

PowerKEY DTA Provisioning Guide

Overview

Introduction

This document provides the instructions for installing PowerKEY DTA samples into a DBDS system. These instructions may also be used to manually install PowerKEY DTAs. Experienced operators may find that some of the procedures may be replaced with local MSO procedures which accomplish the same end result for each section.

Audience

This guide is written for network operators and Cisco personnel who need to provision HD DTA set-top boxes in a PowerKEY environment.

Document Version

This is the first formal release of this document.

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Before You Begin

System Requirements

The following system requirements should be installed on headend components prior to provisioning the DTA:

- System Release 2.7/3.7/4.2 SP4 or later
- CA QAM Code: 2.6.2 or later
- MQAM Code: 2.7.2 or later
- GQAM Code: 4.3.9 or later

Note: Call the Cisco TAC to obtain the latest system requirements.

Checklist

The following items should be obtained prior to installing PowerKEY DTAs into the DBDS System:

Settop.res file

Note the following settop.res files are available: settop.v156 (production version)

xsettop.v32995.res (engineering version for Samples)

- EMMs
- Latest PowerKEY Client Code
- DTA Self Install Kit

For sample DTAs, the settop.res file will be emailed to designated recipient. The selfinstall kit will be mailed to designated recipient. EMMs will be delivered through normal electronic delivery methods and/or through email delivery. Verification of preloaded code on sample DTAs can be found in the Diagnostic Menu, under Code Objects. See your account manager if any of these items are missing.

For production orders, delivery of Settop.res file and EMMs will be delivered through normal electronic delivery methods.

Provisioning Overview

The provisioning procedures in this document address first-time installation of the items below.

- Copy and Load the settop.res file to DNCS
- Load DHCT type
- Load the EMM file onto the DNCS
- Setup Image Download
 - Create a DHCT Group (Optional)
 - Associate DHCT Downloads to a Group
- Connect, Provision, and Entitle the DTA
- Setup Image Download (Optional)

First-Time Provisioning Instructions

The following instructions may be replaced with local procedures as long as the local procedure achieves the same end result.

Copy and Load the settop.res File to the DNCS

The settop.res file is used to identify each hardware type. Samples going to customer sites may be either hardware revision 1.0 or 1.1. One of the following settop.res files should be loaded on the DNCS.

settop.v156 (production version)

xsettop.v32995.res (engineering version)

1 Copy the settop.res file into the target directory which has been designated to hold all of the settop.res files.

Example:

cp <path>settop.v156 /dvs/dvsresapp/.

Note: You may also FTP this file into the target directory.

2 Validate that the settop.res files exist in the direcory where they were copied. **Example:**

ls /dvs/resapp

- **3** On the Administrative Console, navigate to the Home Element Provisioning tab and select **Image**.
- 4 Click the Advanced menu and select Load DHCT Resource File.

00	0			🗴 Image List	
File	Advanced Yiew	_			
_	Load DHCT Resou				
Бом	n Force Download	To DHCT Groups	DHCT Downloads		
		File De	escription	Inage Id	
		DVD.DVR.MR_1.0.2_P	K_MCP100_F.p.0120.rom	2	
		DVR1.5.2_8300_DSG.	LR_F.p.1503.rom	7	
		DVR1.5.2_8300_DSG.	LR_F.p.2102.rom	8	
		DVR1.5.2_8300_MR.L	R_F.p.1503.rom	1	
		DVR1.5.2_8300_MR.L	R_F.p.1602.rom	4	
		DVR1.5.3_8300HDC_L	R_F.p.3901.rom	5	
		DVR1.5.7_8600HDC_L	R_F.p.0603.simg	10	
		DVR1.7.1_8600HD_LR	_F.p.0201.simg	9	
		DVR1.98600HD_HR	_F.p.0901.simg	16	
		DVR1.9.0_8300_MR.H	R_F.p.0401.rom	12 7	

- 5 Click **Browse** and navigate to the directory where the settop.res file resides.
- 6 Click Save.
- 7 Repeat steps 1 and 2 for each settop.res file.

Load the DHCT Type

I

Enter the settop type into the DNCS using the Administrative Console.

1 From Home Element Provisioning, select **Type**. The DHCT Type List window appears:

<u>F</u> ile	View	•		He
Гуре	Rev	OUI	Nane	
170	10	00:02:DE	PowerKEY HD-DTR170	
430	29	00:22:CE	430 Test Box	
802	11	00:02:DE	Explorer 0802 version 1.1	
802	12	00:02:DE	Explorer 0802 version 1.2	
805	10	00:02:DE	Explorer 0805 version 1.0	
3040	15	00:02:DE	Explorer 3040 version 1.5	
4652	32	00:02:DE	Explorer 4652 version 3.2	
8300	11	00:02:DE	Explorer 8300MR version 1.1	
8300	11	00:0F:21	Explorer 8300 v1.1 Dunny	
8300	22	00:02:DE	Explorer 8300 version 2,2	

2 Click File and select New. The Set Up DHCT Type window appears.

000	🔀 Set Up DHCT Type
DHCT Type Number:	Revision: Org. Unit ID:
Nane:	Y
Yendor:	, and the second se
S/W Table of Contents:	Select
Boot Page Name:	- none -
Save	Cancel Help

3 Enter the following information:

DHCT Type Number:	170
Revision:	11 (for Revision 1.1) or 10 (for Revision 1.0)
Org. Unit ID:	00:02:DE
Name:	Powerkey HD DTA 170 V1.1 or Powerkey HD DTA 170 V1.0
Vendor:	Cisco
S/W Table of Contents:	(Leave Blank)
Boot Page Name:	(Leave Blank)

First-Time Provisioning Instructions

000	🔀 Set Up DHCT Type
DHCT Type Number:	170 Revision: 11 Org. Unit ID: 00:02:de (hex)
Nane:	PowerKey HD DTA 170 V1.1
Yendor:	¥
S/W Table of Contents:	Select
Boot Page Name:	- none -
Save	Cancel Help

- 4 Click Save.
- **5** Repeat steps 3 and 4 for Revision 10 and PowerKEY HD DTA 170 V1.0 values, if necessary.

Load EMM Files Onto the DNCS

This procedure may be replaced by local MSO procedures which load the EMM files onto the DNCS.

- 1 Copy the EMM file into the desired location. cp <path>/<tarfile.tar> /dvs/dvsresapp/
 - cp <patil/ <talile.tal / uvs/ uvs/
- **2** Untar the file.

Example:

tar -xvf <tarfile.tar>

A file named similar to SP00773405-COMPLETE gets extracted into the directory. Inventory and TOC files will be found in this directory.

Note: The SP########-COMPLETE file may be untarred on other devices and copied over.

Set Up Image Download

1 Download the image in the normal fashion to the DNCS directory where the images are stored. An image for the HD DTA may be similar to the following name:

```
HDA2-5-0-0153_170_r11877_F_CVT.p.simg
```

2 From the Administrative Console, click the Home Element Provisioning tab and select **Image**.

000		X DNCS Administrative	Console Host: dncsatm			
File					He	elp
	DNCS	App Inter	lication ace Modules		Server Applications	
	System Provisioning Network	Element Provisioning	Home Element Provis	ioning	Utilities]	
	DHCT Provisioning Type DHCT Bo CableCARD Provisioning CableCARD	ot Page OS	Image			
	Trusted Domain Provisioning					
	Home Account					
_						

3 From the Downloadable Files tab, click **File** and select **New**.

<u>ile A</u> dvanced <u>Y</u> iew			H
Downloadable Files	DHCT Groups DHCT Downloads		
	File Description	Inage Id]
	DVD.DVR.MR_1.0.2_PK_MCP100_F.p.0120.rom	2	A
	DVR1.5.2_8300_DSG.LR_F.p.1503.rom	7	
	DVR1.5.2_8300_DSG.LR_F.p.2102.ron	8	
	DVR1.5.2_8300_MR.LR_F.p.1503.rom	1	1 - -
	DYR1.5.2_8300_MR.LR_F.p.1602.rom	4	
	DYR1.5.3_8300HDC_LR_F.p.3901.rom	5	1
	DYR1.5.7_8600HDC_LR_F.p.0603.sing	10	
	DVR1.7.1_8600HD_LR_F.p.0201.sing	9	
	DVR1.98600HD_HR_F.p.0901.sing	16	
	DVR1.9.0_8300_MR.HR_F.p.0401.rom	12	V V
	,	,	

- **4** The Set Up Downloadable File window appears. Populate the following fields and click **Save**:
 - **Image ID:** Select a used image ID number.
 - **File:** Browse to the DTA image file that will be used.

First-Time Provisioning Instructions

-	i on: Provide a description	n for the image.
000	🗴 Set Up Downloadable File	
Inage ID:	45	
File:]/dvs/resapp/HDA2-5-0	Browse
Description:	HDA2-5-0123_170_r118	
File Name:		
Save	Cancel	Help

Create a DHCT Group (Optional)

You can setup a group to segregate a group of DTA and associate a code download to these DTAs by using the steps below. If you do not want to associate a group with code, the default group ID will be 0.

1 To create a special group for the DTAs, go to the DHCT Group tab, click **File** and select **New**.

000	🔀 Ima	age List
<u>File Advanced Yiew</u>		Нејр
C		
Downloadable Files	DHCT Groups DHC	CT Downloads
	Group Description	Group Id
	Default 0	

2 The Set Up DHCT Group window appears. Populate the following fields and click **Save** when complete.

Group ID: A number identifying the group for the HD DTA.

Group Name: A descriptive name which identifies the group.

DHCT MAC Address: Type the MAC Address of the HD DTA and then click **Add**. If you want this group to be the default group for HD DTAs, then you do not need to add any MAC addresses. Proceed to the next step.

000		🔀 Set Up DHCT (Group		
Group ID: Group Name:	21 <u>ľ</u> HD -DT.	Asj	Ī		
DHCT MAC Addr 12:BF:20:10: Default Gr	07:71]	Add >> << Renove		sociated DHCTs :20:10:D7:71	
Save		Cancel		Нејр	
1					_

3 Click Save.

Associate DHCT Downloads to a Group

Set up the download association for the group and the image.

1 From the Image List window, go to the DHCT Downloads tab. Then click **File** and select **New**.

e	Advanced Yiew					ŀ
wnlo	badable Files DHCT Groups	DHCT Dowr	nloads			
	DHCT Type	Group	File Description	Download Scheduling	Carousel	
	Explorer 8300MR version 1.1	Default	DVR1.9.0_8300_MR.HR_F.p.0401.rom	Innediate	bootloader (199)	
j	Explorer 8300DVD version 4.1	Default	DVD.DVR.MR_1.0.2_PK_MCP100_F.p.0120.rom	Innediate	bootloader (199)	
	Explorer 8300HDC version 6.3	Default	DVR1.5.3_8300HDC_LR_F.p.3901.ron	Innediate	bootloader (199)	
	Explorer 0802 version 1.1	Default	PKEY1.5.2_F.p.2401.ron	Innediate	bootloader (199)	
	Explorer 8640HDC version 1.1	Default	DVR1.5.7_8600HDC_LR_F.p.0603.sing	Innediate	bootloader (199)	
	Explorer 8300D0CSIS version 2.9	Default	DVR1.5.2_8300_DSG.LR_F.p.2102.rom	Innediate	bootloader (199)	
	Explorer 0802 version 1.2	Default	PKEY1.5.2_F.p.2401.ron	Innediate	bootloader (199)	
j	Explorer 8642 version 1.4	Default	DVR1.5.7_8600HDC_LR_F.p.0603.sing	Innediate	bootloader (199)	
j	Explorer 8600 version 1.3	Default	stb-p-8k-S-03.00.07.110.sing	Energency	bootloader (199)	
	PowerKEY HD-DTR170	Default	HDR2-5-0-0123_170_r11877_F_CVT.p.sing	Normal	bootloader (199)	

Save complete.

2 Populate the following fields and click **Save**:

DHCT Type: Select the DHCT Type that was established earlier in these instructions.

Group: Select the Group Name that was established earlier or use default group. **File Description:** Select the Image Description Name

Download Scheduling: Choose one of the following: Normal, Immediate, Emergency

Carousel: Select the BFS Carousel

Connect, Provision, and Entitle the DTA

- 1 On the Administrative Console, go to the Home Element Provisioning tab and select **DHCT**.
- 2 Click **New**, and enter the MAC Address of the DTA.

000	A DHC	FIOVISIO	iing	
Select Option:	🔶 New	🔷 Open	🔷 Delet	e
New DHCT:				
💠 By MAC Addre	ess: (#)	:01.j2b:e1	:23:45	
∲By IP Addres	as: I	* * *	•	
∲By Serial No	mber:		「	
◆ Batch Instal	u: I			Select
Continue		Cancel		Help

- 3 Click Batch Install and click Select.
- 4 Navigate to where the EMM Files are located and click OK.
 O O Select Batch CD Directory

Filter	
/rmdisk/unnamed_rmdisk/SP00773405-COMPLE	TE/*[
Directories	Files
named_rmdisk/SP00773405-COMPLETE/. named_rmdisk/SP00773405-COMPLETE/ named_rmdisk/SP00773405-COMPLETE/DNCS	INVENTRY A TOC
Selection	1
/rmdisk/unnamed_rmdisk/SP00773405-COMPLE	TE/ <u>ľ</u>
OK Filter	Cancel

- 5 Click Continue.
- 6 On the Batch Install Process Screen, click **Continue**.
- 7 Click Close when complete.
- 8 From the DHCT Provisioning window, click **Open** and select **Continue**. The DHCT window will open.

- **9** Go to the Communications tab and populate the following:
 - **Admin State:** In Service One Way
 - **Type:** Select either 1.1 for rev 11 box types.
- **10** Go to the Secure Services tab:
 - Verify that the PowerKEY EMMs are populated.
 - Select the packages to add and click Add. If a brick package is provisioned on the system, this package will need to be selected as well.
 - Select the **DMS Enable** and **DIS Enable** boxes.
- 11 Click Save.
- **12** Make the following physical connections to the DTA:
 - **Cable In:** Connect a coax cable which is delivering the signal.
 - TV Out or HDMI: Connect a coax cable between the DTA and the TV if using an analog TV. Or, if the TV has an HDMI connector, connect the HDMI cable between the DTA and the TV.
 - **DC Power Input:** Connect the Power supply between the DTA and a power outlet.
- **13** Watch the box for boot up info. If after 5 minutes, it does not appear to boot, send an instant hit to the box.
- **14** When the DTA is powered on, check for the following items in the Diagnostic Menu. (On the remote control, press and hold the **Info** button for a few seconds to view the Diagnostic screen.)
 - Status:
 - Red may indicate that the DTA is not provisioned.
 - Brick may indicate that the brick package is required or that EMMs are invalid. Check the Received Messages to see if EMMs have incremented.
 - Green indicates that the box has been successfully provisioned.
 - QPSK Status Pg 1: Lock Status should be "Locked"
 - **QPSK Status Pg 2:** Packet counts should be incrementing. If not, note which ones are not.
 - QPSK Status Pg 3:
 - The UNConfig Count should be > 0x0. If this does not increment, then the sample box should be configure with DTA Hardware Type 10. Follow the instructions in the section labeled: Load the DHCT TYPE
 - The **UNConfig Hub ID** should contain the hex value of the Hub ID.
 - **BFS Status** should be Ready: If not this indicates an issue with the BFS Pump. Please call the TAC for further assistance.
 - POD Channel Status should be ready. When the channel map information is found, this becomes ready. If it is not found, then look at the Doctor Report to determine if the POD_CHANNELS entry on the BFS Carousel is disabled. Please call the TAC for further assistance.
 - Virtual Channel Map: Should be populated with the channel map information.
 - Tuner Status: Should be locked onto a QAM frequency. The Power Level and Signal to Noise should be green.

Update Client Code

1 Download the image in the normal fashion to the DNCS directory where the images are stored. An image for the HD DTA may be similar to the following name:

HDA2-5-0-0153_170_r11877_F_CVT.p.simg

2 From the Administrative Console, click the Home Element Provisioning tab and select **Image**.

	Replica Interface	ution Modules	-	Server
ng Network Elem	ent Provisioning He	ome Element Provi	sioning	Utilities
-	ge OS	Image		
ovisioning				
t				
	ning	ng Network Element Provisioning Ho ning DHCT Boot Page OS ovisioning	ng Network Element Provisioning Home Element Provi ning DHCT Boot Page OS Image ovisioning	ng Network Element Provisioning Home Element Provisioning DHCT Boot Page OS Image ovisioning

- **3** Select the DHCT Downloads tab and highlight the group that you would like to associate with the new code.
- 4 Click File and select Open.
- 5 Use the pulldown menu to update the image with the newly downloaded code.
- 6 Click Save.

Diagnostic Screens

To view the diagnostic screen, point the remote at the DTA and hold the **Info** button for a few seconds.

Front Panel LEDs

LED Color	Blinking Pattern	Meaning	
Green	Slow steady blink	The DTA is in hunt mode, or the service has been interrupted. Customers should not need call the service provider.	
	Three short blinks	Code is downloading.	
	Steady (not blinking)	Normal mode.	
Red	Two short blinks	Activation support mode, or the service has been interrupted. Customers should call the service provider, who will determine whether the DTA needs activation.	
	One long blink followed by four short blinks	The DTA is receiving content that it cannot encrypt.	
	Steady (not blinking)	Standby mode.	

DTA Boot Sequence

To follow the PowerKEY DTA boot sequence through the diagnostic screens, point the remote control at the DTA and hold the INFO button for a few seconds. The Diagnostic Main Menu appears.

Diagnostic Main Menu - PKEY → General Info HD DTA Status Tuner Status Current Channel Status Virtual Channel Map Received Messages Code Objects Code Download HDMI Networking Logs QPSK Status CA Status CPU Status

QPSK Status (1 of 3)

The QPSK will lock onto the frequency. Power Level (dBmV) and Signal-to-Noise should be in an acceptable range.

QPSK Status (1 of 3)	
Tuned Frequency	94.250 MHz
Lock Status	Locked
Power Level (dBmV)	-0.47
Signal-to-Noise	34.5 dB
Seconds Locked	1234
Correct Bytes	25
Uncorrected Blocks	
Buffer Overflow	0x0

Arrow $^/$ to scroll, LAST to return, 7 to exit

QPSK Status (2 of 3)

Packet counts begin to increment, and associated rates are displayed for each type of message.

QPSK Status	(2 of 3)			
Str	eam Packet Cour			
		Num Packets	Curr Bps	
DA	VIC	0x1788	440	
BC		0xE2B8	143360	
SI		0x698	3084	
CA		0xF9	65	
Pas	ssThru	0x0	0	
Arrow ^/v to	scroll, LAST to re	eturn, 7 to exit		

QPSK Status (3 of 3)

PSK Status (3 of 3)	
UNConfig Count	42
UNConfig Hub ID	0x1234
LUG ID	N/U
Virtual Hub ID	0x5678
VCT ID	0x5678
BFS Status	Ready
BFS Timestamp	04 Nov 2011 21:03:45
POD Channel Status	Ready
MMI Txt Status	Ready
Group Defs Txt Status	Ready
Bcast Pass Thru Count	1234
Unicast Pass Thru Count	

Arrow $^/$ to scroll, LAST to return, 7 to exit

- Hub ID shows the Hub ID number where the DTA is located.
- **UNConfig Count** shows a number larger 0x0 when the Hardware ID for the DTA is found.
- **BFS Status** shows a status of Ready when the BFS carousels are all available.
- POD Channel Status shows Ready when the channel map information is found. If the channel map information is not found, look at the Doctor Report to determine if the POD_CHANNELS entry on the BFS Carousel is disabled. The POD_CHANNELS datapump should be shown as enabled on the Doctor Report. In the example below, the doctor report shows that the POD_CHANNELS is disabled. Refer to *Troubleshooting* (on page 21) for instructions to enable the POD_Channels data pump, if required.

POD	POD_CHANNELS are disabled.										
BFS	BFS Carousel and OSM Sessions Status										
						=Data	arate=	=KBytes=	=Intrvl=	=Enabled=	=ACCT=
OK:	SystemCarousel	OOB	S(0)	up	.01	Mbps	19.689	200	Y	0:17
OK:	Out-Of-Band	OOB	s(1)	up	.10	Mbps	15.754	200	Y	0:01
OK:	In-Band	IB	s(2)	up	1.00	Mbps	44591.908	100	Y	6:41
OK:	CAM OOB	OOB	s(3)	up	.01	Mbps	7.546	200	Y	0:06
OK:	CAM IB	IB	s(4)	up	1.00	Mbps	0	100	Y	0:00
OK:	IPG OOB	OOB	s(5)	up	.05	Mbps	2031.792	200	Y	6:05
OK:	IPG IB	IB	s(6)	up	1.00	Mbps	1034.188	100	Y	0:09
OK:	PPV OOB	OOB	s(7)	up	.01	Mbps	1.752	200	Y	0:01
OK:	PPV IB	IB	s(8)	up	1.00	Mbps	7.332	100	Y	0:00
OK:	SAM	OOB	s(9)	up	.10	Mbps	81.215	100	Y	0:07
OK:	IPG2_IB	IB	s(10)	up	1.00	Mbps	1013.884	100	× 1	0:09
OK:	POD_CHANNELS	OOB	s (11)	up	.03	Mbps	132.773	200	N	0:39

 MMI Txt Status shows Ready if the phone number of the service provider is defined in the MMI.TXT file, in the BFS Cabinet under POD_DATA directory. • **Group Defs Txt Status** shows Ready when the group_defs.txt is present on the OOB BFS. The file is located under the Enhanced Channel Map rules file and is not required to be present in order for the DTA to work.

Tuner Status (1 of 2)

The tuner status allows you to see whether the DTA has locked onto the tuner and the frequency where it is locked.

	34
	05 Nov 2008 21:03:45
Corrected Bytes	
Uncorrected Blocks	
	Locked
Arrow $\wedge/\!\!\!\vee$ to scroll, LAST to return, 7 to exit	

Virtual Channel Map

The Virtual Channel Map screen displays the channel map and source details.

Virtual Channel Map (1 of 10) Loaded

	Channel Ma	ap VCT ID:0x1	1234(4660),	160 channe	
VC	SrcID	SrcName	CDSRef	QAM	Prog
	4103	BET	565.250	QAM256	
	4112	Cartoon	565.250	QAM256	
	4151	Comedy	565.250	QAM256	
5	4107	MTV	565.250	QAM256	
	10008	Disney	565.250	QAM256	5
	4156	Nick	565.250	QAM256	
	4166	Syfy	565.250	QAM256	
		AMC	565.250	QAM256	
10	4178	Disc	565.250	QAM256	
11	4181	TLC	565.250	QAM256	10
12	8282	Bio	565.250	QAM256	11
13	11446	Speed	565.250	QAM256	12

Arrow $^{/\vee}$ to scroll, LAST to return, 7 to exit(*=Hidden)

Code Objects

An asterisk indicates the current software running on the DTA. If a failure occurs while booting from one bank, the DTA will boot from the second bank.

```
Code Objects
```

	Object Name
Bank A*	HDA2-5-0-0161-170-r22506_F.p.pkg.simg
Bank B	HDA2-5-0-0158-170-r22290_F.p.pkg.simg

Cisco Specific Info

Bank A Image ID	0x36E
Bank A Image Version	0250016
Bank A CVT Version	1234
Bank B Image ID	0x7
Bank B Image Version	0250015
Bank B CVT Version	1235
Bootloader Version	V1.2.3

LAST to return, 7 to exit (*In Use)

Troubleshooting

Issue: DNCS Utilities does not work (modDhctCfg, tellDhct, IIH)

- There is a known issue with using DHCT utilities such as tellDhct and modDhctCfg commands on devices, whose mac addresses do not begin with "0". Depending on the system release of your DNCS, there is an appropriate patch. For a SR 4.2 (SAIdncs 4.2.0.31p3) system, the patch required is: 4.2.0.31p9EP8. the 4.3 patch is: 4.3.0.14p5EP35. The 4.3.1 patch is DNCS_4.3.1.6p7.
- modDhctCfg works with 17 Characters: modDhctCfg -s 12:bf:2001:02:9b does Not Work

Issue: Boxes will not decrypt video but have a green status and indicate they are decrypting.

With the HD DTA170 HW Rev 1.1, some boxes were incorrectly built and require using the 1.0 Type.

If you have run through the detailed instructions and are not able to see video, verify the following:

- **1** Point the remote at the DTA and hold the **Info** button for a few seconds until the diagnostic screen appears.
- 2 Scroll down to QPSK Status and press Enter to select.
- **3** On page 1, verify that the lock status indicates Locked and has selected the correct frequency. If not, see QPSK Lock Issue.
- 4 If the QPSK has locked to the correct frequency, press CH to go to page 3 of the QPSK Status.
- 5 Verify that the UNConfig Hub ID count is greater than 0x0. If the value is 0x0, change the box type to 1.1. Save and perform an Instant Hit on the DTA.

Solution:

- Settop.res files were provided for both types of boxes and loaded.
- Both DTA types should be configured on the DNCS.
- On the DHCT screen, change the type from 1.1 to 1.0. Save and hit the box.

Issue: Black Screen or Service Interruption Message.

This problem only affects digital broadcast service from CAQAMs. There is a bug on the CAQAM which only affect HD DTAs in a PowerKEY environment.

To verify the issue, check to see that encrypted video is not shown on CAQAMs but is shown on MQAMs or GQAMs.

Contact the TAC to get a CAQAM patch to 2.6.2.

Issue: The DTA is in Brick Mode even though the brick package is applied.

With this issue, the DTA shows the Status in Brick Mode even though the brick package is applied.

Troubleshooting

Possible Solution: The EMMs may have been incorrectly built. Request a new set of EMMs.

Issue: POD_Channels data pump needs to be enabled.

To enable the POD_CHANNELS data pump, go to the Administrative Console and select: **BFS Admin – Sources – File – Open POD_CHANNELS – Run on Datapump**. You do not need to restart the BFS for this change to take effect.

For Information

If You Have Questions

Americas Headquarters

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

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