



Back Up and Restore GV-VMS Server Data

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Applied to

GV-VMS V20 / V18 / V17

Summary

This document explains how to regularly back up and restore GV-VMS server data to support disaster recovery and system migration. To safeguard your surveillance environment, **it is strongly recommended to back up your configuration and databases on a routine schedule.**

Regularly backed-up data can be used in the following three scenarios:

- **Scenario 1:** Restore the data following system setting or database corruption
- **Scenario 2:** Reinstall or format the operating system on the current server
- **Scenario 3:** Migrate data to a new physical server

1. Back Up the Data

Regular system backups require saving two types of data. Refer to the following subsections for detailed backup instructions.

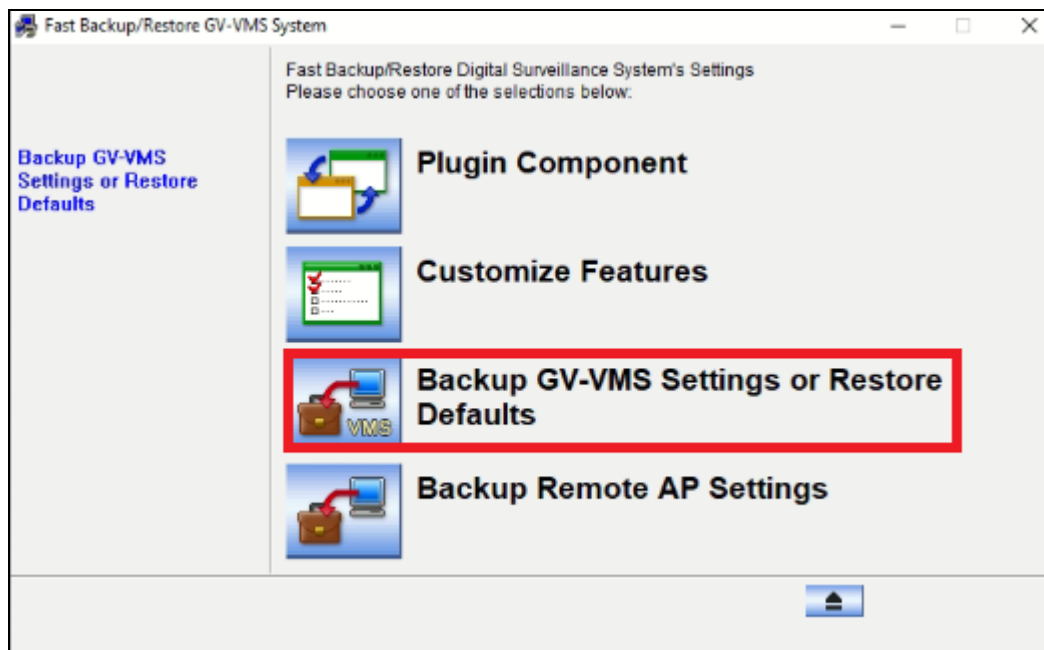
- **System Settings** (*see section 1-1*)
- **Databases** (*see section 1-2*)



1-1 Back Up System Settings

Use the GV-Fast Backup and Restore (GV-FBR) utility to back up system settings.

1. Go to **Windows Start > GV-VMS folder > Fast Backup and Restore Main System**. The Fast Backup/Restore GV-VMS System window appears.
2. Click **Backup GV-VMS Settings or Restore Defaults**, enter your GV-VMS login credentials, and select **Backup Current System**.



3. Select the desired categories (Password, General, Schedule, POS, Network, Emap, or Error Log) to back up.
4. Click the **Next Step** button , and name the file and choose a backup location.



System Log Database

Default Path: C:\Program Files\GV-VMS\Database

*The complete directory path and drive letter are configurable.

*Copy the entire Database folder, which is automatically created by the system.

Home screen > ViewLog > Toolbar > Configure > System Log Setting.

AI Event Database

Default Path: C:\Program Files\GV-VMS\CameraDBs\

*The complete directory path and drive letter are configurable.

Home screen > ViewLog > Toolbar > Configure > AI Event Storage Settings.



GV-VMS V18

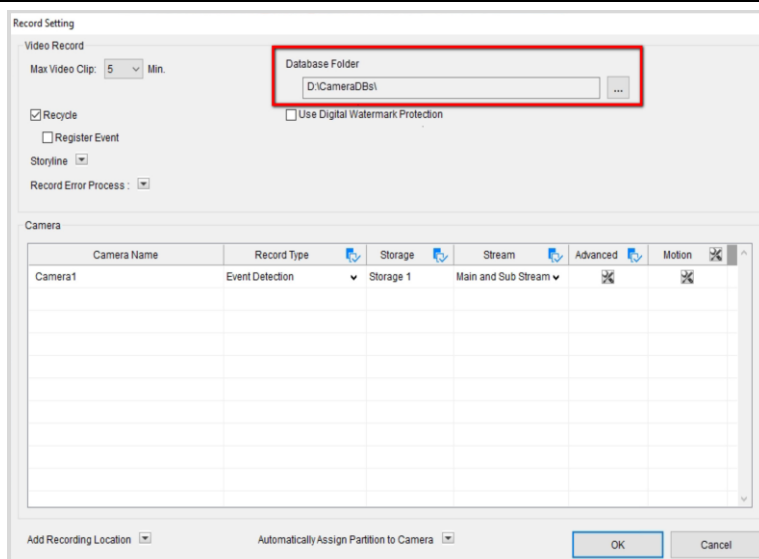
The drive letters and file paths shown below may vary depending on your specific installation. These default paths assume the software is installed in **C:\GV-VMS** on a multi-drive system.

Record Database

Default Path:

D:\CameraDBs\

*The complete directory path and drive letter are configurable.



Home screen > **Toolbar**  > **Configure**  > **System Configure** > **Record Setting**.

(1) System Log Database

Default Path:

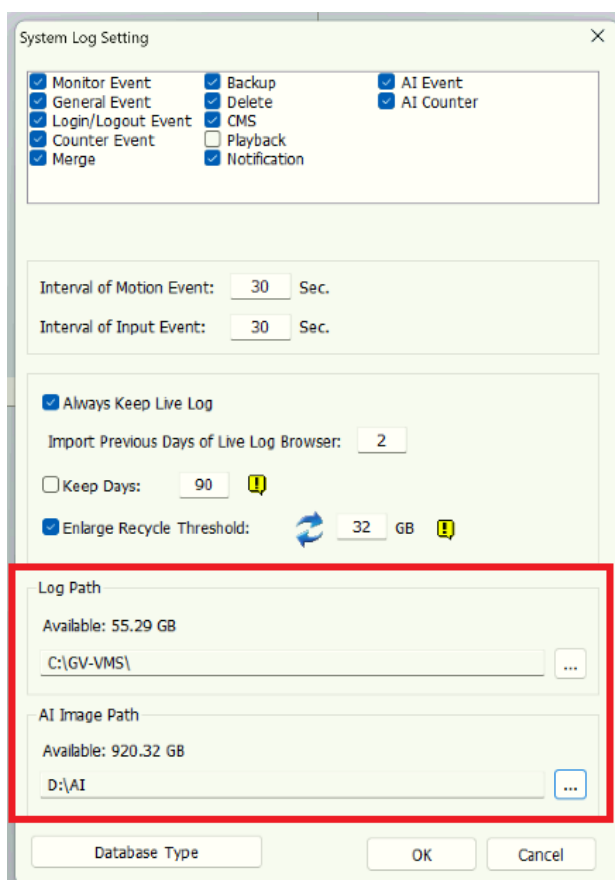
C:\GV-VMS\Database

(2) AI Images

Default Path: D:\AI

*The complete directory path and drive letter are configurable.

*Copy the entire Database folder, which is automatically created by the system.



Home screen > **ViewLog**  > **Toolbar**  > **Configure**  > **System Log Setting**.



GV-VMS V17

The drive letters and file paths shown below may vary depending on your specific installation. These default paths assume the software is installed in **C:\GV-VMS** on a multi-drive system

Recording Database

Default Path:

C:\GV-VMS\CameraDBs\

*The complete directory path and drive letter are configurable.

Camera Name	Record Type	Storage	Stream	Advanced	Motion
Camera1	Motion Detection	Storage 1	Main Stream	✓	✓
Camera2	Motion Detection	Storage 1	Main Stream	✓	✓
Camera3	Motion Detection	Storage 1	Main Stream	✓	✓
Camera4	Motion Detection	Storage 1	Main Stream	✓	✓

Home screen > **Toolbar** > **Configure** > **System Configure** > **Record Setting**.

System Log Database

Default Path:

C:\GV-VMS\Database

*The complete directory path and drive letter are configurable.

*Copy the entire **Database folder**, which is automatically created by the system.

Home screen > **ViewLog** > **Toolbar** > **Configure** > **System Log Setting**.



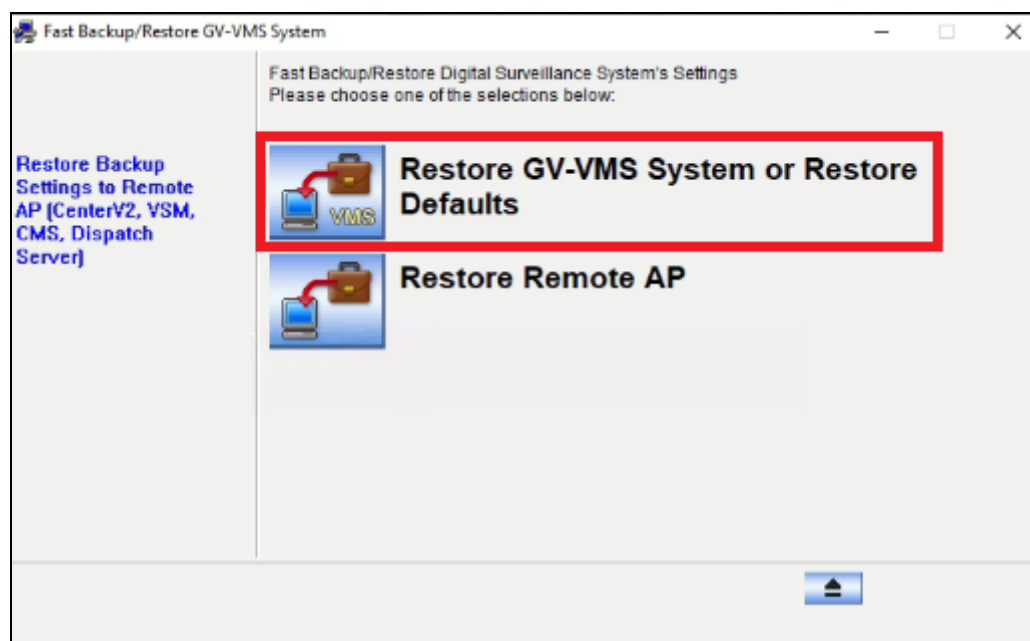
2. Scenario 1: Restore the Data

In the event of a system failure or corruption, if you need to restore the backup system settings and databases on the **same GV-VMS server**, follow the steps below.

2-1 Restore System Settings

Use the **GV-Fast Backup and Restore (GV-FBR)** utility to restore your system settings.

1. Run the **GV-FBR backup file (.exe)** created in [1-1 Back Up System Settings](#).
2. Click **Restore GV-VMS Settings** or **Restore Defaults**, enter your GV-VMS login credentials, and select **Restore Backup Settings**.



3. Select the backup categories to restore.
4. Click the **Next Step** button  to start restoring.



2-2 Restore Databases

To restore databases, follow the steps below.

1. **Delete Corrupted Files:** If the original database files are corrupted, delete the corrupted files. Otherwise, proceed directly to Step 2.
2. **Restore Backup Files:** Copy the backup database files back to their **exact** original directory paths.

Ensure you restore all three backup databases to their original locations. For database directory paths, see [1-2 Back Up Databases](#)

- Record Database
- System Log Database
- AI Event Database (only for GV-VMS V20 / V18)

3. Scenario 2: Reinstall the OS

If the system experiences an OS failure or a virus attack, you may need to format the hard drive and reinstall the operating system. In this situation, you can restore your surveillance environment using the **system settings** and **databases** you previously backed up (see *1. Back Up the Data*).

To restore the data, follow the steps below.

1. To restore system settings, see [2-1 Restore System Settings](#).
2. To restore databases, see [2-2 Restore Databases](#).

IMPORTANT: If your system is affected by a virus, verify that the database is not corrupted or compromised before creating a backup.

Note: Recovery is limited to the data contained in your latest backup. For example, if you perform a backup on July 1 and reinstall the OS on July 8, all data recorded from July 2 through July 8 will need to be repaired.



4. Scenario 3: Migrate to a New Server

In **Scenario 3**, there are three major procedures to migrate your entire GV-VMS server configuration and data a new server:

Version Compatibility: The target server must run the exact same GV-VMS version as the source server during backup and restore.

Step 1: Back Up Current System Settings

Export the configuration from the active source server using GV-FBR. See [1-1 Back up System Settings](#).

Step 2: Migrate Data to the New Server

To transfer your databases and recorded files to the target server, follow the steps below.

1. Replicate directory paths

On the **new** server, create directory paths that match the old server **exactly**. This includes the paths for the following components:

- Record Database
- System Log Database
- AI Event Database
- Recorded Files

2. Transfer Databases

Copy all database files from their original locations on the **old** server and paste them into the corresponding directories created on the **new** server. See [1-2 Back Up Databases](#).

3. Transfer Recorded Files

Do not copy the recorded video files. Because they require significant storage space, physically migrate the storage HDD from the **old** server and install it on the **new** server.



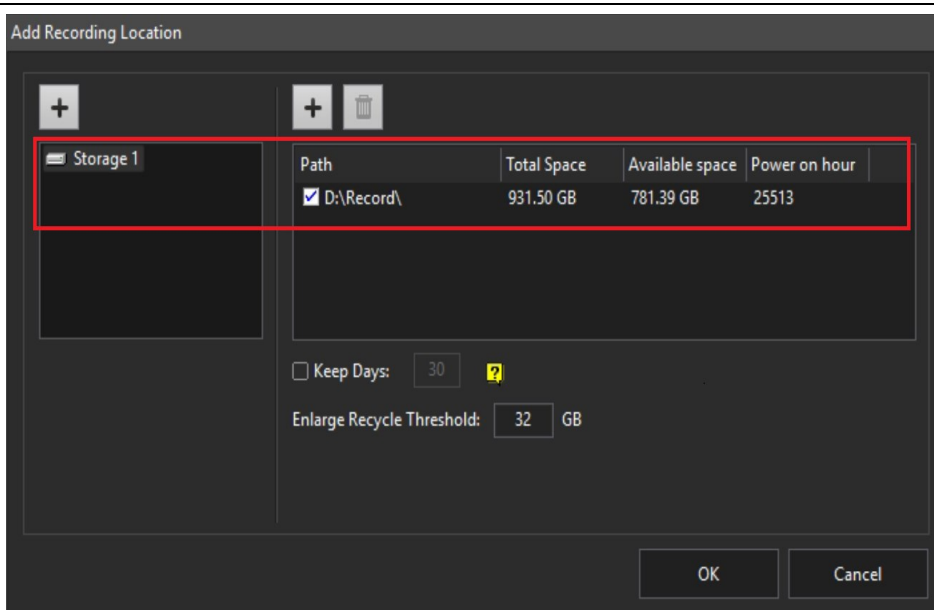
Recorded Files

Default Path: D:\Record\

*The complete directory path and drive letter are configurable.

*Due to the large size of recorded files, physically move the storage HDD from the old server and install it on the new server.

*Directory paths for recorded files on the new server must match those on the old server **exactly**.



Storage 1	Path	Total Space	Available space	Power on hour
☒	D:\Record\	931.50 GB	781.39 GB	25513

☐ Keep Days: 30

Enlarge Recycle Threshold: 32 GB

OK Cancel

GV-VMS V20

Home screen > **Toolbar** > **Configure** > **System Configure** > **Record Setting**. In the Record Setting dialog box, click next to **Add Recording Location**.

GV-VMS V18 / V17

Home screen > **Toolbar** > **Configure** > **System Configure** > **Record Setting**. In the Record Setting dialog box, click next to **Add Log Location**.

Step 3: Restore System Settings

Import the original configuration onto the target server using GV-FBR.

1. Copy the **GV-FBR backup file (.exe)** created in [1-1 Back Up System Settings](#), and paste it onto the **new** server where the system will be restored.
2. Run the **GV-FBR backup file (.exe)**.
3. Click **Restore GV-VMS Settings or Restore Defaults**, enter your GV-VMS login credentials, and select **Restore Backup Settings**.
4. Select the backup categories to restore.
5. Click the **Next Step** button to start restoring.