



# DBDS Utilities Version 6.1 Release Notes



# Please Read

## Important

Please read this entire guide. If this guide provides installation or operation instructions, give particular attention to all safety statements included in this guide.

# Notices

## Trademark Acknowledgments

Cisco and the Cisco logo are trademarks or registered trademarks of Cisco and/or its affiliates in the U.S. and other countries. A listing of Cisco's trademarks can be found at [www.cisco.com/go/trademarks](http://www.cisco.com/go/trademarks).

CableCARD is a trademark of Cable Television Laboratories, Inc.

Other third party trademarks mentioned are the property of their respective owners.

The use of the word partner does not imply a partnership relationship between Cisco and any other company. (1009R)

## Publication Disclaimer

Cisco Systems, Inc. assumes no responsibility for errors or omissions that may appear in this publication. We reserve the right to change this publication at any time without notice. This document is not to be construed as conferring by implication, estoppel, or otherwise any license or right under any copyright or patent, whether or not the use of any information in this document employs an invention claimed in any existing or later issued patent.

## Copyright

© 2008, 2012 Cisco and/or its affiliates. All rights reserved. Printed in the United States of America.

Information in this publication is subject to change without notice. No part of this publication may be reproduced or transmitted in any form, by photocopy, microfilm, xerography, or any other means, or incorporated into any information retrieval system, electronic or mechanical, for any purpose, without the express permission of Cisco Systems, Inc.

# Contents

- About This Guide** **v**
  
- Introducing the DBDS Utilities Version 6.1** **1**
  - System Release Compatibility ..... 2
  - DNCS Utilities ..... 3
  - Application Server Utilities ..... 5
  - CoolTools Utilities ..... 6
  - DHCT Status Reporting and signonCount Utilities..... 8
  
- Implemented Change Requests and New Features** **9**
  - Enhancements Implemented in DBDS Utilities Version 6.1 ..... 10
  - Issues Resolved in DBDS Utilities Version 6.1..... 12
  
- Open Change Requests** **13**
  - Known Issues in DBDS Utilities Version 6.1..... 14
  
- Customer Information** **15**



# About This Guide

## Purpose

The DBDS Utilities Version 6.1 includes four sets of utility programs that system operators and support engineers can use to manage and troubleshoot the Digital Broadband Delivery System (DBDS). This document lists and describes the implemented and open change requests (CRs) associated with version 6.1 of the DBDS Utilities product.

The *DNCS Utilities* (on page 3), *Application Server Utilities* (on page 5), *CoolTools Utilities* (on page 6), and *DHCT Status Reporting and signonCount Utilities* (on page 8) sections of Chapter 1 provide a brief description of these utilities that comprise DBDS Utilities.

## Scope

Most of the utilities and CRs described in these release notes pertain to systems running either the Cisco Resident Application (SARA) or other resident applications. The Application Server utilities, however, pertain strictly to sites that support SARA.

## Audience

These release notes are written for system operators of the DBDS who deploy DBDS Utilities on the sites that they manage. Field service and support engineers who help system operators manage their sites may also find the information in these release notes useful.

## Related Publications

You may find the following publications useful as resources when you implement the procedures in this document.

- *Application Server Utilities* (part number 749639)
- *CoolTools Utilities Version 6.1 User Guide* (part number 4020694)
- *DBDS Utilities Version 6.1 Configuration Guide* (part number 4020693)
- *DBDS Utilities Version 6.1 Installation Instructions and DNCS Utilities User Guide* (part number 4020695)
- *DHCT Status Reporting and signonCount Utilities User's Guide* (part number 738186)

## Document Version

This is the second release of this document.

# 1

## Introducing the DBDS Utilities Version 6.1

### Introduction

DBDS Utilities Version 6.1 consists of the following four sets of utility programs that system operators and support engineers can use to manage and troubleshoot the DBDS:

- DNCS Utilities
- Application Server Utilities
- CoolTools Utilities
- DHCT Status Reporting and signonCount Utilities

This chapter provides a short description of each individual utility included in DBDS Utilities Version 6.1.

### In This Chapter

- System Release Compatibility ..... 2
- DNCS Utilities ..... 3
- Application Server Utilities ..... 5
- CoolTools Utilities ..... 6
- DHCT Status Reporting and signonCount Utilities ..... 8

## System Release Compatibility

DBDS Utilities version 6.1 is compatible with System Release (SR) 2.7/3.7 and SR 4.2, as well as all related service packs.

# DNCS Utilities

## Overview of DNCS Utilities

The DBDS Utilities CD includes a collection of utility programs called DNCS Utilities. The following list contains the utilities that comprise DNCS Utilities, as well as a brief description of each utility:

- dbOptimizer – Deletes unneeded Entitlement Management Messages (EMMs) from the DNCS database
- delete-sm – Resets the configuration of Digital Home Communication Terminals (DHCTs)
- doctor – Compiles a report on system configuration
- dncsDbData – Unloads and loads the DNCS and Application Server databases
- del-hct-cd – Deletes selected Digital Home Communications Terminals (DHCTs) with a status of "out-of-service" from the database
- hostnmchg – Changes the hostname and IP address of the DNCS and SA Application Server
- checkDB – Identifies and corrects DHCT records in the database that do not contain serial numbers, required corresponding records in other tables, or that have EMMs ready to expire
- smMix – Generates a histogram graph that shows the distribution of DHCT EMMs
- updateOUI – Changes the Organizationally Unique Identifier (OUI) of DHCTs in systems that have upgraded to PowerTV® Operating System 3.1 (PowerTV OS 3.1)
- keyFileFinder – Compiles a list of files that may have to be backed up separately prior to upgrading to System Release (SR) 2.5/3.5 or 4.0 using the UniPack
- slotchk – Examines the Peripheral Component Interconnect (PCI) card configuration on the DNCS prior to a system upgrade
- tellDhct – Queries the database for information related to DHCT conditional access, return path, and staging information
- runCvtGroup – Expedites the process by which DHCTs are assigned to download groups
- check\_metadevices – Monitors the status of system metadevices

## Chapter 1 Introducing the DBDS Utilities Version 6.1

- `qtail` and `sesstail` – Monitors the logfiles of DNCS processes
- `parseIppvRept` – Converts unreadable binary impulse pay-per-view (IPPV) purchase data into readable text format
- `eutdump` – Associates session IDs with entitlement IDs
- `tellDhctInfo` – Provides authorization data about a single DHCT or a list of DHCTs
- `podConvert` – Converts the CableCARD MAC Address to the CableCARD™ POD ID, and vice-versa.

**Note:** The DBDS Utilities CD also contains a utility called `chkSamUrl`. The Doctor Report recommends that system operators run the `chkSamUrl` utility when the `bulk.tbl` file on the DNCS grows too large. Appendix E of the *DBDS Utilities Version 6.1 Installation Instructions and DNCS Utilities User Guide* (part number 4020695) provides instructions on running the `chkSamUrl` utility.

### Installation of the DNCS Utilities

Installation of the DNCS Utilities occurs automatically when you install the DBDS Utilities. Refer to *DBDS Utilities Version 6.1 Installation Instructions and DNCS Utilities User Guide* (part number 4020695) for installation instructions for the DBDS Utilities.

# Application Server Utilities

## Overview of the Application Server Utilities

The following list includes the utilities that comprise the Application Server Utilities, as well as a brief description of each utility:

- `addRppvAuth` and `removeRppvAuth` – Authorizes and deauthorizes a DHCT for a reservation pay-per-view (RPPV) event
- `advanchk`, `immedchk`, `indexchk`, and `servchk` – Converts binary pay-per-view (PPV) data to text format
- `evtdef` and `genPpvFromIpg` – Generates test PPV data
- `purge_ipg_data` – Deletes Interactive Program Guide (IPG) data from the database
- `ipgUpdate` – Forces an immediate update of the Broadcast File System (BFS) server with IPG data
- `ipgFileDump` – Converts binary IPG data to text format

**Important:** Some of the Application Server Utilities are designed for test labs and are not intended for use on live systems.

Refer to *Application Server Utilities* (part number 749639) for detailed information on the Application Server Utilities.

## Installation of the Application Server Utilities

The Application Server Utilities are already included as part of system software SR 2.2 and later. Therefore, the Application Server Utilities included in DBDS Utilities Version 6.1 only install when used on systems running software earlier than SR 2.2.

Installation of the Application Server utilities occurs automatically during installation of the DBDS Utilities when the following conditions are met:

- The installation script detects the presence of the SA Application Server.
- The Application Server runs the Solaris Version 2.5.1 OS (used in system software earlier than SR 2.2).

## CoolTools Utilities

### Overview of the CoolTools Utilities

The DBDS Utilities CD includes a collection of utility programs called CoolTools Utilities. The following list includes the utilities that comprise the CoolTools Utilities, as well as a brief description of each utility:

- **dblook**—Queries the database for information related to the following system components:
  - DHCTs
  - Quadrature Amplitude Modulation modulators (QAMs)
  - Multi QAM modulators (MQAMs)
  - Quadrature Phase-Shift Keying (QPSK) modulators and demodulators
  - Broadcast File System (BFS) server
- **savecore**—Saves core files for later examination
- **bkchk**—Improves database backup reliability and provides a status of the previous database backup
- **syncwait**—Monitors DNCS mirror synchronization
- **emm\_check**—Examines the database for expiring EMMs
- **listQpsk**—Reboots DHCTs and obtains DHCT sign-on data per QPSK
- **IIH**—Transmits DHCT billing transactions
- **2way2oos**—Changes DHCT status to out-of-service
- **mirrState**—Attaches and detaches Enterprise 450 DNCS mirrored disks
- **convertIP**—Converts IP addresses between decimal and dotted-decimal format, and vice-versa
- **getEASdata**—Troubleshoots the DBDS Emergency Alert System (EAS)
- **modDhctCfg**—Transmits the ModifyDhctConfiguration transaction to DHCTs
- **type8helper**—Ensures that type-8 EMMs are created for all staged DHCTs

- preserveLog – Allows log files to be preserved for future reference
- getCCdata – Reports on CableCARD-related errors and data
- mgrep – Similar to the UNIX grep command; can be configured to display lines of data preceding and following the specified pattern

**Note:** A utility called emmlst, which was present in DBDS Utilities Version 5.1, has been removed from CoolTools for version 6.1.

## Installation of the CoolTools Utilities

Installation of the CoolTools utilities occurs automatically when you install the DBDS Utilities. Refer to *DBDS Utilities Version 6.1 Installation Instructions and DNCS Utilities User Guide* (part number 4020695) for installation instructions for the DBDS Utilities.

## DHCT Status Reporting and signonCount Utilities

### Overview of the DHCT Status Reporting and signonCount Utilities

The DBDS Utilities CD includes the DHCT Status Reporting Utility, as well as the signonCount utility. The following list briefly describes each of these utilities:

- DHCT Status Reporting Utility – Troubleshoots non-responding DHCTs on the DBDS  
**Note:** DHCTs that are unable to establish or maintain two-way communication with the headend are known as non-responding DHCTs.
- signonCount – Helps system operators monitor the rate at which DHCTs sign on to the network

Refer to *DHCT Status Reporting and signonCount Utilities User's Guide* (part number 738186) for detailed information on the DHCT Status Reporting Utility and the signonCount utility.

### Installation of the DHCT Status Reporting and signonCount Utilities

Installation of the DHCT Status Reporting Utility and signonCount utility occurs automatically when you install the DBDS Utilities. Refer to *DBDS Utilities Version 6.1 Installation Instructions and DNCS Utilities User Guide* (part number 4020695) for installation instructions for the DBDS Utilities.

# 2

---

## Implemented Change Requests and New Features

### Introduction

This chapter lists the change requests (CRs) and new features that were implemented during development and testing of DBDS Utilities Version 6.1. The chapter is organized so that enhancements to the DBDS Utilities are presented first, followed by CRs that pertain to issues that were corrected in version 6.1 of DBDS Utilities.

### In This Chapter

- Enhancements Implemented in DBDS Utilities Version 6.1 ..... 10
- Issues Resolved in DBDS Utilities Version 6.1..... 12

## Enhancements Implemented in DBDS Utilities Version 6.1

This section provides information about enhancements that were implemented during development of version 6.1 of the DBDS Utilities.

### DNCS Utilities

This section presents the CRs associated with enhancements to the DNCS Utilities.

#### **CR 52190: Doctor Report Checks on Size of pdvodgraph Table**

The Doctor Report has been modified so that it now checks on the size of the pdvodgraph table in the database. In systems where the pdvodgraph table has grown too large, the clearDbSessions utility may need to be run.

#### **CR 53346: Doctor Report Lists Hubs That Follow DST**

The Doctor Report has been modified so that it now lists all hubs that follow Daylight Saving Time (DST).

### CoolTools Utilities

This section lists the four new utilities that were added to the CoolTools Utilities. Refer to *CoolTools Utilities User's Guide* (part number 749640) for detailed information about the utilities, as well as for instructions on how to run the utilities.

#### **The mgrep Utility**

The mgrep utility has been added to the CoolTools suite of utilities. Through the mgrep utility, a user can grep multiple lines of data when analyzing log files.

#### **The preserveLog Utility**

The preserveLog utility has been added to the CoolTools suite of utilities. Through the preserveLog utility, a user can preserve log files from the DNCS, Application Server, and the ASI server for later examination.

#### **The type8helper Utility**

The type8helper utility has been added to the CoolTools suite of utilities. Through the type8helper utility, DHCTs are assured of receiving type-8 EMMs.

**The getCCdata Utility**

The getCCdata utility has been added to the CoolTools suite of utilities. Through the getCCdata utility, system operators can examine CableCARD module-related data and errors.

## Issues Resolved in DBDS Utilities Version 6.1

This section provides information about the CRs that were implemented during development of version 6.1 of the DBDS Utilities in order to resolve issues discovered with previous releases of DBDS Utilities.

### DNCS Utilities

This section presents the CRs associated with resolved DNCS Utilities issues.

#### **CR 54275: Password Not Needed to Install DBDS Utilities**

A condition that required installation engineers to provide a password before installing DBDS Utilities on a Solaris 10 system has been corrected.

#### **CR 55074: Doctor Report Lists All Active Source Definitions**

The Doctor Report has been modified so that it now correctly lists all active source definitions.

#### **CR 56859: Doctor Report Displays Correct Configuration of Mirrored Disks**

A condition that caused the Doctor Report to display incorrect configuration data on mirrored disks has been corrected.

# 3

---

## Open Change Requests

### Introduction

This chapter provides a list of CRs that were found during testing of the DBDS Utilities Version 6.1 product. Efforts to address these issues are ongoing in our testing laboratories.

### In This Chapter

- Known Issues in DBDS Utilities Version 6.1..... 14

## Known Issues in DBDS Utilities Version 6.1

This section lists any issues that were discovered during testing of the DBDS Utilities product.

**Note:** The information describing the CRs is in summary form. System operators may contact the individual who is responsible for their account for a detailed description of these CRs.

### **CR 63349: Doctor Report Encounters Errors Accessing Database**

Our engineers are aware of a condition that exists on some international systems that causes the Doctor Report to generate errors while accessing the Application Server database.

### **CR 64440: Doctor Report Should Not Report Netcrypt Data**

The Doctor Report needs to be modified so that it does not try to report Netcrypt™ data on systems earlier than SR 4.0.

### **CR 73824: Backout Script for DBDS Utilities Does Not Work on the HMS**

The backout script for DBDS Utilities needs to be modified so that it works on a Host Management System (HMS) server.

# 4

---

## Customer Information

### **If You Have Questions**

If you have technical questions, call Cisco Services for assistance. Follow the menu options to speak with a service engineer.

Access your company's extranet site to view or order additional technical publications. For accessing instructions, contact the representative who handles your account. Check your extranet site often as the information is updated frequently.







Cisco Systems, Inc.  
5030 Sugarloaf Parkway, Box 465447  
Lawrenceville, GA 30042

678 277-1120  
800 722-2009  
[www.cisco.com](http://www.cisco.com)

This document includes various trademarks of Cisco Systems, Inc. Please see the Notices section of this document for a list of the Cisco Systems, Inc. trademarks used in this document.

Product and service availability are subject to change without notice.

©2008, 2012 Cisco and/or its affiliates. All rights reserved.

May 2012 Printed in USA

Part Number 4020692 Rev B