

SRX-R515P v1.00.0 Networking Functionality

Overview

The SRX-R515P with v1.00.0 software is now available but cannot be connected to the Sony TMS until the next version up. The SRX-R515P however is still capable of being controlled over the network and accessing DCP and KDMs from a central storage device. This allows the R515 to be installed at inaccessible locations, such as projection pods, but still able to be operated over the network. Below is a list of functions that are described in this document:

- Network overview of SRX-R515P
- Configuring SRX-R515P IP addresses
- Configuring Storage Server IP addresses
- Accessing the R515 GUI over the network
- Setting up a folder share for DCP/KDM ingest over the network
- Configuring R515 to access a folder share for DCP/KDM ingest
- Configuring R515 to access a FTP server for DCP/KDM ingest

Note. It is not recommended to perform ingesting operations or SPL editing during play-out when using SRX-R515P v1.00.0 software. This is expected to be improved in the next firmware version.

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Network Overview of SRX-R515P

When connecting the SRX-R515P to a network there are two required network connections to the XCT-S10 server, and one network connection between the XCT-S10 and the XCT-M10 (IMB).

XCT-S10 (Server) - Network Ports

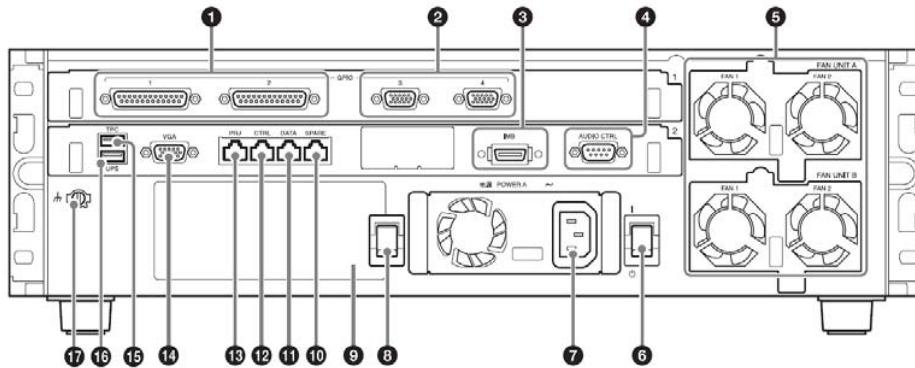


Figure 1 - XCT-S10 rear view

10 – SPARE Port – Available for future expansion

11 – DATA Port – Used for the transfer of DCPs via FTP or file share

12 – CTRL Port – Used for control data such as accessing the GUI or audio processor control.

13 – PRJ Port – Used for communication data between the Server and the IMB.

XCT-M10 (IMB) - Network Ports

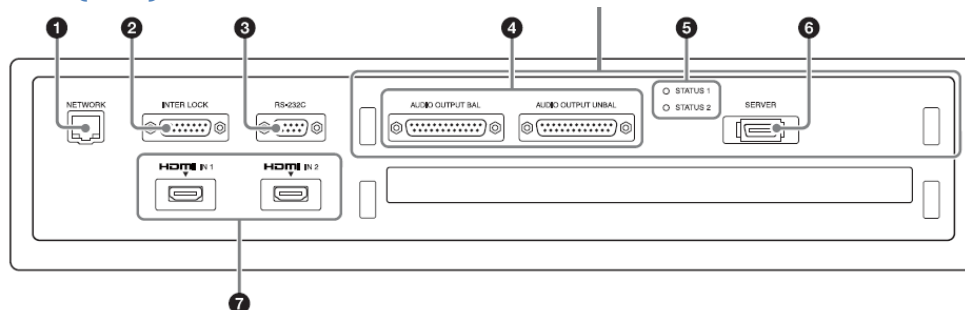


Figure 2 - XCT-M10 rear view

1 – NETWORK – Used for communication data between the Server and the IMB.

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Connecting R515 to a Windows storage device

The diagram below shows a typical example of a storage device connected to 2x SRX-R515P projectors.

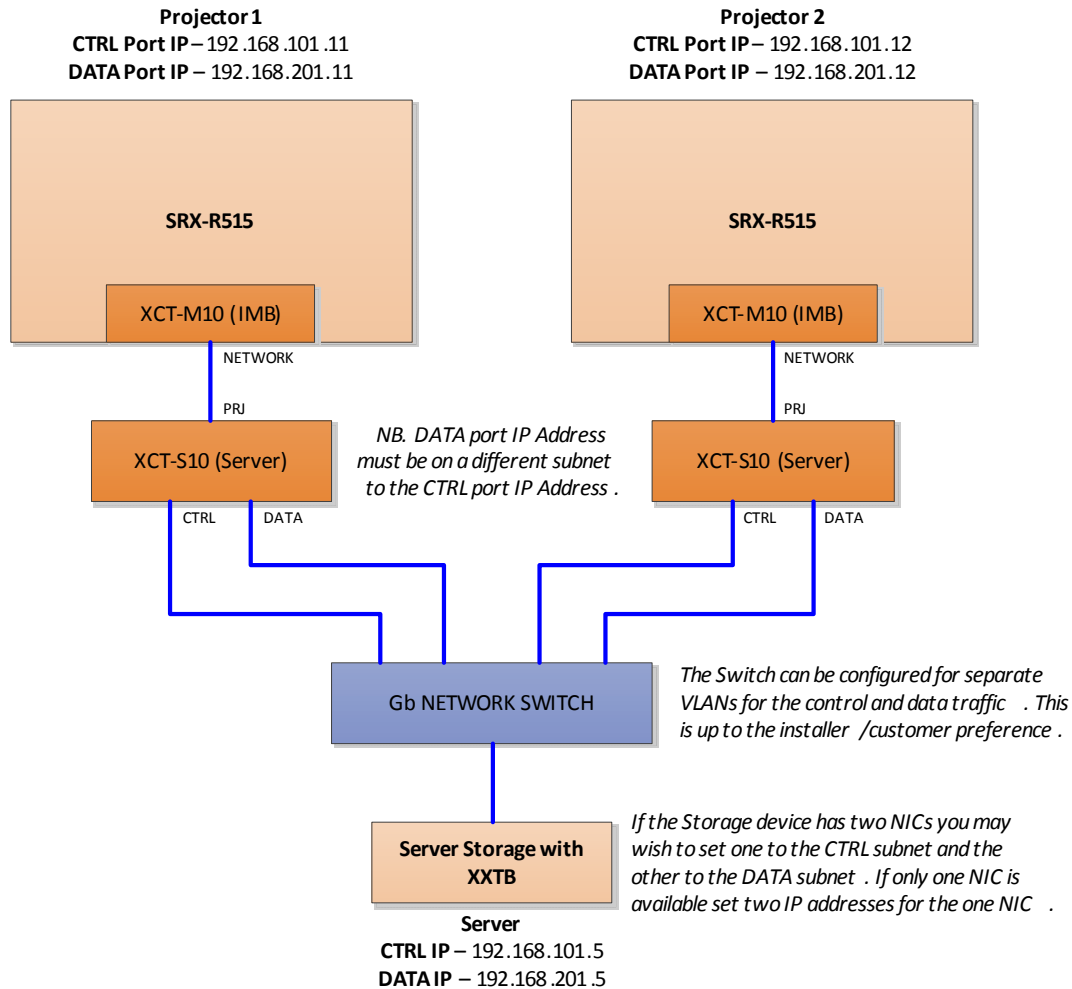


Figure 3 - Network Storage connection example

The XCT-S10 requires that the CTRL IP address and the DATA IP address are required to be on separate subnets. This can be used to separate CTRL and DATA traffic through the use of VLANs on a switch.

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Configuring SRX-R515P IP addresses

To configure the IP address of the SRX-R515P login to the GUI on the touchscreen. Go to Configuration > System > Network.

Select Manual IP Address. In the screen shot below the following details were used.

SMS Server Setting

IP Address – 192.168.101.111

Subnet Mask – 255.255.255.0

Default Gateway – 0.0.0.0

Data Port Setting

IP Address – 192.168.201.111

Subnet Mask – 255.255.255.0

Default Gateway – 0.0.0.0

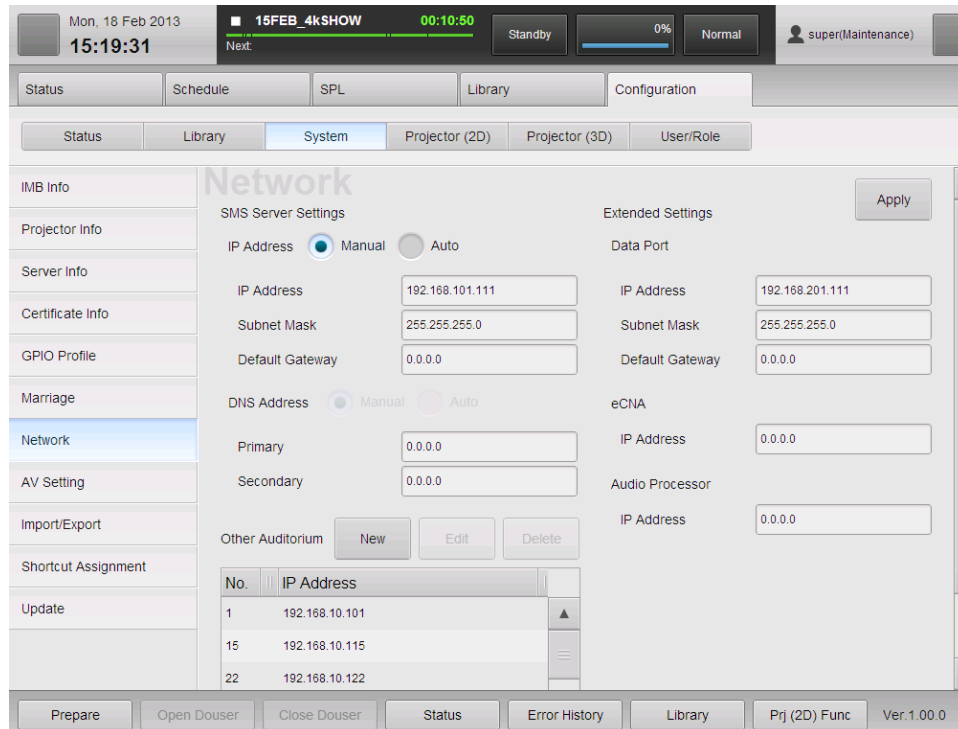


Figure 4 - IP Settings for SRX-R515P

Configuring Storage Server IP Addresses

The storage server or PC that you wish to connect to the R515 will require an IP address on the same subnet as the CTRL Port to access the GUI, and an IP address on the same subnet as the DATA port for the server to be seen as a DCP/KDM source.

This can be achieved in two ways either give separate IPs to two NICs on the server, or configure one NIC with two IP addresses. Below is the procedure to configure one NIC with two IP addresses on Windows Server 2008 R2.

Configuring two IP addresses on Windows Server 2008

Log on to the server/PC you wish to access the R515 from.

Go to Start Menu > Control Panel > Network and Sharing Centre > Network Adapters.

Right Click on the Network adapter and select Properties > Internet Protocol Version 4 properties.

The following screen will appear.

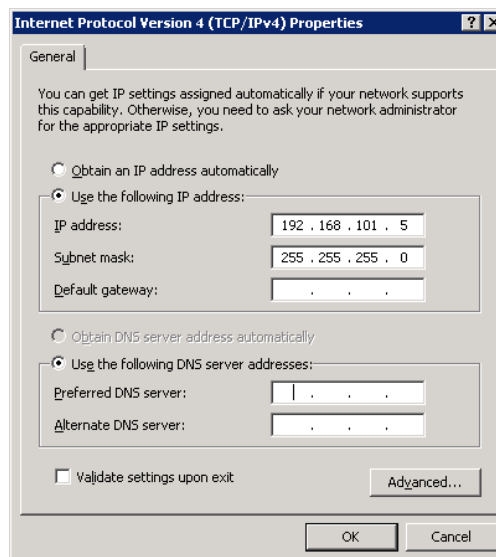


Figure 5 IP4 properties

Select 'Use the following IP Address' and enter an IP in the CTRL in Subnet range. Since the CTRL in IP is 192.168.101.111 this was chosen as 192.168.101.5.

To add a second IP address to the NIC click the 'Advanced' button, then click add to the IP address section. Since the DATA in IP is 192.168.201.111 this was chosen as 192.168.201.5.

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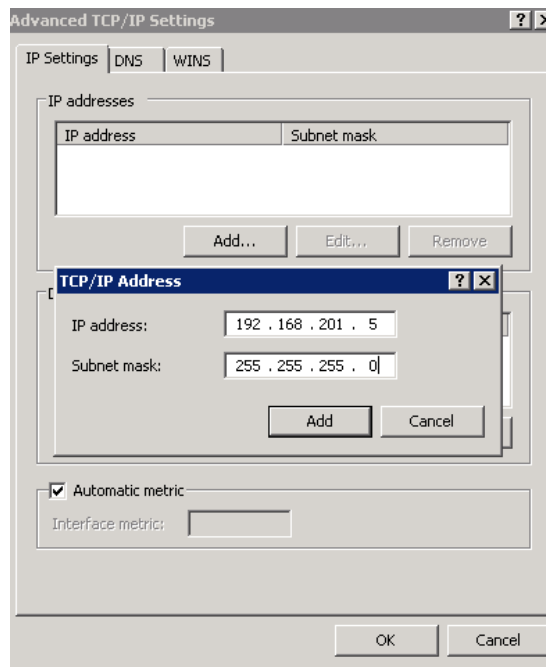


Figure 6 - Adding 2nd IP address to Server

Accessing SRX-R515P GUI over the network

Once the IP addresses are set on the projector and the server/PC you are ready to access the R515 GUI on the remote server/PC.

You are required to install the latest Chrome or Firefox v14 and above browser for this purpose, Internet Explorer does not work.

Enter the following address into the browser:

<https://xxx.xxx.xxx.xxx/EvansGUI/run.html>

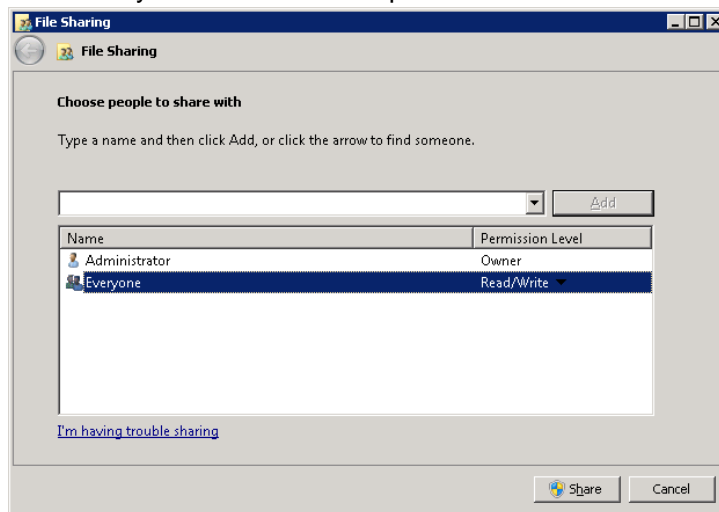
xxx.xxx.xxx.xxx = IP address of CTRL in port of projector

A certificate issue with the website may occur, press “proceed anyway” to continue to the GUI screen. Please see the SRX-R515P installation manual for more details on how to avoid this message.

Setting up a folder share for DCP/KDM ingest over the network

On the server/PC you wish to setup a folder for ingesting DCP and KDM content to the R515 follow the steps below.

- 1- Right click on the desktop and create a new folder.
- 2- Rename the folder 'library1'
- 3- Right Click on the folder and select 'share with' then 'specific people'
- 4- Enter everyone with read/write permissions.



- 5- Click share and note the share location. Substitute the Server/PC with the DATA IP address of the server.
 - a. E.g. [\\192.168.201.5\library1](https://192.168.201.5/library1)
- 6- This will give all users of the server/PC access to this share folder.
- 7- Copy DCPs into this folder which you wish to share with the SRX-R515P (make sure you copy them into separate folders).
- 8- Inside this Library1 folder if you create a folder named 'KDM' you can place KDMs in this folder which can be browsed to for KDM ingest.

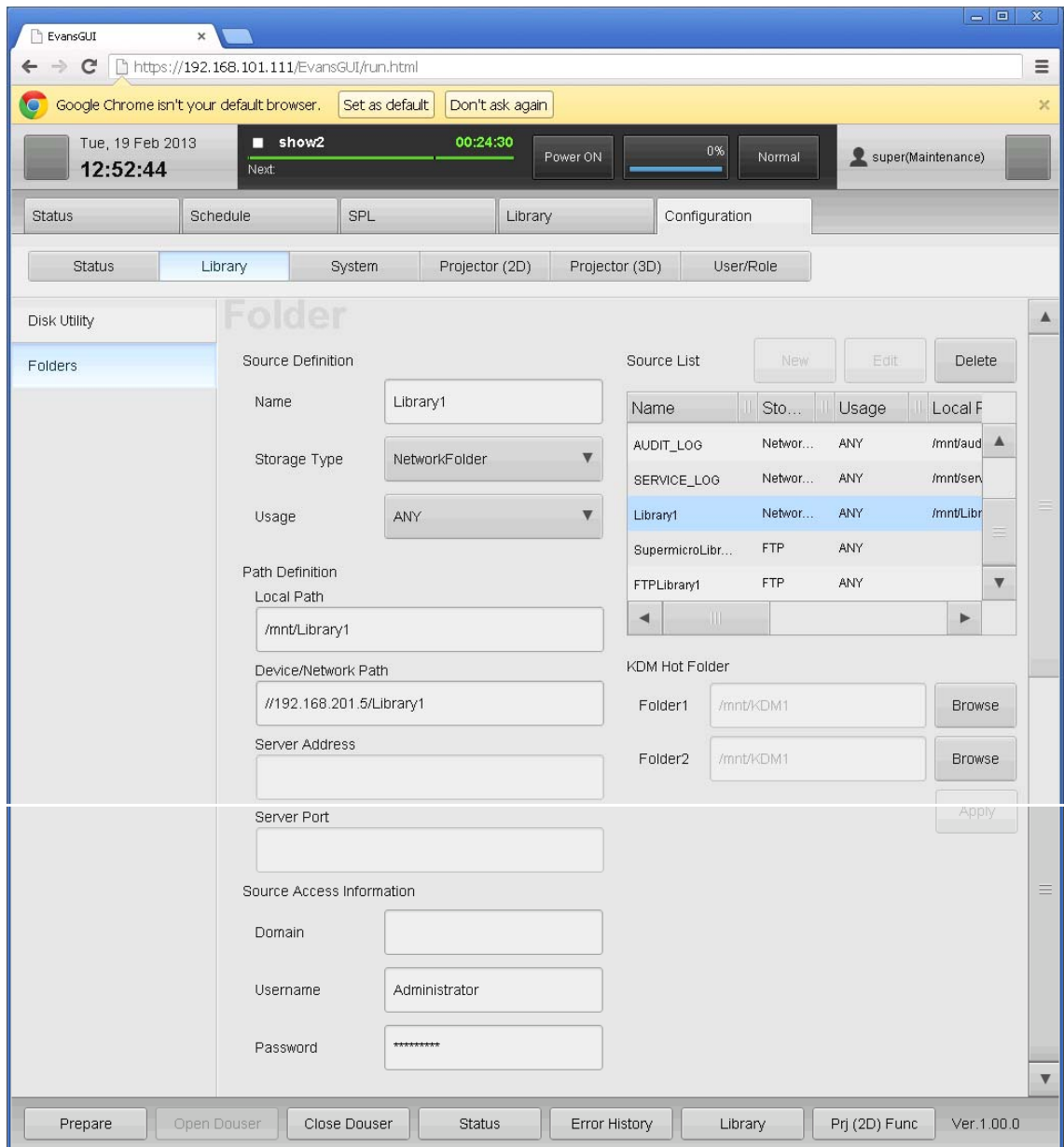
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Configuring R515 to access a folder share for DCP/KDM ingest

- 1- Login to the R515 GUI using the webpage address
- 2- Go to Configuration tab > Library tab > Folders tab



- 3- Enter the following information
 - a. Name – **Library1**
 - b. Storage Type – **Network Folder**

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- c. Usage – **ANY**
 - d. Local Path - /mnt/Library1
 - e. Device/Network Path - //192.168.201.5/Library1
 - i. Not these are forward slashes, and the IP is the DATA IP of Server/PC
 - f. Domain – **enter domain of Server/PC**
 - g. Username - **enter user of Server/PC**
 - h. Password - **enter password of Server/PC**
- 4- Click 'New' next to source list at the top left to apply settings
- 5- The source is now shown in the list

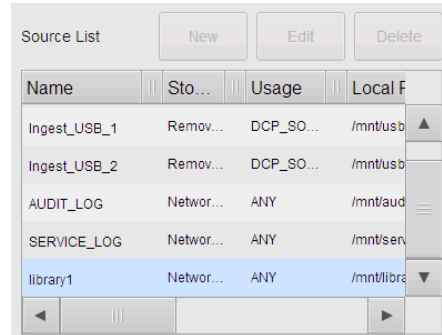


Figure 7 - Source List

- 6- Shutdown the SRX-R515P via the GUI (grey box at the top right) and turn off projector head breaker. Power on the projector head breaker and then the XCT-S10.

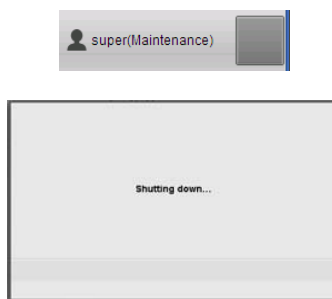


Figure 8 - Power off button

Be aware that the GUI will disconnect once it begins to shut down and will remain on this same screen when it is viewed remotely via a browser. It will not show you when the R515 has completed the shutdown. Typically a shutdown takes a few minutes.

- 7- Login and go to Library > External Folder list then click 'Open'. A list of DCPs will be shown. Select and open required DCP folder, then select DCP file and click Ingest.

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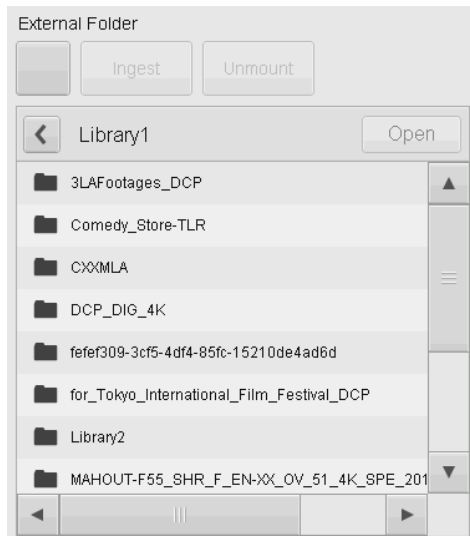


Figure 9 - External Folder DCP List via Network Share

A typical network share ingest speed is around 40-50MB/s which will result in a typical 2hour feature to be ingested in around 1 hour.

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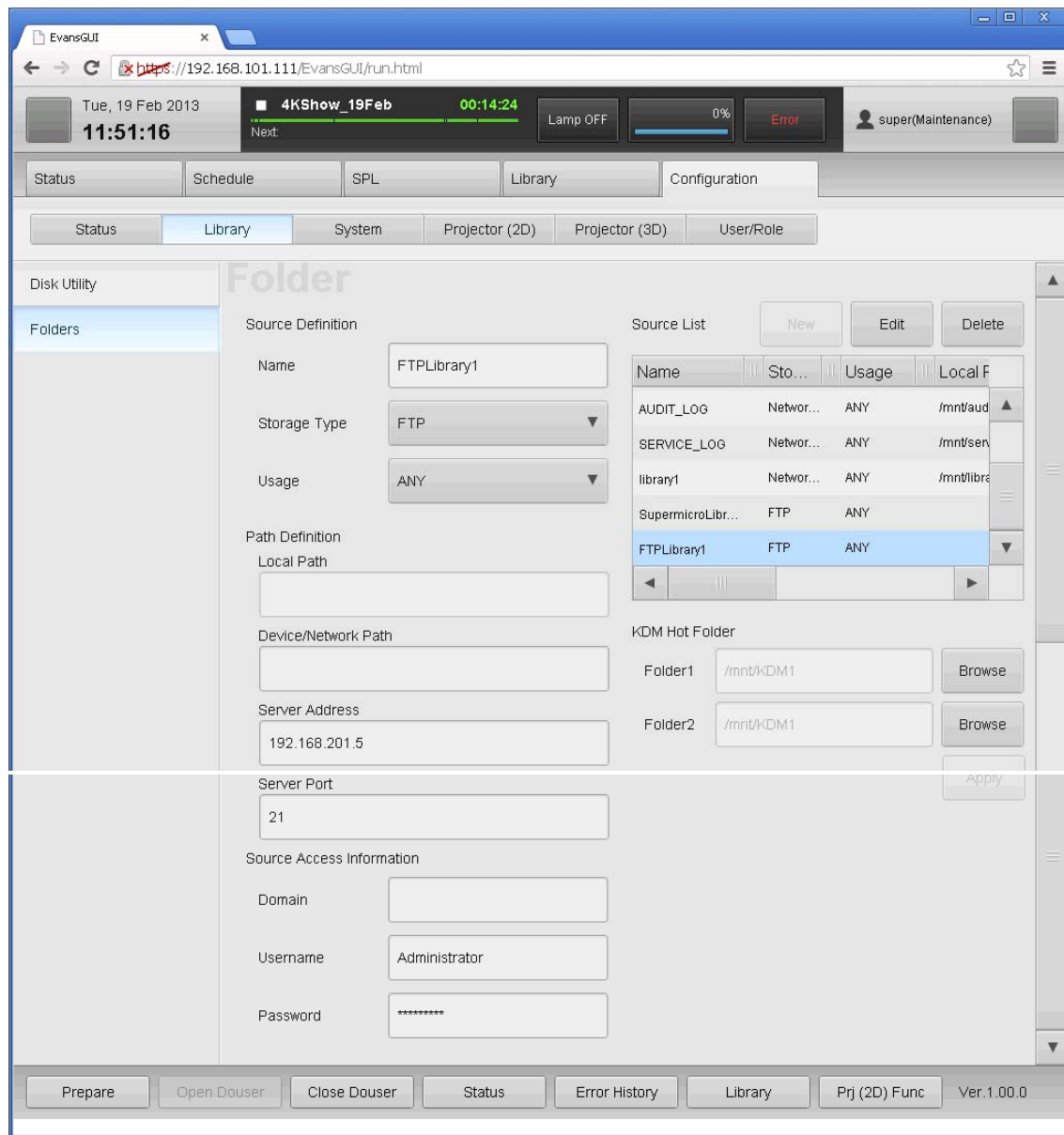
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Configuring R515 to access a FTP server for DCP/KDM ingest

The procedure below assumes that a FTP server is setup on the server/PC with a user account that has the library as the FTP root folder.

- 1- Login to the R515 GUI using the webpage address
- 2- Go to Configuration tab > Library tab > Folders tab



- 8- Enter the following information

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Login and navigate to **Dealers/Digital Cinema Bulletins** folder

- a. Name – **FTPLibrary1**
 - b. Storage Type – **FTP**
 - c. Usage – **ANY**
 - d. Server Address – **192.168.201.5 (Server/PC Data IP)**
 - e. Server Port - **21**
 - f. Domain – **enter domain of Server/PC**
 - g. Username - **enter user of Server/PC**
 - h. Password - **enter password of Server/PC**
- 9- Click 'New' next to source list at the top left to apply settings
10- The source is now shown in the list

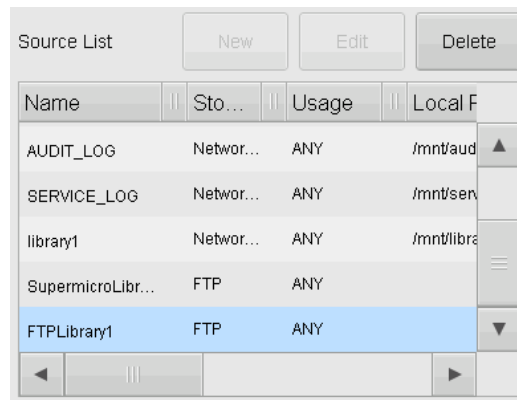


Figure 10 - Source List

- 11- Shutdown the SRX-R515P via the GUI (grey box at the top right) and turn off projector head breaker. Power on the projector head breaker and then the XCT-S10.

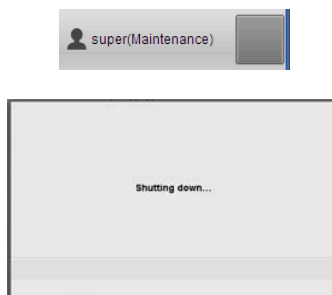


Figure 11 - Power off button

Be aware that the GUI will disconnect once it begins to shut down and will remain on this same screen when it is viewed remotely via a browser. It will not show you when the R515 has completed the shutdown. Typically a shutdown takes a few minutes.

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12- Login and go to Library > External Folder list then click 'Open'. A list of DCPs will be shown. Select and open required DCP folder, then select DCP file and click Ingest.

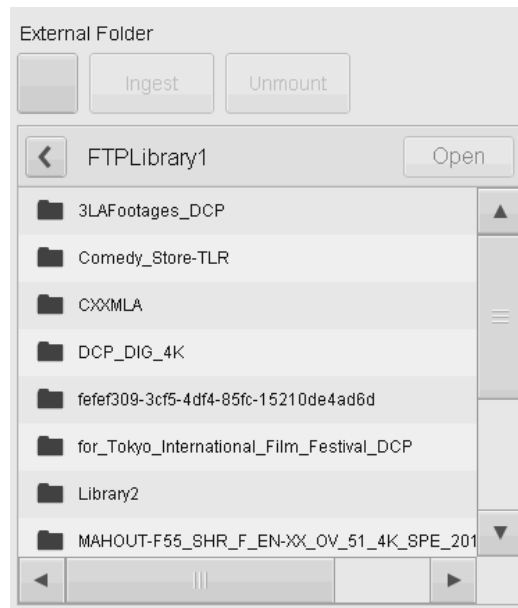


Figure 12 - External Folder DCP List via FTP

A typical network share ingest speed is around 100MB/s which will result in a typical 2hour feature to be ingested in around 30 minutes.

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Login and navigate to **Dealers/Digital Cinema Bulletins** folder