# **IP Protocol for Fusion Movie Servers**

April 2012

Fusion Movie Servers are designed to be controlled by automation vendors through IP in addition to IR control. This document is intended to give an overview of the command set for developing one or two-way control of our servers.

All Fusion Movie Servers ship with an web interface which also contains all the following documents including the appropriate links, which can provide the appropriate feedback to confirm programming.

To retrieve metadata or control system components, make HTTP requests to the server's TCP port (generally 5151). For example if the server had a static IP of <a href="http://192.168.1.50">http://192.168.1.50</a> you would make all requests to: <a href="http://192.168.1.50">http://192.168.1.50</a>:5151

Transactions have the following characteristics:

- Requests are HTTP GET Requests
- Responses are HTTP Responses
- Responses may contain no user data, plain text data or XML. This is request dependent.
- XML responses may be partial. (i.e. A partial list of results, where additional requests are required to retrieve more data)

# Media Server (Akemi)

# Home | Config

### API Help

URL	Operation
/ams/akemi/api/version	Returns the 'version' of the component
/ams/akemi/api/help	Return this 'help' page
/ams/akemi/api/media/	Address the command to the server for metadata retrieval
/ams/akemi/api/player/[swSerialNo]/	Address the command to a player specified by the software serial number

## **Server Metadata**

URL	Operation
/ams/akemi/api/media/video/genre/count	Return the number of genres available in the system
/ams/akemi/api/media/video/category/count	Return the number of categories available in the system
/ams/akemi/api/media/video/participant/count	Return the number of participants available in the system
/ams/akemi/api/media/video/series/count	Return the number of series available in the system
/ams/akemi/api/media/video/medium/count	Return the number of mediums available in the system
/ams/akemi/api/media/video/program/count	Return the number of programs available in the system
URL	Operation
/ams/akemi/api/media/video/ genre/list/[start]/[count]/[rating]	Return a list of genres [start] = zero based index of list entry [count] = maximum number of entries to return [rating] = filter to limit list <u>Example</u>

/ams/akemi/api/media/video/ category/list/[start]/[count]/[rating]	[start [coun	Irn a list of categories  ] = zero based index of list entry  It] = maximum number of entries to return  g] = filter to limit list  ple
/ams/akemi/api/media/video/ participant/list/[start]/[count]/[rating]/[kind]	[start [coun [ratin	rn a list of participants  ] = zero based index of list entry  it] = maximum number of entries to return  g] = filter to limit list    = the type of participant (i.e. Actor, Director)  ple
/ams/akemi/api/media/video/ series/list/[start]/[count]/[rating]/[kind] ?Genre=[genre]&Category=[category] &Participant=[participant]&ParticipantKind=[kind]	[start [coun [ratin [genre [categ [parti	rn a list of series  ] = zero based index of list entry  at] = maximum number of entries to return  g] = filter to limit list  e] = filter to limit list by genre  gory] = filter to limit list by category  cipant] = filter to limit list by participant  cipantkind] = filter to limit participant to a
/ams/akemi/api/media/video/ medium/list/[start]/[count]/[rating]/[kind] ?Genre=[genre]&Category=[category] &Participant=[participant]&ParticipantKind=[kind]	[start [coun [ratin [genre [categ [parti	Irn a list of mediums  ] = zero based index of list entry  It] = maximum number of entries to return  g] = filter to limit list  e] = filter to limit list by genre  gory] = filter to limit list by category  cipant] = filter to limit list by participant  cipantkind] = filter to limit participant to a
/ams/akemi/api/media/video/ program/list/[start]/[count]/[rating]/[kind] ?Series=[guid]&Genre=[genre]&Category=[category] &Participant=[participant]&ParticipantKind=[kind]  [rating] = filter to limit list [series] = filter to limit list by a series [genre] = filter to limit list by category [category] = filter to limit list by category [participant] = filter to limit list by participant		] = zero based index of list entry  It] = maximum number of entries to return  g] = filter to limit list  Its] = filter to limit list by a series  e] = filter to limit list by genre  gory] = filter to limit list by category  cipant] = filter to limit list by participant  cipantkind] = filter to limit participant to a
URL		Operation
/ams/akemi/api/media/video/series/get/[guid]		Return the details of the series specified by [guid]
/ams/akemi/api/media/video/medium/get/[guid]		Return the details of the medium specified by [guid]

/amc/akemi/ani/media/Video/hrogram/get/igilidi	Return the details of the program specified by [guid]
	Return the cover art by 'art' ID (from metadata)

# **Player Control**

URL	Operation
/ams/akemi/api/player/[swSerialNo]/control/mode/set/audio	Switch the player's media mode to Audio
/ams/akemi/api/player/[swSerialNo]/control/mode/set/image	Switch the player's media mode to Image
/ams/akemi/api/player/[swSerialNo]/control/mode/set/video	Switch the player's media mode to Video
/ams/akemi/api/player/[swSerialNo]/control/mode/set/plexmc	Switch the player's media mode to PlexMC
/ams/akemi/api/player/[swSerialNo]/control/mode/set/next	Switch the player's media mode to the next available mode
/ams/akemi/api/player/[swSerialNo]/control/cursor/set/menu	Go to the player's menu
/ams/akemi/api/player/[swSerialNo]/control/cursor/set/enter	Select the current item
/ams/akemi/api/player/[swSerialNo]/control/cursor/set/cancel	Cancel the current item
/ams/akemi/api/player/[swSerialNo]/control/cursor/set/up	Move up
/ams/akemi/api/player/[swSerialNo]/control/cursor/set/down	Move down
/ams/akemi/api/player/[swSerialNo]/control/cursor/set/left	Move left
/ams/akemi/api/player/[swSerialNo]/control/cursor/set/right	Move right

/ams/akemi/api/player/[swSerialNo]/control/cursor/set/home	Move to top
/ams/akemi/api/player/[swSerialNo]/control/cursor/set/pageup	Move one page up
/ams/akemi/api/player/[swSerialNo]/control/cursor/set/pagedown	Move one page down
/ams/akemi/api/player/[swSerialNo]/control/cursor/set/end	Move to bottom
/ams/akemi/api/player/[swSerialNo]/control/transport/set/play	Set the player's transport to play
ams/akemi/api/player/[swSerialNo]/control/transport/set/pause/	Set the player's transport to pause
ams/akemi/api/player/[swSerialNo]/control/transport/set/stop	Set the player's transport to stop
/ams/akemi/api/player/[swSerialNo]/control/transport/set/record	Set the player's transport to record
ams/akemi/api/player/[swSerialNo]/control/transport/set/previous/	Set the player's transport to previous
/ams/akemi/api/player/[swSerialNo]/control/transport/set/rewind	Set the player's transport to rewind (more
/ams/akemi/api/player/[swSerialNo]/control/transport/set/fastforward	Set the player's transport to fast forward (more)

/ams/akemi/api/player/[swSerialNo]/control/audio/set/next    available audistream     Go to the netavariable subpicture     subpicture     subpicture     stream     Toggle the     player's deta     dialog     Toggle the     player's filter     dialog     for to the netavariable subpicture     stream     Toggle the     player's deta     dialog     Toggle the     player's filter     dialog     Toggle the     player's sort     dialog     Toggle the     player's disc     dialog     Toggle the     dialog     dialog     dialog     Toggle the     dialog     dialog     dialog     dialog     dial	/ams/akemi/api/player/[swSerialNo]/control/transport/set/next	Set the player's transport to next
/ams/akemi/api/player/[swSerialNo]/control/subpicture/set/next  available subpicture stream  Toggle the player's deta dialog  /ams/akemi/api/player/[swSerialNo]/control/action/detail/toggle  /ams/akemi/api/player/[swSerialNo]/control/action/filter/toggle  /ams/akemi/api/player/[swSerialNo]/control/action/sort/toggle  /ams/akemi/api/player/[swSerialNo]/control/action/disc/toggle  /ams/akemi/api/player/[swSerialNo]/control/action/disc/toggle  Send this key (replace?) to	/ams/akemi/api/player/[swSerialNo]/control/audio/set/next	Go to the next available audio stream
/ams/akemi/api/player/[swSerialNo]/control/action/detail/toggle  /ams/akemi/api/player/[swSerialNo]/control/action/filter/toggle  /ams/akemi/api/player/[swSerialNo]/control/action/sort/toggle  /ams/akemi/api/player/[swSerialNo]/control/action/sort/toggle  /ams/akemi/api/player/[swSerialNo]/control/action/disc/toggle  /ams/akemi/api/player/[swSerialNo]/control/keypress/?  Send this key (replace ?) to	/ams/akemi/api/player/[swSerialNo]/control/subpicture/set/next	subpicture
/ams/akemi/api/player/[swSerialNo]/control/action/detail/toggle  /ams/akemi/api/player/[swSerialNo]/control/action/filter/toggle  /ams/akemi/api/player/[swSerialNo]/control/action/sort/toggle  /ams/akemi/api/player/[swSerialNo]/control/action/sort/toggle  /ams/akemi/api/player/[swSerialNo]/control/action/disc/toggle  /ams/akemi/api/player/[swSerialNo]/control/keypress/?  Send this key (replace ?) to		
/ams/akemi/api/player/[swSerialNo]/control/action/filter/toggle  /ams/akemi/api/player/[swSerialNo]/control/action/sort/toggle  /ams/akemi/api/player/[swSerialNo]/control/action/disc/toggle  /ams/akemi/api/player/[swSerialNo]/control/action/disc/toggle  Send this key (replace ?) to	/ams/akemi/api/player/[swSerialNo]/control/action/detail/toggle	player's detail
/ams/akemi/api/player/[swSerialNo]/control/action/sort/toggle  /ams/akemi/api/player/[swSerialNo]/control/action/disc/toggle  /ams/akemi/api/player/[swSerialNo]/control/keypress/?  Send this key (replace ?) to	/ams/akemi/api/player/[swSerialNo]/control/action/filter/toggle	player's filter
/ams/akemi/api/player/[swSerialNo]/control/action/disc/toggle  player's disc dialog  Send this key (replace ?) to	/ams/akemi/api/player/[swSerialNo]/control/action/sort/toggle	player's sort
/ams/akemi/ani/player/[swSerialNo]/control/keypress/? (replace ?) to	/ams/akemi/api/player/[swSerialNo]/control/action/disc/toggle	player's disc
/ams/akemi/ani/player/[swSerialNo]/control/keypress/? (replace ?) to		
0-9)	/ams/akemi/api/player/[swSerialNo]/control/keypress/?	(replace ?) to the player (A-Z,
There are two things that can be done directly to media: Selection and Playback. Selection navigates the user interface to the appropriate media. Playback begins playing the media immediately.	Selection navigates the user interface to the appropriate media.	ack.
/ams/akemi/api/player/[swSerialNo]/control/video/select/series/[guid] Select the Series specified by [guid]	/ams/akemi/api/player/[swSerialNo]/control/video/select/series/[guid]	Series specified by
/ams/akemi/api/player/[swSerialNo]/control/video/select/program/[guid] Select the	/ams/akemi/api/player/[swSerialNo]/control/video/select/program/[guid]	Select the

	Play the
/ams/akemi/api/player/[swSerialNo]/control/video/play/disc/program/[guid]	Play the Program specified by [guid] at it's menu
/ams/akemi/api/player/[swSerialNo]/control/video/play/movie/medium/[guid]	Play the Medium specified by [guid] at it's start
/ams/akemi/api/player/[swSerialNo]/control/video/play/disc/medium/[guid]	Play the Medium specified by [guid] at it's menu
/ams/akemi/api/player/[swSerialNo]/control/video/open/program/[guid]	"Open" the Program specified by [guid]
/ams/akemi/api/player/[swSerialNo]/control/video/open/series/[guid]	"Open" the Series specified by [guid]
	Program specified by [guid]

# **Player Status**

URL	Operation
/ams/akemi/api/player/[swSerialNo]/status/mode	Returns the player's media

	mode (Audio, Image, Video, PlexMC)
/ams/akemi/api/player/[swSerialNo]/status/transport/state	Returns the player's transport state (i.e. Play, Pause, Stop)
/ams/akemi/api/player/[swSerialNo]/status/transport/speed	Returns the player's transport speed (i.e. 2.0, -4.0, etc.)
/ams/akemi/api/player/[swSerialNo]/status/position	Returns the player's media position (in seconds)
/ams/akemi/api/player/[swSerialNo]/status/duration	Returns the player's media duration (in seconds)
/ams/akemi/api/player/[swSerialNo]/status/selected/series	Returns the player's selected video series Guid
/ams/akemi/api/player/[swSerialNo]/status/selected/series/title	Returns the player's selected video series Title
/ams/akemi/api/player/[swSerialNo]/status/selected/program	Returns the player's selected video program Guid
/ams/akemi/api/player/[swSerialNo]/status/selected/program/titl	Returns the player's selected video program Title
/ams/akemi/api/player/[swSerialNo]/status/playing/medium	Returns the player's selected video medium Guid
/ams/akemi/api/player/[swSerialNo]/status/playing/medium/title	Returns the player's selected video medium Title
/ams/akemi/api/player/[swSerialNo]/status/title	Returns the player's selected video's Title (i.e. DVD)
	Returns the player's selected video's Title count
/ams/akemi/api/player/[swSerialNo]/status/title/count	(i.e. DVD)

	selected video's Chapter (i.e. DVD)
/ams/akemi/api/player/[swSerialNo]/status/chapter/count	Returns the player's selected video's Chapter count (i.e. DVD)
/ams/akemi/api/player/[swSerialNo]/status/audio	Returns the player's selected video's Audio (i.e. DVD)
/ams/akemi/api/player/[swSerialNo]/status/audio/count	Returns the player's selected video's Audio count (i.e. DVD)
/ams/akemi/api/player/[swSerialNo]/status/audio/language	Returns the player's selected video's Audio language (i.e. DVD)
/ams/akemi/api/player/[swSerialNo]/status/subpicture	Returns the player's selected video's Subpicture (i.e. DVD)
/ams/akemi/api/player/[swSerialNo]/status/subpicture/count	Returns the player's selected video's Subpicture count (i.e. DVD)
/ams/akemi/api/player/[swSerialNo]/status/subpicture/language	Returns the player's selected video's Subpicture language (i.e. DVD)
/ams/akemi/api/player/[swSerialNo]/status/rip	Returns True if the player is importing, or False otherwise
/ams/akemi/api/player/[swSerialNo]/status/rip/title	Returns the title of the disc being imported
/ams/akemi/api/player/[swSerialNo]/status/rip/progress	Returns the percent of progress of the current import
Note: Some commands may be ignored if inappropriate for the player's current	mode or state.

# **Player Feedback**

For direct notification of system events, connect to the server's TCP port (generally 5152). The server will send ASCII plain text messages to any connected client as events occur.

### Messages have the following characteristics:

- ASCII plain text data
- Terminated with CRLF pair (0x0D 0x0A)
- Indicates source of event ("Server" or Player's software serial number)
- Indicates "Property" that has changed (i.e. Mode)
- Indicates new value of the property (i.e. Video)

## The format is as follows: [source]/[property]=[value]

[source]	The source of the event ("Server" or the software serial number of a player
[property]	The identifier of a property.  Generally these are the same as the unique part of the status request url for the property
[value]	The new value the property has taken.

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