



# DTACS 3.0 Release Note

## Overview

### Introduction

This release note describes the Digital Transport Adapter Control System (DTACS) version 3.0 software release. The DTACS controls subscriber DTA devices that perform D/A conversion for analog TVs in digital networks and DTA HD devices that allow analog and digital TV owners to view a variety of standard and high definition channels, including subscribed premium channels where offered.

The DTACS is installed on the same network as the DNCS (Digital Network Control System) and provides provisioning of basic and extended services, code downloads, package support, EAS, and AMMs for DTA authorization.

This release note contains the following information:

- New feature descriptions
- Media and software versions for this release
- Descriptions of implemented and open CRs (Change Requests)
- General information on contacting Cisco® Services

### Purpose

The purpose of this release is to distribute new features, feature enhancements and software fixes for DTACS 3.0.

### Scope

This release note provides an executive overview of DTACS 3.0. If you have questions about this release or require more detailed information, refer to the documents referenced throughout this document, or call Cisco Services at 1-866-787-3866.

### Audience

This release note is for sales and program managers, customer verification labs personnel, and system operators.

## New Features

### Document Version

This is the first formal release of this document.

### In This Document

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## New Features

New features for this release are described in this section.

### Services Packaging

Also known as service tiering, this feature provides greater flexibility for managing service authorizations to DTAs rather than managing authorizations by channel map assignment. Managing authorizations by channel map assignment is still supported, but becomes unmanageable when there is a large number of service combinations offered to subscribers.

### HD DTA Support

This feature, allows designation of services as HD or not and control of authorization of HD services to individual DTAs.

### DTA UI System Support

This system supports signaling messages that provide DTAs with the location of inband guide data. The system also supports an interface that obtains localized channel lineups for different Broadcast Service Groups.

### Usability Enhancements

A collection of enhancements have been added to simplify operation of the system user interface. For example, related data have been distributed into common screens and some screens have been reorganized for better usability.

### E-DTA Support

This feature provides support for E-DTA, which can stream identified services by way of DLNA for third-party devices. For this purpose, DTACS will manage two types of services called DLNA type and standard type under different SCID ranges: "DLNA Range" and "Standard Range."

For more information on configuring this feature, refer to *DTACS 3.0 Installation and Upgrade Guide* (part number OL-27508).

## New Features

### **Image Management Changes**

Image Management and CVT Management/Association Web User Interfaces (WUIs) are now kept separate from each other. When you use the Image Management WUI, the images are first added and configured to be transmitted. Then, separate WUIs are used to create the CVTs and associate them with BSGs and groups to be sent out. New WUIs to configure default location info for CVTs and carousel have also been provided.

### **Health Checker**

A command line utility known as the DTACS Health Checker has been added to provide a variety of information that lets you check the health of the system. This tool is similar to the doctor tool in DNCS. It provides information about the installed packages, the system's platform hardware, disk utilization, database table space, process status and CVT configuration, among other things.

# Site Requirements

This section provides information to help you prepare for the upgrade to DTACS 3.0. Please read this entire section before you upgrade.

## Upgrade Logistics

### Introduction

This section contains information that can help system operators plan an upgrade to DTACS 3.0.

### Time to Complete

The entire upgrade to DTACS 3.0 must be completed within a single maintenance window that usually starts around midnight. A few pre-upgrade procedures, consisting mainly of system checks, backups, and various operations upon the metadevices of the DNCS, can be completed *before* the maintenance window begins.

Cisco engineers have determined that a typical site can be upgraded within one maintenance window. See *Scheduling Requirements* (on page 6) for additional details.

### Supported Upgrade Path

Note these important upgrade requirements:

- To perform a software upgrade, the DTACS must currently be operating DTACS 1.2 or later.
- The upgrade software is on DVD. For upgrade instructions, refer to the *D9485 DAVIC QPSK Bridge Installation & Operation Guide* (part number OL-30211). Rollback procedures and software are also provided in the event that the upgrade is unsuccessful.
- System Release 5.1 or later must be running on the DNCS.
- Some tasks must be performed on the DNCS (Digital Network Control System). Refer to the *D9485 DAVIC QPSK Bridge Installation & Operation Guide* (part number OL-30211) for details.

### System Performance Impact

Interactive services will not be available during portions of the maintenance window.

## DTACS Server Hardware Platforms

### Introduction

This section describes the hardware configurations that are supported by DTACS 3.0.

### DTACS Hardware Configurations

Ensure your site meets the following DTACS hardware requirements before upgrading to DTACS 3.0. The following table lists the minimum requirements for the DTACS hardware platforms that are supported by DTACS 3.0.

| DTACS Server Platform | Hard Drive Configuration | Memory       | Processor                             |
|-----------------------|--------------------------|--------------|---------------------------------------|
| Sun Netra T5440       | ■ 4 x 146 GB             | ■ 32 GB min. | ■ 2 x UltraSPARC T2 1.2 GHz<br>8 core |
| Sun Netra T5220       | ■ 2 x 146 GB             | ■ 8 GB min.  | ■ 1 x UltraSPARC T2 1.2 GHz<br>4 core |

### Scheduling Requirements

With the live upgrade, your site only needs to be down for 2 to 3 hours during the entire upgrade process. Most of the upgrade procedures have no system impact. The pre-install and pre-upgrade steps can be performed at any time of day. However, the actual upgrade process normally takes place during a maintenance window beginning at midnight. The following table provides a breakdown of each upgrade process.

| Process     | Length of Time | Activity   |
|-------------|----------------|--|
| Pre-install | 1-3 hours      | Activities are performed by Cisco Services, including checking the overall health of the system. These activities do not impact the system.  |
| Pre-upgrade | 3-4 hours      | Backing up the system: <ul style="list-style-type: none"> <li>■ Back up the DTACS components</li> <li>■ Back up the DTACS Server files</li> <li>■ Complete system checks</li> </ul> These activities do not impact the system. |

|              |  |   |
|--------------|--|---|
| Upgrade      | <p>6-8 hours total; 2-3 of these hours require system outage</p> <p><b>Note:</b> Actual time may vary based on the number of devices being upgraded.</p> | <p>Upgrade the DBDS network:</p> <ul style="list-style-type: none"> <li>■ Back up the DTACS database</li> <li>■ Install the DTACS software</li> <li>■ Determine which optional features (licensed or unlicensed) need to be enabled as a result of this upgrade</li> <li>■ Reboot the hardware</li> <li>■ Complete functional checks</li> </ul> <p>Two to three hours of the upgrade require system outage.</p> |
| Post-Upgrade | 3-4 hours  | <p>Back up the system:</p> <ul style="list-style-type: none"> <li>■ Back up the file system</li> <li>■ Back up the DTACS database</li> </ul> <p>These activities do not impact the system.</p>  |

# Software Configuration

## Introduction

This section lists the software versions in each media kit supplied with DTACS 3.0.

## Antecedents

This release succeeds and carries forward all of the enhancements, features, and improvements of previous system releases and related service packs.

## Software Versions

The following tables list the contents of the DTACS 3.0 software DVD. The software components will be loaded onto the DTACS server during the installation.

| Components                       | Version Number         |
|----------------------------------|------------------------|
| <b>DVD</b>                       |                        |
| DTACS DVD                        | 3.0.0.13               |
| <b>Application Software</b>      |                        |
| DTACS Application (SAIdtacs)     | 3.0.0.18               |
| <b>Support Software</b>          |                        |
| DTACS Online Help (SAIdtacshelp) | 3.0.0.8                |
| <b>Platform Software</b>         |                        |
| Informix                         | 11.50.FC6              |
| Solaris                          | 10 10/09 Update 8      |
| Solaris Patches                  | 10.20100322.2-20110309 |
| DTACS Platform (dtacsplat)       | <removed>              |
| SAITools                         | <removed>              |
| SAIScpUpd                        | <removed>              |
| Backup and Restore               | 6.0.42                 |



## Implemented and Open CRs

This section contains information on implemented and open CRs for DTACS 3.0.

If you have questions or would like to order our products, please contact Cisco Services at 1-866-787-3866.

### Implemented CRs

This section provides a list of CRs found in previous DTACS releases that have been implemented in software for DTACS 3.0. CRs are arranged in ascending order by ID number.

| CR ID      | Title  |
|------------|--|
| CSCua27692 | Making UI_POLL_INTERVAL as configurable.   |
| CSCzk43239 | DTACS PID Route Provisioning WUI shows Define Sources button in wrong location.  |
| CSCzk43240 | DTACS BSG Provisioning WUI shows the Associate Source in wrong location on WUI.  |
| CSCzk43244 | SourceID field on DTACS CVT Entry WUI does not provide real time error checking. |
| CSCzk43253 | Stopping a DTACS process provides no confirmation message.                       |
| CSCzk43263 | DTA Management WUI does not have a filter for VCT or Activation State.           |
| CSCzk43265 | Field is needed on DTA Vendor and Hardware Management for description.           |
| CSCzk43271 | DTACS does not support a Timeout Parameter Value of less than 2.                 |
| CSCzk43279 | Valid DTACS Vendor ID values are reported out of range.                          |
| CSCzk46857 | DTACS IP Stream management WUI allows the addition of a second AMM stream.       |
| CSCzk46859 | Errant pop up warning when using the DTACS CVT Provisioning WUI.                 |
| CSCzk46863 | DTACS VCT can be saved with invalid package set description.                     |
| CSCzk46867 | DTACS DTA Management WUI does not display MAC address when editing.              |
| CSCzk46884 | DTACS 1.2 : CVT Provisioning WUI does not show the 18th entry to edit.           |
| CSCzk46900 | An unnecessary pulldown menu exists on the DTACS Image Association WUI.          |
| CSCzk46905 | DTACS 1.2 : CVT : Invalid characters are allowed in CVT Field and WUIerr.        |
| CSCzk46910 | DTACS 1.2 : Carousel Config WUI : Help link shows error.                         |

## Implemented and Open CRs

|            |   |
|------------|---|
| CSCzk63677 | DTACS should return invalid-pkg error to billing system for reqs w/ invalid pkgs. |
| CSCzk63681 | DTACS DTA Mgt UI needs changes to message displayed to the user.                  |
| CSCzp09117 | Help button on DTACS WUI does not display software version.                       |
| CSCuc31756 | Proper Error message should be displayed for createScidVctSource.                 |
| CSCud04923 | OSD message CRC failure when length is 245-248.                                   |
| CSCuc36723 | sql error on updating authcode with special character and block priority.         |
| CSCuc33282 | fail to generate scid when gaps in scid range.                                    |
| CSCuc82459 | OSD Messages should allow only valid ASCII character set.                         |
| CSCuc33260 | createScIDVCT script is coring when DLNA_RANGE_SIZE is set to null.               |
| CSCub71119 | DTACS Assigning a newly created VCT to DTA's is not successful.                   |
| CSCuc31781 | possible to execute createScidVctSource with invalid arguments.                   |
| CSCuc31870 | Not able to change DLNA range even if the SCID is deleted and expired.            |
| CSCuc90978 | DTA device 0x0/0x0 created during upgrade, and cannot be deleted.                 |
| CSCuc34241 | DTACS:dtaManager cores when a pkg in pkgset is deleted.                           |
| CSCue28250 | Not able to create CVT Association for 0xFFFFFFFF hardware type.                  |
| CSCue27971 | DTACS:Not able to create authcode with deleted pkgset - pkgs.                     |
| CSCue46082 | Problem with source having multiple segments on doing SyncDefPkg.                 |
| CSCuc19251 | Able to save authcode with invalid name in one scenario.                          |
| CSCue65440 | Edit BSG Management throws DtacsUIServer unreachable in a scenario.               |
| CSCue95030 | syncdefpkg does not work when Available Source column is empty.                   |
| CSCug48229 | Multiple QAM removal from Edit BSG/User defined pid route show exception.         |

## Enhancement CRs

This section provides a list of enhancement CRs found in previous DTACS releases that have been implemented in the software for DTACS 3.0. CRs are arranged in ascending order by ID number.

| CR ID      | Title   |
|------------|---|
| CSCts79883 | New PID Route Database Changes for DTACS 3.0.                             |
| CSCts95656 | Support RADIUS authentication for DTACS WebUI.                            |
| CSCtt07228 | DTACS 3.0 : Common Download : Enhancements.                               |
| CSCtt11362 | DTACS30 AmmDistributor development.                                       |
| CSCtt11567 | DTACS3.0:Feature work for SCTE65 profile to carry additional descriptors. |

|            |  |
|------------|--|
| CSCtt17255 | User defined Pid route sources - DTACS feature.                          |
| CSCtt25988 | DTACS 3.0: Changes to the AMM Management WUIs.                           |
| CSCtu20784 | SCC feature need to be enabled by default.                               |
| CSCtw66450 | DTACS 3.0 : Common Download : updates for 3.4.                           |
| CSCtw89513 | QAM Maximum PID routes feature.  |
| CSCtw92176 | DTACS 3.0:CASMIR Requirement.  |
| CSCtw99599 | CASMIR interface Security.   |
| CSCtx53505 | Script to generate SCIDs for All VCT sources.                            |
| CSCtx94070 | Bandwidth Management in DTA Manager.                                     |
| CSCtz43395 | script to set HD flag to true for all DTA's mac starting with 12:BF.     |
| CSCua27751 | Add osd and guide data Env variables to the Environmental variables WUI. |
| CSCua44716 | DB Synch Status History implementation changes.                          |
| CSCua72511 | Script To Assign Specified Group Id to list of DTAs.                     |
| CSCuc00808 | DTACS E-DTA Support Using SCID Ranges.                                   |
| CSCzk43278 | DTACS30:SysConf UI: SysConfig UI needs configurable timeout for DBSync.  |

## Open CRs

Use the Bug Toolkit to find information about open CRs that were identified during testing of DTACS 3.0. For more information, go to *Bug Toolkit* (on page 12).

## Bug Toolkit

The Bug Toolkit is an online tool that allows registered users to search for bugs by release or by a bug number.

### Searching for a Specific Bug

- 1 Go to [http://www.cisco.com/cgi-bin/Support/Bugtool/launch\\_bugtool.pl](http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl).
- 2 When prompted, log in with your user name and password. The Bug Toolkit page opens.  
**Note:** If you have not set up an account on Cisco.com, click **Register Now** and follow the on-screen instructions to register.
- 3 In the **Search for Bug ID** field, enter the ID of the bug you want to view and click **Go**.
- 4 The Bug Toolkit displays information about the bug in the **Search Bugs** tab.

### Search for a Specific Bug

- 1 Go to [http://www.cisco.com/cgi-bin/Support/Bugtool/launch\\_bugtool.pl](http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl).
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**Note:** If you have not set up an account on Cisco.com, click **Register Now** and follow the on-screen instructions to register.
- 3 In the **Search for Bug ID** field, enter the ID of the bug you want to view and click **Go**. The Bug Toolkit displays information about the bug in the **Search Bugs** tab.

### Search for Bugs Using Specific Criteria

Follow these instructions to use the following various search options to display specific bugs.

- 1 Go to [http://www.cisco.com/cgi-bin/Support/Bugtool/launch\\_bugtool.pl](http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl).
- 2 When prompted, log in with your user name and password. The Bug Toolkit page opens.  
**Note:** If you have not set up an account on Cisco.com, click **Register Now** and follow the on-screen instructions to register.
- 3 To search for all the bugs in this release, enter the following search criteria in the **Search Bugs** tab:
  - Select Product Category: Select **Video and Content Delivery**.
  - Select Products: Select **Application Server**.
  - Software Version: Select the desired software version number.
  - Select Version Type: Select one of the following options:
    - **Known Affected Version (KAV):** the software version/release assumed to contain this bug
    - **Fixed-in:** the software version/release in which the bug has been fixed

- **Found-in:** the software version/release in which the bug was first reported
  - Search for Keyword(s): Enter desired key words in this field. Separate search phrases with Boolean expressions (**AND**, **NOT**, **OR**) to search within the bug title and details.
  - Advanced Options: You can perform a search using the default search criteria, or define custom criteria for an advanced search. To customize the advanced search, select **Use custom settings for severity, status, and others** and provide the following information:
    - Severity – Select the severity level.
    - Status – Select any combination of **Terminated**, **Open**, or **Fixed**.
      - Select **Terminated** to view terminated bugs. To filter terminated bugs, clear the Terminated check box and select the appropriate sub-options that appear below the terminated check box. The sub-options are **Closed**, **Junked**, and **Unreproducible**.
      - Select **Open** to view all the open bugs. To filter the open bugs, clear the Open check box and select the appropriate sub-options that appear below the Open check box. The sub-options are **Assigned**, **Forwarded**, **Held**, **Information Required**, **More**, **New**, **Open**, **Postponed**, **Submitted**, and **Waiting**. Select multiple sub-options as required.
      - Select **Fixed** to view fixed bugs. To filter fixed bugs, clear the Fixed check box and select the appropriate sub-options that appear below the fixed check box. The sub-options are **Resolved** and **Verified**.
    - Advanced – Select the **Show only bugs containing bug details** check box to view only those bugs that contain detailed information, such as symptoms and workarounds.
    - Modified Date – Select this option if you want to filter bugs by the date they were last modified.
    - Results Displayed Per Page – Select the appropriate option from the list to restrict the number of results that appear per page
- 4 Click **Search**. The Bug Toolkit displays the list of bugs for this release.

## For Information

### If You Have Questions

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



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