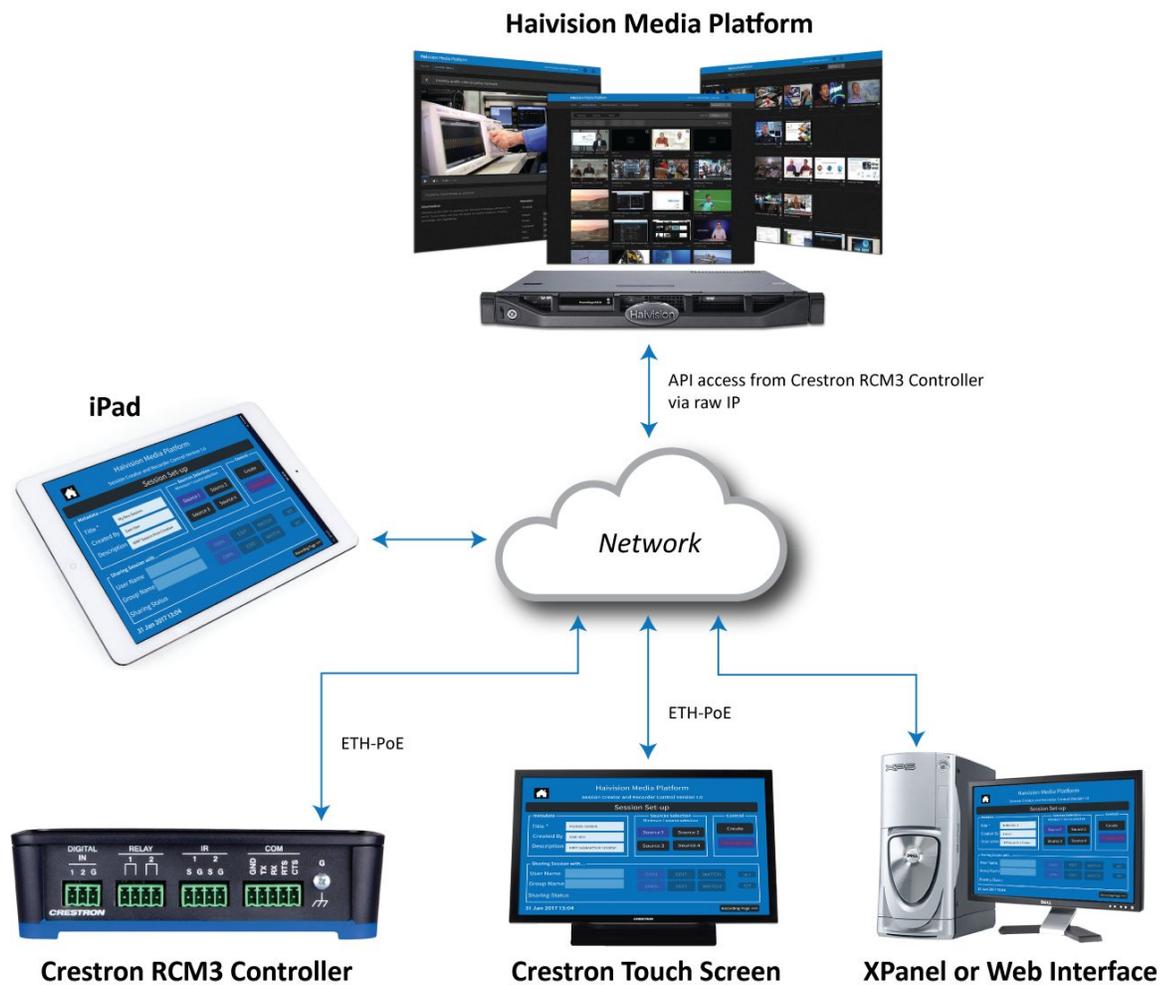


Crestron Integration: Haivision Media Platform

Haivision is a member of Crestron’s Integrated Partner program, which enables the world’s leading products to run seamlessly in a Crestron systems environment. A number of free modules available from the Crestron Application Market make it simple to integrate Haivision products into Crestron system designs. This document provides an overview of one such module — the Haivision Media Platform driver.



Devices in the illustration above are not shown to scale.

The driver module enables remote control of a Haivision Media Platform (HMP) server — formerly known as HVP (Calypso) — over a TCP/IP network. The driver enables Crestron developers to build an interface for controlling the HMP from any Crestron device, as well as via PCs and mobile devices using Crestron’s Xpanel app. Commands are sent via TCP/IP over the network to a Crestron Controller, which in turn executes the commands on the HMP server, and returns feedback to the Xpanel interfaces.

HMP Controls

The Crestron driver emulates the following controls:

- Create/activate/end sessions with up to four sources
- Record all or parts of an active session
- Add hotmarks to a recording on-the-fly
- Apply basic metadata to sessions and recordings
- Assign Owner, Editing and Watch privileges to LDAP users and groups

NOTE: Not all HMP API commands are supported by the driver.



HMP Driver interface on a Crestron TSD-2020 Touch Screen Control Display

About the Sample Control Panel

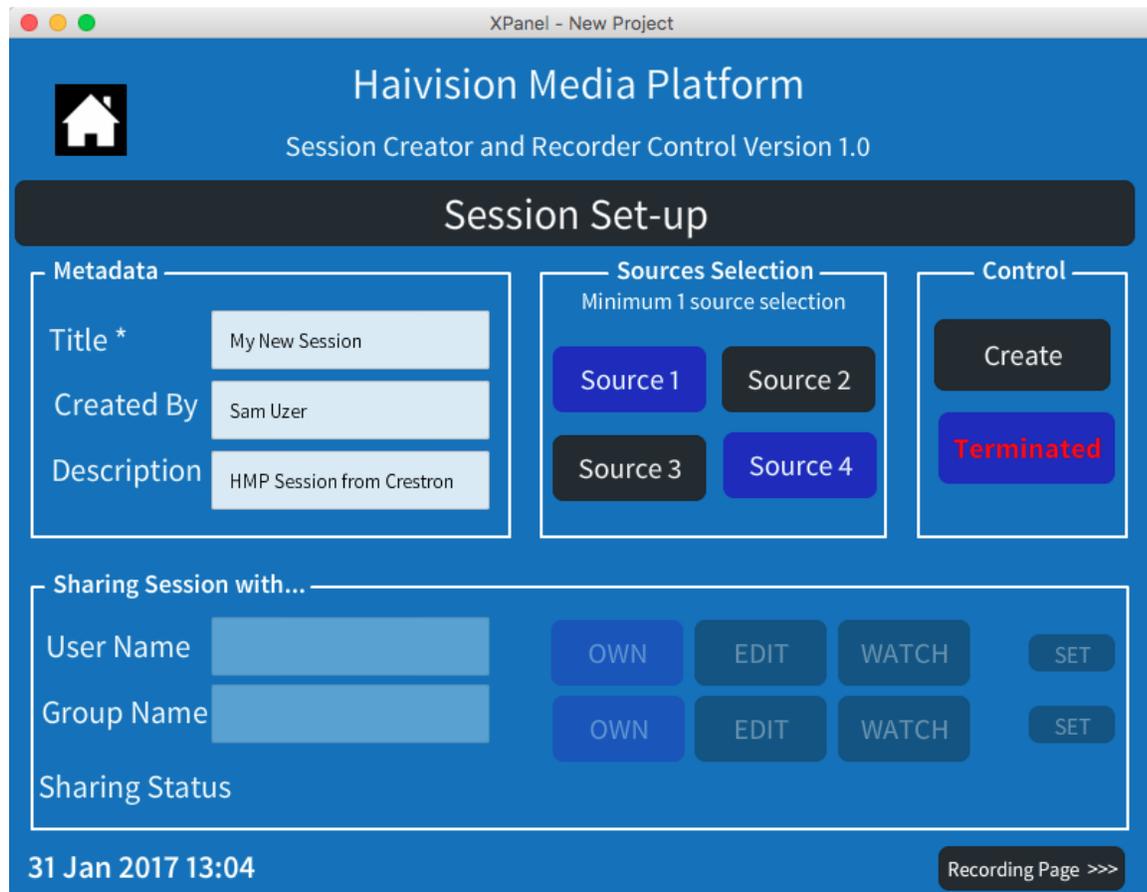
A sample control panel (Xpanel project) is provided with the driver. This sample can be used as is or modified to meet specific needs. The panel uses the HMP's public API to translate user input to actionable commands.



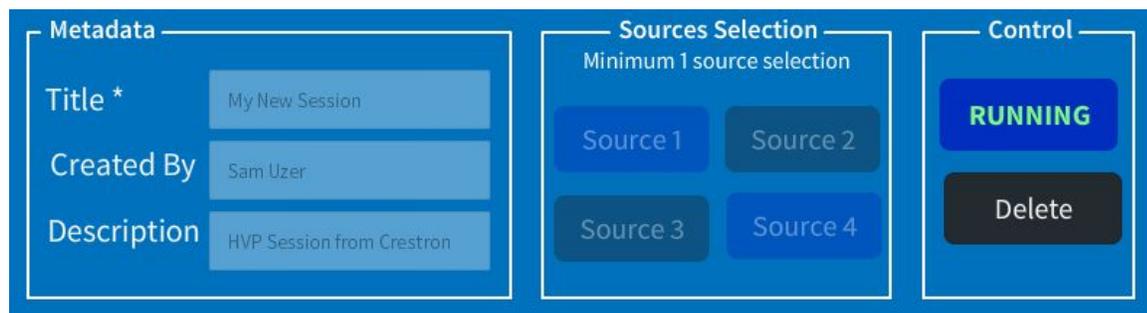
NOTE: No commands will be processed until the IP address of the Crestron controller is manually entered in the Calypso Web interface (**Administration > API Access**). The **Command Line API** must be set to ON.

Creating Sessions

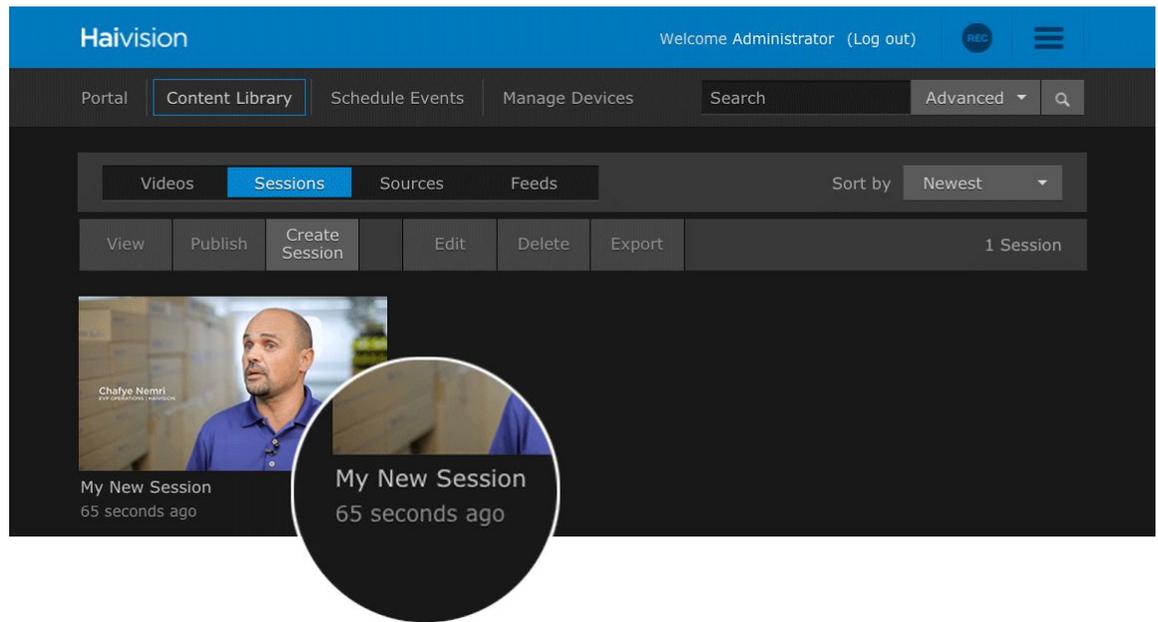
On the **Session Set-up** page, enter a title, creator and description in the **Metadata** section, then select one or more sources. Click **Create**:



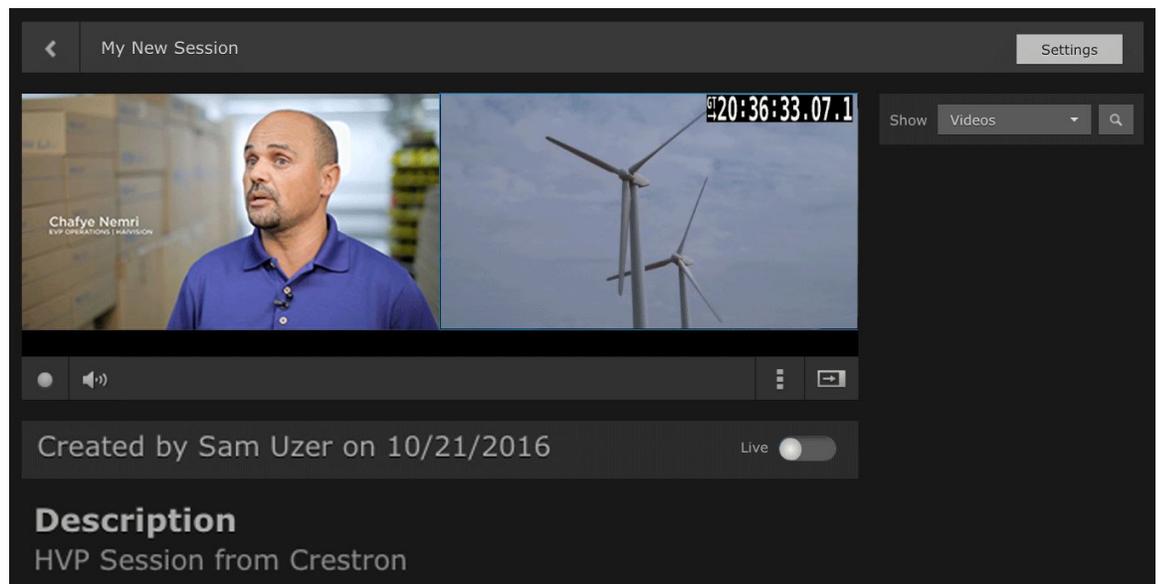
The status of the new session changes to **Running**:



Switching to the Web interface of the HMP server, you'll see the new session has been created:



In the detail view of the new session, you can see the *sources* you selected and the *metadata* you applied:



Creating Recordings

Click on the **Recording Page** button in Xpanel (bottom right). In the **Recording Control** panel, the metadata from the **Session Control** page is carried over. You can keep or modify this text. Press **Start** to begin recording (the **Recording Status** changes to “RECORDING”).

Haivision Media Platform
Session Creator and Recorder Control Version 1.0

Recording Control

Metadata

Title *

Created By

Description

Control and Status

Started

Recording Hotmarks Recording Status **RECORDING**

Sharing Recording with...

User Name

Group Name

Sharing Status

31 Jan 2017 13:08

At any point during the recording, enter text in the **Recording HotMarks** field and click **SET** to add a *HotMark*. You can add as many *HotMarks* as you wish.

Haivision Media Platform
Session Creator and Recorder Control Version 1.0

Recording Control

Metadata

Title *

Created By

Description

Control and Status

Started

Recording Hotmarks Recording Status **RECORDING**

Sharing Recording with...

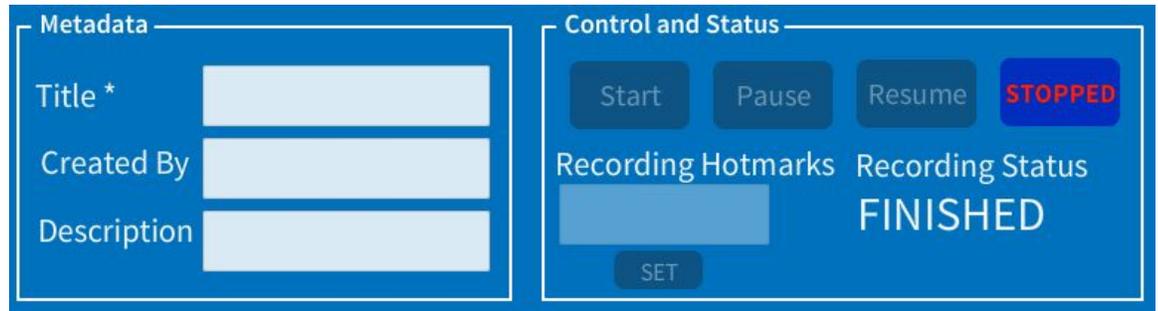
User Name

Group Name

Sharing Status

31 Jan 2017 13:08

Click **STOP** to end the recording (the **Recording Status** changes to “FINISHED”).



Switching to the Web interface of the HMP server, you'll see the recording has been created, with associated metadata and *HotMarks*.



Monitoring

The Crestron driver monitors the connection with HMP. If the connection is broken, a message will be displayed:



Sharing

Sessions and recordings can be shared with authorized HMP users, with one of three permission levels:

- **OWN** — gives the user the ability to modify or delete the session or recording
- **EDIT** — gives the user the ability to modify the session or recording
- **WATCH** — gives the user the ability to view the session or recording

NOTE: There is no authentication between the Crestron controller and the HMP server. The Crestron controller can only send sharing commands for assets created using the driver.

To share a session with a specific user, type their **User Name**, click the permission level, then click **SET**.

NOTE: The HMP API does not provide a list of users and groups. The spelling of user / group names must match those on the HMP. Groups can only be used if NDAP is activated (NDAP is a feature of HMP).

A message appears to confirming the success or failure of the operation.



The screenshot shows a blue dialog box titled "Sharing Session with...". It contains two input fields: "User Name" with the value "Administrator" and "Group Name" which is empty. To the right of each field are three buttons: "OWN", "EDIT", and "WATCH". The "WATCH" button for the user is highlighted in blue. To the right of these buttons is a "SET" button. Below the input fields, the "Sharing Status" is displayed as "Successfully applied WATCH to Administrator".

To share a session with a specific group, type the **Group Name**, click the permission level, then click **SET**. A message appears to confirming the success or failure of the operation.



The screenshot shows a blue dialog box titled "Sharing Session with...". It contains two input fields: "User Name" which is empty and "Group Name" with the value "Administrators". To the right of each field are three buttons: "OWN", "EDIT", and "WATCH". The "EDIT" button for the group is highlighted in blue. To the right of these buttons is a "SET" button. Below the input fields, the "Sharing Status" is displayed as "Successfully applied EDIT to Administrators".

For more information, please refer to the HMP documentation available from the Haivision Download Center (<http://www.haivision.com/download-center>).

References

Haivision

Haivision Media Platform Documentation Package

<http://www.haivision.com/download-center/resources?title=haivision+media+platform>

Haivision Media Platform Data Sheet

http://www3.haivision.com/haivision_media_platform_datasheet

Crestron Application Market

Haivision Media Platform Driver

<http://applicationmarket.crestron.com/>

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