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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.







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.





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 – 0.0.00

Data Port Setting

IP Address – 192.168.201.111 Subnet Mask – 255.255.255.0 Default Gateway – 0.0.00

| Mon, 18 Feb 20 15:19:31 | 013 | EB_4kSHOW | 00:10:50 | Standby | 0% Normal | super(Maintenance) |
|----------------------------|-----------------------------|----------------------------|-----------------|--------------|--------------------------------|--------------------------|
| Status | Schedule | SPL | Libra | у | Configuration | |
| Status | Library | System | Projector (2D) | Projector (3 | D) User/Role |] |
| IMB Info | | | | | | Apply |
| Projector Info | SMS Serve | er Settings ss 💿 Manual | Auto | | Extended Settings Data Port | |
| Server Info | IP Addr | ess | 192.168.101.111 | | IP Address | 192.168.201.111 |
| Certificate Info | ertificate Info Subnet Mask | | 255.255.255.0 | | Subnet Mask | 255.255.255.0 |
| GPIO Profile | Default | Gateway | 0.0.0.0 | | Default Gateway | 0.0.0.0 |
| Marriage | DNS Add | lress 💿 Man | | | eCNA | |
| Network | Primary | | 0.0.0.0 | | IP Address | 0.0.0.0 |
| AV Setting | Secondary | | 0.0.0.0 | | Audio Processor | |
| Import/Export | Other Aud | litorium New | | | IP Address | 0.0.0.0 |
| Shortcut Assignment | No. | IP Address | | | | |
| Update | 1 | 192.168.10.101 | | | | |
| | 15 | 192.168.10.115 | | | | , |
| Prepare | Dpen Douser | Close Douser | Status | Error Histor | y Library | Prj (2D) Func Ver.1.00.0 |

Figure 4 - IP Settings for SRX-R515P

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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.

| Internet Protocol Version 4 (TCP/IPv | 4) Properties | ? × |
|---|--|-----|
| General | | |
| You can get IP settings assigned autor this capability. Otherwise, you need to for the appropriate IP settings. | natically if your network supports ask your network administrator | ; |
| O Obtain an IP address automatical | ly . | |
| Use the following IP address: | | - 1 |
| IP address: | 192.168.101.5 | |
| Sybnet mask: | 255 . 255 . 255 . 0 | |
| Default gateway: | | |
| C Obtain DNS server address autor | natically | _ |
| • Use the following DNS server add | resses: | - |
| Preferred DNS server: | · · · · | |
| Alternate DNS server: | | |
| Validate settings upon exit | Ad <u>v</u> anced | |
| | OK Canc | el |

Figure 5 IP4 properties

Select 'Use the following IP Address' and enter an IP in the CTRL in Subnet range. Since the CRTL 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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| Advanced TCP/IP Settings | X |
|--|---|
| IP Settings DNS WINS | |
| IP addresses | 1 |
| IP address Subnet mask | |
| Add Edit Remove | |
| TCP/IP Address | |
| IP address: 192.168.201.5 Subnet mask: 255.255.255.0 | |
| Add Cancel | |
| Automatic metric | |
| OK Cancel | |

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/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.

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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.

| og File | : Sharing | | |
|------------|---|----------------------|-------|
| \bigcirc | 3 File Sharing | | |
| | Choose people to share with | | |
| | Type a name and then click Add, or click the arrow to find someone | | |
| | | | |
| | <u></u> | ▼ <u>A</u> dd | |
| | Name | Permission Level | |
| | 💈 Administrator | Owner | |
| | A Everyone | Read/Write 💌 | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| |) I'm having trouble sharing | | |
| | The new group country and the second s | | |
| | | | |
| | | 😗 S <u>h</u> are 🛛 🔾 | ancel |

- 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
- 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

| Google Chrome i | sn't your default browser. | Set as default Dor | n't ask again | | | _ | | |
|-----------------|----------------------------|--------------------|-------------------|-------------|-----------|---------|----------------------|---|
| Tue, 19 Feb | 2013 Show2 | 2 00 | 24:30 Power ON | | 0% Normal | 2 super | (Maintenance) | |
| Status | Schedule | SPL | Library | Config | guration | | | |
| Status | Library | System Proje | ctor (2D) Project | or (3D) | User/Role | | | |
| isk Utility | | | | | | | | |
| olders | Source Defi | nition | | Source List | | | Delet | е |
| | Name | Library1 | | Name | II Sto | Usage | Local F | |
| | Storage T | ype NetworkFold | er 🔻 | AUDIT_LOG | Networ | ANY | /mnt/aud (mnt/sen | • |
| | Usage | ANY | v | Library1 | Networ | ANY | /mnt/Libr | |
| | Doth Dofiniti | | | SupermicroL | .ibr FTP | ANY | | Ξ |
| | Local Path | 1 | | FTPLibrary1 | FTP | ANY | | • |
| | /mnt/Libr | ary1 | | | | | | |
| | Device/Ne | twork Path | | KDM Hot Fo | lder | | | |
| | //192.16 | 8.201.5/Library1 | | Folder1 | /mnt/KDM1 | | Brows | e |
| | Server Ad | dress | | Folder2 | /mnt/KDM1 | | Brows | e |
| | Server Po | rt | | | | | | |
| | | | | | | | | |
| | Source Acce | ess Information | | | | | | |
| | Domain | | | | | | | |
| | Username | Administrato | r | | | | | |
| | Password | ****** | | | | | | |
| | | | | | | | | |

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

DCinema Bulletin Archive:

https://filex.sony-europe.com/

Login and navigate to Dealers/Digital Cinema Bulletins 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

| Source List | | New | | Edit | | | | |
|--------------|-----------|--------|--------|--------|-----|--------------|------------|--|
| Name | | Sto | | Usage | | Local F | | |
| Ingest_USB_1 | | Remov | | DCP_SO | | /mnt/usb | | |
| Ingest_USB_2 | | Remov | | DCP_SO | | /mnt/usb | | |
| AUDIT_LOG | AUDIT_LOG | | Networ | | ANY | | /mnt/aud = | |
| SERVICE_LOG | | Networ | | ANY | | /mnt/serv | | |
| library1 | | Networ | | ANY | | /mnt/libra 🔻 | | |
| ◀ | | | | | | | | |

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.

DCinema Bulletin Archive:

https://filex.sony-europe.com/ Login and navigate to Dealers/Digital Cinema Bulletins folder

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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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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

| Tue, 19 Feb 2 11:51:16 | D13 • 4KShow_ Next | _19Feb 00:14:24 | Lamp OFF | | 0% Error | L super(M | laintenance) |
|---------------------------|-----------------------|---------------------|-----------|-------------|------------|-----------|--------------|
| Status | Schedule | SPL | brary | Config | juration | | |
| Status | Library S | ystem Projector (21 | D) Projec | tor (3D) | User/Role | | |
| isk Utility | | | | | | | |
| olders | Source Definition | on | | Source List | | Edit | Delete |
| | Name | FTPLibrary1 | | Name | Sto | Usage | Local F |
| | Storage Type | FTP | | AUDIT_LOG | Networ | . ANY | /mnt/aud 🔺 |
| | | | | SERVICE_L | OG Networ. | ANY | /mnt/sen |
| | Usage | ANY | • | Supermicrol | .ibr FTP | ANY | |
| | Path Definition | | | FTPLibrary1 | FTP | ANY | v |
| | Ebball attr | | | • | -111 | | • |
| | Device/Netwo | ork Path | | KDM Hot Fo | lder | | |
| | | | | Folder1 | /mnt/KDM1 | | Browse |
| | Server Addre | 55 | | Folder2 | /mnt/KDM1 | | Browse |
| | 192.168.20 | 1.5 | | | | | Anniv |
| | 21 | | | | | | |
| | Source Access | Information | | | | | |
| | Domain | | | | | | |
| | | | | | | | |
| | Username | Administrator | | | | | |
| | Password | ******* | | | | | |

8- Enter the following information

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- 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.

| super(Maintenance) | |
|--------------------|--|
| Shutting down | |

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.