Tech Tip 140048
Data Drive Replacement: Assignment of Drive Installation and Warranty Support

Tech Tip #: 140048-3
Revision Date: February 17, 2015
Product Affected: VIGIL Server
Purpose: The purpose of this document is to configure a newly installed drive for use with Windows and the VIGIL system.

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1 Overview

1.1 Purpose
For the purpose of adding a new data drive or replacing a data drive. This guide will act as an overview and may be subject to site specific conditions.

1.2 Responsibilities
The Integrator acknowledges and assumes responsibility for all service and warranty support for the data storage drives that they install in the NVRs. All equipment must be purchased from 3xLOGIC. 3xLOGIC will continue to warrant the NVRs delivered to the integrator for materials and workmanship for a term of three (3) years from date of purchase.

2 Windows Setup & Partition Structure
- Open the Start menu. In the search bar type `diskmgmt.msc` then press Enter
- This will open the Windows Disk Management application. You may be prompted to initialize/convert the disk, Select the `GPT Disk` option. If you are not prompted for this, right click on the disk and select `Convert to GPT Disk`.

![Windows Disk Management](image)
Once converted, create a New Simple Volume. Follow the wizard prompts.

3 Disk 1 Setup
- By default Disk 1 is partitioned to contain an “Image01”, “Data01” and “Audio01” partition.
  - Image01 is a non-lettered partition which contains the user image created in the support environment.
  - Data01 is the primary video storage partition
  - Audio01 is the primary audio storage partition
The following table can be referred to for partition sizes. Continue through the proceeding sections of this document (Section 2.2 – 4) for the appropriate setup steps.

**Note:** The size for Data01 will be equivalent to the available remaining drive space. This will depend on what size Hard Drive is being used.

<table>
<thead>
<tr>
<th>Partition Name</th>
<th>Size in MB (windows setup)</th>
<th>Size in GB (final size)</th>
<th>Drive Letter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Image01</td>
<td>10240 MB</td>
<td>9.54 GB</td>
<td>Non Lettered</td>
</tr>
<tr>
<td>Audio01</td>
<td>20480 MB</td>
<td>20.00 GB</td>
<td>Y</td>
</tr>
<tr>
<td>Data01</td>
<td>**</td>
<td>**</td>
<td>F</td>
</tr>
</tbody>
</table>
4 Disk 2 & Subsequent Disk Setup
   • Volume size can be set to the maximum, unless partitioning is required (please see above).

5 Drive Letter Assignments & Formatting
   • Assign the Drive a letter. The following lettering structure must be followed.

<table>
<thead>
<tr>
<th>Drive Name</th>
<th>Drive Letter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data01</td>
<td>F</td>
</tr>
<tr>
<td>Data02</td>
<td>G</td>
</tr>
<tr>
<td>Data03</td>
<td>H</td>
</tr>
<tr>
<td>Data04</td>
<td>I</td>
</tr>
<tr>
<td>Audio01</td>
<td>Y</td>
</tr>
<tr>
<td>Exports</td>
<td>E</td>
</tr>
<tr>
<td>Failover</td>
<td>B</td>
</tr>
</tbody>
</table>

   • Format the partition.
      ▶ File System = NTFS
      ▶ Allocation Unit Size = 64K
      ▶ Volume Label = This will be the drive name associated with the drive letter from the table above.
   • Leave the Perform a Quick Format option enabled.
- Once completed, the user will receive a final wizard message to complete the setup. The disk will take approximately 15 seconds to complete. Once complete, right-click the new volume and select **Properties**.

- To finalize the Windows setup, disable indexing on the drive. Select **OK** to confirm the changes.
This completes the Windows portion of the setup process. You may exit out of the computer Disk Management window.

6 Database Management

- Now that our data drive has been configured you will want to map the location into the VIGIL Server software.

  Note: VIGIL Server will need to be closed prior to opening the DB manager.

- Click Start. In the search bar type Database Manager then press Enter.

- Login to the Database Utility using your administrator credentials.
• Click Add. From here you will map the correct Media Control information (if replacing a drive the mapig shold already be in place). The following is an example:

<table>
<thead>
<tr>
<th>Destination Name:</th>
<th>Media Type:</th>
<th>Destination Path:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data02</td>
<td>Local Drive</td>
<td>G:</td>
</tr>
</tbody>
</table>

• To define the Destination Path, click on the drop-down arrow and select the appropriate drive letter.

• Once complete, click OK. Click Yes when prompted to create a data folder.
You should now see the new or replaced drive listed.

Before recording any footage to the drive, you will need to complete a database rebuild.

7 Performing a Database Rebuild

1. From the VIGIL Database Utility’s Data Management Tab, select Rebuild.
2. Select all Drives.

3. Once complete be sure you want to **RESET** the initial footage date.
4. Click the **Database Manager** tab.

5. Select **Repair**; when finished, the system will prompt “Repairing Database Complete”

6. Reboot the system and start your QC process.

Failure to follow all of the procedures outlined above will risk the storage drive not being recognized or addressable by VIGIL VMS.

**8 Contact Information**

If you require more information, or if you have any questions or concerns, please contact 3xLOGIC Support:

Email: helpdesk@3xlogic.com

Online: www.3xlogic.com