CISCO

Managing Backups in Cisco Vision Director

First Published: 2017-11-21

This module includes the following topics:

- Information About Backups, page 225
- How to Manage Backups, page 226
- How to Restore From Backup, page 231

Information About Backups

This section includes the following topics:

- Backup Environment, page 225
- What System Data is Backed Up, page 225
- When to Run a Backup, page 226

Backup Environment

While you can run a backup for a network environment where there is only a single Cisco Vision Director server, the recommended environment that is described in this document is a redundant environment for either Platform 2 or Platform 3 servers or a virtualized environment. In a redundant environment, you are running Cisco Vision Director on a primary server, with a secondary server connected to the same subnet where the backup data from the primary server is saved.

The backup process can be scheduled and also run manually. When a backup is completed, the CMS is automatically restarted.

What System Data is Backed Up

There are several areas of Cisco Vision Director that need to be backed up. The backup process backs up the following areas of the Cisco Vision Director server:

- Cisco Vision Director Content Management System (CMS)
- Cisco Vision Director database
- Cisco Vision Director system configuration files
- Content Integration data
- Dynamic Menu Board data (including GAR files)

CAUTION: The Proof of Play raw data in the var/sv/pofp/rawdirectory is not backed up.

Proof of play report data in the /var/sv/pofp/data directory

When to Run a Backup

You should run a manual backup whenever you perform any of the following tasks:

- Add/modifythe Channel Guide
- Content update (menu board, L-Wrapper) JPG, SWF, and so on
- Add/modifyzonesandgroups
- Add /modify DMP and phone
- Add/modifyLuxurySuite
- Update Management Dashboard registry
- Update Control Panel

CAUTION:

- 1. Stop any running script before starting a manual backup.
- 2. Do not start a game/event script during a backup.
- 3. Do not operate the Cisco Vision Control Panel / Management Dashboard until the backup is complete.

How to Manage Backups

This section includes the following topics:

- Prerequisites for Running Backups, page 226
- Best Practices for Managing Backups, page 226
- Scheduling a Regular Backup, page 227
- Starting a Backup Manually for Immediate Execution, page 227
- Verifying Backup Completion, page 228
- Modifying the Number of Backup Files to Retain, page 231

Prerequisites for Running Backups

Note: Configure the primary and secondary servers for backup operation as part of the initial server setup. For more information about configuring the servers for backup, see Backing Up and Restoring Cisco Vision Dynamic Signage Director Servers, page 63 in the Cisco Vision Director Server Administration Guide.

Before you can run backups, meet the following conditions:

- The backup account has been enabled on the secondary server
- The primary server has been set up for automatic backup and restore

Best Practices for Managing Backups

- Perform a manual system backup prior to starting the game script.
- Back up all components (highly recommended).
- Stop the active game/event script from the Management Dashboard before starting the manual backup.

- In Cisco StadiumVision Director Release 4.1 and later releases, the backup task can run even while an event script is running. As part of this change, the database is no longer optimized or repaired during the backup process—a new TUI option is added to run database maintenance manually if needed.
- Do not operate the Cisco Vision Director Control Panel or Management Dashboard until the backup is complete.

Scheduling a Regular Backup

User Role: Administrator

After you have configured the servers to support the backup process, schedule backups using the Management Dashboard in the Cisco Vision Director software.

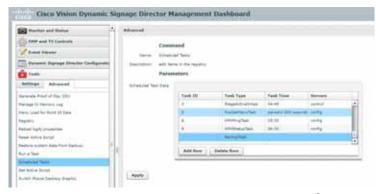
Note: We recommend that you schedule backups while the Cisco Vision Director servers are not actively running scripts or performing other event processing.

To configure a backup to run on a regular schedule:

- 1. From the Management Dashboard, go to Tools > Advanced > Scheduled Tasks.
- 2. Click Add Row and scroll to the new blank line.
- 3. Click in the Task Type column and type BackupTask (Figure 1 on page 227).

Note: Type the name of the task exactly as shown with upper and lowercase characters.

Figure 1 Scheduling a Regular Backup Task



- 4. Click in the Task Time column and specify the time (in 24:00 format) when you want the backup to run.
- 5. Click in the Servers column and type config.
- 6. Click Apply.

Starting a Backup Manually for Immediate Execution

User Role: Administrator

If you want to start a backup immediately, run a backup process manually.

To start a backup manually for immediate execution:

- 1. From the Management Dashboard, go to Tools > Advanced > Run a Task
- 2. In the Tasks to Run box, select the BackupTask (Figure 2 on page 228).

Figure 2 Running a Scheduled Backup Task Manually



3. Click Apply.

The backup begins immediately. When completed, the CMS is automatically restarted.

IMPORTANT: The "success" message that appears means the backup task has started. It does NOT mean the backup task has completed.

Verifying Backup Completion

User Role: Administrator

To verify backup completion, confirm that a backup file exists and that no errors appear in the log file.

Verifying That a Backup File Exists

IMPORTANT: Verifying the existence of a backup file only tells you that a backup file was attempted but not necessarily if there were any errors.

To verify that a backup file exists:

- 1. From the Management Dashboard, go to Tools > Advanced > Restore system data from backup
- 2. Verify that backup files with dates and times appear.

Finding Backup Errors in the Log File

IMPORTANT: Be aware that the messages "Starting backup" and "Backup completed" will always appear in the log, regardless of success.

You can access log files in the following ways:

- TextUtility Interface (TUI)
- System State Report from the Cisco Vision Director main menu.
- By running grep -i backup sv_dev_debug.log (requires root access) .Figure 3 on page 230shows an example of log output for a successful backup without errors.

To find backup errors in the log file:

- 1. Open the /opt/sv/servers/config/logs/sv_dev_debug.logfile.
- 2. In the sv_dev_debug.log file, find messages that include the string "com.cisco.sv.backup."

These are the backup process messages.

3. Find the "Starting backup" message.

4. After the "Starting backup" message (but before the "Backup completed" message), look for a "com.cisco.sv.backup" message that also includes "ERROR" in the string.

If you find this error, the backup did not complete successfully.

Figure 3 Successful Backup Log Output Example From Grep

```
grap - backup or dev_defug.kg
        2015-01-21 in 18-61-210 (Julius Harry broader - Norter 6 - 1901) - propins on a feebal harbyright - terraing harbyright.
2015-01-21 in 18-61-210 (Julius Harry broker 2) - 1901) - propins on bethan harbyright broker - Northyr bocker
2015-01-27 in 18-61-29 (Julius Harry broker 2) - 1900 in propins on bethan harbyright - Northyr bocker (public byrights by
        2023-01-23 DC28-03,4CT [Selouk@art05/leside: Mickey 6] 1989-0
                                                                                                                                                                                                      me dark for being reger
1925 95 25 14:18 42,457 (Defaultssorpschoolses, Wester St. 1997) complex audiented by Naghborson - Post (voluments bering, priprincing, an resonal | Post Buckgroung during
        2015 H. J. S. L. T. S. L. W. Harles Weeger: The Pool of the Section of the Section Sec
             2015-01-20 (4-20-54-20) Back-philosope-Penadicul (SURI) con circa to tacking decknot origina. Another Cole aggi process for you to Justici (AUCA) Anni 4-0.01-056 (2014) (AUCA) (
        2013 of 12 LLT MATE (BAT AND CORP. Tree First Corp. Tree 
             ne-free free fire ($40,00,00) request reasons 4 A.C. 200-2003/00,000 ($10,000) and arri
           2013-01-25 19-15 19-00 Default (particle date: Nodes 1) 2000 (process or being hackgrounder - beeing back (ng/sylvips/being-sylvet
2013-01-29 (4.13 20.00) Default (particle date: Wester 1) 2000 (process or of Lyround, Processory) or Superior date for being or protein
             2015-01-21 14:15 91:000 Default Lantotreide. Note: 61: 9911 concision authorize Authorized: - Popt/autorized authorize, pulpethorize, et repone ( For tailing unit agree.
           201-01-21 N.C.S. 95/00 (Production Section 1) 997 per plan to be tas Section Section 1 997 per plan to be tas Section 1 997 per plan to be tasked to the 
        mining, in Amy and 4 Community of News 4 Co. 25 - 20 Col. 20 C
           4.0.516-00(00.014406) 0000 for
2005-01-23 (4.05 04.04) Defeat Quartichedate , Winter St. (WH) complete an Section Section Proceedings of Noting copy to increasing process to
2005-01-23 (4.07 04.07) Defeat Quartichedate , Winter St. (Williams and additional Proceedings) - Responsibility of National
2005-01-23 (4.07 04.07) Defeat Quartichedate , Winter St. (Williams and additional Processionals) - Responsibility of National
           office and from the PARCHAPTER AND THE PROTOCOLORS AND THE COLORS
           Note-this /ne/hy/th/CELEVic 4.3.0.206.000012101041.0000 as to Assemble 4.0.0.006.0000121010441.0000 as
the set hands Assemble 4.4.0.006.0000101310140.0000 as
2015-91-23-24.07 (behold Lanck Hooke), Worker St. 6000 consultation better Distingthings of Consultational Assemble suprimering a three business.
             Plant and July Facilities (Control A. S. C. 194, PROTECTION ASSAULT (MINES AND
           To the wing April 19/84 CENTE + 4.0.0. THE SOCIET 2014 1940 - 0000 he has American for A.O. THE SOCIET 1944 - 0000 he

White your fraction for A.O. THE SOCIET 2014 1940 - 0000 - 100 per

April 1940 - 1940 ACM (1944 - 1945 - 1945 ACM 2014 1940 - 0000 - 100 per

April 1940 - 1940 ACM (1944 - 1945 - 1945 ACM 2014 1940 - 0000 - 100 per 1940 ACM 2014 1940 - 1940 ACM 2014 ACM 2014 1940 ACM 2014 ACM 2014 1940 ACM 2014 ACM 
        Approximation of the control of the
```

Modifying the Number of Backup Files to Retain

User Role: Installer (Administrator)

To reduce the amount of disk storage required in your system, the default backup retention policy is to keep one backup file. This retention policy can be modified to retain 2, 5, 7, or 10 backup files.

For more information, see the Backing Up and Restoring Cisco Vision Dynamic Signage Director Servers, page 63module in the *Cisco Vision Director Server Administration Guide*.

How to Restore From Backup

Once the primary and secondary servers have been configured for automatic backup and restore, the Cisco Vision Director software automatically copies backup files between the primary and secondary servers.

When the restore process starts, the MD5 checksum of the file is verified. If for some reason you need to manually copy files between the servers, be sure that you copy both the tar and chksum files because the restore process automatically uses both files to verify the MD5 signature.

Note: If you need to failover to the secondary server and do a restore, follow the procedures in the Configuring Failover Between Redundant Cisco Vision Dynamic Signage Director Servers, page 75 in the Cisco Vision Director Server Administration Guide.

This section includes the following topics:

- Starting a Restore Manually for Immediate Execution, page 231
- Restarting Cisco Vision Director Software After a Restore, page 232 (Required)

Starting a Restore Manually for Immediate Execution

User Role: Administrator

As with backups, you can schedule the restore process or run it manually. When the manual restore screen is displayed, it lists backups from both the backup and restore directories, concatenated together. This allows you to run a manual restore on either the primary or the secondary server.

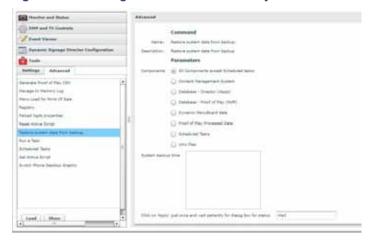
CAUTION: You cannot run a restore while an event script is running. Also, if your venue was running an event script when the backup took place, then those scripts will be running after the restore.

An automated restore always uses the most recent backup file in the restore directory.

To start a restore manually for immediate execution:

- 1. From the Management Dashboard, go to Tools > Advanced > Restore system data from backup
- 2. For Components, select All components except Scheduled tasks (Figure 4 on page 232).

Figure 4 Running a Restore Task Manually



- 3. (Optional) If you do not want to restore the latest backup (the default), then in the "System backup time" box, select the date and time of the backup file that you want to restore instead.
- 4. Click Apply. The restore begins immediately.

Note: If you need to also restore the scheduled tasks, you can rerun the Restore system data from backup and for Components, select Scheduled Tasks.

What to Do Next After Restoring

After the restore completes, be sure to restart the Cisco Vision Director software. For more information, see Restarting Cisco Vision Director Software After a Restore, page 232.

Restarting Cisco Vision Director Software After a Restore

User Role: Installer (Administrator)

After you perform any restore on a Cisco Vision Director server, you must restart the Cisco Vision Director software to resume normal operation of the services.

For more information about using the TUI, see the Cisco Vision Dynamic Signage Director Server Text Utility Interface, page 89 module of the Cisco Vision Director Server Administration Guide.

To restart the Cisco Vision Director software:

- 1. Log into the TUI.
- 2. Go to Cisco Vision Server Administration > Restart Dynamic Signage Director software.