

Ovation Application Programming Interface (Server API - Summit)

Because this device uses the Logitech Media Server you can use any driver compatible with the LMS. Please check the Fusion web site for the latest drivers for your control system.

API / Firmware Version

This document specifies the API as of firmware version 16.7.1.0 (and newer). Older versions of firmware may not support all functionality, or may operate differently.

HTTP Requests

All control and media browsing happens through HTTP GET requests to the server. The server will respond with XML indicating the result of the request.

All requests are made to the server's IP address and control port (default 9720). The request is to the URI `/oms/api/1/control/lms?action=[action]` and can include the following parameters depending on the request: mac, path, start, count, param1

Parameters

All parameters (including the 'action' parameter) are passed as standard GET parameters.

Parameter	Explanation
action	Required. See below.
mac	MAC address of a player (xx:xx:xx:xx:xx:xx) being controlled.
path	When browsing the library, this is the path to get data for.
start	When browsing, this is the first record to return (zero (0) based).
count	When browsing, this is the number of records we would like returned.

search	When browsing, this provides a &search& parameter for a request.
param1	This varies depending on the command. See below.

Library Browsing

The **browse** action returns XML data for entries in the library for the path specified.

action	Parameters	Example
browse	mac (required for all non-local metadata)	/api.php?action=browse&path=/ /api.php?action=browse&path=/local&start=0&count=1
	start (optional, default = 0)	
	count (optional, default = -1 (all))	
	path (required)	
	search (optional)	

Each entry contains a path that can then be followed to "open" that item (if openable).

Control

Commands to control the server are listed below with each of the required parameters along with an example.

action	Parameter s	Example	Notes
get_version		/api/api.php?action=get_version	The version of the server (and API).
power_off		/api/api.php?action=power_off	Shut down the server (power off). Note: To "power on" the

			server, use Wake on LAN. Not applicable to OMS0.
reboot		/api/api.php?action=reboot	Reboot the server.
Library Management			
rescan_library		/api/api.php?action=rescan_library	Start a rescan of the media library.
get_library_rescan_status		/api/api.php?action=get_library_rescan_status	Request status of a library rescan operation.
abort_library_rescan		/api/api.php?action=abort_library_rescan	Abort a library rescan in progress.
Players			
get_player_list		/api/api.php?action=get_player_list	List players known to this server
get_player_list_ex		/api.php?action=get_player_list_ex	List players known to ALL servers
get_player_info	mac	/api.php?action=get_player_info&mac=[mac]	Get info for a single player.
set_player_power	mac, param1 (true false)	/api.php?action=set_player_power&mac=[mac]¶m1=[true false]	Turn off the player.
set_player_power_all	param1 (true false)	/api.php?action=set_player_power_all¶m1=[true false]	Turn off all players.
cycle_player_power	mac (optional)	/api.php?action=cycle_player_power	Momentarily power cycle a player (by mac) or all (with no mac).
set_player_sync_all	param1	/api.php?action=set_player_sync_all¶m1=00	Sync all players to player

	(optional)	:00:00:00:00:00	(param1 must be the player mac) or unsync all (param1 empty).
set_player_sync	mac, param1 (optional)	/api.php?action=set_player_sync&mac=[mac]¶m1=[mac]	Sync the player to the player specified in param1 (or unsync if param1 missing).
disconnect_player	mac, param1	/api.php?action=disconnect_player&mac=[mac]	Tell player to disconnect from its server and join ours. Param1 must be the remote server's IP address.
Queues			
get_queue_status	mac, param1 (optional)	/api.php?action=get_queue_status&mac=[mac]¶m1=[what]	Return status for the queue (of a player). Param1 is the field to return or blank for all status.
get_queue_entries	mac	/api.php?action=get_queue_entries&mac=[mac]	Return a list of entries in the queue.
get_queue_entry	mac, param1	/api.php?action=get_queue_entry&mac=[mac]¶m1=[index]	Return info for a single entry in the queue (param1 is the zero based index).
get_queue_index	mac	/api.php?action=get_queue_index&mac=[mac]	Get the index of the currently playing (or active) item in the queue.
set_queue_index	mac, param1	/api.php?action=set_queue_index&mac=[mac]¶m1=[index]	Set the queue to play this entry. Param1 is the index in the queue.
get_queue_count	mac	/api.php?action=get_queue_count&mac=[mac]	Return the number of items in

			the queue.
get_queue_transport	mac	/api.php?action=get_queue_transport&mac=[mac]	Determine transport state of the queue.
set_queue_transport	mac, param1	/api.php?action=set_queue_transport&mac=[mac]¶m1=[play pause stop toggle]	Play, pause or stop the playback. Param1 can be "play", "pause", "stop", "unpause", "toggle", "prev" or "next".
get_queue_position	mac	/api.php?action=get_queue_position&mac=[mac]	Determine the current position (in the queue's current song) in seconds.
set_queue_position	mac, param1	/api.php?action=get_queue_position&mac=[mac]¶m1=[seconds]	Jump to the specified position (in seconds) in the current song.
get_queue_duration	mac	/api.php?action=get_queue_duration&mac=[mac]	Determine the current duration (of the queue's current song) in seconds.
get_queue_volume	mac	/api.php?action=get_queue_volume&mac=[mac]	Determine the current volume (0-100%) of the queue's playback.
set_queue_volume	mac, param1	/api.php?action=set_queue_volume&mac=[mac]¶m1=[volume]	Adjust playback volume (param1 can be 0-100)
get_queue_mute	mac	/api.php?action=get_queue_mute&mac=[mac]	Determine the current volume mute setting of the queue's playback.
set_queue_mute	mac	/api.php?action=set_queue_mute&mac=[mac]&	Mute (or unmute) playback

	param1	aram1=[true false]]	Param1 can be "true", "false", or missing for toggle.
get_queue_shuffle	mac	/api.php?action=get_queue_shuffle&mac=[mac]	Get the queue's shuffle configuration.
set_queue_shuffle	mac, param1	/api.php?action=set_queue_shuffle&mac=[mac]¶m1=[none song album]	Set shuffle. Param1 can be "none", "song", "album" or none for next.
get_queue_repeat	mac	/api.php?action=get_queue_repeat&mac=[mac]	Get the queue's repeat configuration.
set_queue_repeat	mac, param1	/api.php?action=set_queue_repeat&mac=[mac]¶m1=[none song playlist]	Set Repeat. Param1 can be "none", "song", "playlist" or none for next.
Playback			
clear_queue	mac	/api.php?action=clear_queue&mac=[mac]	Clear the player's queue.
save_queue_as	mac, param1	/api.php?action=clear_queue&mac=[mac]¶m1=[playlist name]	Save the queue as a playlist with the name (param1).
delete_queue_item	mac, param1	/api.php?action=delete_queue_item&mac=[mac]¶m1=[index to remove]	Remove the item specified (param1, by index) from the queue.
play	mac, path, param1 (optional)	/api.php?action=play&mac=[mac]&path=[path]¶m1=[load add insert]	Play the thing (if appropriate) specified by the path. Param1 specifies how to play (load = replace current queue, add means add to end of queue and

			insert means insert at top of queue).
Art			
get_art	path	/api.php?action=get_art&path=[art]	[art] is a partial url returned for an entry while library browsing Note: [art] may also be a full URL (starts with http://)
Miscellaneous			
rate_pandora	mac, param1	/api.php?action=rate_pandora&mac=[mac]¶m1=[true false]	Rate (param1) the Pandora track currently playing. (true = thumbs up).
Favorites			
favorite_exists	fav_url	/api.php?action=favorite_exists&fav_url=[favorite url]	Returns true or false depending on whether the "favorite url" provided is currently a favorite.
favorite_add	fav_url, fav_name, fav_parent, fav_index	/api.php?action=favorite_add&fav_url=[favorite url]&fav_name=[name]&fav_parent=[parent folder id]&fav_index=[insert position]	Insert favorite (url) using the name under the parent folder (optional ID derived from path) at the index specified (optional).
favorite_add_folder	fav_name, fav_parent, fav_index	/api.php?action=favorite_add_folder&fav_name=[name]&fav_parent=[parent folder id]&fav_index=[insert position]	Insert folder (url) using the name under the parent folder (optional ID derived from path) at the index specified (optional).
favorite_rename	fav_id, fav_name	/api.php?action=favorite_rename&fav_id=[favorite id to rename]&fav_name=[new name]	Rename the favorite specified by ID (derived from path) to the new name.

favorite_move	fav_id, fav_parent , fav_index	/api.php?action=favorite_move&fav_id=[favorite id]&fav_parent=[parent folder id]&fav_index=[insert position]	Move the favorite specified by ID (derived from path) to the parent folder (optional ID derived from path) at the index specified (optional). Note: LMS may not honor the Index under all circumstances.
favorite_delete	fav_id	/api.php?action=favorite_delete&fav_id=[favorite id]	Delete the favorite specified by ID (derived from path). When the path is "/favorite=1.2.3" then ID would be "1.2.3" (without quotes)

Feedback

Feedback is provided through XML messages delivered via a constant TCP connection to the server on port 4744.

Below is an example of an XML message from the server:

```
<?xml version="1.0"?>
<FusionResearchLMS>
  <feedback>
    <raw>98%3Afe%3A94%3A00%3A00%3A00 play</raw>
    <message from="98:fe:94:00:00:00" key="transport" value="play">
      <field>play</field>
    </message>
  </feedback>
</FusionResearchLMS>
```

To receive these messages, open a connection (TCP) to the server on port 4744 and leave it open. As things change on the server, the messages will be sent. They are terminated with a carriage return. The "raw" component mimics the feedback from the LMS. The "message" component interprets the LMS data.

