EonView: Desktop Utility for Infortrend Shared Storage User Guide

This document introduces the EonView desktop utility and demonstrates how to integrate it with Infortrend's shared storage and Blackmagic Design DaVinci Resolve Studio to build a collaborative environment.

Version: 1.2

Updated: February 2020



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Document Revision Level

Revision	Date	Description
1.0	Dec. 2019	First release
1.1	Jan. 2020	Office shared storage & backup feature
1.2	Feb. 2020	Firewall settings

Preface

This document introduces the EonView desktop utility that complements Infortrend's GS/GSe/GSe Pro/CS shared storage solutions. In addition, this document also guides you through integrating Infortrend's shared storage and EonView with Blackmagic Design DaVinci Resolve Studio, to streamline solution deployment and enable immediate collaboration.

Audience

This document is intended for Infortrend customers, partners, and employees to use EonStor GS/GSe/GSe Pro/CS systems for file sharing via EonView.

What's in This Guide

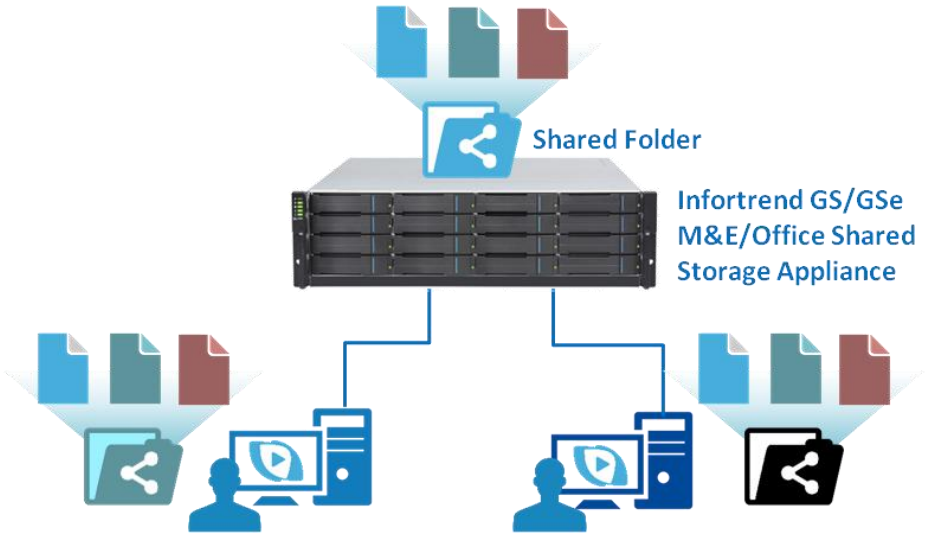
This guide contains the following topics:

- **Overview –** Introducing the EonView desktop utility.
- **Feature Highlights –** Presenting the key features of EonView.
- **Solution Deployment –** Guiding you through setting up a collaborative environment using Infortrend's shared storage, EonView, and Blackmagic Design DaVinci Resolve Studio.

1. Overview

1.1 What is EonView?

EonView is a desktop utility compatible with Windows or macOS workstations that connect to Infortrend's media/office shared storage — EonStor GS/GSe/GS Pro/CS storage systems[1] [2]. With EonView, a workstation user can instantly connect to the shared storage over LAN and mount shared project folders as local disks, as an intuitive and friendly file sharing solution for users without any IT background. After mounting shared folders with EonView, users in the same group or company can instantly start collaborating by sharing and archiving their files via different network protocols such as CIFS and NFS.

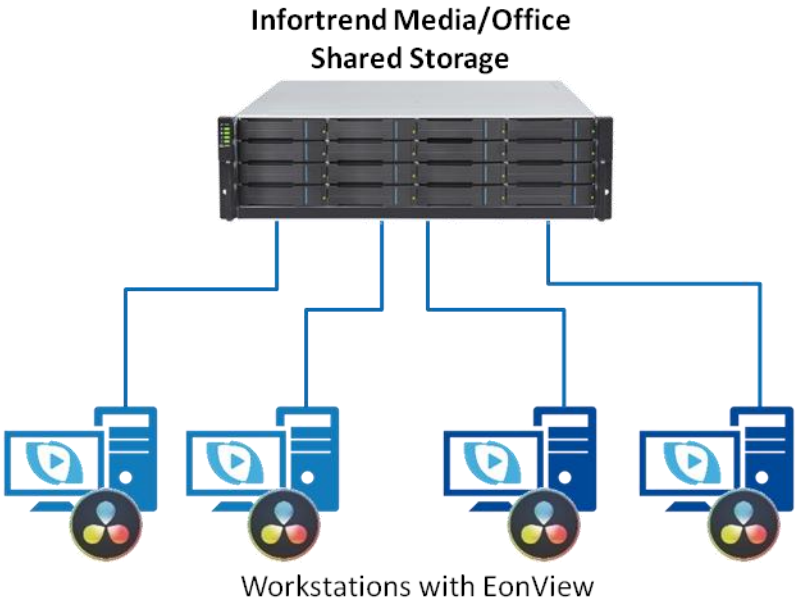


[1] GS, GSe, and CS are shared media storage systems integrated with DaVinci Resolve project server. For detailed information, please visit Infortrend website.

[2] Infortrend Office Shared Storage Solution only supports EonStor GS/GSe/GSe Pro Family storage system, not including EonStor CS.

1.2 DaVinci Project Collaboration

Infortrend GS/GSe/CS shared media storage solutions come with a built-in DaVinci Resolve project server for collaborative video editing. Multiple DaVinci Resolve software users can mount the same shared folder as their local disk for real-time collaboration. When mounting a shared folder on the workstation, EonView automatically detects if multiple editors mounting same shared folder are using the same drive letter to prevent rendering data inconsistency across editors. For example, when one editor mounts a shared folder as the local F disk, EonView automatically lists the same folder as the local F disk for other editors that mount the same shared folder later. This mechanism ensures data consistency across all clients to prevent unexpected errors from rendering data retrieving mismatch.



2. Feature Highlights

2.1 Auto Execution

EonView starts running automatically in the background after the workstation reboots. Then, it finds all available shared storage to facilitate immediate file access.

The EonView user's status will be recorded in the system. If user is using different workstation, user just needs to login EonView with their user account, and the EonView will automatically mount the user's folder to the new workstation. On the other hand, if user enables auto login, EonView can automatically mount these shared folder after workstation reboots.

2.2 Storage Discovery

EonView automatically scans all Infortrend storage systems in the LAN and those directly connected via network cables. It lists the storage IPs, model names, and device names of all connectible shared storage.

The user can also connect to a specific storage system by entering its IP address.

2.3 Mounting Shared Folders

After logging in to the chosen shared storage via EonView, the workstation user can access all available shared folders on the storage system: mounting specific shared folders as local disks for immediate access, and exchanging and updating files.

For users of Blackmagic DaVinci Resolve software, they must mount the same shared folder with the same disk letter to avoid unexpected rendering data retrieving mismatch.

2.4 Event Notification

When any critical system events (e.g. disk failure, Internet problems, or project server errors) occur, EonView notifies users with real-time notifications. Users can immediately grasp the system status while the administrator can rely on them for quick troubleshooting.

2.5 Backup Integration

EonView can directly link to native backup software of Windows/macOS. EonView can help users to backup their data with the native backup software of Windows/macOS to prevent the hard drive failure of their PC without any backup.

3. Solution Deployment

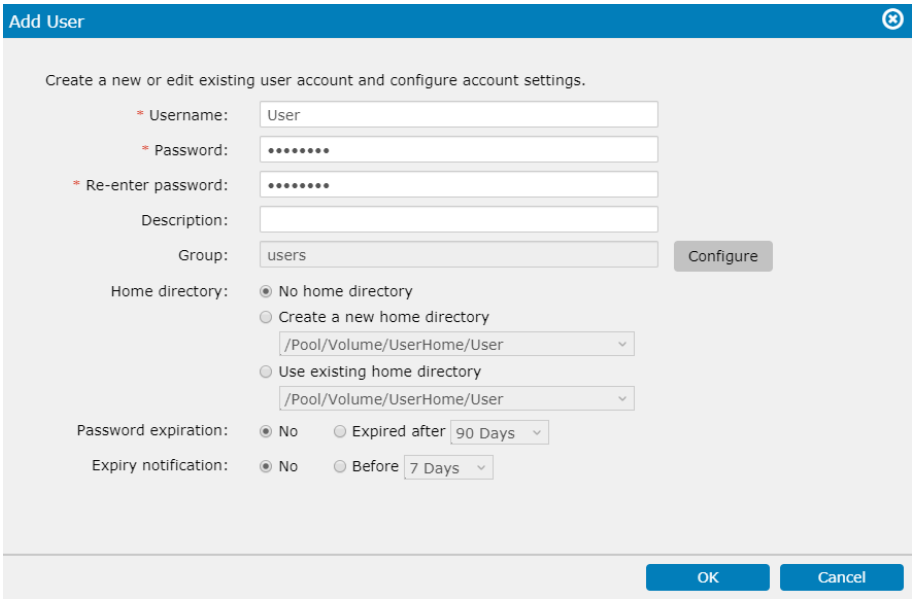
In this chapter, we demonstrate how to deploy a media collaborative editing solution and access files via workstations with EonView and DaVinci Resolve installed.

3.1 Deploy DaVinci Resolve Project Server

After you log in to EonOne[3] as an administrator (username and password: **Madmin**) and run the setup wizard, the system will automatically configure its built-in project server for DaVinci Resolve and storage space. Then, go to **Settings > Project server** and turn on the project server.

3.2 Create User Accounts

Next, go to **Settings > Users & shared folders** and click **Add** to create a new user account. Set the account's username, password, and folder access permission. Then, specify the home directory and password expiration settings. Created users accounts appear in the user list. The user credentials are required for EonView login.

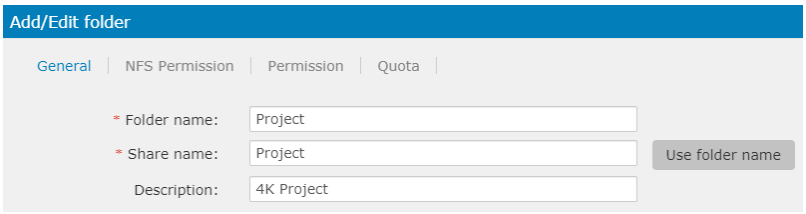


User account settings

[3] For detailed EonOne deployment, refer to EonOne software user manual.

3.3 Create Shared Folders

Go to **Settings > Users & shared folders > Shared folders** and click **Add** to create a new shared folder. Then, specify the folder name and the share name (displayed via CIFS protocol). Infortrend shared media storage offers NFS and CIFS protocols by default. You can edit the user and group access permissions in the **Permission** and **NFS Permission** tabs. In the **Quota** tab, you can configure the shared folder's quota settings.



3.4 Install EonView

After creating user accounts and shared folders, download and install the EonView desktop utility on each workstation. The desktop utility is available on the accompanying product CD or from Infortrend's official website.

Follow the steps to install EonView depending on the operating system:

Windows

1. Unzip the downloaded .zip file.
2. Run the install shell file.
3. Run EonView by double clicking on "**EonView.app**".

macOS

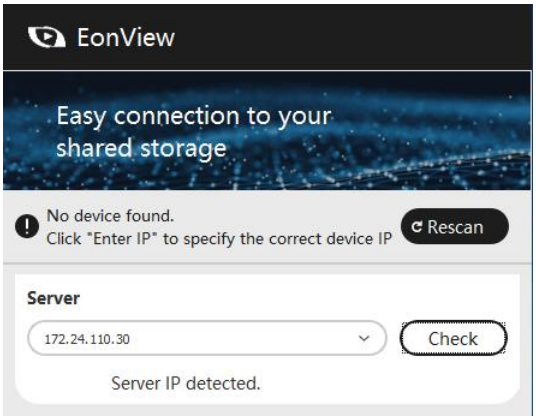
1. Unzip the folder.
2. Install the **jdk-13_osx-x64_bin.dmg** file
3. Open Finder and copy **EonView.app** to **Apps**.
4. Run the install shell file.
5. Run EonView by double clicking on "**EonView.app**".

3.5 Mounting Shared Folders

Connect to the Shared Storage[4]

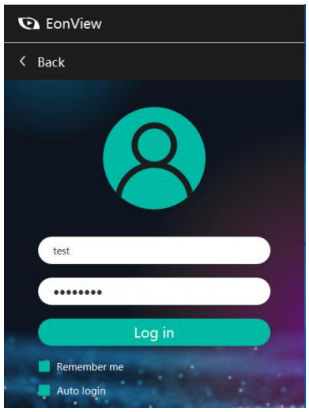
When EonView finds multiple shared storage devices, you can select a desired one to connect to from the **Server** dropdown menu. In addition, you can enter the IP address of specific shared storage by clicking **Enter IP** and providing its IP address.

After selecting shared storage, click **Check** to check the network connection between the workstation and the shared storage.



Log in to EonView

Go to the login page and enter your username and password provided by the administrator.

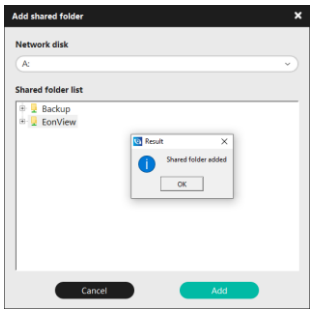


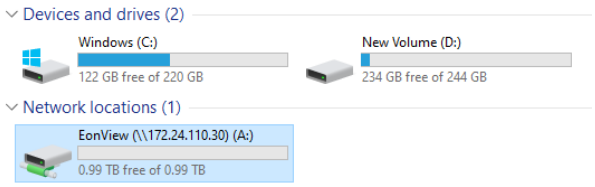
[4] Check the firewall port settings first to ensure the connection will not be blocked by the firewall. See the Appendix for more information.

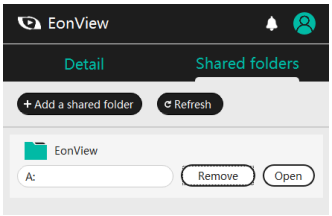
3.6 Mount a Shared Folder as a Local Disk

After logging to EonView, go to **Shared folder** and click **Add folder**. Then, choose a shared folder and click **Add** to mount the shared folder to your workstation computer. Next, assign a disk number to the mounted folder. If the mounted folder has been assigned a disk number by other users, the previous disk number appears for you to choose. To prevent unexpected errors during intensive collaboration, choose the previously assigned disk number or any disk number agreed on by other editors[5]. Afterwards, click **OK** to return to **Shared folders** and find the mounted shared folder.

To start collaboration, select a desired mounted folder and click **Open** to access the files inside. If you no longer need to collaborate using the mounted folder, you can unmount it by clicking **Remove**.



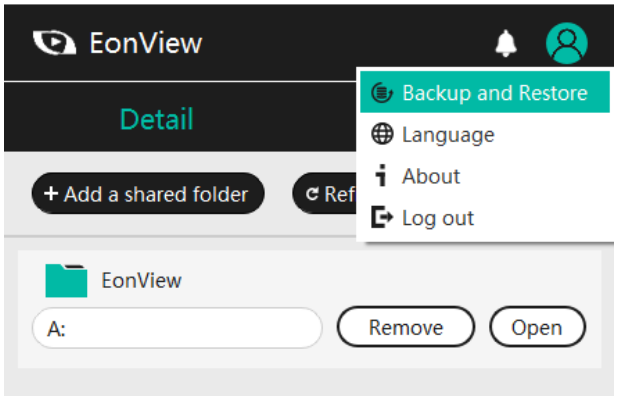


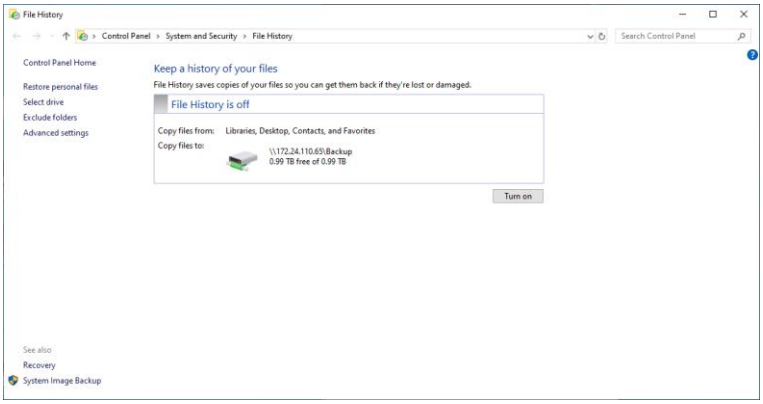


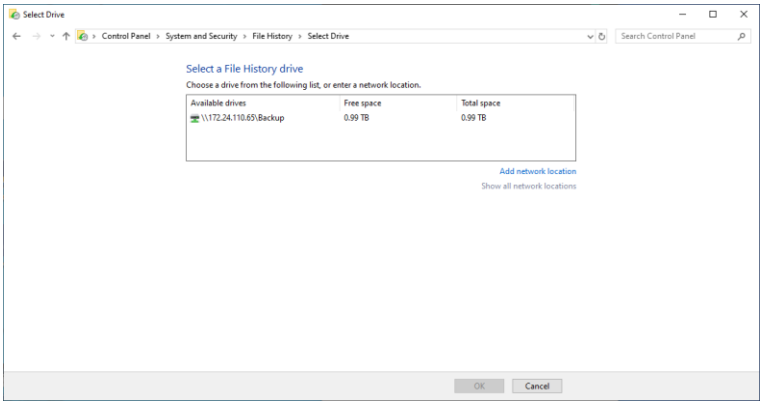
[5] We recommend starting with the disk number "Z:" to prevent conflicts with other storage devices (e.g. external USB storage).

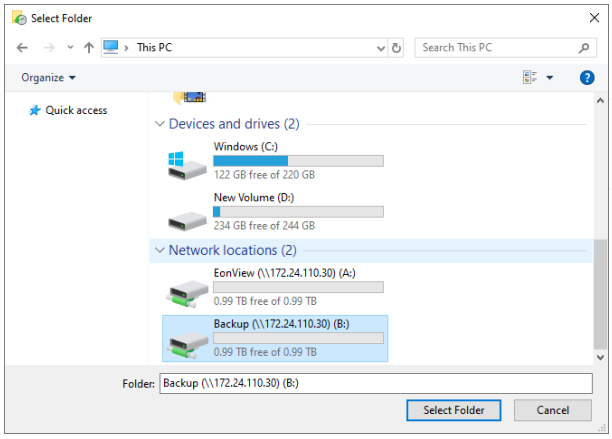
3.7 Backup

After mounting the shared folder to your PC/laptop, you can click on the head portrait on the right upper corner and click backup & restore. EonView will directly link to the OS native backup page for you to set up your backup plan. The following figures show Windows native backup for example.









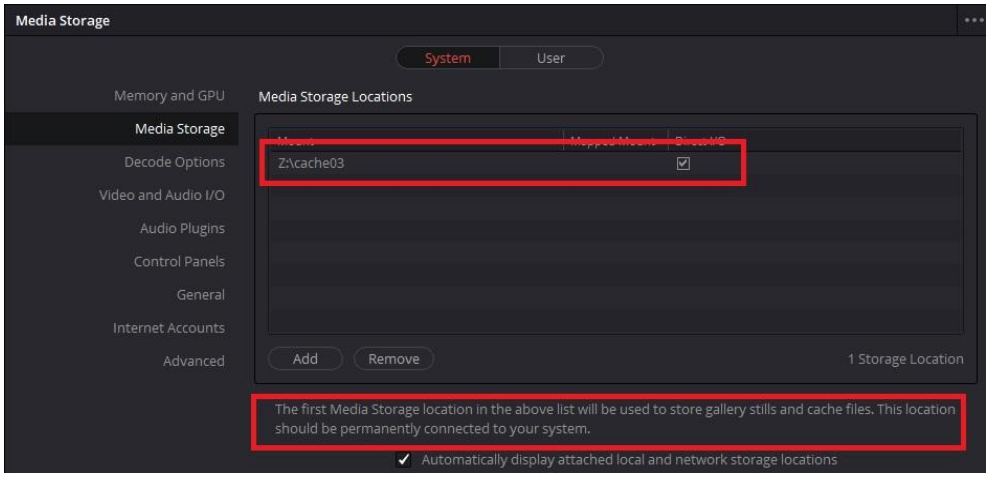
3.8 Integrate Infortrend Storage with DaVinci Resolve Studio

Return to your Infortrend storage. Create a subfolder in the mounted shared folder and place multimedia files in it. This subfolder is dedicated to storing multimedia files for collaborative editing.

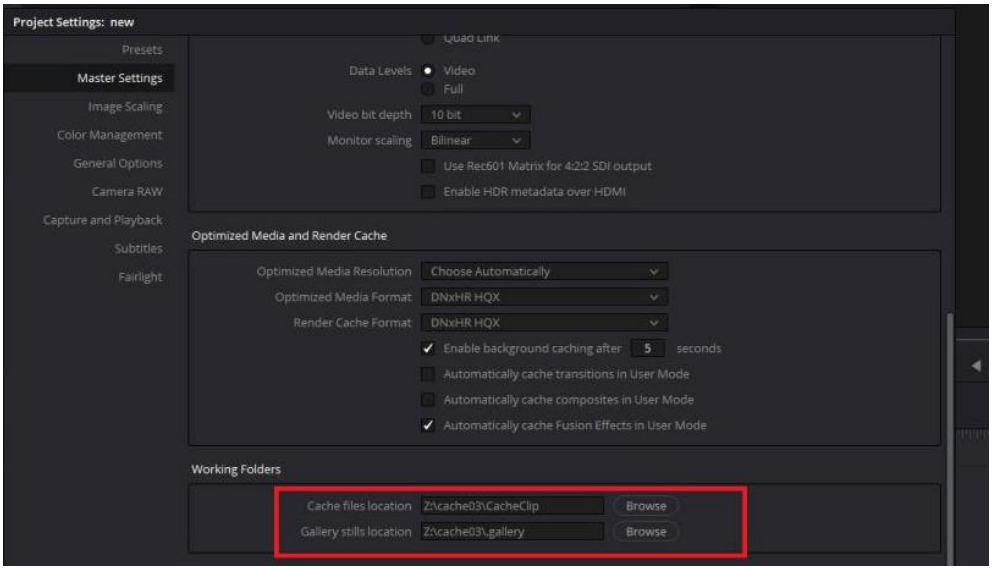
Then, in the mounted shared folder continue to create one subfolder for each editor. Each subfolder of this kind functions as a media storage location in the DaVinci Resolve architecture, and is dedicated to one unique editor for storing editor-specific metadata and cache during editing.

As a general rule, create ***n + 1*** subfolders in the mounted shared folder when ***n*** editors are involved in the project: one subfolder is for public access while the rest are reserved for each editor.

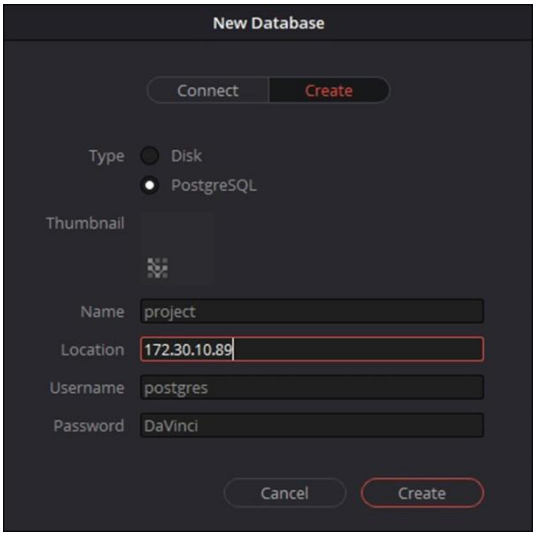
Next, open DaVinci Resolve Studio and go to **Preference > System > Media Storage**. Each editor must add the corresponding media storage location subfolder in the **Media Storage Locations** section by clicking **Add**, and select **Automatically display attached local and network storage locations** on the bottom for easy browsing.



In the project settings, go to **Master Settings > Working Folders**. Click **Browse** and specify the personal media storage location subfolder in the **Cache file location** field. Then, continue to specify the public access subfolder in the **Gallery stills location** field.



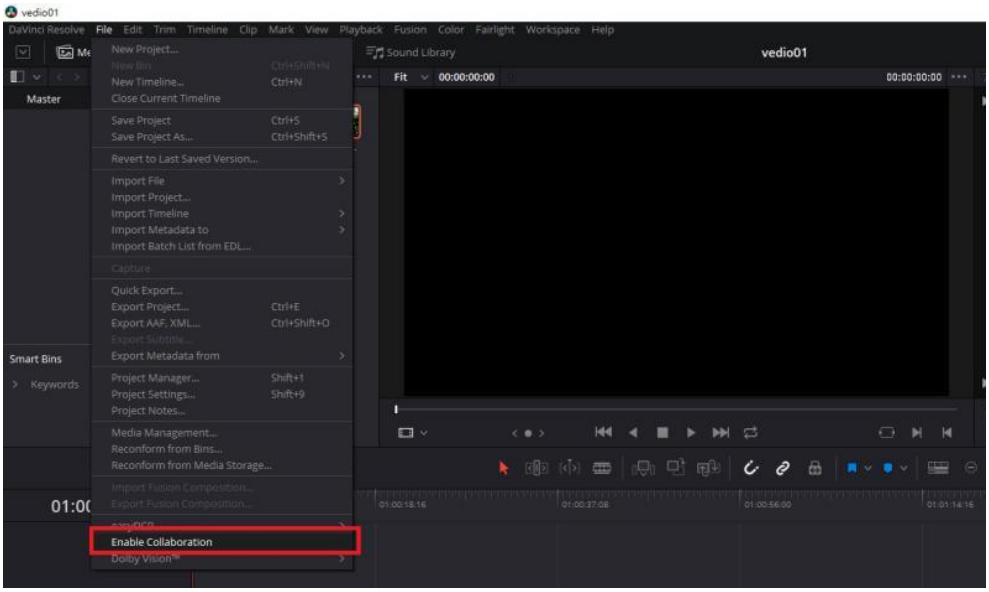
Next, run DaVinci Resolve Studio and create a new database. Click **New Database > Create** and select **PostgreSQL** as the database type. Specify the database name in the **Name** field and shared storage's IP address in the **Location** field. Click **Create** to create a project database.



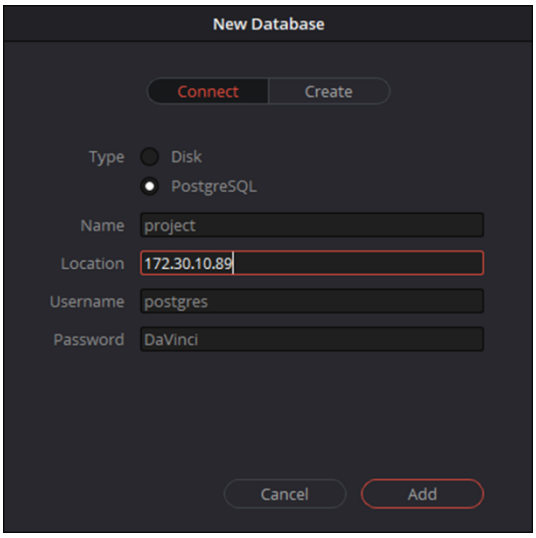
Next, go to File > New Timeline to create a timeline for the project.

Go to **File > Import file > Import media**. Browse to the public access subfolder and read the multimedia

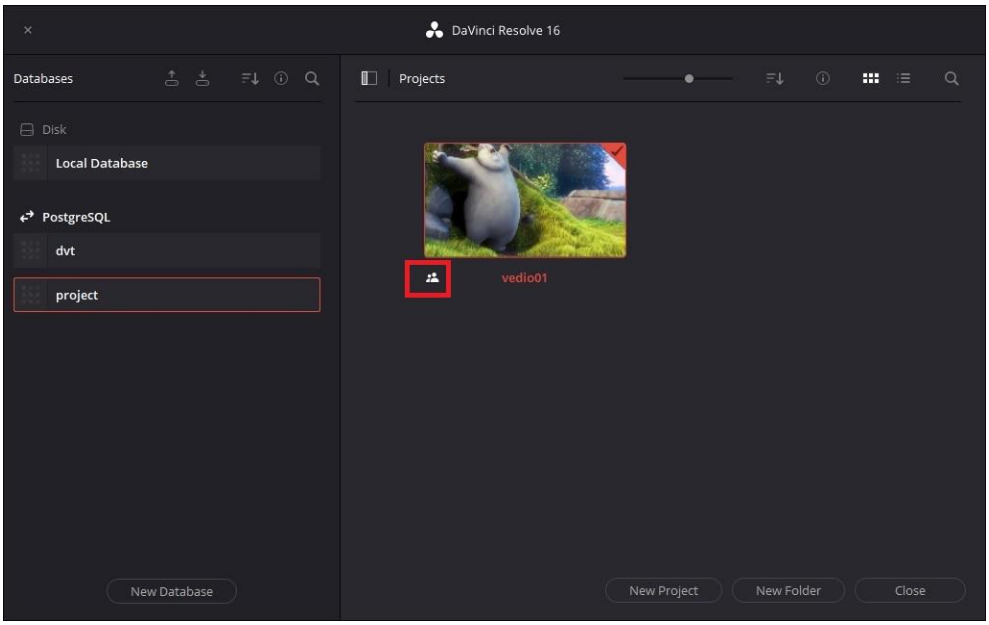
files for editing into DaVinci Resolve Studio. Then, go to **File > Enable Collaboration** to start editing.



Other multimedia editors simply run DaVinci Resolve Studio on their own workstations, go to **New Database > Connect**, and specify the type as **PostgreSQL** and the shared storage IP in the **Location** field. Then, click **Add** to connect to the project database.



After connecting to the project database, select a collaborative project with a collaboration icon from the project list to start collaboration.


DaVinci Resolve 16
Databases
Disk
Local Database
PostgreSQL
dvt
project
New Database
Projects
vedio01
New Project
New Folder
Close

4. Conclusion

With a built-in project server and the EonView desktop utility, Infortrend's multimedia shared storage solution is fully integrated with Blackmagic Design DaVinci Resolve Studio. This shared storage solution allows both the administrator and multimedia editors without IT background to quickly deploy and collaborate on their projects, without any hassles of connecting data storage to DaVinci Resolve.

Infortrend office shared storage also supports EonView desktop utility. With EonView desktop utility, users can easily mount shared folder to their PC. Users can also use the link in EonView to directly link to the OS native backup software page. Users can easily backup their data to the storage to prevent data loss.

5. Appendix

Default TCP/IP and UDP Port Settings

Your Infortrend storage provides the following services via the ports.

Service	Protocol	Port
AFP	TCP/IP	548
CIFS	TCP/IP	138, 445
	UDP	137,138
Finder Agent	TCP/IP	8097
	UDP	8097, 58740, 58741
FTP	TCP/IP	20, 21
FTP-SSL	TCP/IP	20, 21, 989, 990
HTTP	TCP/IP	80
HTTP	TCP/IP	8816 (Management port)
HTTPS	TCP/IP	8080, 8989 (File Explorer)
HTTPS	TCP/IP	8817 (Management port via SSL)
iSCSI	TCP/IP	860, 3260
NFS	TCP/IP	111, 2049, 4045
Rp_daemon	TCP	5100
Rsync_daemon	TCP/IP	873
Rsync ssh	TCP/IP	22

Rsync rsh	TCP/IP	514
SFTP	TCP/IP	22
SNMP trap	UDP	162 (default)
SNMP query	UDP	161 (default)

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