisites listed above for Windows. Instead, it requires the following: · JDK · The appropriate JDBC driver for the repository platform Quick Installation and Deployment Guide for Broadcast Agent Publisher 9 HTML storage service The HTML storage service is part of the InfoView E service, and should be installed as follows: · If you are upgrading from a previous version of Broadcast Agent Publisher, install it on your web server, because this is where the HTML is stored.

· If your Broadcast Agent Publisher deployment is in an extranet environment, this service should be installed inside the firewall for security reasons. Business Objects strongly recommends deploying your extranet inside a firewall. · If you are installing for the first time, and are not using an extranet deployment, there are no restrictions for where you can install it. By default, the HTML storage service is installed as part of the InfoView E service. Recipient Manager Broadcast Agent Publisher Recipient Manager must be installed on a Windows machine that already has BusinessObjects installed, as it uses the BusinessObjects login. Repository Manager Broadcast Agent Publisher Repository Manager must be installed on a Windows machine that already has the following Business Objects products installed: · BusinessObjects, to enable Repository Manager to export the Broadcast Agent Publisher document · Designer, to enable Repository Manager to export the Broadcast Agent Publisher universe InfoView E web site The InfoView E web site is available in both ASP and JSP. It can be installed in either a stand-alone or a clustered environment. If it is installed in a clustered environment, typically it is installed on all cluster nodes. Each node on which it is installed must also have the following installed: ASP: · IIS (for supported versions, refer to the PAR) · Windows prerequisites Broadcast Agent Publisher components 10 Quick Installation and Deployment Guide for Broadcast Agent Publisher JSP: · an HTTP server · an application server · JDK · prerequisites Additional requirements for Windows JSP: · Set the CATALINA_HOME environment variable to c:\tomcat for example · Set the JAVA_HOME environment variable to c:\jdk for example · Open http.conf in apache/conf folder and at the end of these files add: - JkMount /BCAPublisher/* ajp13 - JkMount /BCAPublisherWILink/* ajp13 Both ASP and JSP versions require: · Microsoft Internet Explorer (refer to the PAR for version information) · Sun JVM For a UNIX installation, the storage service requires the following: · JDK · The appropriate JDBC driver for the repository platform NOTE Supervisor You use the Administration Setup wizard in Supervisor to create repositories and define supervisors who are authorized to create users and to control their access to the repository's domains and resources.

A repository connection in Supervisor is defined in a .key file. You must define a repository connection before installing Broadcast Agent Publisher. Use Repository Manager to connect to a repository, creating an .mkey file. The .mkey is an encrypted file that provides a database connection string to the repository; the .mkey file takes the same name as the .key file you selected, and is stored in the following directory: \$INSTALLDIR\broadcast agent publisher\SharedLocData Publication Manager Publication Manager is available in both ASP and JSP. In addition to the prerequisites listed for the InfoView E website, it must be installed on the same server as InfoView. Quick Installation and Deployment Guide for Broadcast Agent Publisher 11 Pre-installation checklist Before you install Broadcast Agent Publisher ensure that: · your system meets the necessary hardware and software requirements. · you have access to an administrator account on each server where you want to install Broadcast Agent Publisher. · the prerequisites are installed on each server. Servers may have different requirements, depending on where you install the Broadcast Agent Publisher components. · Microsoft CDO is correctly installed. · a Business Objects repository is installed, and is accessible from each server. · you have inst into UNIX. 4. Change directory to the location of the setup program by typing: cd /publisher NOTE We recommend using the BASH shell to execute the commands described in this section. 5.

Ensure that the setup program has execute rights using the following command: chmod +x setup.bin To begin your installation of Broadcast Agent Publisher on UNIX: 1. Run the UNIX installer by typing: ./setup.bin The license agreement is displayed. 2. Enter yes to accept the terms. 3. Enter the path to your Business Objects installation directory. For example: /bo6 The setup program uses this information to determine the location of the nodes folder. Broadcast Agent Publisher files that are generated as part of the installation process are created in the bcap folder. 4. Enter your cluster name. For example: mycluster The setup program uses this to determine which orb configuration file to use. 5. Enter the classpath for your JDBC driver. For example: /new/BD/oracle/product/9.2.0/jdbc/lib/classes12.jar This is the classpath for the JDBC driver to connect to the Broadcast Agent UNIX Installation 16 Quick Installation and Deployment Guide for Broadcast Agent Publisher Publisher repository. 6. Enter the location of the .war files. The default location is /appservers/tomcat/webapps NOTE This is the webapps folder for your application server. For other application servers the webapps folder may be different. The installation process unzips the war files, incorporates the configuration information you entered, re-creates the war files, and deploys them to the location you specified. The next steps in the installation process require configuring the connection to the Broadcast Agent Publisher repository and establishing a connection to the database. 1. Configure the connection for the Broadcast Agent Publisher repository by running the bcap_mkey shell script from the bcap folder within your Business Objects installation folder, as follows: cd /bo6/bcap ./bcap_mkey.

sh 2.



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Enter the classname of the JDBC driver. The table below gives some examples. Database type Oracle SQL*Server IBM DB2 Sybase Example classname
oracle.jdbc.driver.OracleDriver com.microsoft.jdbc.sqlserver.

SQLServerDriver com.ibm.db2.jdbc.app.

DB2Driver com.sybase.jdbc.SybDriver Quick Installation and Deployment Guide for Broadcast Agent Publisher 17 3. Enter the connection URL for your Broadcast Agent Publisher repository.

.. Database type Oracle Example URLs jdbc:oracle:thin:<user>/<password>@<hostname>:<port>:<service_name> jdbc:microsoft:sqlserver://<server>:1433;User=<user>;Password=<password>;DatabaseName=<database>;SelectMethod=curs or jdbc:db2:yourdatabase
jdbc:sybase:tds:<hostname>:<port>/<database> SQL*Server IBM DB2 Sybase If you are using IBM DB2, enter your username and password for the Business Objects repository. If you are using another database, these fields are not required. Press Enter to skip to the next step 4. At the prompt, enter Yes to test your database connection. @@@@. You have general supervisor login rights. @@To create the Broadcast Agent Publisher tables: 1. @@2. @@3.

Select the domain you want to access. @@@@Click OK. @@5. Click Begin. Step 2 of the wizard appears. @@@@. 1. Select the type of database you want to use from the drop-down list. @@@@If the connection is not valid, an error message appears. You must correct the connection before proceeding. 2.

@3. Click Next. The wizard is now ready to create the Broadcast Agent Publisher tables. Quick Installation and Deployment Guide for Broadcast Agent Publisher 21 Creating the tables Business Objects recommends that you create a backup of your existing database before you create the database tables. If the table creation process fails part way through, the easiest course of action for recovering your data is to restore your backup and re-run this process.

1. Click Next. - If your database is IBM DB2, you must copy the file BCAPub.jar to the database server. - If your database is either Oracle or Microsoft SQL Server, or Sybase, the Repository Manager starts creating the tables.

Broadcast Agent Publisher creates the .mkey file needed to connect to the repository, and displays the progress of the script that is executed to create the Broadcast Agent Publisher tables. NOTE Once the creation process has begun, you cannot interrupt it. When the script has finished processing, a window informing you that the tables have been created successfully. Installing the BCAPub.jar file for IBM DB2 If your database is IBM DB2, you must install the stored procedures. You can install the stored procedures manually, via FTP, or via a shared directory. To be able to create Java stored procedures on IBM DB2, you must first copy the file BCAPub.jar to a location from which the file can be installed. Repository Manager will then install the file BCAPub.

jar on the database server using the swlj.install_jap procedure: call sqlj.install_jar('file:///c:/db2\BCAPub.jar','BCAPub',0) 1. Select Install manually 2. In the Local save path box, enter the URL for the location on this computer to which the BCAPub.jar file will be extracted. 3. In the Server File URL box, enter the URL for the location from which the BCAPub.jar file will be installed.

This URL can take the following forms: file:///c:/mydir\ on Windows file:///mydir/ on UNIX 4. Copy the file from the installation CD to the location on the database server Creating the Broadcast Agent Publisher tables 22 Quick Installation and Deployment Guide for Broadcast Agent Publisher that you specified in the previous step. 5. Click OK. Broadcast Agent Publisher creates the stored procedures.

Once you have successfully created the database repository, you must perform the following tasks before you can use Broadcast Agent Publisher for the first time: · create a dedicated Recipient Manager group in Supervisor · export a dedicated universe, BCAPub.unv (mail publishing only) · publish a dedicated document, BCAPub.rep (mail publishing only) You can perform these tasks either by continuing with the wizard, or by exiting the wizard and performing them manually. You can also re-run the first four steps of the wizard once you are using Broadcast Agent Publisher to create the Broadcast Agent Publisher tables in another domain. To do so, exit the wizard at this point.

· To leave the wizard at this point, click Finish. · To continue, click Next. Quick Installation and Deployment Guide for Broadcast Agent Publisher 23 Creating the Broadcast Agent Publisher group in Supervisor The next dialog allows you to create automatically in Supervisor the group required by Broadcast Agent Publisher. You do not need to use the wizard to create this group; you can create it manually if you prefer. The wizard is provided because the group requires a specific name and it is case sensitive NOTE You must have Supervisor installed on your machine. You must open Supervisor to verify that the Recipient Manager group has been created. This option only ensures that the group name is correctly spelled. · Click Create Broadcast Agent Publisher group to create the group automatically. The wizard opens Supervisor, creates the group, and closes Supervisor again. Click Next to proceed to the next step in the wizard.

Creating the Broadcast Agent Publisher group in Supervisor 24 Quick Installation and Deployment Guide for Broadcast Agent Publisher Choosing a publishing and exporting method The Publishing and Exporting window allows you to choose how to publish the Broadcast Agent Publisher document and export the Broadcast Agent Publisher universe. NOTE You can allow the wizard to automatically publish the document and export the universe 1. In the Publishing and Exporting section of Repository Manager, select Let the wizard perform the operations automatically. 2. Click Next to continue. Quick Installation and Deployment Guide for Broadcast Agent Publisher 25 Selecting the universe connection In this window you to define the connection from the Broadcast Agent Publisher universe to the repository. 1. If the connection you require is already displayed in the connection panel, select it. Check that the Database name shown in the information panel on the right is correct; it should be the same as the name you entered when you defined your database in Step

2 of the wizard. 2.

If a suitable connection is not shown: - Define a new connection in Supervisor. - Click Refresh Connection List in the Broadcast Agent Publisher Repository Management Wizard to display the new connection in the window above. - Click the connection to select it. 3. Click Next.

Selecting the universe connection 26 Quick Installation and Deployment Guide for Broadcast Agent Publisher NOTE If you selected a Microsoft SQL Server connection and the name of the database owner you are using is not dbo, the following dialog appears: Enter the correct table owner name and click OK.



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The wizard checks the structure of the universe using the connection you have chosen. If the tables have not been created, or if a problem has occurred during creation, an error message appears and you must choose another connection. Once the universe structure has been verified, the next step of the wizard appears. *Quick Installation and Deployment Guide for Broadcast Agent Publisher 27* Publishing the universe and document This window allows you to specify where you want to export the universe and publish the document for Broadcast Agent Publisher.

1. Select the universe domain and group name, and the document domain and group name from the drop-down lists. The information you select in these fields can be found in the Repository tab of Supervisor; by selecting them in this window, you identify them for use by Broadcast Agent Publisher. The Universe Domain list box refers to the domain name of type Universe. For example, using the information from Supervisor as shown in the image, you would select Universe from the Universe Domain list box in the wizard. The Group Name list box refers to the location within Supervisor in which all the BusinessObjects account names are stored. The Document Domain list box refers to the domain name of type Document. The second Group Name list box allows you to select a different group for your document domain. 2. Click Finish.

The universe and documents are exported. Publishing the universe and document 28 *Quick Installation and Deployment Guide for Broadcast Agent Publisher* Setting the global and host parameters In the last window of the Repository Management Wizard, click Parameter Admin to launch the Parameter Administrator. To configure system parameters: 1. @@2. @@3. Edit the value of the parameter if required. 4. Click Apply to store the changed parameter value. 5. @@To configure host parameters: 1.

In the Parameter Administrator, click <Add Host>. @@Enter the host server name in the Host Name field. 3. Enter the IP address of the host in the IP Address field. 4.

Select the server roles for this server to perform. These are different for each server, according to the server components installed. 5. Click Add. Broadcast Agent Publisher adds the host information which is required by InfoView E and other web publishing web sites.

Setting the global and host parameters 30 *Quick Installation and Deployment Guide for Broadcast Agent Publisher* Configuring Windows Authentication To enable Windows authentication for web component external users, you must: · Set Windows authentication in Internet Services Manager. · Set Windows authentication in Recipient Manager. Setting Windows Authentication in Internet Services Manager 1. From the Windows Start menu and Control Panel, launch Internet Services Manager. In some versions of Windows you access this window from the Computer Management window. 2. In the Tree panel, select Default Web Site > BCAPublisher. A list of files and folders for this web site appears in the right panel: 3. 4. 5.

6. Right-click the file BCAPController.dll and select Properties. Click the File Security tab. Click Edit in the Anonymous access and authentication control section. In the Authentication Methods window, clear the Anonymous access check *Quick Installation and Deployment Guide for Broadcast Agent Publisher* 31 box. This leaves Integrated Windows authentication as the only selected option. 7. Click OK. You are returned to the Properties window.

8. Click OK again. Setting Windows Authentication in Recipient Manager In Recipient Manager, for each external user: 1. Set the Logon Type to Windows. 2. Define the appropriate User Domain. Configuring Windows Authentication 32 *Quick Installation and Deployment Guide for Broadcast Agent Publisher* Starting the Broadcast Agent Publisher services Before you can use Broadcast Agent Publisher for web publishing, you must start one or both of two Windows services, depending on your system configuration and the components installed. If you have installed on UNIX as well, you must also start a UNIX service. On Windows To start the services from your Windows desktop: 1. Select Start > Settings > Control Panel, and double-click Administrative Tools. 2. Click Services. A window similar to the following is displayed. There are two Broadcast Agent Publisher web publishing services: - BCA Publisher Web Application - BCA Publisher Web Support Each computer on which you installed InfoView E has the BCA Publisher Web *Quick Installation and Deployment Guide for Broadcast Agent Publisher* 33 Application service. Each computer on which you installed the BCAP Addin has the BCA Publisher Web Support service. If these services are not displayed on your computer, check the installation of InfoView E and the BCAP Addin. 3. Start both services. NOTE Both services need to be running in order to refresh documents for web publishing and provide InfoView E for users to view their documents. You can set both services to Automatic in order to start them automatically every time the system reboots.

For further information about controlling Windows services, see your Microsoft Windows documentation. On UNIX You must run the bcap_mkey.sh from the \$INSTALLDIR to complete the creation of the .mkey file (chmod + x bcap_mkey.sh). Then launch bcap.sh (chmod + x bcap.sh). NOTE You must also ensure that your web and application servers are running. Starting the Broadcast Agent Publisher services 34 *Quick Installation and Deployment Guide for Broadcast Agent Publisher* .



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