

ContentReporter™ 3.0

Release Notes

Network Appliance, Inc.
495 East Java Drive
Sunnyvale, CA 94089-1125
Telephone: +1 (408) 822-6000
Fax: +1 (408) 822-4501
Support telephone: +1 (888) 4-NETAPP
Information email: info@netapp.com
Information Web: <http://www.netapp.com>

Part number 210-00068
December 2001

Copyright and trademark information

Copyright information

Copyright © 1994–2001 Network Appliance, Inc. All rights reserved. Printed in the U.S.A.

No part of this book covered by copyright may be reproduced in any form or by any means—graphic, electronic, or mechanical, including photocopying, recording, taping, or storage in an electronic retrieval system—without prior written permission of the copyright owner.

Portions of this product are derived from the Berkeley Net2 release and the 4.4-Lite-2 release, which are copyrighted and publicly distributed by The Regents of the University of California.

Copyright © 1980–1995 The Regents of the University of California. All rights reserved.

Portions of this product are derived from NetBSD, which is copyrighted by Carnegie Mellon University.

Copyright © 1994, 1995 Carnegie Mellon University. All rights reserved. Author Chris G. Demetriou.

Permission to use, copy, modify, and distribute this software and its documentation is hereby granted, provided that both the copyright notice and its permission notice appear in all copies of the software, derivative works or modified versions, and any portions thereof, and that both notices appear in supporting documentation.

CARNEGIE MELLON ALLOWS FREE USE OF THIS SOFTWARE IN ITS “AS IS” CONDITION. CARNEGIE MELLON DISCLAIMS ANY LIABILITY OF ANY KIND FOR ANY DAMAGES WHATSOEVER RESULTING FROM THE USE OF THIS SOFTWARE.

Software derived from copyrighted material of The Regents of the University of California and Carnegie Mellon University is subject to the following license and disclaimer:

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notices, this list of conditions, and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notices, this list of conditions, and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. All advertising materials mentioning features or use of this software must display the following acknowledgment:

This product includes software developed by the University of California, Berkeley and its contributors.

4. Neither the name of the University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS “AS IS” AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER

IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

This Software contains materials from third parties licensed to Network Appliance Inc. which is sublicensed, and not sold, and title to such material is not passed to the end user. All rights reserved by the licensors. You shall not sublicense or permit timesharing, rental, facility management or service bureau usage of the Software.

Portions developed by the Apache Software Foundation (<http://www.apache.org/>). Copyright © 1999 The Apache Software Foundation.

Portions Copyright © 1995-1998, Jean-loup Gailly and Mark Adler

Portions Copyright © 2001, Sitraka Inc.

Portions Copyright © 2001, iAnywhere Solutions

Portions Copyright © 2001, i-net software GmbH

Software derived from copyrighted material of Network Appliance, Inc. is subject to the following license and disclaimer:

Network Appliance reserves the right to change any products described herein at any time, and without notice. Network Appliance assumes no responsibility or liability arising from the use of products described herein, except as expressly agreed to in writing by Network Appliance. The use and purchase of this product do not convey a license under any patent rights, trademark rights, or any other intellectual property rights of Network Appliance.

The product described in this manual may be protected by one or more U.S. patents, foreign patents, or pending applications.

RESTRICTED RIGHTS LEGEND: Use, duplication, or disclosure by the government is subject to restrictions as set forth in subparagraph (c)(1)(ii) of the Rights in Technical Data and Computer Software clause at DFARS 252.277-7103 (October 1988) and FAR 52-227-19 (June 1987).

Trademark information

NetApp and the Network Appliance design are registered trademarks of Network Appliance, Inc. in the United States, Canada, and the European Union. Network Appliance is a registered trademark of Network Appliance, Inc. in Monaco and a trademark of Network Appliance, Inc. in the United States and Canada. FAServer is a registered trademark of Network Appliance, Inc. in the United States and the European Union. NetCache is a registered trademark of Network Appliance, Inc. in the European Union and Japan, and a trademark of Network Appliance, Inc. in the United States. SnapCopy is a registered trademark of Network Appliance, Inc. in the European Union and a trademark of Network Appliance, Inc. in the United States. WAFL is a registered trademark of Network Appliance, Inc. in the European Union and a trademark of Network Appliance, Inc. in the United States and Canada. FilerView and SecureShare are registered trademarks of Network Appliance, Inc. in the United States. Data ONTAP is a trademark of Network Appliance, Inc. in the United States and Canada. Snapshot is a trademark of Network Appliance, Inc. in the United States and the European Union. ApplianceWatch, BareMetal, SecureAdmin, Serving Data by Design, Smart SAN, SnapManager, SnapMirror, SnapRestore, and Web Filer are trademarks of Network Appliance, Inc. in the United States.

All other brands or products are trademarks or registered trademarks of their respective holders and should be treated as such.

ContentReporter 3.0 Release Notes

Release notes contents

These release notes provide information on the following topics:

- ◆ [“Features of this release of ContentReporter”](#) on page 2
- ◆ [“Minimum Requirements”](#) on page 3
- ◆ [“Requirements and limitations”](#) on page 5
- ◆ [“Configuring an MS SQL Database for ContentReporter”](#) on page 6
- ◆ [“Configuring an Oracle database for ContentReporter”](#) on page 12
- ◆ [“Known problems”](#) on page 19

Where you can obtain product information

The following table describes where to find additional information about ContentReporter.

Location	Description
The ContentReporter user interface	The ContentReporter user interface provides on-line context-sensitive Help for every feature and function in ContentReporter
The ContentReporter server machine folder: ..\Network Appliance\ContentReporter\docs\	This folder contains PDF versions of the ContentReporter documentation.
The NOW Web site (now.netapp.com)	This site provides information such as technical reports, answers to frequently asked questions, and descriptions of bugs. The Knowledge Center page, available from the main Technical Assistance and Documentation page, contains on-line versions of the ContentReporter manuals.

Features of this release of ContentReporter

New features in ContentReporter 3.0

This release of ContentReporter includes the following features and enhancements:

- ◆ A single Web browser user interface for both administration and reporting tasks
- ◆ Authentication (Local, LDAP, and NTLM), permissions, and security settings for multi-user access control capabilities
- ◆ Simplified database setup and improved database performance
- ◆ Enhanced query capabilities for generating customized reports
- ◆ A single scheduler for log file collection and report generation
- ◆ The capability to collect and import log files from NetCache 5.0, 5.1, and 5.2
- ◆ The capability to collect and process compressed NetCache 5.2 log files
- ◆ The capability to collect NetCache log files with HTTPS using a self-signed NetCache certificate
- ◆ The capability to collect and process Web server, Real, WMS, QuickTime, and streaming server log files
- ◆ An improved and simplified configuration of a multiple ContentReporter server environment

45-day evaluation license

This release of ContentReporter provides a 45-day trial period for evaluation purposes. You do not need a license key to evaluate this release of ContentReporter. To evaluate ContentReporter, enable the evaluation checkbox, and click Submit when logging into ContentReporter the first time.

Minimum Requirements

About the minimum requirements

The following table lists the minimum requirements for a ContentReporter 3.0 configuration

Note

To learn more about specific sizing requirements and recommendations for your environment, contact a Network Appliance Systems Engineer.

Component	Minimum requirement
System for the ContentReporter server	Pentium III, 800 MHz, 1 GB RAM 20 GB disk space (Disk space should be sufficient for the number and size of the collected and stored log files.) Internet connection Dual Processor (If the ContentReporter Server and the Enterprise database are on the same system)
Platform	Windows NT SP 5 Windows 2000 (Server, Advanced Server)
Database	Oracle 8.1.7 MS SQL 7.0 (with Service Pack 2) licensed per Server for at least 5 concurrent connections to run ContentReporter ASA 7.0.1
Node devices	NetCache appliance Web server Streaming server
Log formats	HTTP: Web Access, Common, Netscape Extended, Squid, Web Access Custom, W3C Streaming: Streaming Access, Custom, Real, WMS, QuickTime

Component	Minimum requirement
NetCache appliance release	NetCache 5.x or later NetCache 5.1D4 or later required for SmartFilter reports NetCache 5.2 R1 or later required for log file compression
Web browser	Internet Explorer 5.0 or 5.5, or Netscape Navigator 6.1 Java 2 Runtime Environment 1.3.1 Plug-in enabled (Internet Explorer Security Settings: Enable “Run ActiveX controls and plug-ins”) JavaScript and Java Applet enabled Browser set to check for new content each visit to a stored page

Requirements and limitations

About requirements and limitations

This section provides details about various requirements and limitations of this release of ContentReporter.

Web browser configuration

This release of ContentReporter has the following Web browser configuration requirements:

- ◆ Java 2 Runtime Environment 1.3.1 installed on Web browser system
- ◆ Plug-in enabled (Internet Explorer Security Settings: Enable “Run ActiveX controls and plug-ins”)
- ◆ JavaScript and Java Applet enabled
- ◆ Browser set to check for new content each visit to a stored page

Terminal Server installation

To install ContentReporter 3.0 with Terminal Server, you must install using the Add/Remove Programs feature. This process is described in the “Installing the ContentReporter server” section of Chapter 1 of the *ContentReporter 3.0 System Administration Guide*.

Adobe Acrobat 4.0 or later

XHTML reports generated by ContentReporter can be read with a licensed copy of Adobe Acrobat 4.0 or later.

Billing aggregation intervals

Only 1 and 5 minute billing aggregation intervals produce valid query groupings.

Embedded ASA database

The embedded Sybase Adaptive Server Anywhere (ASA) 7.0.1 database is for evaluation situations only. When you first install ContentReporter, the ASA is your default database. You can use this database to collect and process small log files, and to generate reports on these log files. Only use the embedded ASA database for demonstration purposes. You cannot transfer data from the ASA database to an enterprise database.

Configuring an MS SQL Database for ContentReporter

About using an MS SQL database

You can use an MS SQL 7.0 (with Service Pack 2) database that is licensed per Server for at least 5 concurrent connections to run ContentReporter. If you use ContentReporter with an MS SQL 7.0 database in a production environment, it is strongly recommended that the MS SQL 7.0 database be licensed per Server for 20 concurrent connections.

Where you can install the database

You can install an MS SQL 7.0 (with Service Pack 2) database and the ContentReporter server on the same machine or on different machines. If you install them on different machines, you must install an MS SQL client on the ContentReporter server machine.

Required configuration procedures

You must perform the following procedures to configure an MS SQL database:

- ◆ Confirm that the MS SQL 7.0 (SP 2) database is licensed per Server for at least 5 concurrent connections to run ContentReporter
- ◆ If you have a production environment, confirm that the MS SQL 7.0 (SP 2) database is licensed per Server for 20 concurrent connections
- ◆ Create or identify a database that is “Select into/bulk copy” enabled for ContentReporter (“crsettings” is the default name)
- ◆ Create or identify a login (either the “sa” login or a some other login granted the Server Administrator role) for the ContentReporter server
- ◆ Configure ContentReporter to use the MS SQL database

Login requirements

ContentReporter must use either the “sa” login, or a login that meets the following three requirements:

- ◆ Granted only the Server Administrator role
- ◆ Has only “Public” and “db_ddladmin” privileges for the ContentReporter database
- ◆ Defaults to the ContentReporter database

Database settings

The following table describes the MS SQL database settings on the DB Admin tab in ContentReporter.

Setting	Description
User name	The username of the MS SQL login that ContentReporter uses to access the database listed in the DB Name field. The default is the “sa” login. ContentReporter can also use a login that meets the following three requirements: ◆ granted only the Server Administrator role ◆ has only “Public” and “db_ddladmin” privileges for the ContentReporter database (listed in the DB Name field) ◆ defaults to the ContentReporter database (listed in the DB Name field)
Password	The password of the MS SQL login that ContentReporter uses to access the database listed in the DB Name field. The default is no password.
Hostname	The MS SQL server machine name. Example: If the machine name is “bills-nt.domainname.com,” the host name is either “bills-nt” or “bills-nt.domainname.com.”
Port	The port through which the ContentReporter server connects to an MS SQL database. The default port is 1433.
Database Home	The root directory of the MS SQL server, or of the MS SQL client installation on the ContentReporter server machine. The typical directory is C:\MSSQL7\ (or the directory in which MS SQL is installed).
DB Name	The name of the database you created in MS SQL for ContentReporter. The default database name is “crsettings.”

Configuring a database and login

To configure an MS SQL database and a login for ContentReporter, complete the following steps.

Step	Action	
1	To create a database for ContentReporter in the MS SQL Manager console, expand the database server in the left-hand console tree (under Console Root Microsoft SQL Servers SQL Server Group), right-click Databases, and then click New Database.	
2	In the Database Properties window, enter a name (the default is “crsettings”), set any other file properties, and click OK.	
3	Right-click the new database in the console tree (under the database server), and click Properties.	
4	In the Properties window, click the Options tab, ensure that the “Select into/bulk copy” check box is selected, and click OK.	
5	If...	Then...
	You want ContentReporter to use the “sa” System Administrator SQL login	1. Expand Security in the console tree, click Logins, right-click the “sa” login, and click Properties. 2. Identify or enter a password for the “sa” login, click OK, and go to Step 7.
	You want to create a new SQL login for ContentReporter	Go to Step 6.

Step	Action	
6	To create a new SQL Server Administrator login for ContentReporter, complete the following steps: 1. Expand Security in the console tree, right-click Logins, and click New Login. 2. Enter a name for the login, click the SQL Server Authentication button, enter a password for the login, select the new ContentReporter database from the lower default Database drop-down list, and then click the Server Roles tab. 3. Select only the Server Administrators role check box, and click the Database Access tab. 4. Select the Permit box next to the database in the upper panel, select only the “public” and the “db_ddladmin” check boxes in the lower panel, and click OK. 5. Enter the password, and click OK.	
7	If...	Then...
	The ContentReporter server and the MS SQL database are on different machines	Install an MS SQL client on the ContentReporter server machine.
	The ContentReporter server and the MS SQL database are on the same machine	Go to step 8.
8	Go to “ Configuring ContentReporter to use MS SQL ” on page 9.	

Configuring ContentReporter to use MS SQL

To configure ContentReporter to use an MS SQL database, complete the following steps.

Step	Action
1	Log into ContentReporter, and click the Administration tab.
2	Click the Admin button.

Step	Action	
3	From the Cache Groups tab, click the DB Admin tab. Note _____ At any point, you can click Reset to reset the database settings on this tab to their current (actual) state.	
4	Select SQL Server from the Database drop-down list.	
5	Enter the MS SQL login user name (or leave “sa”) in the Username field, and then enter the login password in the Password field.	
6	Enter the MS SQL server machine name in the Hostname field.	
7	Ensure that port 1433 (or the appropriate port) appears in the Port field.	
8	Enter (or click Browse, browse to, and select) the root directory of the MS SQL server or client installation in the Database Home field.	
9	Enter the name of the SQL database (the default is “crsettings”) you created or identified for ContentReporter.	
10	Test the ContentReporter server’s connection to the SQL database by clicking Test DB Connection.	
11	If...	Then...
	A successful connection exists between ContentReporter and the SQL database	1. Click OK. 2. Click OK again.
	The database connection test failed	1. Click OK. 2. Verify the information you entered and check network connectivity between the ContentReporter server and the SQL server. 3. Repeat Step 9.
12	From the Administration page, log out of ContentReporter.	

Step	Action
13	Stop and restart the ContentReporter service. (In Windows NT: Click Start > Settings > Control Panel > Services. Then stop and start the ContentReporter service. In Windows 2000: Right-click My Computer > Manage > expand Services and Applications > double-click Services. Then stop and start the ContentReporter service. Note Any time you modify database settings, you must stop and restart the ContentReporter service for the new settings to take affect. You might need to wait a moment for ContentReporter to start running. Result: You successfully configured ContentReporter to use an SQL database.

Configuring an Oracle database for ContentReporter

Where you can install the database

You can install an Oracle 8.1.7 database and the ContentReporter server on the same machine or on different machines. If you install them on different machines, you must install an Oracle 8.1.7 client on the ContentReporter server machine.

Required configuration procedures

You must perform the following procedures to configure an Oracle database:

- ◆ Configure the Oracle database for ContentReporter
- ◆ Configure ContentReporter to use the Oracle database

For detailed instructions

The following sections explain how to configure an Oracle database for ContentReporter and configure ContentReporter to use the Oracle database:

- ◆ [“Installing and configuring the Oracle database”](#) on page 13
- ◆ [“Configuring ContentReporter to use Oracle”](#) on page 16

Installing and configuring the Oracle database

About the Oracle Database

The instructions described in this section enable you to do a fresh Oracle installation that will perform adequately with ContentReporter. To successfully install an Oracle database for ContentReporter, follow these guidelines:

- ◆ The Starter database that Oracle installs by default is just that, a small starter database. If you attempt to load hundreds or thousands of MB of data into it, performance and stability will both be very poor.
- ◆ Large Oracle databases require multiple disks (or RAID sets) to perform well. There is nothing you can do that will allow a PC with a single IDE hard drive to perform adequately with Oracle.

Hardware requirements

These instructions assume that the database server is minimally a PC with two or more physical hard drives on separate IDE channels and at least 512 MB of memory. Note that two partitions (drive letters) on one physical drive will do you no good at all. The system drive (where the OS & Oracle software are loaded) should have at least 5 GB free, and the data drive should have at least 10 GB free. The easiest way to place drives on separate IDE channels is look for where the CD Rom is attached, and hook up the second hard drive on a free connector on that ribbon connector.

Note

If you want to get decent database performance, it is strongly recommended that you use a machine that has a SCSI interface instead of IDE and has either several hard drives or some sort of RAID. If you're using a machine with RAID, note that the raid set that has the data files should be RAID 5, but the raid set that has the rollback segments / temp db should be RAID 1+ 0.

Installing Oracle

To install and configure an Oracle database for ContentReporter, complete the following steps.

Note

If you're installing Oracle on the machine for the first time, follow the steps below. If you've already installed Oracle using "typical", use the "database configuration assistant" application to first remove the sample database that was created for you, and then to create a database starting from step.

Note

The Steps below assume that your system drive is drive C, and your data drive is drive E. The drive letters are not important, so if yours are different just use the drive letters that you've created instead of C and E, respectively.

Step	Action
1	Create a single large partition on the system drive (C), if you're running Windows 2000, or two partitions (C & D) if you're running Windows NT. Create a single large partition on your data drive (E).
2	Run the Oracle installer and select "Custom" install. (next >)
3	Select "Data Warehousing" as the database type. (next >)
4	De-select all the database options except for Sql*Plus help. (next >)
5	Select an appropriate global database name / SID. The global database name should be of the form SID.subdomain.domain.domain, where subdomain.domain.domain is the network location of the server. For example CRDB.department.acme.com. (next >)
6	Select a DB file location on your system drive.
7	Net 8 configuration assistant: Select Typical configuration.

Step	Action
8	Database configuration assistant: You'll have a multi-tab dialog box and you'll need to make changes to each tab before selecting next. This is the most critical dialog for setting up your database instance. a. System tab: Place db files on C. Increase size to 500MB. b. Tools tab: Place db files on C. c. Users tab: Place db files on E. Check the unlimited box. Increase size to 2048 MB. Increase next (KB) to 512 KB. d. Rollback tab: Place db files on C. Increase size to 1024 MB. Check the unlimited box. e. Index tab: Place db files on E. Increase size to 512 MB. Check the unlimited box. Increase next (KB) to 256KB. Click (next >)
9	Increase the size of the Redo logs to 20972 KB each.
10	Accept the defaults for the remaining dialogs.
11	Let the configuration assistant create and start the database instance.
12	When this is done, start the Sql*plus application and log in as system/manager. Create the database user that CR will run under using the following commands (Note that it is extremely important that this user's tablespace is not left system, which is the default): a. Create user cr_user identified by cruser default tablespace users; b. Grant dba to cr_user;
13	If you are running a Windows 2000 server that is part of a domain, the default Oracle Authentication mode (NTS) does not work properly in Oracle version 8.1.7. This prevents the Oracle Sql*Loader utility, which CR depends on, from connecting to the database. The workaround that Oracle recommends for this issue is to set <code>sqlnet.authentication_services=(NONE)</code> in the <code>SQLNET.ORA</code> Oracle control file.
14	After you make this change, reboot the machine and connect to Oracle using Sql *plus with the database user that you plan to configure CR to use in order to confirm that the database is running properly. It may take some time after the machine comes up for the database to come up.
15	Configure ContentReporter to use the db / user that you have just created.

Configuring ContentReporter to use Oracle

About configuring ContentReporter to use Oracle

This section explains how to configure ContentReporter to use an Oracle database.

Database settings

The following table describes the Oracle database settings on the DB Admin tab in ContentReporter.

Database setting	Description
User name	The Oracle user name of the account that ContentReporter uses to access the database.
Password	The password for the Oracle user account that ContentReporter uses to access the database.
Hostname	The Oracle server machine name. Example: If the machine name is “bills-nt.domainname.com,” the host name is either “bills-nt” or “bills-nt.domainname.com.”
Port	The port through which the ContentReporter server connects to an Oracle database. The default port is 1521.
Database Home	The Home directory of the Oracle database server or Oracle client.
SID	The Oracle Service Name or SID of the database instance used with ContentReporter.

Client requirements The following table lists the ContentReporter server’s Oracle client requirements.

Characteristic	Requirement
Version	The Oracle client’s version (8.1.7) must match the Oracle database server’s version.
Installed utilities	JDBC Drivers and SQL Loader utilities installed. These are part of the “Typical” client installation.

**Configuring
ContentReporter for
an Oracle database**

To configure ContentReporter for the database, complete the following steps.

Step	Action
1	Log into ContentReporter, and click the Administration tab.
2	Click Admin.
3	From the Cache Groups tab, click the DB Admin tab. Note _____ At any point, you can click Reset to reset the database settings on this tab to their current (actual) state. _____
4	Select Oracle from the Database drop-down list.
5	Enter the Oracle account user name in the Username field, and enter the account password in the Password field.
6	Enter the Oracle server machine name in the Hostname field.
7	Ensure that port 1521 (or the appropriate port) appears in the Port field.
8	Click Browse to browse to and select the Oracle Home directory path, or enter the Home directory path manually. Example: F:\\oracle\\ora817\\
9	In the SID field, enter the Oracle Service Name or SID of the database instance used with ContentReporter.

Step	Action	
10	Test ContentReporter server's connection to the Oracle database by clicking Test DB Connection.	
11	If...	Then...
	A successful connection exists between ContentReporter and the Oracle database	1. Click OK. 2. Click OK again.
	The database connection test failed	1. Click OK. 2. Verify the information you entered and check network connectivity between the ContentReporter server and the SQL server. 3. Repeat Step 10.
12	From the Administration page, log out of ContentReporter.	
13	Stop and restart the ContentReporter service. (In Windows NT: Click Start > Settings > Control Panel > Services. Then stop and start the ContentReporter service. In Windows 2000: Right-click My Computer > Manage > expand Services and Applications > double-click Services. Then stop and start the ContentReporter service.) Note Any time you modify database settings, you must stop and restart the ContentReporter service for the new settings to take affect. You might need to wait a moment for ContentReporter to start running. Result: You successfully configured ContentReporter to use an Oracle database.	

Known problems

List of known problems

The following table provides a list of known problems in ContentReporter 3.0.

Bug number of known problem	Description
50695	The ContentReporter 3.0 installation program reports a component transfer error when there is not enough disk space. To learn more about installation guidelines, see the “Installing the ContentReporter server” section of Chapter 1 of the <i>ContentReporter 3.0 System Administration Guide</i> on page 6.
51103	The ContentReporter 3.0 installation fails if C: drive does not have enough space. To learn more about installation guidelines, see the “Installing the ContentReporter server” section of Chapter 1 of the <i>ContentReporter 3.0 System Administration Guide</i> on page 6.
54520 and 60799	Database rollups are not implemented.
54992	Access control lists need to be correctly implemented for report definitions. To learn more about object security, see the “Security in ContentReporter” section of Chapter 5 of the <i>ContentReporter 3.0 System Administration Guide</i> on page 123.
56341	When using an MS SQL 7.0 database, ContentReporter must use the “sa” login or a login granted the Server Administrator role. To learn about the MS SQL login requirements, see “Configuring an MS SQL Database for ContentReporter” on page 6.
56739	The DB Admin tab has usability problems and lacks aesthetics at 1024 x 768 and 800 x 600 screen resolutions.
57487	If user is logged in when the evaluation license expires, and then attempts to execute a task, the user can submit the evaluation license and continue having access to and using ContentReporter.

Bug number of known problem	Description
57843	Group privileges do not work with LDAP authentication. To learn more about group permissions, see the “Adding user groups and setting user group permissions” section of Chapter 5 of the <i>ContentReporter 3.0 System Administration Guide</i> on page 131.
58481	The scheduled events applet hangs Netscape 4.78 browsers when the OK button is clicked.
59923	There is insufficient error messaging when the bulk copy program (bcp) fails.
60222	After upgrading or repairing a ContentReporter installation, there are random failures connecting to the ContentReporter login page.
60438	You cannot open reports with Adobe Acrobat Reader 4.0 or 5.0. Workaround: XHTML reports generated by ContentReporter can be read with a licensed copy of Adobe Acrobat 4.0 or later.
60680	If the database connection fails during the report generation process, all queries processed after the connection failure show the error message: “Connection reset by peer: JVM_recv in socket input stream.”