



Videoscape Control Suite 3.5.0 BSS/OSS Adaptor (BOA) Service Configuration Guide

Overview

Introduction

Cisco's Business Support System/Operations Support System (BSS/OSS) adaptor provides a unified interface to the back-end subscriber and billing systems typical of subscription-based service provider deployments. Because the BSS/OSS adaptor (BOA) is attached to the messaging fabric, the adaptor can be co-located with back-end systems. This eliminates the need for a separate billing system interface for each headend control system.

Purpose

This document describes how to configure the BOA service for Cisco's Videoscape Control Suite (VCS) Version 3.5.0.

Prerequisites

Before you can use the procedures in this document, the following tasks must be completed:

- VCS Version 3.0 or greater must be installed.
- The Explorer Control Suite (ECS) COP files must be installed.
- A minimum of the following ECS COP files must be installed:
DBAccessService, RegisterService, CpeManagement, and LoadPIMSService.
The UI components of the RegisterService and CpeManagement services must also be installed.
- The Explorer Controllers (ECs) must be registered with the ECS.
- The BOA COP file and the BOA UI components must be installed.

Installation

See the following publications for additional information about this VCS release:

- *Videoscape Control Suite Installation and Upgrade Guide* (part number OL-29939)
- *Installing COP Files for the Videoscape Control Suite* (part number OL-27753)

Document Version

This is the third formal release of this document. The contents of this document were modified to support VCS Version 3.5.

How To Configure the BOA Service

VCS Management Console Login

- 1 Open a supported browser.

Notes:

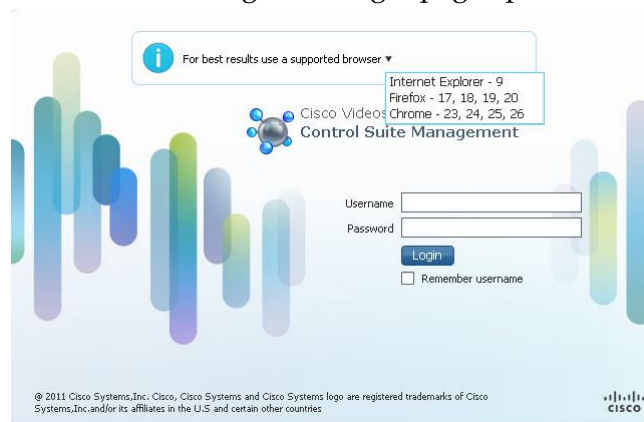
- Internet Explorer, Firefox, and Chrome browsers are supported.
- The VCS login page, displayed in the following step, cites the specific versions that are supported.

- 2 Enter the following command in the address bar:

https://[VCS Management UI IP address]/

Example: https://192.0.2.1/

Result: The management login page opens.



- 3 Enter the root or BOA user **User Name** and **Password** and click **Login** to log in to the console.

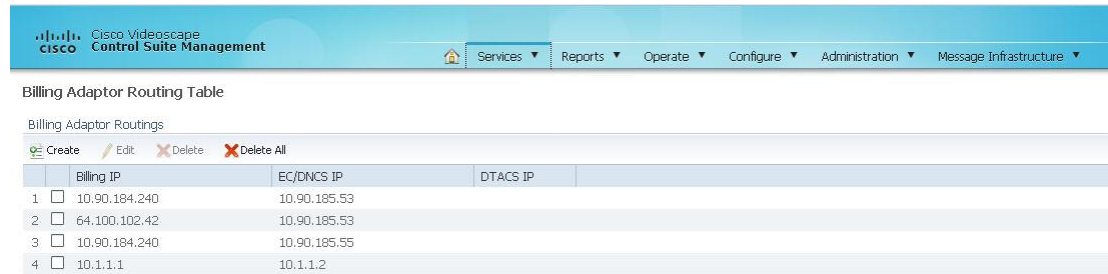
Defining the Billing Adaptor Routing Table

The BOA uses routing configuration data to determine the appropriate EC IP address to send BOSS transactions. The routes are based upon the billing system that sends the transaction to the BOA. The VCS Management interface provides a page that supports this BOA routing configuration. To define the BOA Routing Table configuration, complete the following steps:

Note: The System or Network Administrator should be able to provide the IP address of the billing system's interface that communicates with the BOA. They should also be able to provide the IP address for the interface to the appropriate EC/DNCS/DTACS system, if not already known.

- 1 Log in to the VCS Management interface with a username that provides access to the Billing Adaptor Routing Table page.

- 2 Choose **Services > Billing Adaptor Routing Table**. The Billing Adaptor Routing table page appears.



- 3 View the Billing Adaptor Routings list in the Billing Adaptor Routing Table page. If you need to create a new billing adaptor route, click **Create** to define this new route.



- 4 Enter the IP address for the billing system, as well as for the EC/DNCS system and/or the DTACS system.
- 5 Click **Save**. The newly defined route configuration appears in the list, indicating that the new route is now in effect.

Defining the BOA User and BOA-Mgr User Group

The VCS Management interface supports role-based user login functionality for the various applications installed on the VCS, including BOA.

The VCS Management interface provides pages that support the creation of a BOA-specific username and password, membership in various user groups, and customized service configuration access permissions for specific tasks.

To define a BOA user with customized access permissions, complete the following steps:

- 1 Log in to the VCS Management interface as the **root** user.
- 2 Choose **Administration > Users, Roles & AAA**.
- 3 Choose **Users** from the list of options on the left side of the page. The Users page appears.



- From the **Select a command** drop-down list, choose **Add User**. Then, click **Go**. The Add User page appears.

Add User
Administration > AAA > Users > Add User

General

Username

New Password

Confirm Password

Groups Assigned to this User

AM-Mgr

Client-Directory-Mgr

ECSUser

Message-infra-Mgr

Platform-Mgr

Super Users

Admin

Cloud-DVR-Management

EPM-Mgr

Operator

Resource-Mgr

UNG-Mgr

BOA-Mgr

ECSOperator

Event-Mgr

Operator-Messaging-Mgr

Root

UPM-Adaptor-Mgr

Save Cancel

- Enter a new BOA username and password.
- Check the **BOA-Mgr** check box to assign this new BOA user to the BOA-Mgr group.
- Click **Save**. The **User added successfully** message should appear.
- Now, choose **User Groups** from the list of options on the left side of the page. The User Groups page appears.

User Groups
Administration > AAA > User Groups

Group Name	Members	Audit Trail	Export
AM-Mgr			Task List
Admin	admin		Task List
BOA-Mgr	boa		Task List
Client-Directory-Mgr			Task List
Cloud-DVR-Management			Task List
ECSOperator			Task List
ECSUser			Task List
EPM-Mgr			Task List
Event-Mgr			Task List
Message-infra-Mgr			Task List
Operator			Task List
Operator-Messaging-Mgr			Task List
Platform-Mgr			Task List
Resource-Mgr			Task List
Root	root		Task List
Super Users			Task List
UNG-Mgr			Task List
UPM-Adaptor-Mgr			Task List

- Confirm that the new BOA user that you just created in the previous few steps is listed as a **Member** of the **BOA-MGR** group.

- Choose **BOA-Mgr** from the list of Group Names on the left. The Group Detail: BOA-Mgr page appears.

- Assign **Task Permissions**, as needed, to the new BOA user by checking the appropriate check box. Then, click **Submit**. The **User Group saved successfully** message should appear.
- Verify the new BOA user, user group, and access permissions by logging out of the VCS Management system, and then logging back in as the new user. Check that the new user can access those pages for which permission was assigned.

Modify the BOA Application Log Level Setting

The BOA application log level setting in the VCS Management window provides the operator with the ability to change the BOA log message output to different levels of detail. To adjust the BOA application log levels, complete the following steps:

- Log in to the VCS Management interface with a username that provides access to the Billing Adaptor Dashboard page.
- Choose **Services > Billing Adaptor Dashboard**. The Billing Adaptor Dashboard page appears.

Name	URL
RegisterService	conductor://cisco.dbds.ecs.clu18747.register
csvm8553	conductor://cisco.dbds.ec.clu18747.csvm8553-boss
dbds.loadpims	conductor://cisco.dbds.ecs.clu18747.loadpims
CpelManagement	conductor://cisco.dbds.ecs.clu18747.cpens

- In the **Billing Adaptor Log Setting** area, click the drop-down arrow to view the different log levels.
- Select the new, desired log level that is different from the current level.
- Click **Save**. A confirmation message appears. The new log level becomes active.

Managing Log Messages

To access the BOA application log messages, use a terminal emulator to log on as **admin** user to the virtual machine on which the BOA COP file was installed. Enter the following commands at the **admin** prompt for the following log message functions:

- To view current existing BOA log messages:
`file view activelog jboss/BillingAdaptor.log`
- To list log file names, including archive log file names:
`file list activelog jboss/*`
- To view archive log file messages:
`file dump activelog jboss/[archive_filename]`
- To tail BOA log messages:
`file tail activelog jboss/BillingAdaptor.log`

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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