



# Cisco Videoscape Voyager Vantage Configuration Guide



# 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

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# Contents

<b>About This Guide</b>	<b>v</b>
<b>Introducing the Vantage Client User Interface</b>	<b>1</b>
What is the VantageClient User Interface?.....	2
<b>Provision Authorization for Services</b>	<b>3</b>
Create an Entitlement Package .....	4
Determine the EID (Decimal) Value.....	5
Create a SAM Service .....	6
Set Up Services on Set-Tops .....	8
What's Next?.....	10
<b>Installing and Authorizing Themes</b>	<b>11</b>
Load Theme on BFS.....	12
Allow Subscribers to Select from Multiple Themes .....	13
Globally Use Default Theme .....	14
Troubleshooting Themes .....	15
<b>Multi-Room DVR</b>	<b>17</b>
Process Overview.....	18
Support MoCA Devices .....	19
Optional Features.....	25
<b>Configuring the Vantage Client for VOD Entitlement and Poster Art</b>	<b>27</b>
VOD Entitlement.....	28
Third Party VOD Server Compatibility .....	30
Poster Art .....	32
<b>Defining Walled Gardens</b>	<b>43</b>
Configuring and Authorizing Walled Gardens.....	44
Walled Garden SAM Service Settings.....	45
Create the Walled Garden Package.....	49

Assign the Walled Garden Package to the Set-Top..... 50

**Configuration Options** **51**

Downloadable Configuration Files ..... 52

Configuration Variables..... 53

# About This Guide

## Introduction

This document provides instructions to provision authorization for services (downloadable objects, DVR, Walled Garden, or other services, such as MR-DVR and Remote DVR) on set-tops operating with the Cisco® Videoscape Voyager Vantage (Vantage) Client User Interface. Vantage is the on-screen interface of your set-top that you use to navigate, control, and interact with your cable TV (CATV) service. This guide covers features for the Vantage 3.0 series.

The user interface and your set-top bring a rich, new set of interactive services directly to you.

Vantage is a browser-based application framework that leverages the latest W3C standards to enable a high degree of customization in User Interface (UI) design. Vantage also allows for personalization of the experience at the consumer level while maintaining key elements of the service provider branded experience.

As an example, the consumer can customize their individual experience to get access to the content and applications that matter most to them. This advanced next-generation client delivers a rich and industry-leading consumer navigation and applications experience.

## Audience

This document is intended for operators of a Digital Network Control System (DNCS).

## Document Version

This is the second release of this document.





# 1

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## Introducing the Vantage Client User Interface

### Introduction

This chapter provides a brief description of the highlights available for systems implementing the Vantage Client User Interface.

### In This Chapter

- What is the VantageClient User Interface? ..... 2

## What is the VantageClient User Interface?

The Cisco Vantage Client User Interface is the on-screen interface of a set-top that subscribers use to navigate, control, and interact with their cable television (CATV) service.

The user interface provides a rich, new set of interactive services directly to your subscribers.

Available set-top services may include some or all of the following features:

- **Digital Video Recorder (DVR)** – Allows subscribers to record favorite programs so that they can still go to a friend’s house for dinner and not miss a favorite TV show
- **Pause Live TV** – Allows subscribers to pay for the pizza and come back to the show where they left it
- **High-Definition (HD)** – Provides crystal-clear pictures and sound when compared to standard definition – subscribers won’t want to watch television any other way once they've experienced HD
- **Video-On-Demand (VOD)** – Gives subscribers access to an enormous library of movies and programs that they can watch – when they want to watch them
- **Interactive Services** – Provides access to interactive online content, including data such as news, weather, and online photos. No more leaving the comfort of the couch to access valuable online information
- **Multi-Room DVR (MR-DVR)** – Provides DVR-like functionality to diskless (non-DVR) devices within the home network, allowing users to view all content from any DVRs in the home on any client devices in the home. MR-DVR capability allows users to browse a unified list of all recordings on all devices within the home and stream a program from any DVR to any STB in the home
- **Remote DVR (R-DVR)** – Provides an interface that is used by DVR Scheduling and DVR Management applications that are running on a remote device but wish to browse or modify DVR assets (recordings) on a DVR set-top device

Refer to the *Cisco Videoscape Voyager Vantage Client User Interface User Guide* (part number OL-26393-01) for additional details.

# 2

## Provision Authorization for Services

### Introduction

This chapter provides instructions to provision authorization for the following services on Cisco Vantage-compatible set-tops:

- Downloadable objects, such as applications, themes, logos, and language packages
- DVR
- MR-DVR
- R-DVR

Once the procedures in this section are complete, the authorization package can be added to the applicable set-tops via the DNCS or the Billing System.

For instructions to authorize a Walled Garden service, skip to the *Defining Walled Gardens* chapter in this document.

### In This Chapter

- Create an Entitlement Package ..... 4
- Determine the EID (Decimal) Value..... 5
- Create a SAM Service ..... 6
- Set Up Services on Set-Tops ..... 8
- What's Next?..... 10

## Create an Entitlement Package

Complete the following steps to create a new package for the services or applications that you want to provision. If you have already created the package you want to use for the service, skip to the section *Determine the EID (Decimal) Value* (on page 5).

- 1 On the DNCS Administrative Console, click **Package** from the System Provisioning tab. The Package List window opens.
- 2 Select **File > New** to open the Set Up Package window.
- 3 Enter a unique name for the package.
- 4 Click **Save**. The package is created.

## Determine the EID (Decimal) Value

Complete the steps below to determine the EID (decimal) value of the service you want to authorize.

- 1 Open the package you will use to authorize the service and record the EID (decimal) value: \_\_\_\_\_.

The screenshot shows the 'Set Up Package' dialog box with the following details:

- Package Name: DVR\_srv
- EID: 11e (hex)
- Duration: Unlimited (selected)
- Start Date: 12/31/1969
- Start Time: 07:00:00 PM
- Length: 0 days, 0 hours, 0 minutes
- Pay Per View:  (unchecked)
- Right To Copy:  Allowed
- Impulse Pay Per View:  (unchecked)
- Preview tab selected, showing:
  - Start Date: MM/DD/YYYY
  - Start Time: HH:MM:SS AM
  - Duration: 0 hours, 0 minutes
- Allow Event Extension:  (unchecked)
- Buttons: Save, Cancel, Help

- 2 Click **Cancel** to close the Set Up Package window.
- 3 In the Package List window, select **File > Close** to close the window.
- 4 Continue with Create a SAM Service.

## Create a SAM Service

Complete the following steps to create a SAM service for the package you created.

**Note:** Multiple SAM services can be associated with one entitlement package.

- 1 From the DNCS Administrative Console, select the **Application Interface Modules** tab.
- 2 Click the **SAM Service** button. The SAM Service List window opens.
- 3 Click **File > New**. The Set Up SAM Service window opens.
- 4 Configure the SAM Service variables per the guidelines below.
  - **Service Name** (required) - This name is only available and shown to users of the DNCS who have access to the SAM Services List. Make this descriptive enough to understand which service is being offered. End users will not see this field.
  - **Short Description** (required) - The short description must match one of the values defined in this document; the Vantage UI will use these short description values to determine if those services are being provisioned.

The following short description names are reserved for provisioning services. Each of these short descriptions must only be used once per system and must be used **exactly** as shown.

Service Type	SAM Short Description
Brick package	_BASE
MR-DVR	_MRDV
	Note: Before you set up a SAM Service for MR-DVR, refer to the Multi-Room DVR chapter for an overview of the end-to-end process required to support the MR-DVR feature.
Remote DVR	_RDVR
DVR	_SADV
Switched Digital Video (SDV)	_SASD
Downloadable objects	_<downloadable package ID>
	Note: See the Configuring Downloadable Objects for Cisco Videoscape Voyager Vantage (part number OL-26414) document for details.

## Provision Authorization for Services

Walled Gardens	_<reserved walled garden ID> Note: See the Defining Walled Gardens chapter for details.
VOD	_VOD
VOD Search	_VODS Note: This feature is available in Vantage 3.2 and up.
EPG Search	_EPGS Note: This feature is available in Vantage 3.2 and up.

- **Long Description** - The long description may be used to clarify the short description.
- **Application URL** - The application URL provides additional information for how the service is authorized. Enter **DummyURL;eid=<EID decimal value>**; using the EID information you recorded in step 1 of the *Determine the EID (Decimal) Value* (on page 5) procedure.  
**Note:** One package can support multiple services by reusing the EID information for each associated service.
- **Logo** - Enter 0 (zero).
- **Parameter** - Select the bullet next to **Number** and type 0 in the field.

### Example: Set Up SAM Service Window

The screenshot shows a dialog box titled "Set Up SAM Service". The fields are filled with the following values:

- Service ID: 134
- Service Name: DVR
- Short Description: \_SADV
- Long Description: Enable DVR Service
- Application URL: DummyURL;EID=8
- Logo: 0
- Parameter: Number: 0, String:

Buttons for Save, Cancel, and Help are visible at the bottom of the dialog.

- 5 Click Save.

## Set Up Services on Set-Tops

Complete the following steps to set up service(s) on a set-top.

**WARNING!** Before you perform these steps for MR-DVR service, read the *Multi-Room DVR* chapter and complete the procedures applicable to your configuration.

- 1 From the DNCS Administrative Console, select the **Home Element Provisioning** tab.
- 2 Click the **DHCT** button. The DHCT Provisioning window opens.
- 3 Click the **Open** button and enter the MAC Address, IP address or serial number of the target DHCT.
- 4 Click the **Continue** button. The Set Up DHCT window opens.
- 5 Click the **Secure Services** tab.
- 6 Click the service package name in the Available window and click the **Add** button to move the package to the Selected window.
- 7 Click the **Save** button.



# Provision Authorization for Services

**Set Up DHCT**

MAC Address: **00:23:BE:64:68:CA**

Communications | **Secure Services**

Secure Element Serial Number: **00:23:BE:64:68:CA**

Key Certificate

Powerkey  User

Powerkey name: C=US;O=Scientific-Atlanta;OU=Scientific-Atlanta Mexico;CN=PK0002debffdfb

Clear Load from batch CD..

Packages

Available	Selected
VOD_PreEncrypt	Avail
Vod_svc	MeDvr_svc
terry_test	Dvr_svc
terry_test2	

Add >> << Remove

Options

IPPV Enable

IPPV Credit Limit: 0

Max. IPPV Events: 0

DMS Enable  DIS Enable  Analog Enable

Fast Refresh Enable

Location X: 0 Y: 0

DHCT Instant Hit Poll DHCT for IPPV Data

Save Cancel Help

## What's Next?

Repeat the procedures in this chapter for each service you want to authorize.

Some services require additional steps to complete implementation for the associated feature. Use the following table to determine next steps for the service you created.

<b>Service Type</b>	<b>Refer to</b>
MR-DVR	<i>Multi-Room DVR</i> chapter in this document.
Downloadable Objects	<i>Configuring Downloadable Objects for Cisco Videoscape Voyager Vantage</i> (part number OL-26414).
Walled Gardens	<i>Defining Walled Gardens</i> chapter in this document.

# 3

---

## Installing and Authorizing Themes

### Introduction

This chapter provides instructions to implement the Vantage themes feature.

### In This Chapter

- Load Theme on BFS..... 12
- Allow Subscribers to Select from Multiple Themes..... 13
- Globally Use Default Theme ..... 14
- Troubleshooting Themes ..... 15

## Load Theme on BFS

For instructions to create, load, and authorize a theme object, refer to *Configuring Downloadable Objects for Cisco Videoscape Voyager Vantage* (part number OL-26414).

Then, proceed with procedures below to modify the global configuration file and set up DNCS to support themes.

## Allow Subscribers to Select from Multiple Themes

### Modify Global Configuration File to Support Multiple Themes

Complete the following steps to modify the global configuration file to allow subscribers to select from multiple themes.

**Note:** Only codes that have been authorized will be made available to the end-user. Instructions to add and authorize themes are provided in *Configuring Downloadable Objects for Cisco Videoscape Voyager Vantage* (part number OL-26414).

- 1 Open an xterm window on the DNCS.
- 2 Open the **globalconfig.txt** file in a text editor from the following directory path:  
`/dvs/dvsFiles/BFS/DNCS/msoconfig/rtn/<default hub ID>/`  
**Note:** 0 is typically the default hub.
- 3 Ensure that the **ciscoSg/look/skinStyleList** parameter contains a comma-separated list of the 4-character IDs of themes you wish to offer.  
**Example:**  
`ciscoSg/look/skinStyleList:cbhd,cbsd`
- 4 **Note:** You need to have at least one 4-character ID assigned to this parameter to support themes. The first in the list will be the default when the set-top boots up. Type **#** at the beginning of any line where the parameter is **ciscoSg/look/skinStyle** to disable the parameter.  
**Example:**  
`#ciscoSg/look/skinStyle:cbhd`  
**Note:** If you do not disable this parameter, it will override your settings from step 4.
- 5 Save the file and exit the text editor.

### Add the Theme Package

Complete the steps below to enable multiple themes.

- 1 From the DNCS Administrative Console, select the **Home Element Provisioning** tab.
- 2 Click the **DHCT** button. The DHCT Provisioning window opens.
- 3 Click the **Secure Services** tab.
- 4 From the **Available** window, select the package names for the themes you want to use; then, click the **Add** button to move the packages to the **Selected** window.
- 5 If you need to remove a theme, select the theme package name from the **Selected** window; then, click the **Remove** button to move it to the **Available** window.
- 6 At the bottom of the window, click **DHCT Instant Hit**.
- 7 Click the **Save** button.

## Globally Use Default Theme

### Modify Global Configuration File to Use Default Theme for All Set-Tops

Complete the following steps to modify the global configuration file to use the default theme for all set-tops.

**Note:** You will need to know the package name from the config.xml file for the theme you wish to use.

- 1 Open an xterm window on the DNCS.
- 2 Open the **globalconfig.txt** file in a text editor from the following directory path:  
[/dvs/dvsFiles/BFS/DNCS/msoconfig/rtn/0/](#)
- 3 Ensure that the **ciscoSg/look/skinStyleList** parameter has the 4-digit ID of the theme you wish to use as the first value in the comma-separated list.

**Example:**

```
ciscoSg/look/skinStyleList:cbhd, cbsd
```

- 4 Ensure the following parameters are configured with the 4-digit ID you are using as the default:

- **ciscoSg/look/skinStyle**
- **com\_antplc\_tvlib.tvlib\_config\_global\_theme**
- **com\_antplc\_tvlib.tvlib\_config\_global\_default\_theme**

**Example:**

```
ciscoSg/look/skinStyle:cbhd
```

```
com_antplc_tvlib.tvlib_config_global_theme: cbhd
```

```
com_antplc_tvlib.tvlib_config_global_default_theme: cbhd
```

- 5 Save the settings and exit the text editor.
- 6 Perform the steps in the *Add the Theme Package* (on page 13) section to complete theme set-up on the DNCS.

## Troubleshooting Themes

### Solution 1

Complete the following steps to troubleshoot the set-top you are using for verification.

**Note:** You will need to know the package name from the config.xml file for the theme you wish to use.

- 1 From the DNCS Administrative Console, select the **Home Element Provisioning** tab.
- 2 Click the **DHCT** button. The DHCT Provisioning window opens.
- 3 Click the **Open** button and enter one of the following criteria for the target set-top:
  - **MAC Address**
  - **IP Address**
  - **Serial number**
- 4 Click the **Continue** button. The Set Up DHCT window opens.
- 5 Click the **Secure Services** tab and verify the package name of the desired theme appears in the **Selected** window.
- 6 At the bottom of the window, click **DHCT Instant Hit**.
- 7 Click the **Save** button.
- 8 Reboot the set-top.
- 9 Select **Menu > Settings > Appearance** and confirm that the theme package name you selected appears.
- 10 Did the theme package name appear as expected?
  - If **yes**, you have successfully completed theme setup.
  - If **no**, perform the procedures provided in the *Solution 2* (on page 15) section.

### Solution 2

Complete the following steps using the MAC Address for the set-top you are troubleshooting.

- 1 Open an xterm window on the DNCS.
- 2 Type `$ modDhctCfg -s <MAC Address>` and press **Enter**.
- 3 Reboot the set-top.





# 4

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## Multi-Room DVR

### Introduction

This chapter provides instructions to authorize the MR-DVR service on Cisco Vantage-compatible set-tops.

### In This Chapter

- Process Overview ..... 18
- Support MoCA Devices ..... 19
- Optional Features..... 25

## Process Overview

Vantage 3.2 features MR-DVR, which provides DVR-like functionality to diskless (non-DVR) devices within the home network, allowing users to view all content from any DVR in the home. MR-DVR capability allows users to browse a unified list of all recordings on all devices within the home and stream a program from any DVR to any STB in the home. Users can perform trick-plays (for example, Fast Forward, Rewind, Skip, Back), pause or stop a program in one room and resume it in another, and manage and schedule recordings just as if they were sitting at one of the home DVRs.

The following table lists the procedures you need to complete to fully implement the MR-DVR feature, where to find instructions, and where to perform the procedures:

<b>Procedure (What do I need to do?)</b>	<b>Reference Chapter or Document (Where are the instructions?)</b>	<b>Interface (Where do I perform the procedures?)</b>
Update system configuration file (config.ini) for MR-DVR service on BFS (global option)	<i>Configure MoCA using the config.ini File</i> (on page 20)	Perform once on DNCS or perform next procedure every time you want to enable the MoCA if on a set-top
Enable the MoCA Interface MIB Object (set-top specific option)	<i>Enable the MoCA Interface MIB Object</i> (on page 21)	DNCS
Install Point of Entry (POE) Filter	<i>MoCA Installation and Troubleshooting Reference Guide</i> (part number 78-4031235-01)	Subscriber's home
Provision Authorization for MR-DVR Service	<i>Provision Authorization for Services</i> (on page 3)	DNCS or Billing System <b>WARNING!</b> Before you perform these steps for MR-DVR service, make sure that the POE filter for this home is installed.
Confirm the MIB objects for MoCA	<i>Confirm the MIB objects for MoCA</i> (on page 22)	DNCS
Confirm MoCA settings on diagnostic screens	<i>Understanding Diagnostic Screens for Cisco Videoscape Voyager Vantage Implementation Design Guide</i> (part number OL-26413)	Subscriber's home
Verify MR-DVR Service on Set-Top	<i>Cisco Videoscape Voyager Vantage Client User Interface User Guide</i> (part number OL-26393)	Subscriber's home
Set Friendly Name (Optional)	<i>Cisco Videoscape Voyager Vantage Client User Interface User Guide</i> (part number OL-26393)	Subscriber's home

## Support MoCA Devices

To properly implement the MR-DVR service, refer to the *MoCA Installation and Troubleshooting Reference Guide* (part number 78-4031235-01), which contains installation guidelines, performance verification steps, and troubleshooting measures for devices that support a multi-room network over Multimedia over Coax Alliance (MoCA™). Multi-room networks allow client devices (non-DVR set-tops) to stream content from a server device (DVR set-top) that has recorded linear content.

Use the *MoCA Installation and Troubleshooting Reference Guide* (part number 78-4031235-01) to understand where to install the MoCA POE filter and MoCA set-tops with respect to cable splitters and amplifiers. The document is also helpful to verify links between MoCA set-tops and troubleshoot faulty installations.

### Configure MoCA using the config.ini File

You can enable or disable MoCA using a file on BFS. This file is named config.ini. This file specifies whether MoCA should be enabled automatically on assignment of the \_MRDV package.

You may not need to perform the following procedure. By default, the config.ini file built into the set-top image has a default setting such that the set-top will be enabled for MoCA service whenever the MR-DVR service (\_MRDV) is authorized.

If you prefer to enable the MoCA radio MIB Object manually using a SNMP set command instead of automatically when the \_MRDV package is assigned to the set-top, you will need to follow the instructions below and then refer to *Enable the MoCA Interface MIB Object* (in the following section.)

- 1 On the DNCS, edit the config.ini file. The following are the lines for the default setting.
 

```
[moca]

enable_moca_by_service = 1
```
- 2 If you do NOT want to enable MoCA with config.ini, change the lines to:
 

```
[moca]

enable_moca_by_service = 0
```
- 3 Modify or put the file on BFS, typically in /bfs/msoconfig/rtn/0/config.ini which updates settings on all set-tops.
- 4 If necessary, send the service package to set-top(s) for the \_MRDV service.

## Enable the MoCA Interface MIB Object

Complete the following steps to verify and manually set the MoCA interface MIB Object to enabled using SNMP commands. This is only needed if you do not choose to have the MoCA interface automatically enabled on assignment of the `_MRDV` package.

- 1 From the DNCS, open an xterm and log in as root user.
- 2 From the DNCS \$ prompt, type the following command and then press **Enter** to determine if the MoCA Interface MIB object is already enabled:  

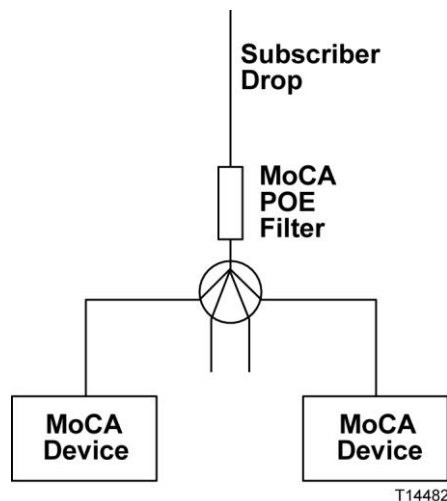
```
snmpget -v2c - cpublic [set-top IP address].1.3.6.1.4.1.31621.1.1.1.1.1.1.3
```
- 3 Is the object set to **true**?  
**Example:** MOCA11-MIB::mocalfEnable.3 true
  - If **yes**, then the MoCA Interface MIB object is already enabled.
  - If **no**, type the following command and then press **Enter** to enable the object:  

```
snmpset -v2c - cpublic [set-top IP address].1.3.6.1.4.1.31621.1.1.1.1.1.1.3 i 1
```
- 4 Repeat step 1 to verify the object is enabled.
- 5 If you want to confirm other MIB objects, continue with the next section. Otherwise, type **exit** and press **Enter** to close the window; then, proceed to the *Optional Features* section (on page 25.)

## Install POE Filter

The POE filter (see *MoCA Point of Entry Filter Data Sheet*, part number 95-7016817-01) is a 1002 MHz low-pass filter which is installed at the subscriber drop. It prevents interference between MoCA devices in homes connected to the same tap. As shown in the Basic Installation Wiring Example below, the POE filter should be connected between the ground block and the splitter.

Basic Installation Wiring Example



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## Confirm the MIB objects for MoCA

Complete the following steps to view the current MIB Object settings for MoCA on a specific set-top.

- 1 From the DNCS, open an xterm window and log in as root user.
- 2 From the DNCS \$ prompt, type the following command and then press **Enter**:

```
% snmptable -v 2c -c public -Os [set-top IP address]
.1.3.6.1.4.1.31621.1.1.1.1
```

**Example command line:** % snmptable -v 2c -c public -Os 10.10.1.21  
.1.3.6.1.4.1.31621.1.1.1.1

**Example Output:**

```
# find the moce index
```

```
$snmpwalk -Oq -v2c -cpublic 10.10.1.21 IF-MIB::ifType
```

```
IF-MIB::ifType.1 ethernetCsmacd
```

```
IF-MIB::ifType.3 mocaVersion1
```

```
IF-MIB::ifType.5 ethernetCsmacd
```

```
IF-MIB::ifType.6 other
```

```
IF-MIB::ifType.7 ethernetCsmacd
```

```
#view the netstats of the moca interface
```

```
$snmpwalk -Oq -v2c -cpublic 10.10.1.21 IF-MIB::ifTable |grep
"\.3"
```

```
IF-MIB::ifIndex.3 3
```

```
IF-MIB::ifDescr.3 eth1
```

```
IF-MIB::ifType.3 mocaVersion1
```

```
IF-MIB::ifMtu.3 1500
```

```
IF-MIB::ifSpeed.3 10000000
```

```
IF-MIB::ifPhysAddress.3 2:23:be:bd:d2:86
```

```
IF-MIB::ifAdminStatus.3 down
```

```
IF-MIB::ifOperStatus.3 down
```

```
IF-MIB::ifLastChange.3 0:0:00:00.00
```

```
IF-MIB::ifInOctets.3 0
```

```
IF-MIB::ifInUcastPkts.3 0
```

```
IF-MIB::ifInNUcastPkts.3 0
```

```
IF-MIB::ifInDiscards.3 0
```

```
IF-MIB::ifInErrors.3 0
```

## Multi-Room DVR

```
IF-MIB::ifInUnknownProtos.3 0
IF-MIB::ifOutOctets.3 0
IF-MIB::ifOutUcastPkts.3 0
IF-MIB::ifOutNUcastPkts.3 0
IF-MIB::ifOutDiscards.3 0
IF-MIB::ifOutErrors.3 0
IF-MIB::ifOutQLen.3 0
IF-MIB::ifSpecific.3 SNMPv2-SMI::zeroDotZero
####
# Steps to enable
####
## 1) get the current state
$snmpget -Oq -v2c -cpublic 10.10.1.21
.1.3.6.1.4.1.31621.1.1.1.1.1.3
MOCA11-MIB::mocaIfEnable.3 false
## 2) Set to true (1= true & 2= false)
$snmpset -Oq -v2c -cpublic 10.10.1.21
.1.3.6.1.4.1.31621.1.1.1.1.1.3 i 1
MOCA11-MIB::mocaIfEnable.3 true
## 3) verify the set
$snmpget -Oq -v2c -cpublic 10.10.1.21
.1.3.6.1.4.1.31621.1.1.1.1.1.3
MOCA11-MIB::mocaIfEnable.3 true

#View all moca configuration and stats
$snmpwalk -Oq -v2c -cpublic 10.10.1.21 .1.3.6.1.4.1.31621
MOCA11-MIB::mocaIfEnable.3 true
MOCA11-MIB::mocaIfChannelMask.3 16384
MOCA11-MIB::mocaIfPowerControl.3 true
MOCA11-MIB::mocaIfTxPowerLimit.3 0
MOCA11-MIB::mocaIfBeaconPowerLimit.3 0
MOCA11-MIB::mocaIfPowerControlTargetRate.3 235
MOCA11-MIB::mocaIfPrivacyEnable.3 true
MOCA11-MIB::mocaIfPreferredNC.3 false
```

```
MOCA11-MIB::mocaIfAccessEnable.3 false
MOCA11-MIB::mocaIfPhyThreshold.3 95
MOCA11-MIB::mocaIfPhyThresholdEnable.3 false
MOCA11-MIB::mocaIfStatus.3 noLink
MOCA11-MIB::mocaIfLinkUpTime.3 0
MOCA11-MIB::mocaIfSoftwareVersion.3 1.35.117
MOCA11-MIB::mocaIfMocaVersion.3 moca10
MOCA11-MIB::mocaIfBeaconVersion.3 moca10
MOCA11-MIB::mocaIfMacAddress.3 2:23:be:bd:d2:86
MOCA11-MIB::mocaIfNodeID.3 0
MOCA11-MIB::mocaIfName.3 eth1
MOCA11-MIB::mocaIfNumNodes.3 0
MOCA11-MIB::mocaIfNC.3 0
MOCA11-MIB::mocaIfBackupNC.3 0
MOCA11-MIB::mocaIfRFChannel.3 d1
MOCA11-MIB::mocaIfLOF.3 d1
MOCA11-MIB::mocaIfTabooChannelMask.3 243712
MOCA11-MIB::mocaIfNodeTabooChannelMask.3 243712
MOCA11-MIB::mocaIfCapabilityMask.3 357908984
MOCA11-MIB::mocaIfQAM256Capable.3 false
MOCA11-MIB::mocaIfTenPacketsAggrCapable.3 false
MOCA11-MIB::mocaIfStatusEntry.23.3 "53ce"
MOCA11-MIB::mocaIfTxPackets.3 Wrong Type (should be Counter32): 0
MOCA11-MIB::mocaIfTxDrops.3 Wrong Type (should be Counter32): 0
MOCA11-MIB::mocaIfRxPackets.3 Wrong Type (should be Counter32): 0
MOCA11-MIB::mocaIfRxCorrectedErrors.3 Wrong Type (should be Counter32): 0
MOCA11-MIB::mocaIfRxDrops.3 Wrong Type (should be Counter32): 0
MOCA11-MIB::mocaIfEgressNodeNumFlows.3 0
MOCA11-MIB::mocaIfIngressNodeNumFlows.3 0
MOCA11-MIB::mocaIfIngressNodeNumFlows.3 No more variables left in
this MIB View (It is past the end of the MIB tree)
```

## Multi-Room DVR

- 3 Edit the MoCA parameters as needed.
- 4 Save the settings.
- 5 Type **exit** and press **Enter** to close the window.

## Verify MoCA

Complete the steps below to verify that the MoCA support is enabled.

- 1 Is the MoCA LED (home icon) on the front panel of the set-top lit?
  - If **yes**, MoCA support is properly enabled.
  - If **no**, continue with step 2.
- 2 From the **Home Networking** category of the On-Screen Diagnostic home page, browse to the second page of the **MoCA Summary**.
- 3 From the MoCA Interface details, set the **Interface/Beacon** status to **Enabled**.
- 4 From an SNMP browser or client, set the value of the MIB parameter **MocaIfStatus** in the **mocaIfStatusTable** to **3 (linkUp)**.



## Optional Features

Use the Vantage on-screen interface for configuring optional features, such as naming each DVR set-top on the home network (if desired), and services on your set-top. For more information, see the *Cisco Videoscape Voyager Vantage Client User Interface User Guide* (part number OL-26393).



# 5

---

## Configuring the Vantage Client for VOD Entitlement and Poster Art

### Introduction

This chapter provides instructions to configure the Vantage Client to support VOD Entitlement and Poster Art.

### In This Chapter

■ VOD Entitlement .....	28
■ Third Party VOD Server Compatibility .....	30
■ Poster Art .....	32

## VOD Entitlement

### Configuring the Vantage VOD Client Platform

The Vantage software includes a default config.ini file that you need to customize with system-specific information to support your specific VOD catalogs. This section provides guidelines to edit the config.ini file and place it on the BFS server. Once the customized file is on BFS, it will override the default version.

### Gather Data for the VOD Section of the config.ini File

You will need to provide values for the following VOD-related fields included in the default config.ini file:

- **uids:** Enter the value for the unique ID used by your VOD server to identify a catalog. In the example provided in the table below, the UID for On-Demand is 0x25601.  
**Note:** You *must* precede the value with 0x for hexadecimal value.
- **types:** Enter the catalog type, either **vod** (Video-On-Demand) or **svod** (Subscription-Video-On-Demand), as appropriate.  
**Note:** The entry is not case sensitive.
- **samIds:** From the DNCS, find the SAM Service ID associated with the specific catalog.  
**Note:** For SVOD, the Sam Service's application URL must contain an EID value. Otherwise, the associations in this file will not be set up properly.

Create a table similar to the example below to gather the catalog information you need to edit the config.ini file.

Field	Catalog 1	Catalog 2	Catalog 3
<b>uids</b> (hexidecimal)	0x25601	0x11a8006 a	0x25625
<b>types</b>	VOD	SVOD	SVOD
<b>samIds</b> (decimal)	345	329	367

## Edit the VOD Section of the config.ini File

Follow the steps below to create a customized config.ini file on the BFS server.

**Note:** Refer to the data you collected for the *Gather Data for the VOD Section of the config.ini File* (on page 28) section. The examples provided correspond to the table in that section.

- 1 Open an xterm window on the DNCS.
- 2 Copy the default config.ini file that is currently on the BFS server to a separate directory.
- 3 Record the directory path where you stored the copied file:  
\_\_\_\_\_.
- 4 Open a text editor and navigate to the copied config.ini file.
- 5 Navigate to the VOD section and add the uids.  
**Note:** Entries are separated by commas.  
**Example:** uids=0x25601,0x11a8006a,0x25625
- 6 Add the samids in the order corresponding to the uids. For example, if 0x25625 is third in the list of uids, then the values for that catalog should be third for every field.
- 7 Add the types in the order corresponding to the uids.  
**Examples:**  
uids=0x25601,0x11a8006a,0x25625  
samids=345,329,367  
types=vod,svod,svod
- 8 Save the settings and exit the text editor.
- 9 Close the xterm window.

## Third Party VOD Server Compatibility

### DNCS VOD Search Package

The “On-Demand” menu in the main menu will display the “Search On Demand” option if the \_VOD SAM service is authorized for this set-top.

### VOD Search Function for SeaChange Server

- The third party SeaChange server only supports title search (Title Only). Search results for VOD assets are displayed in alphabetical (by title) order.
- The SeaChange server performs a title search for assets in all the top-level catalogs configured in the Axiom Asset Manager.
- The list of top-level catalogs in the config.ini file is considered to be the master. You should consider configuring the same list in the Axiom Asset Manager. **Note:** Please be aware that the SeaChange server returns search results from all catalog folders configured in Axiom Asset Manager.
- All the STBs must be configured in the Axiom Subscriber Database. If the STB has an SVOD package authorized in DNCS, the SVOD package ID also has to be assigned to the MAC address of that STB in the Axiom Subscriber Database.
- Assets are returned from all top level catalogs. The SeaChange server has an algorithm to return the *cheapest* asset if the same asset is present in multiple directories.
- If the same asset is present in the TVOD and SVOD directory, the server only returns the authorized SVOD asset.

### Config.ini Settings for Arris Server

```
#-----  
# on-demand system  
#-----  
#The srmManufacturer and streamerManufacturer are used by the VOD client to determine  
what type of VOD  
#system will be launched. Currently, the supported VOD systems are either Arris or Seachange.  
#Note: by default, if the on-demand system section is commented out, the STB will boot up with  
Seachange #VOD system. Any change to either srmManufacturer/streamerManufacturer would  
reboot the STB.  
#  
[on-demand-system]  
srmManufacturer=Arris  
streamerManufacturer=Arris
```

## Configuring the Vantage Client for VOD Entitlement and Poster Art

```
#-----  
# on-demand connection manager  
#-----  
#Note: on-demand-connection-mgr section is used in Arris VOD feature.  
#The name/value pair of the on-demand-connection-mgr represents hub id and connection  
manager ip address.  
#The connection manager server resides in the VOD back office (i.e., the Arris VOD system). Its  
#responsibilities are as follows: (1) to interface with Session Resource Management (SRM), (2) to  
set up  
#VOD sessions and to choose the most favorable path (from among all available configured  
paths) over which #to deliver requested video assets to the requesting VOD client.  
#  
[on-demand-connection-mgr]  
0=172.200.4.10  
1=172.200.4.10  
2=172.200.4.10
```

## Poster Art

If your site does not have a high bandwidth interactive WAN connection, place poster art images on an inband transport that are to be downloaded by the set-top.

The poster art images will be transported as a single .tar archive file; this file is the Poster Art TAR File.

The Poster Art TAR file (posterart.tar) will be placed on an in-band BFS data carousel (/rtnclient/posterart). Given the size of the file and the limited number of tuners, downloading the file will take several minutes even when a tuner is idle. The Cisco VOD Client Platform will download the Poster Art TAR File as a background task, expand archive and then place in a local file directory (/tmp/VodArt). The background task should be initiated at night when tuners are likely to be available.

Like the EPG program guide downloads, Poster Art TAR File downloads may preempt video rendering services but will not preempt a recording.

A single default image (default.jpg) can be placed on the in-band BFS data carousel (/rtnclient/posterart); this image is the Service Provider Defined Default Poster Art Image. This default image is to be displayed when the tar file has not been downloaded or an image is not found in the tar file. This small file will be downloaded at a high priority when the Cisco VOD Client Platform is initialized. If defined, the Service Provider Defined Default Poster Art Image will take precedence over the Platform Default Poster Art Image.

## Before You Begin

### Associate Images with Assets

Follow the instructions for your VOD server software to associate poster art images with assets.

### Create TAR File for Poster Art

Create a TAR file named **posterart.tar** that includes the images you have associated with assets. The images must be in jpg format that are 216 pixels wide by 275 pixels high. The TAR file must not exceed 15 MB.

Copy or move the TAR file to a directory in the DNCS. Record the directory where you placed the file for use in the procedures that follow:

---

### Store Default Poster Art Image

The default poster art image must be in jpg format that is 216 pixels wide by 275 pixels high.



Save the default poster art image to a directory in the DNCS as **default.jpg**. Record the directory where you placed the image for use in the procedures that follow:

---

## What's Next?

When you have completed storing the posterart.tar and default.jpg files on the DNCS, proceed with the instructions in the following section, *Create BFS Directories for Poster Art*.

### Create BFS Directories for Poster Art

Complete the following steps to create a BFS directory on the DNCS for poster art images.

#### Notes:

- The instructions include steps to set up both a default image and asset-associated images. The default image will appear for assets that do not have an associated image.
  - These instructions assume that you have already installed the Vantage software and set up the **rtncient** server on the BFS server. The following steps use an example directory of **rtncient/posterart**. You do not have to use the **rtncient/posterart** directory that is used in our example. If you use a different directory, note the new location as you will need it in subsequent procedures.
- 1 From the DNCS Administrative Console, click the **Application Interface Modules** tab.
  - 2 Click the **BFS Client** button.
  - 3 Select the **rtncient** cabinet.
  - 4 Click **File** and then select **New Directory** from the file menu bar.
  - 5 In the **Directory Name** field, type `posterart`.

**Note:** The name must be one word in lowercase.

- 6 Click **Save**.
- 7 Continue with the instructions in the following section, *Add Links for Poster Art*.

### Add Links for Poster Art

Complete the following steps to add links to the BFS directory for image files.

**Note:** Perform this procedure twice to add links for both the default image and the asset-associated image files.

- 1 From the BFS Server list, click **rtnclient**, then select **posterart** from the list of available directories.
- 2 Click **File**; then select **New Link** from the file menu bar.
- 3 In the **Link Name** field, enter one of the following terms:
  - If you are setting up the default image, type `default.jpg`.
  - If you are setting up the asset-associated image files, type `posterart.tar`.
- 4 Ignore the **Source Name** field.
- 5 Click the **Select** button associated with the Linked Path field.
- 6 Navigate to the file you are linking:
  - If you are setting up the default image, select the **default.jpg** file you saved to the DNCS. Refer to the directory path you recorded in the *Before You Begin* (on page 32) section.
  - If you are setting up the asset-associated image files, select the **posterart.tar** file you saved to the DNCS and select it. Refer to the directory path you recorded in the *Before You Begin* section.
- 7 Click **OK** to set up the link.
- 8 Click **Save**.
- 9 Close the BFS window.
- 10 Continue with the instructions in the following section, *Edit the config.ini File*.

### Edit the config.ini File

Complete the following steps to associate the BFS location where you have placed your posterart.tar and default.jpg files with the posterartpath parameter.

- 1 Open an xterm window on the DNCS.
- 2 Open the **config.ini** file in a text editor.
- 3 Locate the parameter named **posterartpath?**
- 4 If necessary, add or edit the parameter as follows:  
`posterartpath=<BFS server>/<directory>/<link>`  
**Example:** If you used the recommended naming convention from the previous procedures, you will add a line or edit the settings to match the following string:  
`posterartpath=/bfs/rtnclient/posterart`
- 5 Save the settings and exit the text editor.
- 6 Close the xterm window.

After you complete this procedure, the poster art images will load during the next maintenance window.

### **Verify Poster Art Setup**

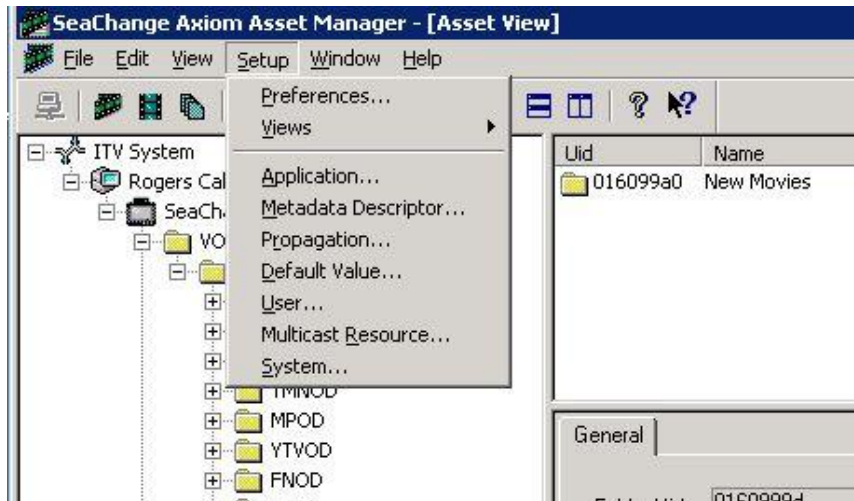
Complete the following steps to verify that the poster art image files are set up properly.

- 1 Power off a set-top for two minutes to initiate a maintenance window.
- 2 Power the set-top on.
- 3 Launch the VOD application.
- 4 Select an asset that does not have poster art associated with it to verify that the default image appears.
- 5 Select an asset that does have an associate poster art image to verify the correct image appears.

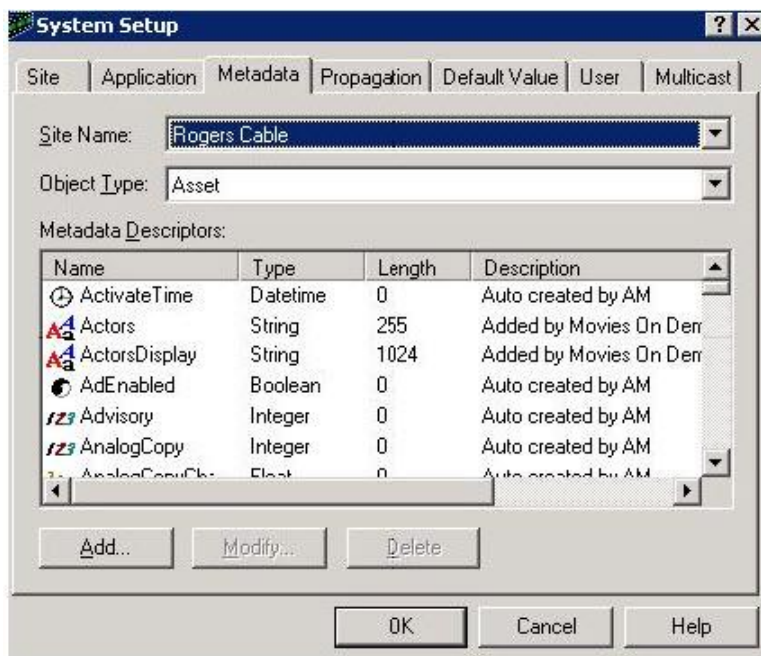
## Configuring the Vantage Client for VOD Entitlement and Poster Art

### Create Additional Generic Metadata Fields for CMOD Client Access

- 1 To create an additional metadata field for Assets, follow these steps.
  - a On any SeaChange server, start AMAPP.exe.
  - b From the **Setup** tab, select **Metadata Descriptor** from the menu.



- c In the System Setup screen, click the Metadata tab.
- d Ensure the correct Site Name is selected.
- e In the Object Type field, select **Asset**.



- f Click the **Add** button at the bottom left of the screen.

**Add Metadata Descriptor**

Name: posterarturl

Data Type: String

Max Length: 255

Description: Associated Posterart Filename

Application independent

Application: [ ]

Multiple metadata values allowed

Use selection list

Name	Value
------	-------

Buttons: OK, Cancel, User Data..., Help, Add..., Delete

**g** Fill out the form:

**Name:** "posterarturl"

**Data Type:** String

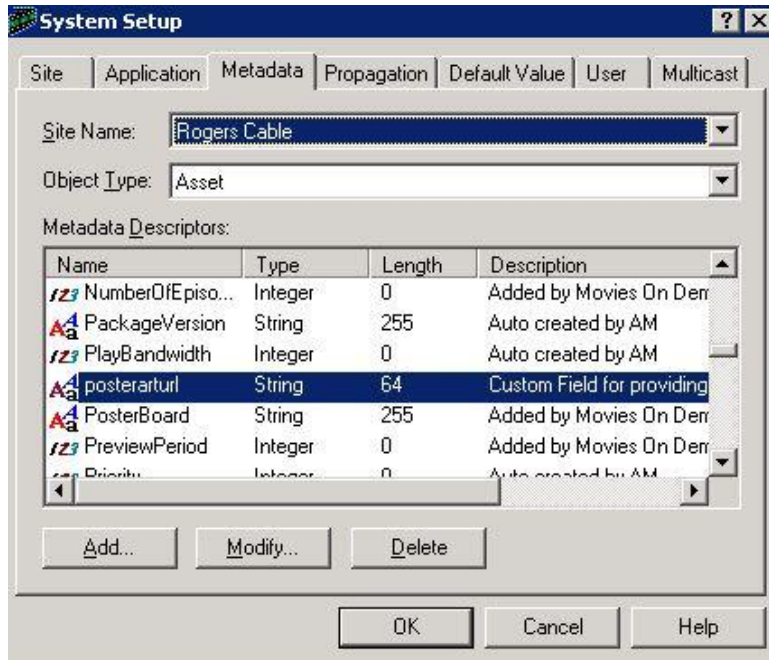
**Max Length:** 255

**Description:** "Associated Posterart Filename"

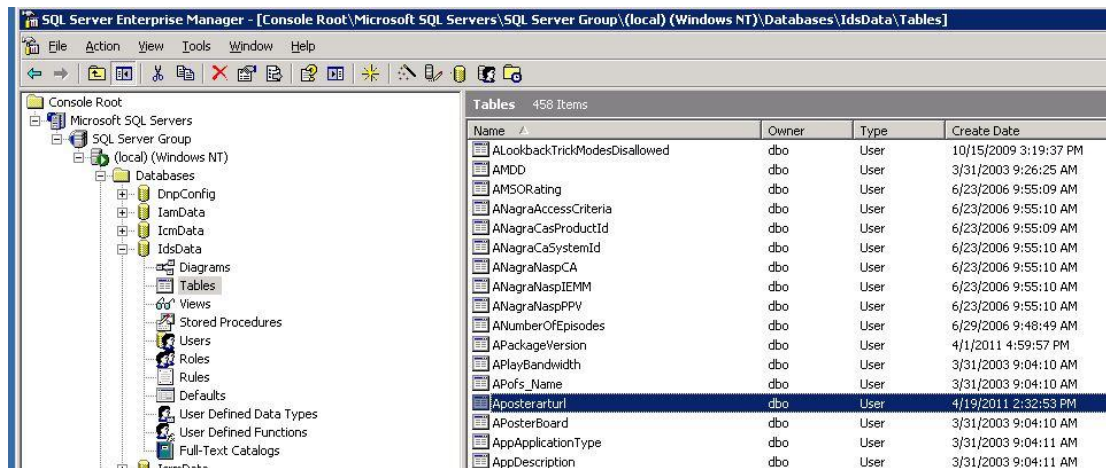
**h** Click **OK**.

**i** Scroll through the list of "Metadata Descriptors" and confirm that the new metadata type exists.

## Configuring the Vantage Client for VOD Entitlement and Poster Art

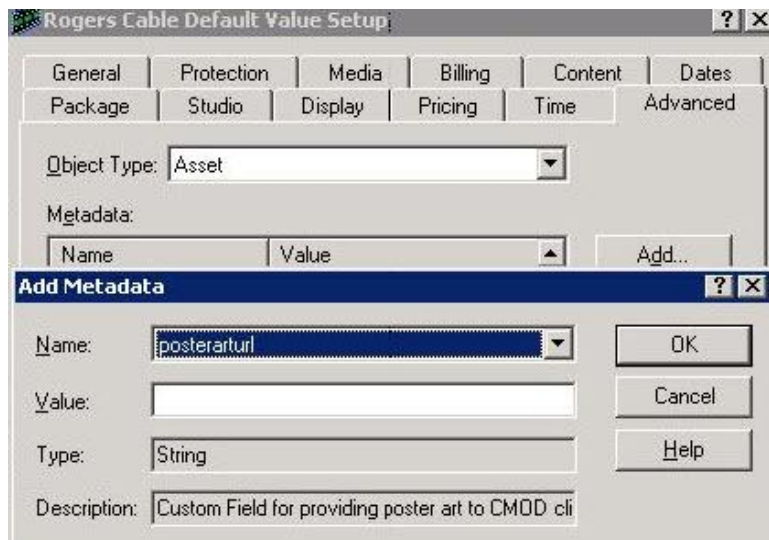


- j Using remote desktop, connect to MDS1.
- k Open the SQL Enterprise Manager and confirm that the new table exists.



- 2 Update the default values to include this as a default field.
  - a Back in AMAPP, open the Default Value Setup screen.
  - b Click **Configure**.
  - c Select the Advanced tab.
  - d In the Object Type field, select **Asset**.
  - e Click **Add**.

## Configuring the Vantage Client for VOD Entitlement and Poster Art

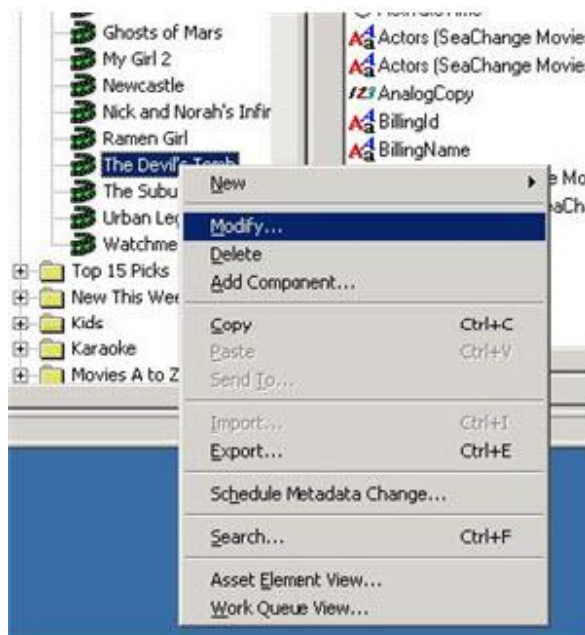


- f In the Name field, select “posterarturl.”
- g Leave the Value field blank.
- h Click **OK**.

Any new assets added to the system will now include the new field. However, the field will be blank unless the XML portion of the ADI package includes data for this field.

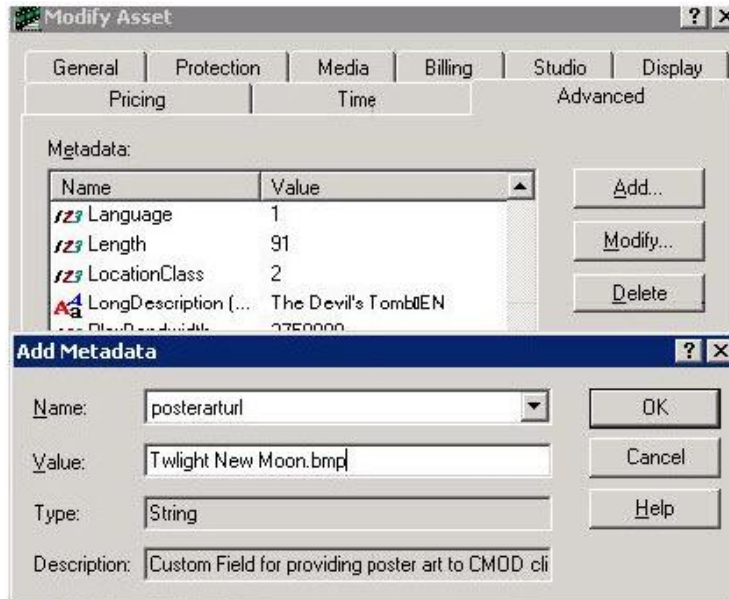
- 3 Updating an individual asset to include the new field.
  - a Locate the asset within AMAPP.
  - b Right click the asset name and select **Modify**.

**Note:** Make sure you select the asset and not one of the elements.



## Configuring the Vantage Client for VOD Entitlement and Poster Art

- c Select the Advanced tab.
- d Click **Add**.



- e In the Name field, select the new “posterarturl.”
- f In the Value field, enter the poster art file name.

Repeat for all assets with poster boards.

- 4 Copy the XML and registry changes to the APP servers.
  - a Copy the modlite-config.xml file (included in the following section) to the data/config folder. You must copy the file for each APP machine.

**Note:** The XML file should be under C:\mod\mod-lite. (It may be under d: or e: if SEADAC was installed with historical locations.)

- b Copy and execute the attached registry file.
- c Restart mod-lite on each APP server.
- d Open Manutil and connect to an APP machine.
- e Navigate to mod-lite/XML Configuration/Metadata Descriptors/ Asset Descriptors.
- f Confirm the “posterarturl” field is present.
- g Repeat for all APP machines.



### modlite-config.xml file

```
<?xml version="1.0" encoding="UTF-8"?>
<?xml-stylesheet href="modlite-config.xsl"?>
<modlite:data-config
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://www.schange.com/2006/SeaDAC/modlite-config/modlite-config.xsd"
xmlns:modlite="http://www.schange.com/2006/SeaDAC/modlite-config"
version="1.0">
  <modlite:asset-data>
    <modlite:data-element id="asset-posterarturl"
modlite-id="1001">
      <modlite:name>posterarturl</modlite:name>
      <modlite:type>string</modlite:type>
      <modlite:max-length>255</modlite:max-length>
    </modlite:data-element>
  </modlite:asset-data>

  <modlite:data-sets>
    <modlite:set name="rogers-posterart-set" id="1"
type="asset">
      <modlite:set-element ref="asset-posterarturl" client-
id="1" />
    </modlite:set>

  </modlite:data-sets>
</modlite:data-config>
```



# 6

---

## Defining Walled Gardens

### Introduction

This chapter provides instructions to define Walled Gardens on Cisco Vantage set-tops.

### In This Chapter

- Configuring and Authorizing Walled Gardens ..... 44
- Walled Garden SAM Service Settings..... 45
- Create the Walled Garden Package..... 49
- Assign the Walled Garden Package to the Set-Top ..... 50

## Configuring and Authorizing Walled Gardens

The signaling from the DNCS to provision Walled Garden services is accomplished by defining Walled Garden SAM service definitions on the DNCS, one for each Walled Garden service that is to be provisioned.

You can define up to 10 generic Walled Garden services for use on Vantage. Additionally, two special Walled Garden services for "My Account" and "App Store" can be defined.

## Walled Garden SAM Service Settings

Use the following fields when you create and manage Walled Garden services on the DNCS.

Field	Description
Service Name	Required field  The name of the service is only available and shown to users of the DNCS who have access to the SAM Services List. Make this descriptive enough to understand what Walled Garden service is being offered. Subscribers will not see this field.  <b>Example:</b> Walled Garden – App Store

## Defining Walled Gardens

Field	Description
Short Description	<p>Required field</p> <p>The Short Description is from a set of well-known values defined in the following list. The set-top uses these short description values to determine whether those services should be displayed on the Vantage UI.</p> <p>If you are configuring the Walled Garden service to appear in the EPG, this field is used as the channel indicator.</p> <p><b>Example: _WG00</b></p> <p>The following short description names are reserved for provisioning Walled Garden services. Each of these short descriptions must only be used once per system and must be used <i>exactly</i> as shown.</p> <ul style="list-style-type: none"><li>■ <b>_WG00</b> - Main service for Walled Garden</li><li>■ <b>_WG01</b> - Service for Walled Garden 01</li><li>■ <b>_WG02</b> - Service for Walled Garden 02</li><li>■ <b>_WG03</b> - Service for Walled Garden 03</li><li>■ <b>_WG04</b> - Service for Walled Garden 04</li><li>■ <b>_WG05</b> - Service for Walled Garden 05</li><li>■ <b>_WG06</b> - Service for Walled Garden 06</li><li>■ <b>_WG07</b> - Service for Walled Garden 07</li><li>■ <b>_WG08</b> - Service for Walled Garden 08</li><li>■ <b>_WG09</b> - Service for Walled Garden 09</li><li>■ <b>_WGMA</b> - Service for Walled Garden "My Account"</li><li>■ <b>_WGAP</b> - Service for Walled Garden "App Store"</li></ul>
Long Description	<p>The Long Description is for meaningful display to the subscriber. This field appears in the menu and/or in the grid cell of the EPG, as indicated by the options in the Application URL field, and is up to you.</p> <p><b>Example: Add Applications</b></p>

Field	Description
Application URL	The Application URL provides additional information for how the Walled Garden service can be accessed. It contains the application name and additional attributes, separated by semicolons.

■ **inEPG**

- 0 (zero) – Service is not displayed in the EPG
- 1 (or name) – Service is displayed in the EPG (default)

**Note:** The inEPG flag is independent of whether the service is channel-mapped or not.

Channel Mapped	inEPG Flag	Result
No	X	Not listed in EPG
Yes	0	Not listed in EPG; Direct tune brings up the service
Yes	1	Listed in EPG; Direct tune brings up the service

**inMenu**

- 0 (or name not present) – Service is not displayed in the Applications Menu (default)
- 1 (or name is present) – Service is displayed in the Applications Menu

■ **eid** – The authorization EID (decimal) of the service. This is to ensure that you can authorize this Walled Garden service to individual STBs. See *Create the Walled Garden Package* (on page 49) for details on creating a Walled Garden package and authorizing a set-top for the package.

■ **url** – The URL to access the service. This must be the last attribute of the Application URL so that it is not required to be escaped.

**Format:**

```
wgarden://wgarden;inEPG=0;inMenu=1;eid=[xx];url=http://[server]/[location]
```

**Notes:**

- Replace [xx] with the EID (decimal) value associated with the Walled Garden package. See *Create the Walled Garden Package* (on page 49).
- Replace [server] with the name or IP address of the server.
- Replace [location] with the location of the web page/application.

## Defining Walled Gardens

Field	Description
Logo	The channel or application logo number associated with this walled garden application  <b>Note:</b> The logo functions in the EPG in the same way as current channel logos.
Parameter	Select the <b>Number</b> option
Number	Enter <b>0</b> (zero)

Complete these steps to add a new Walled Garden service.

- 1 From the DNCS Administrative Console, select the **Application Interface Modules** tab.
- 2 Click **SAM Service**. The SAM Service List window opens.
- 3 Click **File** and then select **New**. The Set Up SAM Service window opens.
- 4 Complete the fields on the Set Up SAM Service window, as described in *Walled Garden SAM Service Settings* (on page 45).
- 5 Save the Set Up SAM Service window when you are finished.

Complete these steps to modify an existing Walled Garden service.

- 1 From the DNCS Administrative Console, select the **Application Interface Modules** tab.
- 2 Click **SAM Service**. The SAM Service List window opens.
- 3 Locate and highlight the service you want to modify.
- 4 Click **File** and then select **Open**. The configuration window for the service selected opens.
- 5 Edit the fields as described in *Walled Garden SAM Service Settings* (on page 45).
- 6 Click **Save**.
- 7 If prompted, confirm the changes.



## Create the Walled Garden Package

Complete these steps to create a Walled Garden authorization package.

- 1 From the DNCS Administrative Console, click the **System Provisioning** tab.
- 2 Click **Package**. The Package List window opens.
- 3 Click **File** and then select **New**. The Set Up Package window opens.
- 4 In the **Package Name** field of the Set Up Package window, type the following:

Walled Gardens (or Walled Garden 00 if you want to assign a package for each Walled Garden service)

- 5 Be sure the **Duration** field is set to **Unlimited**.
- 6 Click **Save**. The Set Up Package window closes.
- 7 From the Package List window, scroll down to find the **Walled Gardens** package you just created.
- 8 Highlight the **Walled Gardens** package.
- 9 Click **File** and then select **Open**. The Set Up Package window opens showing the just-created Walled Gardens package.
- 10 Take note of the Entitlement ID (**EID**) (in both hexadecimal and decimal form) and record those values.

hex: \_\_\_\_\_ decimal: \_\_\_\_\_

- 11 Click **Cancel** to close the Set Up Package window.
- 12 Click **File** and then select **Close** to close the Package List window.

## Assign the Walled Garden Package to the Set-Top

In this procedure, you will assign the Walled Garden package to a set-top box.

- 1 From the DNCS Administrative Console, click the **Home Element Provisioning** tab.
- 2 Click **DHCT**. The DHCT Provisioning window opens.
- 3 Click **By MAC Address** and type the MAC address of a DHCT you wish to authorize, and then click **Continue**. The Set Up DHCT window opens.
- 4 Click the **Secure Services** tab. The window updates to allow you to assign a package or packages to the DHCT.
- 5 Locate and then highlight the **Walled Garden** package in the **Available** column of the **Packages** section of the window.
- 6 Click **Add**. The Walled Garden package moves from the **Available** column to the **Selected** Column.
- 7 Click **Save**.
- 8 Click **Close** to close the Set Up DHCT window.
- 9 Click **Cancel** to close the DHCT Provisioning window.
- 10 Reboot the set-top box to see the object immediately.

# 7

---

## Configuration Options

### Introduction

The configuration options enable the service provider to customize the web browser and the Vantage user interface (UI).

### In This Chapter

- Downloadable Configuration Files ..... 52
- Configuration Variables..... 53

## Downloadable Configuration Files

Complete the steps below to implement the downloadable configuration file feature.

**Note:** This feature allows you to set configurations for Vantage properties that cannot be configured using the SARA configurable options.

**Important:** We recommend that modifications to configuration variables be performed only by operators with full understanding of the impacts to the system.

- 1 Create a customized configuration file using the known configuration variables listed in the section Configuration Variables.

**Example:**

```
# Set the Media Object Model (MOM) to insecure mode

# (allow non-wafer applications, e.g. Walled Gardens, access to "sensitive"
APIs)

mom.insecure: 1

# Set the default theme, over-riding the user's selection every time

com_antplc_tvlib.tvlib_config_global_theme: darkblue
```

- 2 Create the customized file as follows:

**Note:** Replace <hub\_id> with zero (0) if you want all set-tops to use this file. Otherwise, specify the hub that supports the set-tops you want to use this file.

- Configurations to be applied during staging:  
`bfs:///msoconfig/rtn/<hub_id>/stagingdefaults.txt` (if present)
- Configurations to be applied globally every time the set-top boots:  
`bfs:///msoconfig/rtn/<hub_id>/globalconfig.txt` (if present)

- 3 Save the file onto the DNCS in the export/home/dnCS/SiteFiles directory.

- 4 Use the BFS client DNCS UI to add the file(s) at the following location:

**msoconfig/rtn/<hub\_id>**

**Note:** Replace <hub\_id> with zero (0) if you want all set-tops to use this file. Otherwise, specify the hub that supports the set-tops you want to use this file.

## Configuration Variables

Variable	Options (default first)	Description
ciscoSg/acc/accAllowMom	true   false	If true, enable non-wafer applications access to Media Object Mode (IMOM) APIs (needed for Walled Gardens which need access to MAC, screen size, etc.). Allows access to sensitive MOM APIs. This should only be used on sites wishing to support Walled Garden applications.
ciscoSg/audio/fixedVolumeLevel	100 - 0	The level of the fixed audio volume, expressed as a percentage. It indicates which volume to use when in fixed (not variable) volume mode. Any value between 0 and 100 can be used with 0 indicating zero volume and 100 indicating full volume.
ciscoSg/audio/variableVolumeControl	true   false	Whether volume is variable, i.e, not fixed. Fixed volume is used to set the audio output to optimum stereo level and disable remote volume control of the set-top.
ciscoSg/chan/chanPowerOn	Blank (last viewed), or any channel in the channel list	The power-on channel or service. The structure of the value string is a channel unique ID (UID) as defined in the channel list manager API. If blank, the last viewed channel is used.
ciscoSg/chan/markUnauthChannelGuide	false   true	When true, this enables the feature for graying out unauthorized channels in the program guide.
ciscoSg/look/mainMenuHasLiveTv	true   false	Whether to display the Live TV element in the Menu Portal. A value of false will hide the Live TV entry in the menu. A value of true will show the Live TV entry in the menu.
ciscoSg/look/pipSuppt	true   false	Indicates whether PIP (picture in picture) is a supported feature. If

## Configuration Options

Variable	Options (default first)	Description
		false, the app will ignore all PIP user input (such as key presses.)
ciscoSg/look/popSuppt	true   false	Indicates whether POP (picture outside picture) is a supported feature. If false, the app will not allow the POP type of positioning when the MOVE key is used to move the PIP screen around the screen.
ciscoSg/look/skinStyle	Any theme ID (e.g. cbsd, or other operator-downloaded theme)	Style of the skin, or global theme to be used by default, such as kubrickblack, cbsd, etc.
ciscoSg/look/skinStyleList	A comma separated list of theme IDs (including operator-downloaded themes) that should be made available to the user (e.g. kubrickblack, cbsd)	The list of available styles of the skin expressed as a comma-separated list of skin IDs.
ciscoSg/look/buttonListFunction	recordedTV   rpl	Describes the user interface function to be performed when the LIST button on the remote control is pressed (launch the "Recorded TV" sub-menu or the "RPL" Recorded Program List directly).
ciscoSg/sys/powerOnAfterBoot	false   true	If true, then automatically power on (go to non-standby) at booting time. If absent or false, then user must press Power button after a boot. True indicates that the set-top should present the UI and video when powered-on or rebooted. False indicates that the set-top should wait for the user to press the Power button to leave the standby state and present the UI and video.
ciscoSg/sys/screenLang	Any language pack ID (e.g. eng_us, fr_ca, or other operator-downloaded language pack)	The screen language, also known as the global language, used in the UI.
ciscoSg/sys/showTunedChanBan	true   false	Whether to show the channel change

Variable	Options (default first)	Description
ner		banner.
ciscoSg/sys/startupAppName	Any application ID (e.g. setup, ipg, etc.)	Application that is in focus on startup. Default is to not open the main menu on startup.



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