

# TheDavidBox SDK API (S-300)

## Table of Contents

1	Getting Started.....	4
1.1	Request Sample.....	4
1.2	Response Sample.....	4
1.2.1	Success Response.....	4
1.2.2	Failed Response.....	4
2	Module.....	5
2.1	Setting.....	6
2.1.1	get_mac_address :public.....	7
2.1.2	get_firmware_version :public.....	8
2.2	playback.....	9
2.2.1	list_vod_supported_format :public.....	10
2.2.2	start_vod :public.....	12
2.2.3	get_current_vod_info :public.....	13
2.2.4	list_playback_speed_vod :public.....	14
2.2.5	get_playback_speed_vod :public.....	15
2.2.6	set_playback_speed_vod :public.....	16
2.2.7	step_vod :public.....	17
2.2.8	repeat_vod :public.....	18
2.2.9	list_audio_vod :public.....	19
2.2.10	set_audio_vod :public.....	20
2.2.11	set_time_seek_vod :public.....	21
2.2.12	set_zoom_vod :public.....	22
2.2.13	pause_vod :public.....	23
2.2.14	resume_vod :public.....	24
2.2.15	stop_vod :public.....	25
2.2.16	insert_vod_queue :public.....	26
2.2.17	next_vod_in_queue :public.....	27
2.2.18	delete_vod_entry_queue :public.....	28
2.2.19	list_vod_queue_info :public.....	29
2.2.20	list_aod_supported_format :public.....	30
2.2.21	start_aod :public.....	31
2.2.22	get_current_aod_info :public.....	32
2.2.23	pause_aod :public.....	33
2.2.24	resume_aod :public.....	34
2.2.25	repeat_aod :public.....	35
2.2.26	stop_aod :public.....	36
2.2.27	insert_aod_queue :public.....	37
2.2.28	next_aod_in_queue :public.....	38
2.2.29	delete_aod_entry_queue :public.....	39
2.2.30	list_aod_queue_info :public.....	40
2.2.31	list_pod_supported_format :public.....	41
2.2.32	marquee_aod :public.....	42
2.2.33	start_pod :public.....	43
2.2.34	get_current_pod_info :public.....	45

2.2.35	pause_pod :public.....	46
2.2.36	resume_pod :public.....	47
2.2.37	set_zoom_pod :public.....	48
2.2.38	stop_pod :public.....	49
2.2.39	insert_pod_queue :public.....	50
2.2.40	next_pod_in_queue :public.....	51
2.2.41	delete_pod_entry_queue :public.....	52
2.2.42	list_pod_queue_info :public.....	53
2.2.43	delete_playlist_aod_queue :public.....	54
2.2.44	list_playlist_aod_queue_info :public.....	55
2.2.45	get_playlist_current_aod_info :public.....	56
2.2.46	prev_aod_in_queue :public.....	57
2.2.47	set_scale_vod :public.....	58
2.3	file_operation.....	59
2.3.1	list_user_storage_file :public.....	60
2.3.2	search_user_storage_file :public.....	63
2.3.3	create_user_storage_file :public.....	66
2.3.4	write_user_storage_file :public.....	67
2.3.5	read_user_storage_file :public.....	68
2.3.6	get_user_storage_file_info :public.....	69
2.3.7	copy_user_storage_file :public.....	70
2.3.8	move_user_storage_file :public.....	71
2.3.9	delete_user_storage_file :public.....	72
2.3.10	create_user_storage_directory :public.....	73
2.3.11	rename_user_storage_file :public.....	74
2.3.12	select_user_storage_file_to_list :public.....	75
2.3.13	delete_user_storage_file_from_list :public.....	76
2.3.14	copy_user_storage_file_from_list :public.....	77
2.3.15	move_user_storage_file_from_list :public.....	78
3	Error Code Reference Table :public.....	79

# 1 Getting Started

This API document is intent for TheDavidBox platform development and provide the access to the services available in this platform.

## 1.1 Request Sample

`http://<hostname>:<port>/<module>?arg0=<param0>&arg1=<param1>&.....&argn=<paramn>`

Field	Value	Description
<hostname>	127.0.0.1	Fixed for local server IP address
<port>	8008	Fixed for local service port number
<module>	setting	Command module(s)
<param{0..n}>	module dependent	Arguments

Note: Maximun HTTP GET query length: 4095 bytes

## 1.2 Response Sample

All the responses are formatted in UTF-8 XML as below

### 1.2.1 Success Response

```
<?xml version="1.0" encoding="UTF-8" ?>
<theDavidBox>
  <request>
    <arg0>...</arg0>
    <arg1>...</arg1>
    ...
    <module>setting</module>
  </request>
  <response>
    ...
  </response>
  <returnValue>0</returnValue>
</theDavidBox>
```

### 1.2.2 Failed Response

```
<?xml version="1.0" encoding="UTF-8" ?>
<theDavidBox>
  <response></response>
  <returnValue>1</returnValue>
</theDavidBox>
```

## 2 Module

Module Name	Description	Version
Setting		0.1
Playback	Interface with media playback module	0.2
File Operation		0.2

## **2.1 Setting**

This module is use to retrieve device setting

## 2.1.1 get\_mac\_address :public

Retrieve current MAC Address.

Parameter	Description	Data Type
arg0	Function name	String

### Request Example

`http://<hostname>:<port>/system?arg0=get_mac_address`

### Success Response Example

```
<?xml version="1.0" encoding="UTF-8" ?>
<theDavidBox>
  <request>
    <arg0>get_mac_address</arg0>
    <module>system</module>
  </request>
  <response>
    <macAddress>00:00:00:00:00:00</macAddress>
  </response>
  <returnValue>0</returnValue>
</theDavidBox>
```

### Failed Response Example

Referred to section 3

### Error Codes

The following errors may be returned:

- 0: Success
- 1: Fail

## 2.1.2 get\_firmware\_version :public

Retrieve current firmware version.

Parameter	Description	Data Type
arg0	Function name	String

### Request Example

`http://<hostname>:<port>/system?arg0=get_firmware_version`

### Success Response Example

```
<?xml version="1.0" encoding="UTF-8" ?>
<theDavidBox>
  <request>
    <arg0>get_firmware_version</arg0>
    <module>system</module>
  </request>
  <response>
    <firmwareVersion>01-17-090203-15-POP-402-000</firmwareVersion>
  </response>
  <returnValue>0</returnValue>
</theDavidBox>
```

### Failed Response Example

Referred to section 3

### Error Codes

The following errors may be returned:

- 0: Success
- 1: Fail

## **2.2 playback**

This module is use to playback supported media files

Video On Demand (VOD) – These API are use to playback video file in foreground

Audio On Demand (AOD) – These API are use to playback audio file in foreground or background

Photo On Demand (POD) – These API are use to playback photos with interval and transition effects

## 2.2.1 list\_vod\_supported\_format :public

List all the supported VOD format.

Parameter	Description	Data Type
arg0	Function name	String

### Request Example

`http://<hostname>:<port>/playback?arg0=list_vod_supported_format`

### Success Response Example

```
<?xml version="1.0" encoding="UTF-8" ?>
<theDavidBox>
  <request>
    <arg0>list_vod_supported_format</arg0>
    <module>playback</module>
  </request>
  <response>
    <format>mpeg</format>
    <format>mpg</format>
    <format>mpe</format>
    <format>qt</format>
    <format>mov</format>
    <format>avi</format>
    <format>movie</format>
    <format>mv</format>
    <format>wmv</format>
    <format>mp4</format>
    <format>asf</format>
    <format>vob</format>
    <format>mpe</format>
    <format>ts</format>
    <format>m2v</format>
    <format>m2p</format>
    <format>divx</format>
    <format>xvid</format>
    <format>dat</format>
    <format>mlv</format>
    <format>m4v</format>
    <format>dvr-ms</format>
    <format>m2t</format>
    <format>vro</format>
    <format>hnl</format>
    <format>trp</format>
    <format>div</format>
    <format>xvi</format>
    <format>rmp</format>
```

```
<format>rmp4</format>
<format>m2ts</format>
<format>mts</format>
<format>tp</format>
<format>iso</format>
<format>img</format>
<format>mkv</format>
<format>vdr</format>
<format>evo</format>
<format>h264</format>
</response>
<returnValue>0</returnValue>
</theDavidBox>
```

### **Failed Response Example**

Referred to section 3

### **Error Codes**

The following errors may be returned:

- 0: Success
- 1: Fail

## 2.2.2 start\_vod :public

Start VOD playback.

Parameter	Description	Data Type
arg0	Function name	String
arg1	Title of the file.	String
arg2	Any file of format returns from list_vod_supported_format function with full path. Note:either start with http://... or file://...	String
arg3	Optional. Default value "show", will show the video. Value "hide" will hide the playback behind current display	String
arg4	Optional. Skip 'x' second of video at the beginning	String
arg5	Prebuffer value in seconds	String
arg6	http cache (disable/enable)	String

### Request Example

```
http://<hostname>:<port>/playback?
```

```
arg0=start_vod&arg1=MyVideoTitle&arg2=http://...&arg3=show&arg4=0&arg5=0&arg6=enable
```

```
http://<hostname>:<port>/playback?
```

```
arg0=start_vod&arg1=MyVideoTitle&arg4=file:///opt/...&arg3=&arg4=0&arg5=0&arg6=disable
```

### Success Response Example

```
<?xml version="1.0" encoding="UTF-8" ?>
```

```
<theDavidBox>
  <request>
    <arg0>start_vod</arg0>
    <arg1>MyVideoTitle</arg1>
    <arg2>http://...</arg2>
    <arg3>show</arg3>
    <arg4>0</arg4>
    <module>playback</module>
  </request>
  <response></response>
  <returnValue>0</returnValue>
</theDavidBox>
```

### Failed Response Example

Referred to section 3

### Error Codes

The following errors may be returned:

- 0: Success
- 1: Fail

### 2.2.3 get\_current\_vod\_info :public

Retrieve current VOD info. Note: Return values of current time and total time is in second(s).

Parameter	Description	Data Type
arg0	Function name	String

#### Request Example

`http://<hostname>:<port>/playback?arg0=get_current_vod_info`

#### Success Response Example

```
<?xml version="1.0" encoding="UTF-8" ?>
<theDavidBox>
  <request>
    <arg0>get_current_vod_info</arg0>
    <module>playback</module>
  </request>
  <response>
    <currentStatus>play</currentStatus>
    <currentTime>19</currentTime>
    <downloadSpeed>0</downloadSpeed>
    <fullPath>...</fullPath>
    <lastPacketTime>0</lastPacketTime>
    <mediatype>OTHERS</mediatype>
    <seekEnable>true</seekEnable>
    <title>MyVideoTitle</title>
    <totalTime>1266</totalTime>
  </response>
  <returnValue>0</returnValue>
</theDavidBox>
```

#### Failed Response Example

Referred to section 3

#### Error Codes

The following errors may be returned:

- 0: Success
- 1: Fail

## 2.2.4 list\_playback\_speed\_vod :public

List all the supported VOD playback speed.

Parameter	Description	Data Type
arg0	Function name	String

### Request Example

`http://<hostname>:<port>/playback?arg0=list_playback_speed_vod`

### Success Response Example

```
<?xml version="1.0" encoding="UTF-8" ?>
<theDavidBox>
  <request>
    <arg0>list_playback_speed_vod</arg0>
    <module>playback</module>
  </request>
  <response>
    <speed>-16x</speed>
    <speed>-8x</speed>
    <speed>-4x</speed>
    <speed>-2x</speed>
    <speed>0</speed>
    <speed>1/8x</speed>
    <speed>1/4x</speed>
    <speed>1/2x</speed>
    <speed>1x</speed>
    <speed>2x</speed>
    <speed>4x</speed>
    <speed>6x</speed>
    <speed>8x</speed>
    <speed>16x</speed>
  </response>
  <returnValue>0</returnValue>
</theDavidBox>
```

### Failed Response Example

Referred to section 3

### Error Codes

The following errors may be returned:

- 0: Success
- 1: Fail

## 2.2.5 get\_playback\_speed\_vod :public

Retrieve current playback speed.

Parameter	Description	Data Type
arg0	Function name	String

### Request Example

`http://<hostname>:<port>/playback?arg0=get_playback_speed_vod`

### Success Response Example

```
<?xml version="1.0" encoding="UTF-8" ?>
<theDavidBox>
  <request>
    <arg0>get_playback_speed_vod</arg0>
    <module>playback</module>
  </request>
  <response>
    <speed>2x</speed>
  </response>
  <returnValue>0</returnValue>
</theDavidBox>
```

### Failed Response Example

Referred to section 3

### Error Codes

The following errors may be returned:

- 0: Success
- 1: Fail

## 2.2.6 set\_playback\_speed\_vod :public

Set VOD playback speed.

Parameter	Description	Data Type
arg0	Function name	String
arg1	Any speed returned from list_playback_speed_vod function. < 0: Rewind ( -1x, -2x ) 0: Pause will only work when current speed is 1x ( 0 ) 0 < x < 1: Slow ( 1/2x, 1/4x ) 1: Normal Play ( 1x ) > 1: Fast forward ( 2x, 4x )	String

### Request Example

`http://<hostname>:<port>/playback?arg0=set_playback_speed_vod&arg1=2x`

### Success Response Example

```
<?xml version="1.0" encoding="UTF-8" ?>
<theDavidBox>
  <request>
    <arg0>set_playback_speed_vod</arg0>
    <arg0>2x</arg0>
    <module>playback</module>
  </request>
  <response></response>
  <returnValue>0</returnValue>
</theDavidBox>
```

### Failed Response Example

Referred to section 3

### Error Codes

The following errors may be returned:

- 0: Success
- 1: Fail

## 2.2.7 step\_vod :public

Step to next video frame during VOD playback. Only works when current speed is 0 (pause)

Parameter	Description	Data Type
arg0	Function name	String

### Request Example

```
http://<hostname>:<port>/playback?arg0=step_vod
```

### Success Response Example

```
<?xml version="1.0" encoding="UTF-8" ?>
<theDavidBox>
  <request>
    <arg0>step_vod</arg0>
    <module>playback</module>
  </request>
  <response></response>
  <returnValue>0</returnValue>
</theDavidBox>
```

### Failed Response Example

Referred to section 3

### Error Codes

The following errors may be returned:

- 0: Success
- 1: Fail

## 2.2.8 repeat\_vod :public

Repeat VOD playback. Toggles the repeat mode.

Parameter	Description	Data Type
arg0	Function name	String

### Request Example

`http://<hostname>:<port>/playback?arg0=repeat_vod`

### Success Response Example

```
<?xml version="1.0" encoding="UTF-8" ?>
<theDavidBox>
  <request>
    <arg0>repeat_vod</arg0>
    <module>playback</module>
  </request>
  <response></response>
  <returnValue>0</returnValue>
</theDavidBox>
```

### Failed Response Example

Referred to section 3

### Error Codes

The following errors may be returned:

- 0: Success
- 1: Fail

## 2.2.9 list\_audio\_vod :public

List all the audio streams in current file.

Parameter	Description	Data Type
arg0	Function name	String

### Request Example

`http://<hostname>:<port>/playback?arg0=list_audio_vod`

### Success Response Example

```
<?xml version="1.0" encoding="UTF-8" ?>
<theDavidBox>
  <request>
    <arg0>list_audio_vod</arg0>
    <module>playback</module>
  </request>
  <response>
    <audio>1</audio>
    <audio>2</audio>
    <currentAudio>1</currentAudio>
  </response>
  <returnValue>0</returnValue>
</theDavidBox>
```

### Failed Response Example

Referred to section 3

### Error Codes

The following errors may be returned:

- 0: Success
- 1: Fail

## 2.2.10 set\_audio\_vod :public

Set the audio stream in current file.

Parameter	Description	Data Type
arg0	Function name	String
arg1	Audio value. Eg: "1" (value depends on audio as being returned from list_audio_vod)	String

### Request Example

`http://<hostname>:<port>/playback?arg0=set_audio_vod&arg1=1`

### Success Response Example

```
<?xml version="1.0" encoding="UTF-8" ?>
<theDavidBox>
  <request>
    <arg0>set_audio_vod</arg0>
    <arg1>1</arg1>
    <module>playback</module>
  </request>
  <response></response>
  <returnValue>0</returnValue>
</theDavidBox>
```

### Failed Response Example

Referred to section 3

### Error Codes

The following errors may be returned:

- 0: Success
- 1: Fail

## 2.2.11 set\_time\_seek\_vod :public

Set time for current VOD playback to seek.

Parameter	Description	Data Type
arg0	Function name	String
arg1	Any valid time which in format hh:mm:ss	String

### Request Example

`http://<hostname>:<port>/playback?arg0=set_time_seek_vod&arg1=00:01:16`

### Success Response Example

```
<?xml version="1.0" encoding="UTF-8" ?>
<theDavidBox>
  <request>
    <arg0>set_time_seek_vod</arg0>
    <arg1>00:01:16</arg1>
    <module>playback</module>
  </request>
  <response></response>
  <returnValue>0</returnValue>
</theDavidBox>
```

### Failed Response Example

Referred to section 3

### Error Codes

The following errors may be returned:

- 0: Success
- 1: Fail

## 2.2.12 set\_zoom\_vod :public

Set zoom mode for current VOD playback.

Parameter	Description	Data Type
arg0	Function name	String
arg1	Any valid positive number in range 10-400. Note: 100 is normal size.	Number

### Request Example

`http://<hostname>:<port>/playback?arg0=set_zoom_vod&arg1=99`

### Success Response Example

```
<?xml version="1.0" encoding="UTF-8" ?>
<theDavidBox>
  <request>
    <arg0>set_zoom_vod</arg0>
    <arg1>99</arg1>
    <module>playback</module>
  </request>
  <response></response>
  <returnValue>0</returnValue>
</theDavidBox>
```

### Failed Response Example

Referred to section 3

### Error Codes

The following errors may be returned:

- 0: Success
- 1: Fail

## 2.2.13 pause\_vod :public

Pause VOD playback.

Parameter	Description	Data Type
arg0	Function name	String

### Request Example

`http://<hostname>:<port>/playback?arg0=pause_vod`

### Success Response Example

```
<?xml version="1.0" encoding="UTF-8" ?>
<theDavidBox>
  <request>
    <arg0>pause_vod</arg0>
    <module>playback</module>
  </request>
  <response></response>
  <returnValue>0</returnValue>
</theDavidBox>
```

### Failed Response Example

Referred to section 3

### Error Codes

The following errors may be returned:

- 0: Success
- 1: Fail

## 2.2.14 resume\_vod :public

Resume VOD playback.

Parameter	Description	Data Type
arg0	Function name	String

### Request Example

`http://<hostname>:<port>/playback?arg0=resume_vod`

### Success Response Example

```
<?xml version="1.0" encoding="UTF-8" ?>
<theDavidBox>
  <request>
    <arg0>resume_vod</arg0>
    <module>playback</module>
  </request>
  <response></response>
  <returnValue>0</returnValue>
</theDavidBox>
```

### Failed Response Example

Referred to section 3

### Error Codes

The following errors may be returned:

- 0: Success
- 1: Fail

## 2.2.15 stop\_vod :public

Stop VOD playback.

Parameter	Description	Data Type
arg0	Function name	String

### Request Example

`http://<hostname>:<port>/playback?arg0=stop_vod`

### Success Response Example

```
<?xml version="1.0" encoding="UTF-8" ?>
<theDavidBox>
  <request>
    <arg0>stop_vod</arg0>
    <module>playback</module>
  </request>
  <response></response>
  <returnValue>0</returnValue>
</theDavidBox>
```

### Failed Response Example

Referred to section 3

### Error Codes

The following errors may be returned:

- 0: Success
- 1: Fail

## 2.2.16 insert\_vod\_queue :public

Insert VOD file into a queue.

Parameter	Description	Data Type
arg0	Function name	String
arg1	Video file title.	String
arg2	Any file of format returns from list_vod_supported_format function with full path. Note:either start with http://... or file://...	String
arg3	Optional. Default value "show", will show the video. Value "hide" will hide the playback behind current display	String
arg4	Start playback from beginning or bookmark of VOD file. Any valid integer which less than length of movie (note:start from beginning of VOD file) empty (note:start from bookmark of VOD file)	Number

### Request Example

```
http://<hostname>:<port>/playback?
arg0=insert_vod_queue&arg1=MyVideoTitle&arg2=http://...&arg3=show&arg4=start_zero
```

### Success Response Example

```
<?xml version="1.0" encoding="UTF-8" ?>
<theDavidBox>
  <request>
    <arg0>insert_vod_queue</arg0>
    <arg1>MyVideoTitle</arg1>
    <arg2>http://...</arg2>
    <arg3>show</arg3>
    <arg4>start_zero</arg4>
    <module>playback</module>
  </request>
  <response>
    <index>4</index>
  </response>
  <returnValue>0</returnValue>
</theDavidBox>
```

### Failed Response Example

Referred to section 3

### Error Codes

The following errors may be returned:

- 0: Success
- 1: Fail

## 2.2.17 next\_vod\_in\_queue :public

Playback the next item in the queue.

Parameter	Description	Data Type
arg0	Function name	String

### Request Example

`http://<hostname>:<port>/playback?arg0=next_vod_in_queue`

### Success Response Example

```
<?xml version="1.0" encoding="UTF-8" ?>
<theDavidBox>
  <request>
    <arg0>next_vod_in_queue</arg0>
    <module>playback</module>
  </request>
  <response></response>
  <returnValue>0</returnValue>
</theDavidBox>
```

### Failed Response Example

Referred to section 3

### Error Codes

The following errors may be returned:

- 0: Success
- 1: Fail

## 2.2.18 delete\_vod\_entry\_queue :public

Delete any entry in the queue.

Parameter	Description	Data Type
arg0	Function name	String
arg1	Any index return from list_vod_queue_info function	Number

### Request Example

`http://<hostname>:<port>/playback?arg0=delete_vod_entry_queue&arg1=3`

### Success Response Example

```
<?xml version="1.0" encoding="UTF-8" ?>
<theDavidBox>
  <request>
    <arg0>delete_vod_entry_queue</arg0>
    <arg1>3</arg1>
    <module>playback</module>
  </request>
  <response></response>
  <returnValue>0</returnValue>
</theDavidBox>
```

### Failed Response Example

Referred to section 3

### Error Codes

The following errors may be returned:

- 0: Success
- 1: Fail

## 2.2.19 list\_vod\_queue\_info :public

List all the AOD info which inside queue.

Parameter	Description	Data Type
arg0	Function name	String

### Request Example

`http://<hostname>:<port>/playback?arg0=list_vod_queue_info`

### Success Response Example

```
<?xml version="1.0" encoding="UTF-8" ?>
<theDavidBox>
  <request>
    <arg0>list_vod_queue_info</arg0>
    <module>playback</module>
  </request>
  <response>
    <queue>
      <fullPath>file:///opt/myVideoFile.avi</fullPath>
      <index>3</index>
      <title>myVideoFile</title>
    </queue>
    <queue>
      <fullPath>file:///opt/sample.avi</fullPath>
      <index>5</index>
      <title>sample</title>
    </queue>
  </response>
  <returnValue>0</returnValue>
</theDavidBox>
```

### Failed Response Example

Referred to section 3

### Error Codes

The following errors may be returned:

- 0: Success
- 1: Fail

## 2.2.20 list\_aod\_supported\_format :public

List all the supported AOD format.

Parameter	Description	Data Type
arg0	Function name	String

### Request Example

`http://<hostname>:<port>/playback?arg0=list_aod_supported_format`

### Success Response Example

```
<?xml version="1.0" encoding="UTF-8" ?>
<theDavidBox>
  <request>
    <arg0>list_aod_supported_format</arg0>
    <module>playback</module>
  </request>
  <response>
    <format>wav</format>
    <format>m4a</format>
    <format>mpga</format>
    <format>mp2</format>
    <format>mp3</format>
    <format>pcm</format>
    <format>ogg</format>
    <format>wma</format>
    <format>mp1</format>
    <format>ac3</format>
    <format>aac</format>
    <format>mpa</format>
    <format>pls</format>
    <format>dts</format>
    <format>flac</format>
    <format>mka</format>
    <format>m3u</format>
  </response>
  <returnValue>0</returnValue>
</theDavidBox>
```

### Failed Response Example

Referred to section 3

### Error Codes

The following errors may be returned:

- 0: Success
- 1: Fail

## 2.2.21 start\_aod :public

Start AOD playback.

Parameter	Description	Data Type
arg0	Function name	String
arg1	Title of the file.	String
arg2	Any file of format returns from list_aod_supported_format function with full path. Note:either start with http://... or file://...	String
arg3	show: show audio playback marquee: will only show window marquee hide: will not show anything	String
arg4	http cache (disable/enable)	String

### Request Example

```
http://<hostname>:<port>/playback?
```

```
arg0=start_aod&arg1=MyAudioTitle&arg2=http://...&arg3=show&arg4=disable
```

```
http://<hostname>:<port>/playback?
```

```
arg0=start_aod&arg1=MyAudioTitle&arg2=file:///opt/...&arg3=marquee&arg4=enable
```

### Success Response Example

```
<?xml version="1.0" encoding="UTF-8" ?>
```

```
<theDavidBox>
```

```
  <request>
```

```
    <arg0>start_aod</arg0>
```

```
    <arg1>MyAudioTitle</arg1>
```

```
    <arg2>file:///opt/...</arg2>
```

```
    <arg3></arg3>
```

```
    <module>playback</module>
```

```
  </request>
```

```
  <response></response>
```

```
  <returnValue>0</returnValue>
```

```
</theDavidBox>
```

### Failed Response Example

Referred to section 3

#### Error Codes

The following errors may be returned:

- 0: Success
- 1: Fail

## 2.2.22 get\_current\_aod\_info :public

Retrieve current AOD info. Note: Return values of current time and total time is in second(s).

Parameter	Description	Data Type
arg0	Function name	String

### Request Example

`http://<hostname>:<port>/playback?arg0=get_current_aod_info`

### Success Response Example

```
<?xml version="1.0" encoding="UTF-8" ?>
<theDavidBox>
  <request>
    <arg0>get_current_aod_info</arg0>
    <module>playback</module>
  </request>
  <response>
    <album>The Ultimate Most Relaxing Jaz</album>
    <artist>Hubert Laws</artist>
    <currentStatus>play</currentStatus>
    <currentTime>73</currentTime>
    <downloadSpeed>0</downloadSpeed>
    <fullPath>...</fullPath>
    <lastPacketTime>0</lastPacketTime>
    <mediatype>OTHERS</mediatype>
    <seekEnable>>true</seekEnable>
    <title>Kiss</title>
    <totalTime>337</totalTime>
  </response>
  <returnValue>0</returnValue>
</theDavidBox>
```

### Failed Response Example

Referred to section 3

### Error Codes

The following errors may be returned:

- 0: Success
- 1: Fail

## 2.2.23 pause\_aod :public

Pause AOD playback.

Parameter	Description	Data Type
arg0	Function name	String

### Request Example

`http://<hostname>:<port>/playback?arg0=pause_aod`

### Success Response Example

```
<?xml version="1.0" encoding="UTF-8" ?>
<theDavidBox>
  <request>
    <arg0>pause_aod</arg0>
    <module>playback</module>
  </request>
  <response></response>
  <returnValue>0</returnValue>
</theDavidBox>
```

### Failed Response Example

Referred to section 3

### Error Codes

The following errors may be returned:

- 0: Success
- 1: Fail

## 2.2.24 resume\_aod :public

Resume AOD playback.

Parameter	Description	Data Type
arg0	Function name	String

### Request Example

`http://<hostname>:<port>/playback?arg0=resume_aod`

### Success Response Example

```
<?xml version="1.0" encoding="UTF-8" ?>
<theDavidBox>
  <request>
    <arg0>resume_aod</arg0>
    <module>playback</module>
  </request>
  <response></response>
  <returnValue>0</returnValue>
</theDavidBox>
```

### Failed Response Example

Referred to section 3

### Error Codes

The following errors may be returned:

- 0: Success
- 1: Fail

## 2.2.25 repeat\_aod :public

Repeat AOD playback.

Parameter	Description	Data Type
arg0	Function name	String

### Request Example

`http://<hostname>:<port>/playback?arg0=repeat_aod`

### Success Response Example

```
<?xml version="1.0" encoding="UTF-8" ?>
<theDavidBox>
  <request>
    <arg0>repeat_aod</arg0>
    <module>playback</module>
  </request>
  <response></response>
  <returnValue>0</returnValue>
</theDavidBox>
```

### Failed Response Example

Referred to section 3

### Error Codes

The following errors may be returned:

- 0: Success
- 1: Fail

## 2.2.26 stop\_aod :public

Stop AOD playback.

Parameter	Description	Data Type
arg0	Function name	String

### Request Example

`http://<hostname>:<port>/playback?arg0=stop_aod`

### Success Response Example

```
<?xml version="1.0" encoding="UTF-8" ?>
<theDavidBox>
  <request>
    <arg0>stop_aod</arg0>
    <module>playback</module>
  </request>
  <response></response>
  <returnValue>0</returnValue>
</theDavidBox>
```

### Failed Response Example

Referred to section 3

### Error Codes

The following errors may be returned:

- 0: Success
- 1: Fail

## 2.2.27 insert\_aod\_queue :public

Insert AOD file into a queue.

Parameter	Description	Data Type
arg0	Function name	String
arg1	Video file title.	String
arg2	Any file of format returns from list_aod_supported_format function with full path. Note:either start with http://... or file://...	String
arg3	Optional. Default value "show", will show the audio playback UI. Value "hide" will hide the playback behind current display	String

### Request Example

```
http://<hostname>:<port>/playback?
arg0=insert_aod_queue&arg1=MyAudioTitle&arg2=http://...&arg3=show
```

### Success Response Example

```
<?xml version="1.0" encoding="UTF-8" ?>
<theDavidBox>
  <request>
    <arg0>insert_aod_queue</arg0>
    <arg1>MyAudioTitle</arg1>
    <arg2>http://...</arg2>
    <arg3>show</arg3>
    <module>playback</module>
  </request>
  <response>
    <index>1</index>
  </response>
  <returnValue>0</returnValue>
</theDavidBox>
```

### Failed Response Example

Referred to section 3

### Error Codes

The following errors may be returned:

- 0: Success
- 1: Fail

## 2.2.28 next\_aod\_in\_queue :public

Skip to next item in the queue.

Parameter	Description	Data Type
arg0	Function name	String

### Request Example

`http://<hostname>:<port>/playback?arg0=next_aod_in_queue`

### Success Response Example

```
<?xml version="1.0" encoding="UTF-8" ?>
<theDavidBox>
  <request>
    <arg0>next_aod_in_queue</arg0>
    <module>playback</module>
  </request>
  <response></response>
  <returnValue>0</returnValue>
</theDavidBox>
```

### Failed Response Example

Referred to section 3

### Error Codes

The following errors may be returned:

- 0: Success
- 1: Fail

## 2.2.29 delete\_aod\_entry\_queue :public

Delete any entry in the queue.

Parameter	Description	Data Type
arg0	Function name	String
arg1	Any index returns from list_aod_queue_info function.	

### Request Example

`http://<hostname>:<port>/playback?arg0=delete_aod_entry_queue`

### Success Response Example

```
<?xml version="1.0" encoding="UTF-8" ?>
<theDavidBox>
  <request>
    <arg0>delete_aod_entry_queue</arg0>
    <module>playback</module>
  </request>
  <response></response>
  <returnValue>0</returnValue>
</theDavidBox>
```

### Failed Response Example

Referred to section 3

### Error Codes

The following errors may be returned:

- 0: Success
- 1: Fail

### 2.2.30 list\_aod\_queue\_info :public

List all the AOD info which inside queue.

Parameter	Description	Data Type
arg0	Function name	String

#### Request Example

`http://<hostname>:<port>/playback?arg0=list_aod_queue_info`

#### Success Response Example

```
<?xml version="1.0" encoding="UTF-8" ?>
<theDavidBox>
  <request>
    <arg0>list_aod_queue_info</arg0>
    <module>playback</module>
  </request>
  <response>
    <queue>
      <fullPath>file:///opt/myAudioFile.mp3</fullPath>
      <index>1</index>
      <title>myAudioFile</title>
    </queue>
    <queue>
      <fullPath>http://hostname.com/audioName.mp3</fullPath>
      <index>3</index>
      <title>audioName</title>
    </queue>
  </response>
  <returnValue>0</returnValue>
</theDavidBox>
```

#### Failed Response Example

Referred to section 3

#### Error Codes

The following errors may be returned:

- 0: Success
- 1: Fail

## 2.2.31 list\_pod\_supported\_format :public

List all the supported POD format.

Parameter	Description	Data Type
arg0	Function name	String

### Request Example

`http://<hostname>:<port>/playback?arg0=list_pod_supported_format`

### Success Response Example

```
<?xml version="1.0" encoding="UTF-8" ?>
<theDavidBox>
  <request>
    <arg0>list_pod_supported_format</arg0>
    <module>playback</module>
  </request>
  <response>
    <format>gif</format>
    <format>jpg</format>
    <format>jpeg</format>
    <format>jpe</format>
    <format>png</format>
    <format>bmp</format>
    <format>tif</format>
    <format>tiff</format>
  </response>
  <returnValue>0</returnValue>
</theDavidBox>
```

### Failed Response Example

Referred to section 3

### Error Codes

The following errors may be returned:

- 0: Success
- 1: Fail

## 2.2.32 `marquee_aod` :public

Show or hide marquee.

Parameter	Description	Data Type
<code>arg0</code>	Function name	String
<code>arg1</code>	show : show marquee hide : hide marquee	String

### Request Example

`http://<hostname>:<port>/playback?arg0=marquee_aod&arg1=hide`

### Success Response Example

```
<?xml version="1.0" encoding="UTF-8" ?>
<theDavidBox>
  <request>
    <arg0>marquee_aod</arg0>
    <arg1>hide</arg1>
    <module>playback</module>
  </request>
  <response>
  </response>
  <returnValue>0</returnValue>
</theDavidBox>
```

### Failed Response Example

Referred to section 3

### Error Codes

The following errors may be returned:

- 0: Success
- 1: Fail

## 2.2.33 start\_pod :public

Start POD playback.

Parameter	Description	Data Type
arg0	Function name	String
arg1	Title of the file.	String
arg2	Any file of format returns from list_vod_supported_format function with full path. Note:either start with http://... or file://...	String
arg3	Slide interval in second(s).	Number
arg4	Degree of rotation. rot0(or pass empty parameter), rot90, rot180, rot270	String
arg5	Value "show" will show the photo. Value "hide" will hide the photo behind current display	String
arg6	Optional. Specify transition effect. Possible value are "off", "zoom", "slide", "fade", spiral, "random"	String

### Request Example

```
http://<hostname>:<port>/playback?
arg0=start_pod&arg1=MyPhotoTitle&arg2=http://...&arg3=3&arg4=rot90&arg5=bghide
```

```
http://<hostname>:<port>/playback?
arg0=start_pod&arg1=MyPhotoTitle&arg2=file:///opt/...&arg3=3&arg4=rot90&arg5=bgrun
```

### Success Response Example

```
<?xml version="1.0" encoding="UTF-8" ?>
<theDavidBox>
  <request>
    <arg0>start_pod</arg0>
    <arg1>MyPhotoTitle</arg1>
    <arg2>http://...</arg2>
    <arg3>3</arg3>
    <arg4>rot90</arg4>
    <arg5>bgrun</arg5>
    <module>playback</module>
  </request>
  <response></response>
  <returnValue>0</returnValue>
</theDavidBox>
```

### Failed Response Example

Referred to section 3

### Error Codes

The following errors may be returned:

- 0: Success
- 1: Fail

## 2.2.34 get\_current\_pod\_info :public

Retrieve current POD info.

Parameter	Description	Data Type
arg0	Function name	String

### Request Example

`http://<hostname>:<port>/playback?arg0=get_current_pod_info`

### Success Response Example

```
<?xml version="1.0" encoding="UTF-8" ?>
<theDavidBox>
  <request>
    <arg0>get_current_pod_info</arg0>
    <module>playback</module>
  </request>
  <response>
    <currentStatus>play</currentStatus>
    <fullPath>file:///opt/myPhotoFile.jpg</fullPath>
    <title>myPhotoFile</title>
  </response>
  <returnValue>0</returnValue>
</theDavidBox>
```

### Failed Response Example

Referred to section 3

### Error Codes

The following errors may be returned:

- 0: Success
- 1: Fail

## 2.2.35 pause\_pod :public

Pause POD playback.

Parameter	Description	Data Type
arg0	Function name	String

### Request Example

`http://<hostname>:<port>/playback?arg0=pause_pod`

### Success Response Example

```
<?xml version="1.0" encoding="UTF-8" ?>
<theDavidBox>
  <request>
    <arg0>pause_pod</arg0>
    <module>playback</module>
  </request>
  <response></response>
  <returnValue>0</returnValue>
</theDavidBox>
```

### Failed Response Example

Referred to section 3

### Error Codes

The following errors may be returned:

- 0: Success
- 1: Fail

## 2.2.36 resume\_pod :public

Resume POD playback.

Parameter	Description	Data Type
arg0	Function name	String

### Request Example

`http://<hostname>:<port>/playback?arg0=resume_pod`

### Success Response Example

```
<?xml version="1.0" encoding="UTF-8" ?>
<theDavidBox>
  <request>
    <arg0>resume_pod</arg0>
    <module>playback</module>
  </request>
  <response></response>
  <returnValue>0</returnValue>
</theDavidBox>
```

### Failed Response Example

Referred to section 3

### Error Codes

The following errors may be returned:

- 0: Success
- 1: Fail

## 2.2.37 set\_zoom\_pod :public

Set zoom mode for current POD playback.

Parameter	Description	Data Type
arg0	Function name	String
arg1	Any valid positive number in range 10-400. Note: 100 is normal size.	Number

### Request Example

`http://<hostname>:<port>/playback?arg0=set_zoom_pod&arg1=99`

### Success Response Example

```
<?xml version="1.0" encoding="UTF-8" ?>
<theDavidBox>
  <request>
    <arg0>set_zoom_pod</arg0>
    <arg1>99</arg1>
    <module>playback</module>
  </request>
  <response></response>
  <returnValue>0</returnValue>
</theDavidBox>
```

### Failed Response Example

Referred to section 3

### Error Codes

The following errors may be returned:

- 0: Success
- 1: Fail

## 2.2.38 stop\_pod :public

Stop POD.

Parameter	Description	Data Type
arg0	Function name	String

### Request Example

`http://<hostname>:<port>/playback?arg0=stop_pod`

### Success Response Example

```
<?xml version="1.0" encoding="UTF-8" ?>
<theDavidBox>
  <request>
    <arg0>stop_pod</arg0>
    <module>playback</module>
  </request>
  <response></response>
  <returnValue>0</returnValue>
</theDavidBox>
```

### Failed Response Example

Referred to section 3

### Error Codes

The following errors may be returned:

- 0: Success
- 1: Fail

## 2.2.39 insert\_pod\_queue :public

Insert POD file into a queue.

Parameter	Description	Data Type
arg0	Function name	String
arg1	Video file title.	String
arg2	Any file of format returns from list_pod_supported_format function with full path. Note:either start with http://... or file://...	String
arg3	Slide interval in second(s)	Number
arg4	Degree of rotation. rot0(or pass empty parameter), rot90, rot180, rot270	String
arg5	“show” will show the photo. Value “hide” will hide the photo behind current display	String
arg6	Optional. Specify transition effect. Possible value are “off”, “zoom”, “slide”, “fade”, spiral, “random”	String

### Request Example

```
http://<hostname>:<port>/playback?
arg0=insert_pod_queue&arg1=MyPhotoTitle&arg2=http://...&arg3=5&arg4=rot90&arg5=bgrun
```

### Success Response Example

```
<?xml version="1.0" encoding="UTF-8" ?>
<theDavidBox>
  <request>
    <arg0>insert_pod_queue</arg0>
    <arg1>MyPhotoTitle</arg1>
    <arg2>http://...</arg2>
    <arg3>5</arg3>
    <arg4>rot90</arg4>
    <arg5>bgrun</arg5>
    <module>playback</module>
  </request>
  <response></response>
  <returnValue>0</returnValue>
</theDavidBox>
```

### Failed Response Example

Referred to section 3

### Error Codes

The following errors may be returned:

- 0: Success
- 1: Fail

## 2.2.40 next\_pod\_in\_queue :public

Skip to next item in the queue.

Parameter	Description	Data Type
arg0	Function name	String

### Request Example

`http://<hostname>:<port>/playback?arg0=next_pod_in_queue`

### Success Response Example

```
<?xml version="1.0" encoding="UTF-8" ?>
<theDavidBox>
  <request>
    <arg0>next_pod_in_queue</arg0>
    <module>playback</module>
  </request>
  <response></response>
  <returnValue>0</returnValue>
</theDavidBox>
```

### Failed Response Example

Referred to section 3

### Error Codes

The following errors may be returned:

- 0: Success
- 1: Fail

## 2.2.41 delete\_pod\_entry\_queue :public

Delete any entry in the queue.

Parameter	Description	Data Type
arg0	Function name	String
arg1	Any index returns from list_pod_queue_info function.	

### Request Example

`http://<hostname>:<port>/playback?arg0=delete_pod_entry_queue&arg1=1`

### Success Response Example

```
<?xml version="1.0" encoding="UTF-8" ?>
<theDavidBox>
  <request>
    <arg0>delete_pod_entry_queue</arg0>
    <arg1>1</arg1>
    <module>playback</module>
  </request>
  <response></response>
  <returnValue>0</returnValue>
</theDavidBox>
```

### Failed Response Example

Referred to section 3

### Error Codes

The following errors may be returned:

- 0: Success
- 1: Fail

## 2.2.42 list\_pod\_queue\_info :public

List all the POD info which inside queue.

Parameter	Description	Data Type
arg0	Function name	String

### Request Example

`http://<hostname>:<port>/playback?arg0=list_pod_queue_info`

### Success Response Example

```
<?xml version="1.0" encoding="UTF-8" ?>
<theDavidBox>
  <request>
    <arg0>list_pod_queue_info</arg0>
    <module>playback</module>
  </request>
  <response>
    <queue>
      <fullPath>file:///opt/myPhotoFile.jpg</fullPath>
      <index>1</index>
      <title>myPhotoFile</title>
    </queue>
    <queue>
      <fullPath>http://hostname.com/photoName.jpg</fullPath>
      <index>3</index>
      <title>photoName</title>
    </queue>
  </response>
  <returnValue>0</returnValue>
</theDavidBox>
```

### Failed Response Example

Referred to section 3

### Error Codes

The following errors may be returned:

- 0: Success
- 1: Fail

## 2.2.43 delete\_playlist\_aod\_queue :public

Delete any entry in the queue.

Parameter	Description	Data Type
arg0	Function name	String
arg1	Any index returns from list_aod_queue_info function, or you can insert "all" to delete all entry	String (numeric)

### Request Example

```
http://<hostname>:<port>/playback?arg0=delete_playlist_aod_queue&arg1=1
```

### Success Response Example

```
<?xml version="1.0" encoding="UTF-8" ?>
<theDavidBox>
  <request>
    <arg0>delete_playlist_aod_queue</arg0>
    <module>playback</module>
  </request>
  <response></response>
  <returnValue>0</returnValue>
</theDavidBox>
```

### Failed Response Example

Referred to section 3

### Error Codes

The following errors may be returned:

- 0: Success
- 1: Fail

## 2.2.44 list\_playlist\_aod\_queue\_info :public

List all the AOD info which inside queue.

Parameter	Description	Data Type
arg0	Function name	String

### Request Example

`http://<hostname>:<port>/playback?arg0=list_playlist_aod_queue_info`

### Success Response Example

```
<?xml version="1.0" encoding="UTF-8" ?>
<theDavidBox>
  <request>
    <arg0>list_playlist_aod_queue_info</arg0>
    <module>playback</module>
  </request>
  <response>
    <queue>
      <fullPath>file:///opt/myAudioFile.mp3</fullPath>
      <index>1</index>
      <title>myAudioFile</title>
      <runtime>150</runtime>
      <id>1</id>
    </queue>
    <queue>
      <fullPath>file:///hostname.com/dioName.mp3</fullPath>
      <index>3</index>
      <title>audioName</title>
      <runtime>200</runtime>
      <id>20</id>
    </queue>
  </response>
  <returnValue>0</returnValue>
</theDavidBox>
```

### Failed Response Example

Referred to section 3

### Error Codes

The following errors may be returned:

- 0: Success
- 1: Fail

## 2.2.45 get\_playlist\_current\_aod\_info :public

List all the AOD info which inside queue.

Parameter	Description	Data Type
arg0	Function name	String

### Request Example

`http://<hostname>:<port>/playback?arg0=get_playlist_current_aod_info`

### Success Response Example

```
<?xml version="1.0" encoding="UTF-8" ?>
<theDavidBox>
  <request>
    <arg0>get_playlist_current_aod_info</arg0>
    <module>playback</module>
  </request>
  <response>
    <queue>
      <fullPath>file:///opt/myAudioFile.mp3</fullPath>
      <index>1</index>
      <title>myAudioFile</title>
      <runtime>150</runtime>
      <id>1</id>
    </queue>
    <queue>
      <fullPath>file:///hostname.com/dioName.mp3</fullPath>
      <index>3</index>
      <title>audioName</title>
      <runtime>200</runtime>
      <id>20</id>
    </queue>
  </response>
  <returnValue>0</returnValue>
</theDavidBox>
```

### Failed Response Example

Referred to section 3

### Error Codes

The following errors may be returned:

- 0: Success
- 1: Fail

## 2.2.46 prev\_aod\_in\_queue :public

List all the AOD info which inside queue.

Parameter	Description	Data Type
arg0	Function name	String

### Request Example

`http://<hostname>:<port>/playback?arg0=prev_aod_in_queue`

### Success Response Example

```
<?xml version="1.0" encoding="UTF-8" ?>
<theDavidBox>
  <request>
    <arg0>prev_aod_in_queue</arg0>
    <module>playback</module>
  </request>
  <response>
    <response/>
    <returnValue>0</returnValue>
  </response>
</theDavidBox>
```

### Failed Response Example

Referred to section 3

### Error Codes

The following errors may be returned:

- 0: Success
- 1: Fail

## 2.2.47 set\_scale\_vod :public

Scale the playback(video, picture) region to specific coordinate and dimension

Parameter	Description	Data Type
arg0	Function name	String
arg1	Coordinate x (Range from 0-1280)	Number
arg2	Coordinate y (Range from 0-720)	Number
arg3	Width (Range from 0-1280)	Number
arg4	Height (Range from 0-720)	Number

### Request Example

http://<hostname>:<port>/playback?arg0=set\_scale\_vod&arg1=100&arg2=100&arg3=100&arg4=100

### Success Response Example

```
<theDavidBox>
  <request>
    <arg0>set_scale_vod</arg0>
    <arg1>100</arg1>
    <arg2>100</arg2>
    <arg3>100</arg3>
    <arg4>100</arg4>
    <module>playback</module>
  </request>
  <response/>
  <returnValue>0</returnValue>
</theDavidBox>
```

### Failed Response Example

Referred to section 3

### Error Codes

The following value may be returned:

0 : Success

8 : invalid parameter

## **2.3 file\_operation**

This module is use to do some limited system file operation.

### 2.3.1 list\_user\_storage\_file :public

List all the files or folder in user storage.

Parameter	Description	Data Type
arg0	Function name	String
arg1	File name with full path in user storage device(s).	String
arg2	Offset, start number of the response list.	Number
arg3	Range, number of response to return.	Number
arg4	Show folders in response list.	Boolean
arg5	Show files in response list.	Boolean
arg6	Enable return more information of the file or folder. Example: file size.	Boolean
arg7	Mime type to return. If arg1 is empty, arg7 is opt for local/network.	String
arg8	Sorting option. (name_asc/dsc, date_asc/dsc, size_asc/dsc)	String
arg9	Enable/disable persistence.	Boolean

#### Request Example

`http://<hostname>:<port>/file_operation?`

`arg0=list_user_storage_file&arg1=user_storage_path&arg2=0&arg3=10&arg4=true&arg5=true&arg6=true&arg7=&arg8=name_asc&arg9=false`

#### Success Response Example

```
<?xml version="1.0" encoding="UTF-8" ?>
```

```
<theDavidBox>
```

```
  <request>
```

```
    <arg0>list_user_storage_file</arg0>
```

```
    <arg1>user_storage_path</arg1>
```

```
    <arg2>0</arg2>
```

```
    <arg3>10</arg3>
```

```
    <arg4>true</arg4>
```

```
    <arg5>true</arg5>
```

```
    <arg6>true</arg6>
```

```
    <arg7></arg7>
```

```
    <arg8>name_asc</arg8>
```

```
    <module>file_operation</module>
```

```
  </request>
```

```
  <response>
```

```
    <availableFile>2</availableFile>
```

```
    <availableFolder>2</availableFolder>
```

```
    <fileList>
```

```
      <file>
```

```
        <isFolder>yes</isFolder>
```

```
        <modifyDate>Fri Feb 18 14:57:38 2011</modifyDate>
```

```

        <name>media</name>
        <path>/opt/sybhttpd/localhost.drives/user_storage_path/
media</path>
        <size>32768</size>
    </file>
    <file>
        <isFolder>yes</isFolder>
        <modifyDate>Mon Feb 14 05:22:32 2011</modifyDate>
        <name>music</name>
        <path>/opt/sybhttpd/localhost.drives/user_storage_path/
music</path>
        <size>32768</size>
    </file>
    <file>
        <isFolder>no</isFolder>
        <modifyDate>Mon Jun 15 19:24:50 2009</modifyDate>
        <name>Sinbad 1080p 50Hz.ts</name>
        <path>/opt/sybhttpd/localhost.drives/user_storage_path/
Sinbad 1080p 50Hz.ts</path>
        <size>327239864</size>
        <type>video</type>
    </file>
    <file>
        <isFolder>no</isFolder>
        <modifyDate>Thu May 12 13:16:46 2011</modifyDate>
        <name>firmware update.html</name>
        <path>/opt/sybhttpd/localhost.drives/user_storage_path/
file.html</path>
        <size>304</size>
        <type>others</type>
    </file>
</fileList>
<totalFile>4</totalFile>
</response>
<returnValue>0</returnValue>
</theDavidBox>

```

## Failed Response Example

Referred to section 3

### Error Codes

The following errors may be returned:

- 0: Success
- 1: Fail
- 901: Invalid argument
- 902: Internal failure
- 903: Out of memory
- 904: Fail to resolve hostname, server appears to be offline

- 905: Share no longer exist
- 906: Please retry
- 907: Server is busy, unable to access now
- 908: Unable login to target server, please retry
- 909: Unable access to server, please check your server setup
- 910: User/password required
- 911: I/O error
- 912: Host is unreachable
- 913: No domain master browser
- 914: No local master browser
- 915: No workgroup list
- 916: No server list
- 917: No share list
- 918: No more free mount point for new mount/access request

### 2.3.2 search\_user\_storage\_file :public

List all the files or folder in user storage by keyword search.

Parameter	Description	Data Type
arg0	Function name	String
arg1	File name with full path in user storage device(s).	String
arg2	Offset, start number of the response list.	Number
arg3	Range, number of response to return.	Number
arg4	Show folders in response list.	Boolean
arg5	Show files in response list.	Boolean
arg6	Enable return more information of the file or folder. Example: file size.	Boolean
arg7	Mime type to return.	String
arg8	Keyword.	String

#### Request Example

`http://<hostname>:<port>/file_operation?`

`arg0=search_user_storage_file&arg1=user_storage_path&arg2=0&arg3=10&arg4=true&arg5=true&arg6=true&arg7=&arg8=m`

#### Success Response Example

```
<?xml version="1.0" encoding="UTF-8" ?>
```

```
<theDavidBox>
```

```
  <request>
```

```
    <arg0>search_user_storage_file</arg0>
```

```
    <arg1>user_storage_path</arg1>
```

```
    <arg2>0</arg2>
```

```
    <arg3>10</arg3>
```

```
    <arg4>true</arg4>
```

```
    <arg5>true</arg5>
```

```
    <arg6>true</arg6>
```

```
    <arg7></arg7>
```

```
    <arg8>m</arg8>
```

```
    <module>file_operation</module>
```

```
  </request>
```

```
  <response>
```

```
    <availableFile>1</availableFile>
```

```
    <availableFolder>2</availableFolder>
```

```
    <fileList>
```

```
      <file>
```

```
        <isFolder>yes</isFolder>
```

```
        <modifyDate>Fri Feb 18 14:57:38 2011</modifyDate>
```

```
        <name>media</name>
```

```
        <path>/opt/sybhttpd/localhost.drives/user_storage_path/
```

```

media</path>
    <size>32768</size>
</file>
<file>
    <isFolder>yes</isFolder>
    <modifyDate>Mon Feb 14 05:22:32 2011</modifyDate>
    <name>music</name>
    <path>/opt/sybhttpd/localhost.drives/user_storage_path/
music</path>
    <size>32768</size>
</file>
<file>
    <isFolder>no</isFolder>
    <modifyDate>Thu May 12 13:16:46 2011</modifyDate>
    <name>firmware update.html</name>
    <path>/opt/sybhttpd/localhost.drives/user_storage_path/
file.html</path>
    <size>304</size>
    <type>others</type>
</file>
</fileList>
<totalFile>3</totalFile>
</response>
<returnValue>0</returnValue>
</theDavidBox>

```

## Failed Response Example

Referred to section 3

### Error Codes

The following errors may be returned:

- 0: Success
- 4: Error
- 901: Invalid argument
- 902: Internal failure
- 903: Out of memory
- 904: Fail to resolve hostname, server appears to be offline
- 905: Share no longer exist
- 906: Please retry
- 907: Server is busy, unable to access now
- 908: Unable login to target server, please retry
- 909: Unable access to server, please check your server setup
- 910: User/password required
- 911: I/O error
- 912: Host is unreachable
- 913: No domain master browser
- 914: No local master browser

- 915: No workgroup list
- 916: No server list
- 917: No share list
- 918: No more free mount point for new mount/access request

### 2.3.3 create\_user\_storage\_file :public

Create file in user storage.

Parameter	Description	Data Type
arg0	Function name	String
arg1	File name with full path.	String

#### Request Example

```
http://<hostname>:<port>/file_operation?
arg0=create_user_storage_file&arg1=/user_storage/file%20name
```

#### Success Response Example

```
<?xml version="1.0" encoding="UTF-8" ?>
<theDavidBox>
  <request>
    <arg0>create_user_storage_file</arg0>
    <arg1>/user_storage/file name</arg1>
    <module>file_operation</module>
  </request>
  <response></response>
  <returnValue>0</returnValue>
</theDavidBox>
```

#### Failed Response Example

Referred to section 3

#### Error Codes

The following errors may be returned:

- 0: Success
- 1: Fail
- 402: Devices permission denied during doing file operation.

### 2.3.4 write\_user\_storage\_file :public

Write file in application storage.

Parameter	Description	Data Type
arg0	Function name	String
arg1	File name which create in create_user_storage_file function.	String
arg2	Append writing. If false, will overwrite the whole file.	Boolean
arg3	Data to write.	String
arg4	Total data to write in bytes.	Number

#### Request Example

```
http://<hostname>:<port>/file_operation?arg0=write_user_storage_file&arg1=file
%20name&arg2=true&arg3=testing%20data&arg4=4124
```

#### Success Response Example

```
<?xml version="1.0" encoding="UTF-8" ?>
<theDavidBox>
  <request>
    <arg0>write_user_storage_file</arg0>
    <arg1>file name</arg1>
    <arg2>true</arg2>
    <arg3>testing data</arg3>
    <arg4>4124</arg4>
    <module>file_operation</module>
  </request>
  <response></response>
  <returnValue>0</returnValue>
</theDavidBox>
```

#### Failed Response Example

Referred to section 3

#### Error Codes

The following errors may be returned:

- 0: Success
- 1: Fail
- 401: Device no exist during doing file operation.
- 402: Devices permission denied during doing file operation.

### 2.3.5 read\_user\_storage\_file :public

Read user storage file.

Parameter	Description	Data Type
arg0	Function name	String
arg1	File name with full path.	String
arg2	Offset of start for read in bytes.	Number
arg3	Size of read in bytes. If arg2 and arg3 equal to 0, total bytes of the file will return.	Number

#### Request Example

```
http://<hostname>:<port>/file_operation?arg0=read_user_storage_file&arg1=file%20path&arg2=0&arg3=20
```

#### Success Response Example

```
<?xml version="1.0" encoding="UTF-8" ?>
<theDavidBox>
  <request>
    <arg0>read_user_storage_file</arg0>
    <arg1>file_path</arg1>
    <arg2>0</arg2>
    <arg3>20</arg3>
    <module>file_operation</module>
  </request>
  <response>
    <content>contain of the file</content>
  </response>
  <returnValue>0</returnValue>
</theDavidBox>
```

#### Failed Response Example

Referred to section 3

#### Error Codes

The following errors may be returned:

- 0: Success
- 1: Fail
- 401: Device no exist during doing file operation.
- 402: Devices permission denied during doing file operation.

### 2.3.6 get\_user\_storage\_file\_info :public

Retrieve user storage file info.

Parameter	Description	Data Type
arg0	Function name	String
arg1	File name with full path.	String

#### Request Example

`http://<hostname>:<port>/file_operation?arg0=get_user_storage_file_info&arg1=file%20path`

#### Success Response Example

```
<?xml version="1.0" encoding="UTF-8" ?>
<theDavidBox>
  <request>
    <arg0>get_user_storage_file_info</arg0>
    <arg1>file path</arg1>
    <module>file_operation</module>
  </request>
  <response>
    <fileSize>28</fileSize>
    <mimeType>text/plain</mimeType>
    <name>myFile</name>
    <permission>read</permission>
  </response>
  <returnValue>0</returnValue>
</theDavidBox>
```

#### Failed Response Example

Referred to section 3

#### Error Codes

The following errors may be returned:

- 0: Success
- 1: Fail
- 401: Device no exist during doing file operation.

## 2.3.7 copy\_user\_storage\_file :public

Copy user storage file.

Parameter	Description	Data Type
arg0	Function name	String
arg1	File name with full path.	String
arg2	Target file name with full path.	String

### Request Example

```
http://<hostname>:<port>/file_operation?arg0=copy_user_storage_file&arg1=file%20path&arg2=target%20path
```

### Success Response Example

```
<?xml version="1.0" encoding="UTF-8" ?>
<theDavidBox>
  <request>
    <arg0>copy_user_storage_file</arg0>
    <arg1>file_path</arg1>
    <arg2>target_path</arg2>
    <module>file_operation</module>
  </request>
  <response></response>
  <returnValue>0</returnValue>
</theDavidBox>
```

### Failed Response Example

Referred to section 3

### Error Codes

The following errors may be returned:

- 0: Success
- 1: Fail
- 401: Device no exist during doing file operation.
- 402: Devices permission denied during doing file operation.
- 403: Devices disk space full during doing file operation.

### 2.3.8 move\_user\_storage\_file :public

Move user storage file.

Parameter	Description	Data Type
arg0	Function name	String
arg1	File name with full path.	String
arg2	Target file name with full path.	String

#### Request Example

```
http://<hostname>:<port>/file_operation?arg0=move_user_storage_file&arg1=file%20path&arg2=target%20path
```

#### Success Response Example

```
<?xml version="1.0" encoding="UTF-8" ?>
<theDavidBox>
  <request>
    <arg0>move_user_storage_file</arg0>
    <arg1>file_path</arg1>
    <arg2>target_path</arg2>
    <module>file_operation</module>
  </request>
  <response></response>
  <returnValue>0</returnValue>
</theDavidBox>
```

#### Failed Response Example

Referred to section 3

#### Error Codes

The following errors may be returned:

- 0: Success
- 1: Fail
- 401: Device no exist during doing file operation.
- 402: Devices permission denied during doing file operation.
- 403: Devices disk space full during doing file operation.

### 2.3.9 delete\_user\_storage\_file :public

Delete user storage file.

Parameter	Description	Data Type
arg0	Function name	String
arg1	File name with full path.	String

#### Request Example

`http://<hostname>:<port>/file_operation?arg0=delete_user_storage_file&arg1=file%20path`

#### Success Response Example

```
<?xml version="1.0" encoding="UTF-8" ?>
<theDavidBox>
  <request>
    <arg0>delete_user_storage_file</arg0>
    <arg1>file path</arg1>
    <module>file_operation</module>
  </request>
  <response></response>
  <returnValue>0</returnValue>
</theDavidBox>
```

#### Failed Response Example

Referred to section 3

#### Error Codes

The following errors may be returned:

- 0: Success
- 1: Fail
- 401: Device no exist during doing file operation.
- 402: Devices permission denied during doing file operation.

### 2.3.10 create\_user\_storage\_directory :public

Create directory in user storage.

Parameter	Description	Data Type
arg0	Function name	String
arg1	File name with full path.	String

#### Request Example

```
http://<hostname>:<port>/file_operation?
arg0=create_user_storage_directory&arg1=/user_storage/directory%20name
```

#### Success Response Example

```
<?xml version="1.0" encoding="UTF-8" ?>
<theDavidBox>
  <request>
    <arg0>create_user_storage_file</arg0>
    <arg1>/user_storage/directory name</arg1>
    <module>file_operation</module>
  </request>
  <response></response>
  <returnValue>0</returnValue>
</theDavidBox>
```

#### Failed Response Example

Referred to section 3

#### Error Codes

The following errors may be returned:

- 0: Success
- 1: Fail
- 52: Duplicate
- 402: Devices permission denied during doing file operation.

### 2.3.11 rename\_user\_storage\_file :public

Rename user storage file.

Parameter	Description	Data Type
arg0	Function name	String
arg1	Source file name with full path	String
arg2	Destination file name with full path	String

#### Request Example

```
http://<hostname>:<port>/file_operation?
arg0=rename_user_storage_file&arg1=/user_storage/source%file
%20name&arg2=/user_storage/destination%file%20name
```

#### Success Response Example

```
<?xml version="1.0" encoding="UTF-8" ?>
<theDavidBox>
  <request>
    <arg0>rename_user_storage_file</arg0>
    <arg1>/user_storage/source file name</arg1>
    <arg2>/user_storage/destination file name</arg2>
    <module>file_operation</module>
  </request>
  <response></response>
  <returnValue>0</returnValue>
</theDavidBox>
```

#### Failed Response Example

Referred to section 3

#### Error Codes

The following errors may be returned:

- 0: Success
- 1: Fail
- 52: Duplicate
- 401: Device no exist during doing file operation.
- 402: Devices permission denied during doing file operation.

### 2.3.12 select\_user\_storage\_file\_to\_list :public

Select or deselect user storage file to file list.

Parameter	Description	Data Type
arg0	Function name	String
arg1	Source file/folder name with full path	String
arg2	Selection. (select, deselect, deselect_all)	String

#### Request Example

`http://<hostname>:<port>/file_operation?`

`arg0=select_user_storage_file_to_list&arg1=/user_storage/source%file%20name&arg2=select`

#### Success Response Example

```
<?xml version="1.0" encoding="UTF-8" ?>
```

```
<theDavidBox>
```

```
  <request>
```

```
    <arg0>select_user_storage_file_to_list</arg0>
```

```
    <arg1>/user_storage/source file name</arg1>
```

```
    <arg2>select</arg2>
```

```
    <module>file_operation</module>
```

```
  </request>
```

```
  <response></response>
```

```
  <returnValue>0</returnValue>
```

```
</theDavidBox>
```

#### Failed Response Example

Referred to section 3

#### Error Codes

The following errors may be returned:

- 0: Success
- 4: Error
- 8: Invalid parameter

### 2.3.13 delete\_user\_storage\_file\_from\_list :public

Delete user storage file from file list.

Parameter	Description	Data Type
arg0	Function name	String

#### Request Example

`http://<hostname>:<port>/file_operation?arg0=delete_user_storage_file_from_list`

#### Success Response Example

```
<?xml version="1.0" encoding="UTF-8" ?>
<theDavidBox>
  <request>
    <arg0>delete_user_storage_file_from_list</arg0>
    <module>file_operation</module>
  </request>
  <response></response>
  <returnValue>0</returnValue>
</theDavidBox>
```

#### Failed Response Example

Referred to section 3

#### Error Codes

The following errors may be returned:

- 0: Success
- 4: Error

### 2.3.14 copy\_user\_storage\_file\_from\_list :public

Copy user storage file from file list.

Parameter	Description	Data Type
arg0	Function name	String
arg1	Target folder name with full path.	String

#### Request Example

```
http://<hostname>:<port>/file_operation?
arg0=copy_user_storage_file_from_list&arg1=/user_storage/target%folder%20name
```

#### Success Response Example

```
<?xml version="1.0" encoding="UTF-8" ?>
<theDavidBox>
  <request>
    <arg0>copy_user_storage_file_from_list</arg0>
    <arg1>/user_storage/target folder name</arg1>
    <module>file_operation</module>
  </request>
  <response></response>
  <returnValue>0</returnValue>
</theDavidBox>
```

#### Failed Response Example

Referred to section 3

#### Error Codes

The following errors may be returned:

- 0: Success
- 4: Error
- 8: Invalid parameter
- 60: Read only filesystem

### 2.3.15 move\_user\_storage\_file\_from\_list :public

Move user storage file from file list.

Parameter	Description	Data Type
arg0	Function name	String
arg1	Target folder name with full path.	String

#### Request Example

```
http://<hostname>:<port>/file_operation?
arg0=move_user_storage_file_from_list&arg1=/user_storage/target%folder%20name
```

#### Success Response Example

```
<?xml version="1.0" encoding="UTF-8" ?>
<theDavidBox>
  <request>
    <arg0>move_user_storage_file_from_list</arg0>
    <arg1>/user_storage/target folder name</arg1>
    <module>file_operation</module>
  </request>
  <response></response>
  <returnValue>0</returnValue>
</theDavidBox>
```

#### Failed Response Example

Referred to section 3

#### Error Codes

The following errors may be returned:

- 0: Success
- 4: Error
- 8: Invalid parameter
- 60: Read only filesystem

### 3 Error Code Reference Table :public

This section list down all the possible error code return by command server.

Error Code	Description
0	Success
1	Pending
4	Error
8	INVALID PARAMETER (Standard error, argument is null)
11	INVALID_PATH (Standard error, database cannot open)
22	Insufficient size
49	DATABASE_WR_ERROR (Standard error, cannot write to database, in this command is cannot create table)
50	DATABASE_RD_ERROR (Standard error, cannot read from database)
51	Open pipe error
52	Same file/record already exist
57	No database is found.
60	Read only File system
61	No internet connection
62	No nmt harddisk connectted
63	Database outdated
64	Not even one directory is added
65	Not even one directory is scanned yet
401	Device no exist during doing file operation.
402	Devices permission denied during doing file operation.
403	Devices disk space full during doing file operation
501	Duplicate entry during create download task process.
502	Fail to Parse seed during create download task process.
503	Invalid CID during create download task process.
504	Invalid Task ID.
505	Download Manager directory not found, cannot perform any action.
506	Download Manager license key fail, cannot perform any action.
601	Fail to install .There are another installation or updating process on run.
602	Application Id not found

901	Access deny.
902	Internal failure
903	Out of memory
904	Fail to resolve hostname, server appears to be offline
905	Share no longer exist
906	Please retry
907	Server is busy, unable to access now
908	Unable login to target server, please retry
909	Unable access to server, please check your server setup
910	User/password required
911	I/O error
912	Host is unreachable
913	No domain master browser
914	No local master browser
915	No workgroup list
916	No server list
917	No share list
918	No more free mount point for new mount/access request