

EchoSystem Capture API

Version 3.0

Reference Guide

Table of Contents

1 Introduction 1

2 The Basics 2

3 Appliance API Calls 4

3.1 Device and Capture Status API Calls 4

3.1.1 Get System Status 4

3.1.2 Get Capture Status 6

3.1.3 Get Next Capture Status 10

3.1.4 Get Current Capture Status 10

3.1.5 Get Capture Status with Monitoring Information 10

3.1.6 Show Current Video or Display View 13

3.1.7 Get User Sections 14

3.1.8 Get Authenticated User Reference ID 14

3.2 Diagnostics API Calls 15

3.2.1 Clear User Cache 15

3.2.2 Ping Host Connectivity 15

3.2.3 Trace Route Path and Time 15

3.2.4 Restart Appliance Executables 16

3.2.5 Reboot Appliance 16

3.2.6 Get Appliance Network Configuration 16

3.2.7 Get Appliance Tasks 18

3.2.8 Get Device Configuration File 18

3.2.9 Get Device Processes 18

3.2.10 Get Device Message Buffer 18

3.2.11 Get Saved Content on the Device 19

3.2.12 Re-Upload Content from the Device to the ESS 19

3.2.13 Retrieve the Last X Number of Log Messages 20

3.3 Capture Control API Calls 21

3.3.1 Create New Capture 21

3.3.2 Create “Confidence Monitor” Capture 22

3.3.3 Extend a Capture 22

3.3.4 Pause a Capture 23

3.3.5 Start or Resume a Capture 23

3.3.6 Stop a Capture 23

Appendix: Response XML Examples 24

Get Capture Status Response XML 24

Get Next Capture Status Response XML 27

Get Current Capture Status Response XML 30

Get Appliance Tasks Response XML 34

Get Device Configuration File Response XML 37

Get Device Processes Response XML 58

Get Device Message Buffer Response XML 63

# Introduction

This document covers the Capture API supported by EchoSystem 5.3 and above.

The Capture API is a set of RESTful API calls that are used to communicate with a client device, including a 1G Capture Appliance, a SafeCapture HD device or a Classroom Capture installation. This communication is used to control or view device operations, and includes the ability to look at system status, retrieve diagnostics, schedule and control captures, among other tasks.

Besides a System Administrator generating calls manually, this API is called by 3 main system 'users':

**The Adhoc-Web Interface:** The Adhoc Web UI is used by a human instructor to log in and perform an adhoc capture. The Adhoc interface uses the Capture API to talk to the capture appliance and perform the actions indicated by the instructor through the interface, such as to start a capture when the instructor clicks Start Capture.

**Room Control Systems:** Room control systems such as Crestron, AMX, and Extron use the Capture API to control the capture device so that the AMX room control panel used by the instructor can display a Capture button, show the next upcoming capture, etc.

**Classroom Capture Installation:** When the Classroom Capture product is installed in on a classroom PC, the application uses the Capture API to get all of the status information shown in the interface, as well as to control the capture through the interface, as initiated by the instructor when applicable (start, pause, stop, or extend a capture).

# The Basics

Each API call identified in this guide is listed with a title that identifies its function along with a brief description of what the call does. In addition, each call is listed with the following items, designed to show how the call is structured and how to use it.

**Call** – Shows whether the call is a GET or a POST call, and identifies the structure of the call.

* **GET** – Call is made using the HTTP 1.1. GET method. Often, GET calls are used to obtain specifics that can then be used in other calls.
* **POST** – Call is made using the HTTP 1.1 POST method. A “POST” call is usually used to create an object or make some change via the API. For example, the call to create a new capture is a POST call, as is the call to generate a Ping to test network connectivity. POST requests usually require POST data be appended to the request.

**{base-uri}** – A placeholder that represents the DNS Hostname or IP address of the device. Best practice is to include the port number along with the Hostname/IP address. For example: *https://10.3.11.24:8443*.

To find the IP address of a device or Classroom Capture installation, navigate to **Configuration > Devices** on the ESS, then click the MAC address of the device in the Devices list to view the Device Details page.

**Request Data** – Where applicable, identifies the data parameters that must be included in the call and provides a brief description of each.

**Example:** Shows a populated example of the API call that has been tested.

**Response XML:** Where possible, the full XML response of the provided Example call is provided as an example of the information returned by a device.

**NOTE:** Where feasible, the Response XML is provided in the main document along with the call that generated it. If the Response XML is much longer than a single page, it is provided in [Appendix: Response XML Examples](#_Appendix:_Response_XML_1). Where this is the case, a link is provided to the corresponding response in the Appendix, and the response in the Appendix provides a link back to the call in the main document. This is done for ease of navigation and reference.

In addition to the basic API call items listed above, each call is listed with a **CURL Example**, for users using the curl command line tool for calls. The basic syntax of a CURL call is:

curl --user $adminlogincreds --insecure –data --url $apiurl/capture/extend

Where:

**$adminlogincreds** provide the username:password combination needed to authorize the user making the call.

**$apiurl** identifies the IP address (and protocol if possible) of the device.

**--data** precedes the POST data being included with the call, if applicable. These are the parameters defined in the URL encoded payload to be sent through the API. The set of data parameters is typically surrounded by single quotes, to exempt any special characters that may be present in the parameter data.

A fully populated example of a GET method CURL call that does not require request parameters:

curl --user admin:password --insecure --url https://192.168.61.10:8443/status/system

A fully populated example of a POST method CURL call that *does* require request parameters:

curl --user admin:password --insecure --data 'duration=300&capture\_profile\_name=Display/Video (Podcast/Vodcast/EchoPlayer). Optimized for quality/full motion video&description=test-description' --url https://192.168.61.10:8443/capture/new\_capture

As a final note on this Capture API guide, most of the calls provided in this document can be performed by any user. All of the calls listed in the Status API Calls and Capture API Calls sections of this guide can be performed by any user with login access to the system.

The calls in the Diagnostics API Calls section of this document can only be performed by an Administrator.

# Appliance API Calls

## Device and Capture Status API Calls

The Status API calls are used to return status and capture information for the device. The Status calls in this section are GET only, and are used specifically to retrieve information.

### Get System Status

Returns the current status of the device.

**Call:** GET {base-uri}/status/system

**Example:** https://10.3.11.24:8443/status/system

**CURL Example:** curl --user admin:password --insecure --url https://192.168.61.10:8443/status/system

The Response XML includes the information outlined in the below table. An example is provided below the table.

|  |  |
| --- | --- |
| Device Tags | |
| **wall-clock-time** | GMT Time string from the device |
| **api-versions** | API Version number of the client being communicated with. The current Capture API is version 3.0. |
| **capture-profiles** | The capture profiles able to be captured by the device. These are descriptive text strings that can be used in calls that require capture profile information, such as [Create New Capture](#_Create_New_Capture). Capture Profiles appear in the WebUI as a dropdown box for the user to select what type of adhoc capture to run. |
| **monitor-profiles** | The capture inputs that can be provided for device monitoring. |
| **host-address** | Name of the host. |
| **serial-number** | The MAC address of the device (a unique identifier). |
| **system-version** | Version string of the client software on the device. |
| **up-since** | GMT Date/Time when the system was last started. |
| **last-sync** | GMT Date/Time when the system last contacted the ESS. |
| Content Tags | |
| **state** | State of the current transfer: active, idle, or error. |
| **archive-space-usage** | Percentage of the allocated space on the device currently being used for saved data. |
| **uploaded** | Number of items that have been uploaded since the “up-since” time noted in the Device tags above. |
| **uploads-pending** | Number of items waiting to be uploaded from the device to the ESS. |
| **bytes-pending** | Number of bytes of data waiting to be uploaded from the device to the ESS. |
| **uploading** | Is either true or false.  If **true**, the upload block is populated with the tags described immediately below. If **false**, the below tags do not appear. |
| **upload/bytes-per-second** | Bytes per second of the current file transfer. |
| **upload/filename** | Filename of the file currently being uploaded. |
| **upload/start-time** | GMT start time of the current file upload. |
| Log Tags | |
| **utc-offset** | Returns the offset in seconds between the time zone of current time and the UTC. |
| **location** | String identifying the room to which the device has been assigned on the ESS. |

**Response XML:**

<status>

<wall-clock-time>2014-02-12T14:21:29.550Z</wall-clock-time>

<api-versions>

<api-version>3.0</api-version>

</api-versions>

<capture-profiles>

<capture-profile>Audio Only (Podcast). Balanced between file size &#038; quality</capture-profile>

<capture-profile>Display Only (Podcast/Vodcast/EchoPlayer). Balanced between file size &#038; quality</capture-profile>

<capture-profile>Display/Video (Podcast/Vodcast/EchoPlayer). Balanced between file size &#038; quality</capture-profile>

<capture-profile>Display/Video (Podcast/Vodcast/EchoPlayer). Optimized for quality/full motion video</capture-profile>

<capture-profile>Dual Display (Podcast/Vodcast/EchoPlayer). Optimized for file size &#038; bandwidth</capture-profile>

<capture-profile>Dual Video (Podcast/Vodcast/EchoPlayer) - Balance between file size &#038; quality</capture-profile>

<capture-profile>Dual Video (Podcast/Vodcast/EchoPlayer) - High Quality</capture-profile>

<capture-profile>Video Only (Podcast/Vodcast/EchoPlayer). Balanced between file size &#038; quality</capture-profile>

</capture-profiles>

<monitor-profiles>

<monitor-profile>Display/Video (Podcast/Vodcast/EchoPlayer). Balanced between file size &#038; quality</monitor-profile>

</monitor-profiles>

<host-address>echo001404</host-address>

<serial-number>00-1c-08-00-14-04</serial-number>

<system-version>5.4.39512</system-version>

<up-since>2014-02-09T06:33:09.212Z</up-since>

<last-sync>2014-02-12T14:21:08.066Z</last-sync>

<content>

<state>idle</state>

<archive-space-usage />

<uploaded>0</uploaded>

<uploads-pending>0</uploads-pending>

<bytes-pending>0</bytes-pending>

<uploading>false</uploading>

</content>

<log>

<state>idle</state>

<archive-space-usage>37.8</archive-space-usage>

<uploaded>956</uploaded>

<uploads-pending>0</uploads-pending>

<bytes-pending>0</bytes-pending>

<uploading>false</uploading>

</log>

<location>Dulles: Atlantic Blvd, Appliance Dev Miki's SCHD</location>

<utc-offset>-300</utc-offset>

</status>

### Get Capture Status

Returns information on the status of both the next and the current capture.

**Call:** GET {base-uri}/status/captures

**Example:** https://10.3.11.24:8443/status/captures

**CURL Example:** curl --user admin:password –insecure --url https://192.168.61.10:8443/status/captures

**Response XML:** The below table lists and describes the tags included in the Response received from the device.

See [Get Capture Status Response XML](#_Get_Capture_Status_1) in the Appendix of this document for an example XML response for this call.

|  |  |
| --- | --- |
| Device Tags | |
| **wall-clock-time** | GMT Time string from the device |
| **api-versions** | API Version number of the client being communicated with. The current Capture API is version 3.0. |
| **capture-profiles** | The capture profiles able to be captured by the device. These are descriptive text strings that can be used in calls that require capture profile information, such as [Create New Capture](#_Create_New_Capture_1). Capture Profiles appear in the WebUI as a dropdown box for the user to select what type of adhoc capture to run. |
| **next** | A capture data block describing the next scheduled capture (if any), including the information shown for the Capture Tags described below. |
| **current** | A capture data block describing the currently running capture (if any), including the information shown for the Capture Tags described below. |
| Capture Tags | |
| **type** | Type of capture. |
| **start-time** | GMT Time/Date string for when the capture started or is scheduled to start. |
| **duration** | Number of seconds for which the capture is configured to run. |
| **title** | The title of the course being captured. |
| **section** | The section being captured, showing both the GUID and the Section Name. |
| **presenters** | List of presenters for the section, including both the name and GUID or Alternate ID for each presenter. |
| **capture-profile id** | The GUID (unique identifier) for the capture profile configured for this capture. |
| **name** | The plain text name of the capture profile (product group) configured for this capture. The Product Tags shown below identify the specific information about this capture profile inputs. |
| Product Tags | |
| **source name / type** | Identifies each of the capture input sources for the capture profile (product group) being used for the capture. Each source section provides information about each, as identified in the below entries. |
| **audio** | Identifies the below parameters as audio settings |
| **-- source name** | Name given to the source input. |
| **-- input** | Configuration of the input (e.g., balanced) |
| **-- mode** | Channel mode of input: stereo or mono |
| **-- analog-gain** | Setting of the analog gain input |
| **-- samplerate** | The number of samples of audio carried per second |
| **-- gain** | Gain setting of the input |
| **-- agc** | Whether or not automatic gain control is set: true or false. |
| **display** | Identifies the below parameters as display settings |
| **-- source name** | Name given to the source input. |
| **-- channel** | The input channel for this source |
| **-- input** | The input method for the source (i.e., dvi or composite) |
| **-- brightness** | Brightness setting for the source input |
| **-- contrast** | Contrast setting for the source input |
| **-- saturation** | Saturation setting for the source input |
| **-- framerate** | Framerate setting for the source input |
| **-- width** | Width setting of the display resolution |
| **-- height** | Height setting of the display resolution |
| **-- fix-aspect-ratio** | Whether the aspect ratio of the display input is fixed (true or false) |
| **-- is-display** | Identifies whether the input is display or not. Shows **true** if the source is from a display (as from a computer screen); shows **false** if the source is video input. |
| **video** | Identifies the below parameters as video settings |
| **-- source name** | Name given to the source input. |
| **-- channel** | The input channel for this source |
| **-- input** | The input method for the source (i.e., dvi or composite) |
| **-- brightness** | Brightness setting for the source input |
| **-- contrast** | Contrast setting for the source input |
| **-- saturation** | Saturation setting for the source input |
| **-- framerate** | Framerate setting for the source input |
| **-- width** | Width setting of the display resolution |
| **-- height** | Height setting of the display resolution |
| **-- fix-aspect-ratio** | Whether the aspect ratio of the display input is fixed (true or false) |
| **-- is-display** | Identifies whether the input is display or not. Shows **false** if the source is from a video input; shows **true** if the source is from a display. |
| **-- standard** | Identifies the video standard being used for the input, either NTSC or PAL. |
| Transformation to Output Tags | |
| **transform name / type** | Identifies the name and type given to the output stream being generated. |
| **input** | Identifies which source input this transformed output is being generated for. |
| **codec** | The type of encoding being used for this output. |
| **encode-on-host** | Whether the encoding is being done on the host device. |
| **codec-parameters** | Identifies the below tags as the parameters for the encoding for this output. Some/All of the below tags may appear, depending on the type of output file being generated (based on input type). |
| **-- bitrate-control** | Identifies the control mechanism being used for bitrate settings. |
| **-- bitrate** | Identifies the bitrate for the output file |
| **-- max-bitrate** | Identifies the maximum possible bitrate for the output file. |
| **-- profile** | The codec profile being used for the transformed output, i.e., 1c for audio or base for video. |
| **-- frames-per-keyframe** | Number of frames per interval for the output. |
| **sink-name** | Identifies the final output being created for each transformed input, including the tag information below. |
| **-- input** | The transform name being used to generate this final output file. |
| **-- output <type>** | The type of item being generated as output. |
| **-- output <filename>** | The actual filename of the output file being generated for this transformed input stream. |

### Get Next Capture Status

Returns information on the status of only the next capture.

**Call:** GET {base-uri}/status/next\_capture

**Example:** https://10.3.11.24:8443/status/next\_captures

**CURL Example:** curl --user admin:password –insecure --url https://192.168.61.10:8443/status/next\_capture

**Response XML:** Refer to the tags defined in the table in [section 3.1.2 above](#_Get_Capture_Status) for details on the information returned for this call.

For an example XML response for this call, see [Get Next Capture Status Response XML](#_Get_Next_Capture) in the Appendix of this document.

### Get Current Capture Status

Returns information on the status of only the current capture.

**Call:** GET {base-uri}/status/current\_capture

**Example:** https://10.3.11.24:8443/status/current\_capture

**CURL Example:** curl --user admin:password –insecure --url https://192.168.61.10:8443/status/current\_capture

**Response XML:** Refer to the tags defined in the table in [section 3.1.2 above](#_Get_Capture_Status) for details on the information returned for this call.

For an example XML response for this call, see [Get Current Capture Status Response XML](#_Get_Current_Capture) in the Appendix of this document.

### Get Capture Status with Monitoring Information

Returns real-time monitoring information on the current capture. This call is useful for returning the filename for a thumbnail (display or video) to use in the [Show Current Video or Display View](#_Show_Current_Video) API call described in [section 3.1.6 below](#_Show_Current_Video_1).

**Call:** GET {base-uri}/status/monitoring

**Example:** https://10.3.11.24:8443/status/monitoring

**CURL Example:** curl --user admin:password –insecure --url https://192.168.61.10:8443/status/monitoring

The Response XML includes the information outlined in the below table. An example is provided below the table.

|  |  |
| --- | --- |
| Capture Status Tags | |
| **state** | State of the current capture, e.g., active or pending. |
| **start-time** | GMT Time/Date string for when the capture started or is scheduled to start. |
| **duration** | Number of seconds for which the capture is configured to run. |
| **output-type** | The type of output being generated for this capture. This indicates if the output is to be streamed live, archived (made into an echo), or both. |
| Source Tags | |
| **class** | Identifies the source input to which the subsequent parameters apply (audio, video, vga, etc.). These tags are described below and some/all of these tags appear, depending on the class identified. |
| **subclass** | Subclass of the class/source identified (e.g., pcm, display, video). |
| **name** | Name of the input stream of the class/source. |
| **signal-present** | Boolean value identifying if there is a signal present during capture (true or false) |
| **thumbnail** | The file name of the thumbnail image of the capture input (display or video). This is the filename that can be used in the [Show Current Video or Display View](#_Show_Current_Video) API call described in [section 3.1.6 below](#_Show_Current_Video_1). |
| **format** | Format of the source. |
| **channels** | Audio channel information including:   * **position**: audio position (right or left) * **average**: average audio level * **peak**: peak audio level. |
| **confidence-monitoring** | Whether the capture input is being monitored: true or false. |

**Response XML:**

<status>

<state>active</state>

<start-time>2014-02-12T15:33:12.000Z</start-time>

<duration>900</duration>

<output-type>archive</output-type>

<sources>

<source>

<class>audio</class>

<subclass>pcm</subclass>

<name>audio-stream0</name>

<signal-present>false</signal-present>

<format>pcm</format>

<supported>true</supported>

<channels>

<channel>

<position>left</position>

<average>1</average>

<peak>5</peak>

</channel>

<channel>

<position>right</position>

<average>1</average>

<peak>5</peak>

</channel>

</channels>

</source>

<source>

<class>vga</class>

<subclass>display</subclass>

<name>graphics-channel1-stream0</name>

<signal-present>false</signal-present>

<thumbnail>vga\_display\_graphics-channel1-stream0.jpg</thumbnail>

</source>

<source>

<class>video</class>

<subclass>ntsc</subclass>

<name>graphics-channel2-stream0</name>

<signal-present>false</signal-present>

<thumbnail>video\_ntsc\_graphics-channel2-stream0.jpg</thumbnail>

</source>

</sources>

<confidence-monitoring>true</confidence-monitoring>

</status>

### Show Current Video or Display View

Returns a snapshot image of the video or display input for the current capture. This is an image of what the Video input or Display input for the current capture is at the moment the call is made.

Use the filename information returned from the [Get Capture Status](#_Get_Capture_Status_2) call described in [section 3.1.5](#_Get_Capture_Status_3) immediately above.

**Request:** Provide data for each of the parameters described in the below table.

|  |  |
| --- | --- |
| Parameter | Description |
| duration | How long, in seconds, the capture is to be. |
| capture\_profile\_name | The capture profile name or Product Group output to be used for the capture. The options available for the device can be obtained from the <capture-profiles> returned using the [Get System Status](#_Get_System_Status_1) call described in [section 3.1.1](#_Get_System_Status) of this document. |
| description | A string that provides a name for the capture. |

**Call:**

**Video:** GET {base-uri}/monitoring/{filename-of-Video-Snapshot.jpg}

**Display:** GET {base-uri}/monitoring/{filename-of-Display-Snapshot.jpg}

**Example:** https://10.3.11.24:8443/monitoring video\_ntsc\_graphics-channel2-stream0.jpg

**CURL Examples:**

**Video:** curl --user admin:password --insecure --data 'duration=900&capture\_profile\_name=Display/Video (Podcast/Vodcast/EchoPlayer). Optimized for quality/full motion video&description=test-description' --url https://192.168.61.10:8443/monitoring/video\_ntsc\_graphics-channel2-stream0.jpg

**Display:** curl --user admin:password --insecure --data 'duration=900&capture\_profile\_name=Display/Video (Podcast/Vodcast/EchoPlayer). Optimized for quality/full motion video&description=test-description' --url https://192.168.61.10:8443/monitoring/vga\_display\_graphics-channel1-stream0.jpg

**Response: Returns the image captured from the video or display input, depending on which call was made.**

### Get User Sections

Returns a list of the sections assigned to the user whose credentials (username and password) are sent with the API call. Response includes both Section Name and GUID along with the capture profile configured for each section.

**Call:** GET {base-uri}/status/get\_user\_sections

**Example:** https://10.3.11.24:8443/status/get\_user\_sections

**CURL Example:** curl --user instructor:password –insecure --url https://192.168.61.10:8443/status/get\_user\_sections

**Response XML:**

**<sections>**

**<section ref="ec7a622a-da43-4a31-897f-841ea192f63d">**

**<name>Underwater Basket Weaving 101 (UWBW-101-100) Spring 2014</name>**

**<capture-profile ref="74156b84-8edb-4016-a597-35abc0c1c486">Display Only (Podcast/Vodcast/EchoPlayer). Balanced between file size &#038; quality</capture-profile>**

**<products /> </section>**

**</sections>**

### Get Authenticated User Reference ID

Returns the user reference ID (GUID) of the user whose credentials (username and password) are sent with the API call.

**Call:** GET {base-uri}/status/get\_user\_ref

**Example:** https://10.3.11.24:8443/status/get\_user\_ref

**CURL Example:** curl --user admin:password –insecure --url https://192.168.61.10:8443/status/get\_user\_ref

**Response XML:**

**<authenticated-user-ref>9d56966e-3b39-4e26-b0f4-58bebc3ec4de</authenticated-user-ref>**

## Diagnostics API Calls

The API calls identified below retrieve and perform diagnostic and maintenance duties for the capture device identified in the call. This section includes log retrieval calls.

The API calls in this section can only be performed by an Administrator.

### Clear User Cache

Clears the user cache on the device.

Generally speaking, most Capture API calls can be performed by either “local users”, such as an admin or instructor, or ESS users, such as capture devices. When a user accesses any of the capture API calls, the user is authenticated against the ESS. The API sends the credentials to the ESS and the ESS responds to the API indicating authentication (or failure) for the user. This process can take some time, so it is not done for every call. Instead, whenever successful ESS user authentication occurs, the API caches the user credentials and validates against that, speeding up response time. However, if an ESS administrator changes a user’s password, deletes an account or a device, or other similar action, the Capture API has no way of knowing. In this instance, the admin can either, reset/power cycle the capture device, or use this API call to force clear the cache.

**Call:** POST {base-uri}/diagnostics/clear\_cache

**Example:** https://10.3.11.24:8443/diagnostics/clear\_cache

**CURL Example:** curl --user admin:password --insecure --url https://192.168.61.10:8443/diagnostics/clear\_cache

**Response:**

**User Cache Cleared Successfully.**

### Ping Host Connectivity

Test the connectivity of a host or an IP using the ping utility.

**Call:** POST {base-uri}/diagnostics/ping/www.google.com

**Example:** https://10.3.11.24:8443/diagnostics/ping/www.google.com

**CURL Example:** curl --user admin:password --insecure --url https://192.168.61.10:8443/diagnostics/ping/www.google.com

**Response:**

**Ping successful: www.google.com**

### Trace Route Path and Time

Returns the route path and transit time of a host on an IP.

**Call:** POST {base-uri}/diagnostics/traceroute/www.google.com

**Example:** https://10.3.11.24:8443/diagnostics/traceroute/www.google.com

**CURL Example:** curl --user admin:password --insecure --url https://192.168.61.10:8443/diagnostics/traceroute/www.google.com

**Response:**

traceroute to www.google.com (74.125.228.83), 30 hops max, 60 byte packets<br/> 1 pfsense.echo360.local (192.168.60.1) 0.089 ms<br/> 2 10.3.10.1 (10.3.10.1) 0.833 ms<br/> 3 74.10.95.1 (74.10.95.1) 3.005 ms<br/> 4 205.232.184.113 (205.232.184.113) 3.108 ms<br/> 5 ge-0-0-0-1-12.tycrva03h00cr01.paetec.net (169.130.97.8) 6.002 ms<br/> 6 so-1-0-1.asbnvacyh43ig02.paetec.net (169.130.80.37) 91.006 ms<br/> 7 ge-5-0-0.asbnvacyh43ig02.paetec.net (209.252.156.18) 3.193 ms<br/> 8 eqixva-google-gige.google.com (206.126.236.21) 4.374 ms<br/> 9 209.85.252.46 (209.85.252.46) 5.911 ms<br/>10 72.14.238.247 (72.14.238.247) 6.345 ms<br/>11 iad23s07-in-f19.1e100.net (74.125.228.83) 6.058 ms<br/>

### Restart Appliance Executables

Restarts all of the appliance executables.

**Call:** POST {base-uri}/diagnostics/restart\_all

**Example:** https://10.3.11.24:8443/diagnostics/restart\_all

**CURL Example:** curl --user admin:password --insecure --url https://192.168.61.10:8443/diagnostics/restart\_all

**Response:**

**Restarting appliance executables...**

### Reboot Appliance

Performs a soft reboot of the appliance.

**Call:** POST {base-uri}/diagnostics/reboot

**Example:** https://10.3.11.24:8443/diagnostics/reboot

**CURL Example:** curl --user admin:password --insecure --url https://192.168.61.10:8443/diagnostics/reboot

**Response:**

**Rebooting appliance ...**

### Get Appliance Network Configuration

Returns the network configuration for the appliance.

**Call:** GET {base-uri}/diagnostics/system-info/ifconfig

**Example:** https://10.3.11.24:8443/diagnostics/system-info/ifconfig

**CURL Example:** curl --user admin:password --insecure --url https://192.168.61.10:8443/diagnostics/system-info/ifconfig

**Response:**

**<pre>eth0 Link encap:Ethernet HWaddr 00:1c:08:00:14:04**

**inet addr:192.168.61.10 Bcast:192.168.63.255 Mask:255.255.252.0**

**inet6 addr: fe80::21c:8ff:fe00:1404/64 Scope:Link**

**UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1**

**RX packets:5672 errors:0 dropped:0 overruns:0 frame:0**

**TX packets:5698 errors:0 dropped:0 overruns:0 carrier:0**

**collisions:0 txqueuelen:1000**

**RX bytes:914158 (892.7 KiB) TX bytes:1240932 (1.1 MiB)**

**Interrupt:19 Base address:0xa000**

**lo Link encap:Local Loopback**

**inet addr:127.0.0.1 Mask:255.0.0.0**

**inet6 addr: ::1/128 Scope:Host**

**UP LOOPBACK RUNNING MTU:16436 Metric:1**

**RX packets:558 errors:0 dropped:0 overruns:0 frame:0**

**TX packets:558 errors:0 dropped:0 overruns:0 carrier:0**

**collisions:0 txqueuelen:0**

**RX bytes:80582 (78.6 KiB) TX bytes:80582 (78.6 KiB)**

**tun0 Link encap:UNSPEC HWaddr 00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00**

**inet addr:172.25.10.10 P-t-P:172.25.11.11 Mask:255.255.255.255**

**UP POINTOPOINT RUNNING NOARP MULTICAST MTU:1500 Metric:1**

**RX packets:14 errors:0 dropped:0 overruns:0 frame:0**

**TX packets:18 errors:0 dropped:0 overruns:0 carrier:0**

**collisions:0 txqueuelen:500**

**RX bytes:1264 (1.2 KiB) TX bytes:1680 (1.6 KiB)**

**tun1 Link encap:UNSPEC HWaddr 00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00**

**inet addr:172.25.20.20 P-t-P:172.25.22.22 Mask:255.255.255.255**

**UP POINTOPOINT RUNNING NOARP MULTICAST MTU:1500 Metric:1**

**RX packets:14 errors:0 dropped:0 overruns:0 frame:0**

**TX packets:18 errors:0 dropped:0 overruns:0 carrier:0**

**collisions:0 txqueuelen:500**

**RX bytes:1264 (1.2 KiB) TX bytes:1680 (1.6 KiB)**

**</pre>**

### Get Appliance Tasks

Returns the current tasks file for the appliance. The task file is basically a list of the currently scheduled captures (tasks) for the device.

**Call:** GET {base-uri}/diagnostics/system-info/tasks

**Example:** https://10.3.11.24:8443/diagnostics/system-info/tasks

**CURL Example:** curl --user admin:password --insecure --url https://192.168.61.10:8443/diagnostics/system-info/tasks

**Response XML:** For an example XML response for this call, see [Get Appliance Tasks Response XML](#_Get_Appliance_Tasks) in the Appendix of this document.

### Get Device Configuration File

Returns the contents of the device XML file for the appliance.

**Call:** GET {base-uri}/diagnostics/system-info/device

**Example:** https://10.3.11.24:8443/diagnostics/system-info/device

**CURL Example:** curl --user admin:password --insecure --url https://192.168.61.10:8443/diagnostics/system-info/device

**Response XML:** For an example XML response for this call, see [Get Device Configuration File Response XML](#_Get_Device_Configuration) in the Appendix of this document.

### Get Device Processes

Returns a list of the processes currently running on the appliance.

**Call:** GET {base-uri}/diagnostics/system-info/top

**Example:** https://10.3.11.24:8443/diagnostics/system-info/top

**CURL Example:** curl --user admin:password --insecure --url https://192.168.61.10:8443/diagnostics/system-info/top

**Response XML:** For an example XML response for this call, see [Get Device Processes Response XML](#_Get_Device_Processes) in the Appendix of this document.

### Get Device Message Buffer

Returns the message buffer of the appliance kernel.

**Call:** GET {base-uri}/diagnostics/system-info/dmesg

**Example:** https://10.3.11.24:8443/diagnostics/system-info/dmesg

**CURL Example:** curl --user admin:password --insecure --url https://192.168.61.10:8443/diagnostics/system-info/dmesg

**Response:** For an example XML response for this call, see [Get Device Message Buffer Response XML](#_Get_Device_Message) in the Appendix of this document.

### Get Saved Content on the Device

Returns a list of all saved content on the device. Can be used to determine if recovery of a capture is necessary, and if so, to obtain the capture ID of the capture to be re-uploaded.

**Call:** GET {base-uri}/diagnostics/recovery/saved-content

**Example:** https://10.3.11.24:8443/diagnostics/recovery/saved-content

**CURL Example:** curl --user admin:password --insecure --url https://192.168.61.10:8443/diagnostics/recovery/saved-content

**Response XML:**

<captures>

<capture version="1.0" id="0797b8dd-4c2d-415a-adf9-daf7f10e1759">

<title>Underwater Basket Weaving 101 (UWBW-101-100) Spring 2014</title>

<start-time>2014-02-12T15:30:00.000Z</start-time>

<duration>3000</duration>

<section ref="ec7a622a-da43-4a31-897f-841ea192f63d">Underwater Basket Weaving 101 (UWBW-101-100) Spring 2014</section>

<capture-profile ref="74156b84-8edb-4016-a597-35abc0c1c486" />

<presenters>

<presenter ref="9d56966e-3b39-4e26-b0f4-58bebc3ec4de">John Doe</presenter>

</presenters>

<device ref="00-1c-08-00-14-04" />

</capture></captures>

### Re-Upload Content from the Device to the ESS

Reuploads saved content from the device to the ESS. Use the capture ID returned from the [Get Saved Content on the Device](#_Get_Saved_Content_1) call identified in [section 3.2.11 above](#_Get_Saved_Content) to identify the capture to upload and obtain the capture ID.

**Call:** POST {base-uri}/diagnostics/{capture-id}/upload

**Example:** https://10.3.11.24:8443/diagnostics/{capture-id}/upload

**CURL Example:** curl --user admin:password --insecure --url https://192.168.61.10:8443/diagnostics/recovery/0797b8dd-4c2d-415a-adf9-daf7f10e1759/upload

**Response:**

**<HTML><HEAD><TITLE>200 OK</TITLE></HEAD><BODY><H4>200 OK</H4>**

**Successfully moved 0797b8dd-4c2d-415a-adf9-daf7f10e1759**

**</BODY></HTML>**

### Retrieve the Last X Number of Log Messages

Returns the last x number of log messages specified in the call.

**Call:** GET {base-uri}/log-list-last-count/{#}

**Example:** https://10.3.11.24:8443/log-list-last-count/3

**CURL Example:** curl --user admin:password --insecure --url https://192.168.61.10:8443/log-list-last-count/3

**Response:**

<log-entries>

<log-entry>

<![CDATA[ch2: Composite='none\_idle' DVI='none\_idle' VGA='none\_idle'

level: Stats

message: "Channel 2: Composite='none\_idle' DVI='none\_idle' VGA='none\_idle'"

pid: 23106

service: SystemStatus

source-file: src/SystemStatusService.cpp:335

type: SystemStatusService

version: 5.4.39512

when: 2014-02-12T17:37:52.365Z

who: echo001404

]]>

</log-entry>

<log-entry>

<![CDATA[ch1: Composite='none\_idle' DVI='none\_idle' VGA='none\_idle'

level: Stats

message: "Channel 1: Composite='none\_idle' DVI='none\_idle' VGA='none\_idle'"

pid: 23106

service: SystemStatus

source-file: src/SystemStatusService.cpp:332

type: "SystemStatusService: "

version: 5.4.39512

when: 2014-02-12T17:37:52.365Z

who: echo001404

]]>

</log-entry>

<log-entry>

<![CDATA[level: Stats

message: "Temperature: Congatec Board: 46.0 C"

pid: 23106

service: SystemStatus

source-file: src/SystemStatusService.cpp:251

temp: 46.0

type: SystemTemperature

version: 5.4.39512

when: 2014-02-12T17:37:52.364Z

who: echo001404

]]>

</log-entry>

</log-entries>

## Capture Control API Calls

The API calls described below are used to create and manipulate captures performed by the capture device identified in the call.

### Create New Capture

Creates and starts a new ad-hoc capture using the parameters described in the table below. All parameters must be defined.

**Call:** POST {base-uri}/capture/new\_capture

**Http Request header:** Content-Type=application/xml

**Request:** Provide data for each of the parameters described in the below table.

|  |  |
| --- | --- |
| Parameter | Description |
| duration | How long, in seconds, the capture is to be. |
| capture\_profile\_name | The capture profile name or Product Group output to be used for the capture. The options available for the device can be obtained from the <capture-profiles> returned using the [Get System Status](#_Get_System_Status_2) call described in [section 3.1.1](#_Get_System_Status) of this document. |
| description | A string that provides a name for the capture. |

**CURL Example:** curl --user admin:password --insecure --data 'duration=300&capture\_profile\_name=Display/Video (Podcast/Vodcast/EchoPlayer). Optimized for quality/full motion video&description=test-description' --url https://192.168.61.10:8443/capture/new\_capture

**Response:**

<ok text="Capture scheduled for start" />

### Create “Confidence Monitor” Capture

Creates and starts a new ad-hoc “confidence monitor” capture, providing monitoring of the capture. All parameters, described in the below table, must be defined.

A confidence monitor is a dummy capture that does not get archived, sent to the ESS, or saved in any way. In all other regards. this call functions the same as a “new\_capture” call described immediately above.

If you want to confirm a real capture will work, use the [Show Current Video or Display View](#_Show_Current_Video_2) call described in [section 3.1.6 above](#_Show_Current_Video_3).

**Call:** POST {base-uri}/capture/confidence\_monitor

**Http Request header:** Content-Type=application/xml

**Request:** Provide data for each of the parameters described in the below table.

|  |  |
| --- | --- |
| Parameter | Description |
| duration | How long, in seconds, the capture is to be. |
| capture\_profile\_name | The capture profile name or Product Group output to be used for the capture. The options available for the device can be obtained from the <capture-profiles> returned using the [Get System Status](#_Get_System_Status_3) call described in [section 3.1.1](#_Get_System_Status) of this document. |
| description | A string that provides a name for the capture. |

**CURL Example:** curl --user admin:password --insecure --data 'duration=900&capture\_profile\_name=Display/Video (Podcast/Vodcast/EchoPlayer). Optimized for quality/full motion video&description=test-description' --url https://192.168.61.10:8443/capture/confidence\_monitor

**Response:**

<ok text="Capture scheduled for start" />

### Extend a Capture

Sends a command to extend the current capture by the amount of time, in seconds, provided in the *duration* parameter. Captures cannot be extended past the start time of the next scheduled capture.

If the capture cannot be extended for the duration identified, the capture will be extended as far as possible within the given schedule constraints.

**Call:** POST {base-uri}/capture/extend

**Http Request header:** Content-Type=application/xml

**Request: Provide duration of extension in number of sections. For example, *duration=600* extends the capture by 10 minutes.**

**CURL Example:** curl --user admin:password --insecure --data 'duration=600' --url https://192.168.61.10:8443/capture/extend

**Response:**

<ok text="Extend by 600 seconds received" />

### Pause a Capture

Sends a command to pause the current recording. There must be a running capture in the recording state for this command to have any effect.

**Call:** POST {base-uri}/capture/pause

**CURL Example:** curl --user admin:password --insecure --data '' --url https://192.168.61.10:8443/capture/pause

**Response:**

<ok text="Command (pause) submitted" />

### Start or Resume a Capture

Sends a command to start recording. This command only works under following two conditions:

* There is a running capture that is currently paused. This command resumes the paused capture.
* There is a scheduled capture in the “waiting“ or pre-roll state. This command allows you to start the scheduled recording early/immediately.

**Call:** POST {base-uri}/capture/record

**CURL Example:** curl --user admin:password --insecure --data '' --url https://192.168.61.10:8443/capture/record

**Response:**

<ok text="Command (record) submitted" />

### Stop a Capture

Sends the command to stop recording. There must be a currently recording capture for this command to have any effect. NOTE that captures are processed and uploaded immediately upon stopping the capture.

**Call:** POST {base-uri}/capture/stop

**CURL Example:** curl --user admin:password --insecure --data '' --url https://192.168.61.10:8443/capture/stop

**Response:**

<ok text="Command (stop) submitted" />

Appendix: Response XML Examples

The Response XML from calls in this document that are too long to include in the main part of the text are contained here in this appendix. Each section contains a cross-reference link to the corresponding Response XML listed here.

## Get Capture Status Response XML

The below is the Response XML from the call defined in [section 3.1.2 - Get Capture Status](#_Get_Capture_Status_4) of this document.

<status>

<wall-clock-time>2014-02-12T15:02:19.037Z</wall-clock-time>

<api-versions>

<api-version>3.0</api-version>

</api-versions>

<capture-profiles>

<capture-profile>Audio Only (Podcast). Balanced between file size &#038; quality</capture-profile>

<capture-profile>Display Only (Podcast/Vodcast/EchoPlayer). Balanced between file size &#038; quality</capture-profile>

<capture-profile>Display/Video (Podcast/Vodcast/EchoPlayer). Balanced between file size &#038; quality</capture-profile>

<capture-profile>Display/Video (Podcast/Vodcast/EchoPlayer). Optimized for quality/full motion video</capture-profile>

<capture-profile>Dual Display (Podcast/Vodcast/EchoPlayer). Optimized for file size &#038; bandwidth</capture-profile>

<capture-profile>Dual Video (Podcast/Vodcast/EchoPlayer) - Balance between file size &#038; quality</capture-profile>

<capture-profile>Dual Video (Podcast/Vodcast/EchoPlayer) - High Quality</capture-profile>

<capture-profile>Video Only (Podcast/Vodcast/EchoPlayer). Balanced between file size &#038; quality</capture-profile>

</capture-profiles>

<monitor-profiles>

<monitor-profile>Display/Video (Podcast/Vodcast/EchoPlayer). Balanced between file size &#038; quality</monitor-profile>

</monitor-profiles>

<next>

<type>media</type>

<start-time>2014-02-12T23:00:00.000Z</start-time>

<duration>3000</duration>

<parameters>

<title>Underwater Basket Weaving 101 (UWBW-101-100) Spring 2014</title>

<section ref="ec7a622a-da43-4a31-897f-841ea192f63d">Underwater Basket Weaving 101 (UWBW-101-100) Spring 2014</section>

<presenters>

<presenter ref="9d56966e-3b39-4e26-b0f4-58bebc3ec4de">John Doe</presenter>

</presenters>

<capture-profile id="830d7947-0926-487c-8c64-72b06c1de1e4">

<name>Display/Video (Podcast/Vodcast/EchoPlayer). Optimized for quality/full motion video</name>

<output-type>archive</output-type>

<products>

<product>

<source name="audio" type="audio">

<input>balanced</input>

<mode>stereo</mode>

<analog-gain>-6</analog-gain>

<samplerate>44100</samplerate>

<gain>0</gain>

<agc>false</agc>

</source>

<source name="graphics1" type="graphics">

<channel>1</channel>

<input>dvi</input>

<brightness>50</brightness>

<contrast>50</contrast>

<saturation>50</saturation>

<framerate>10.0</framerate>

<width>960</width>

<height>720</height>

<fix-aspect-ratio>true</fix-aspect-ratio>

<is-display>true</is-display>

</source>

<source name="graphics2" type="graphics">

<channel>2</channel>

<input>composite</input>

<brightness>50</brightness>

<contrast>50</contrast>

<saturation>50</saturation>

<framerate>29.97</framerate>

<width>704</width>

<height>480</height>

<fix-aspect-ratio>true</fix-aspect-ratio>

<is-display>false</is-display>

<standard>ntsc</standard>

</source>

<transform name="audio-archive" type="encoder">

<input>audio</input>

<codec>aac</codec>

<encode-on-host>true</encode-on-host>

<codec-parameters>

<bitrate>128000</bitrate>

<profile>lc</profile>

</codec-parameters>

</transform>

<transform name="graphics1-archive" type="encoder">

<input>graphics1</input>

<codec>h264</codec>

<codec-parameters>

<bitrate-control>vbr</bitrate-control>

<bitrate>736000</bitrate>

<max-bitrate>1104000</max-bitrate>

<profile>base</profile>

<frames-per-keyframe>50</frames-per-keyframe>

</codec-parameters>

</transform>

<transform name="graphics2-archive" type="encoder">

<input>graphics2</input>

<codec>h264</codec>

<codec-parameters>

<bitrate-control>vbr</bitrate-control>

<bitrate>1056000</bitrate>

<max-bitrate>1584000</max-bitrate>

<profile>base</profile>

<frames-per-keyframe>150</frames-per-keyframe>

</codec-parameters>

</transform>

<sink name="audio-archive-file">

<input>audio-archive</input>

<output>

<type>file</type>

<filename>audio.aac</filename>

</output>

</sink>

<sink name="graphics1-archive-file">

<input>graphics1-archive</input>

<output>

<type>file</type>

<filename>display.h264</filename>

</output>

</sink>

<sink name="graphics2-archive-file">

<input>graphics2-archive</input>

<output>

<type>file</type>

<filename>video.h264</filename>

</output>

</sink>

</product>

</products>

</capture-profile>

</parameters>

</next><current>

<schedule>

</schedule>

</current>

</status>

## Get Next Capture Status Response XML

The below is the Response XML from the call defined in [section 3.1.3 - Get Next Capture Status](#_Get_Next_Capture_1) of this document.

<status>

<wall-clock-time>2014-02-12T15:24:35.835Z</wall-clock-time>

<api-versions>

<api-version>3.0</api-version>

</api-versions>

<capture-profiles>

<capture-profile>Audio Only (Podcast). Balanced between file size &#038; quality</capture-profile>

<capture-profile>Display Only (Podcast/Vodcast/EchoPlayer). Balanced between file size &#038; quality</capture-profile>

<capture-profile>Display/Video (Podcast/Vodcast/EchoPlayer). Balanced between file size &#038; quality</capture-profile>

<capture-profile>Display/Video (Podcast/Vodcast/EchoPlayer). Optimized for quality/full motion video</capture-profile>

<capture-profile>Dual Display (Podcast/Vodcast/EchoPlayer). Optimized for file size &#038; bandwidth</capture-profile>

<capture-profile>Dual Video (Podcast/Vodcast/EchoPlayer) - Balance between file size &#038; quality</capture-profile>

<capture-profile>Dual Video (Podcast/Vodcast/EchoPlayer) - High Quality</capture-profile>

<capture-profile>Video Only (Podcast/Vodcast/EchoPlayer). Balanced between file size &#038; quality</capture-profile>

</capture-profiles>

<monitor-profiles>

<monitor-profile>Display/Video (Podcast/Vodcast/EchoPlayer). Balanced between file size &#038; quality</monitor-profile>

</monitor-profiles>

<next>

<type>media</type>

<start-time>2014-02-12T23:00:00.000Z</start-time>

<duration>3000</duration>

<parameters>

<title>Underwater Basket Weaving 101 (UWBW-101-100) Spring 2014</title>

<section ref="ec7a622a-da43-4a31-897f-841ea192f63d">Underwater Basket Weaving 101 (UWBW-101-100) Spring 2014</section>

<presenters>

<presenter ref="9d56966e-3b39-4e26-b0f4-58bebc3ec4de">John Doe</presenter>

</presenters>

<capture-profile id="830d7947-0926-487c-8c64-72b06c1de1e4">

<name>Display/Video (Podcast/Vodcast/EchoPlayer). Optimized for quality/full motion video</name>

<output-type>archive</output-type>

<products>

<product>

<source name="audio" type="audio">

<input>balanced</input>

<mode>stereo</mode>

<analog-gain>-6</analog-gain>

<samplerate>44100</samplerate>

<gain>0</gain>

<agc>false</agc>

</source>

<source name="graphics1" type="graphics">

<channel>1</channel>

<input>dvi</input>

<brightness>50</brightness>

<contrast>50</contrast>

<saturation>50</saturation>

<framerate>10.0</framerate>

<width>960</width>

<height>720</height>

<fix-aspect-ratio>true</fix-aspect-ratio>

<is-display>true</is-display>

</source>

<source name="graphics2" type="graphics">

<channel>2</channel>

<input>composite</input>

<brightness>50</brightness>

<contrast>50</contrast>

<saturation>50</saturation>

<framerate>29.97</framerate>

<width>704</width>

<height>480</height>

<fix-aspect-ratio>true</fix-aspect-ratio>

<is-display>false</is-display>

<standard>ntsc</standard>

</source>

<transform name="audio-archive" type="encoder">

<input>audio</input>

<codec>aac</codec>

<encode-on-host>true</encode-on-host>

<codec-parameters>

<bitrate>128000</bitrate>

<profile>lc</profile>

</codec-parameters>

</transform>

<transform name="graphics1-archive" type="encoder">

<input>graphics1</input>

<codec>h264</codec>

<codec-parameters>

<bitrate-control>vbr</bitrate-control>

<bitrate>736000</bitrate>

<max-bitrate>1104000</max-bitrate>

<profile>base</profile>

<frames-per-keyframe>50</frames-per-keyframe>

</codec-parameters>

</transform>

<transform name="graphics2-archive" type="encoder">

<input>graphics2</input>

<codec>h264</codec>

<codec-parameters>

<bitrate-control>vbr</bitrate-control>

<bitrate>1056000</bitrate>

<max-bitrate>1584000</max-bitrate>

<profile>base</profile>

<frames-per-keyframe>150</frames-per-keyframe>

</codec-parameters>

</transform>

<sink name="audio-archive-file">

<input>audio-archive</input>

<output>

<type>file</type>

<filename>audio.aac</filename>

</output>

</sink>

<sink name="graphics1-archive-file">

<input>graphics1-archive</input>

<output>

<type>file</type>

<filename>display.h264</filename>

</output>

</sink>

<sink name="graphics2-archive-file">

<input>graphics2-archive</input>

<output>

<type>file</type>

<filename>video.h264</filename>

</output>

</sink>

</product>

</products>

</capture-profile>

</parameters>

</next></status>

## Get Current Capture Status Response XML

The below is the Response XML from the call defined in [section 3.1.4 - Get Current Capture Status](#_Get_Current_Capture_1) of this document.

<status>

<wall-clock-time>2014-02-12T15:30:12.491Z</wall-clock-time>

<api-versions>

<api-version>3.0</api-version>

</api-versions>

<capture-profiles>

<capture-profile>Audio Only (Podcast). Balanced between file size &#038; quality</capture-profile>

<capture-profile>Display Only (Podcast/Vodcast/EchoPlayer). Balanced between file size &#038; quality</capture-profile>

<capture-profile>Display/Video (Podcast/Vodcast/EchoPlayer). Balanced between file size &#038; quality</capture-profile>

<capture-profile>Display/Video (Podcast/Vodcast/EchoPlayer). Optimized for quality/full motion video</capture-profile>

<capture-profile>Dual Display (Podcast/Vodcast/EchoPlayer). Optimized for file size &#038; bandwidth</capture-profile>

<capture-profile>Dual Video (Podcast/Vodcast/EchoPlayer) - Balance between file size &#038; quality</capture-profile>

<capture-profile>Dual Video (Podcast/Vodcast/EchoPlayer) - High Quality</capture-profile>

<capture-profile>Video Only (Podcast/Vodcast/EchoPlayer). Balanced between file size &#038; quality</capture-profile>

</capture-profiles>

<monitor-profiles>

<monitor-profile>Display/Video (Podcast/Vodcast/EchoPlayer). Balanced between file size &#038; quality</monitor-profile>

</monitor-profiles>

<current>

<schedule>

<type>media</type>

<start-time>2014-02-12T15:30:00.000Z</start-time>

<duration>3000</duration>

<parameters>

<title>Underwater Basket Weaving 101 (UWBW-101-100) Spring 2014</title>

<section ref="ec7a622a-da43-4a31-897f-841ea192f63d">Underwater Basket Weaving 101 (UWBW-101-100) Spring 2014</section>

<presenters>

<presenter ref="9d56966e-3b39-4e26-b0f4-58bebc3ec4de">John Doe</presenter>

</presenters>

<capture-profile id="74156b84-8edb-4016-a597-35abc0c1c486">

<name>Display Only (Podcast/Vodcast/EchoPlayer). Balanced between file size &#038; quality</name>

<output-type>archive</output-type>

<products>

<product>

<source name="audio" type="audio">

<input>balanced</input>

<mode>stereo</mode>

<analog-gain>-6</analog-gain>

<samplerate>44100</samplerate>

<gain>0</gain>

<agc>false</agc>

</source>

<source name="graphics1" type="graphics">

<channel>1</channel>

<input>dvi</input>

<brightness>50</brightness>

<contrast>50</contrast>

<saturation>50</saturation>

<framerate>10.0</framerate>

<width>960</width>

<height>720</height>

<fix-aspect-ratio>true</fix-aspect-ratio>

<is-display>true</is-display>

</source>

<transform name="audio-archive" type="encoder">

<input>audio</input>

<codec>aac</codec>

<encode-on-host>true</encode-on-host>

<codec-parameters>

<bitrate>128000</bitrate>

<profile>lc</profile>

</codec-parameters>

</transform>

<transform name="graphics1-archive" type="encoder">

<input>graphics1</input>

<codec>h264</codec>

<codec-parameters>

<bitrate-control>vbr</bitrate-control>

<bitrate>736000</bitrate>

<max-bitrate>1104000</max-bitrate>

<profile>base</profile>

<frames-per-keyframe>50</frames-per-keyframe>

</codec-parameters>

</transform>

<sink name="audio-archive-file">

<input>audio-archive</input>

<output>

<type>file</type>

<filename>audio.aac</filename>

</output>

</sink>

<sink name="graphics1-archive-file">

<input>graphics1-archive</input>

<output>

<type>file</type>

<filename>display.h264</filename>

</output>

</sink>

</product>

</products>

</capture-profile>

</parameters>

</schedule>

<state>active</state>

<start-time>2014-02-12T15:30:00.000Z</start-time>

<duration>3000</duration>

<output-type>archive</output-type>

<sources>

<source>

<class>audio</class>

<subclass>pcm</subclass>

<name>audio-stream0</name>

<signal-present>false</signal-present>

<format>pcm</format>

<supported>true</supported>

<channels>

<channel>

<position>left</position>

<average>1</average>

<peak>4</peak>

</channel>

<channel>

<position>right</position>

<average>1</average>

<peak>5</peak>

</channel>

</channels>

</source>

<source>

<class>vga</class>

<subclass>display</subclass>

<name>graphics-channel1-stream0</name>

<signal-present>false</signal-present>

<thumbnail>vga\_display\_graphics-channel1-stream0.jpg</thumbnail>

</source>

</sources>

<confidence-monitoring>false</confidence-monitoring>

</current>

</status>

## Get Appliance Tasks Response XML

The below is the Response XML from the call defined in [section 3.2.7 - Get Appliance Tasks](#_Get_Appliance_Tasks_1) of this document.

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

**<tasks version="1.0">**

**<task id="9069c4ec-1e00-4847-a76e-8bd48f69843e">**

**<type>media</type>**

**<start-time>2014-02-12T23:00:00.000Z</start-time>**

**<duration>3000</duration>**

**<serial sid="9069c4ec-1e00-4847-a76e-8bd48f69843e">**

**<step sid="capture">**

**<worker>capture</worker>**

**<priority>high</priority>**

**<parameters>**

**<title>Underwater Basket Weaving 101 (UWBW-101-100) Spring 2014</title>**

**<section ref="ec7a622a-da43-4a31-897f-841ea192f63d">Underwater Basket Weaving 101 (UWBW-101-100) Spring 2014</section>**

**<presenters>**

**<presenter ref="9d56966e-3b39-4e26-b0f4-58bebc3ec4de">John Doe</presenter>**

**</presenters>**

**<capture-profile id="830d7947-0926-487c-8c64-72b06c1de1e4">**

**<name>Display/Video (Podcast/Vodcast/EchoPlayer). Optimized for quality/full motion video</name>**

**<output-type>archive</output-type>**

**<products>**

**<product>**

**<source name="audio" type="audio">**

**<input>balanced</input>**

**<mode>stereo</mode>**

**<analog-gain>-6</analog-gain>**

**<samplerate>44100</samplerate>**

**<gain>0</gain>**

**<agc>false</agc>**

**</source>**

**<source name="graphics1" type="graphics">**

**<channel>1</channel>**

**<input>dvi</input>**

**<brightness>50</brightness>**

**<contrast>50</contrast>**

**<saturation>50</saturation>**

**<framerate>10.0</framerate>**

**<width>960</width>**

**<height>720</height>**

**<fix-aspect-ratio>true</fix-aspect-ratio>**

**<is-display>true</is-display>**

**</source>**

**<source name="graphics2" type="graphics">**

**<channel>2</channel>**

**<input>composite</input>**

**<brightness>50</brightness>**

**<contrast>50</contrast>**

**<saturation>50</saturation>**

**<framerate>29.97</framerate>**

**<width>704</width>**

**<height>480</height>**

**<fix-aspect-ratio>true</fix-aspect-ratio>**

**<is-display>false</is-display>**

**<standard>ntsc</standard>**

**</source>**

**<transform name="audio-archive" type="encoder">**

**<input>audio</input>**

**<codec>aac</codec>**

**<encode-on-host>true</encode-on-host>**

**<codec-parameters>**

**<bitrate>128000</bitrate>**

**<profile>lc</profile>**

**</codec-parameters>**

**</transform>**

**<transform name="graphics1-archive" type="encoder">**

**<input>graphics1</input>**

**<codec>h264</codec>**

**<codec-parameters>**

**<bitrate-control>vbr</bitrate-control>**

**<bitrate>736000</bitrate>**

**<max-bitrate>1104000</max-bitrate>**

**<profile>base</profile>**

**<frames-per-keyframe>50</frames-per-keyframe>**

**</codec-parameters>**

**</transform>**

**<transform name="graphics2-archive" type="encoder">**

**<input>graphics2</input>**

**<codec>h264</codec>**

**<codec-parameters>**

**<bitrate-control>vbr</bitrate-control>**

**<bitrate>1056000</bitrate>**

**<max-bitrate>1584000</max-bitrate>**

**<profile>base</profile>**

**<frames-per-keyframe>150</frames-per-keyframe>**

**</codec-parameters>**

**</transform>**

**<sink name="audio-archive-file">**

**<input>audio-archive</input>**

**<output>**

**<type>file</type>**

**<filename>audio.aac</filename>**

**</output>**

**</sink>**

**<sink name="graphics1-archive-file">**

**<input>graphics1-archive</input>**

**<output>**

**<type>file</type>**

**<filename>display.h264</filename>**

**</output>**

**</sink>**

**<sink name="graphics2-archive-file">**

**<input>graphics2-archive</input>**

**<output>**

**<type>file</type>**

**<filename>video.h264</filename>**

**</output>**

**</sink>**

**</product>**

**</products>**

**</capture-profile>**

**</parameters>**

**</step>**

**</serial>**

**</task>**

**<signature>HmacSHA256:409b812354c00fab7008a77db243f0258cb2b57fc5f2934a3e565d13391628d8</signature>**

**</tasks>**

## Get Device Configuration File Response XML

The below is the Response XML from the call defined in [section 3.2.8 - Get Device Configuration File](#_Get_Device_Configuration_1) of this document.

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

<device id="1477690a-65b1-49ba-9b58-9e01f4df6dc0" version="1.0">

<key>00-1c-08-00-14-04</key>

<utc-offset>-300</utc-offset>

<location ref="3b511626-4ab9-424d-a762-2a1da1478ddb">Dulles: Atlantic Blvd, Appliance Dev Miki's SCHD</location>

<management-server ref="8804b51d-8186-4fdd-bc76-c958feeb7308">

<address>https://appl-ess1.echo360.local:8443/ess</address>

</management-server>

<shared-secret>57cc193b34d5c771f8faa5d4d04bdfe93cddc2c53fd8186c104ef427ea3f7b3aa93c6c2fe2e1d0e8</shared-secret>

<device-xml-uri>https://appl-ess1.echo360.local:8443/ess/restapi/v1/devices/generic/services/task\_manager/files/device.xml?time={seconds}</device-xml-uri>

<network>

<dhcp>true</dhcp>

<ntp-servers>

<ntp-server>0.echo360.pool.ntp.org</ntp-server>

<ntp-server>1.echo360.pool.ntp.org</ntp-server>

<ntp-server>2.echo360.pool.ntp.org</ntp-server>

<ntp-server>3.echo360.pool.ntp.org</ntp-server>

</ntp-servers>

</network>

<services>

<service>

<name>adhoc\_control</name>

<version>5.4.39512</version>

<command>echo\_adhoc\_control</command>

<background-service>true</background-service>

<files>

<file>

<name>echo\_adhoc\_control</name>

<category>worker</category>

<uri>https://appl-ess1.echo360.local:8443/ess/restapi/v1/devices/00-1c-08-00-14-04/services/adhoc\_control/files/echo\_adhoc\_control/linux.32/x86/5.4.39512/SHA-256%3A1a0bb157f8fc011a6964d299be4cab7bcaf67bfb69983091994d4dd30a044ed4?time={seconds}&amp;signature={hmac}</uri>

<hash>SHA-256:1a0bb157f8fc011a6964d299be4cab7bcaf67bfb69983091994d4dd30a044ed4</hash>

</file>

<file>

<name>ca-bundle.crt</name>

<category>static-config</category>

<uri>https://appl-ess1.echo360.local:8443/ess/restapi/v1/devices/00-1c-08-00-14-04/services/adhoc\_control/files/ca-bundle.crt/linux.32/x86/5.4.39512/SHA-256%3Adfd44974d7d9a1873e0166e0bd44d6966ca7644c3ea7db3f672adbb67688008c?time={seconds}&amp;signature={hmac}</uri>

<hash>SHA-256:dfd44974d7d9a1873e0166e0bd44d6966ca7644c3ea7db3f672adbb67688008c</hash>

</file>

<file>

<name>device\_server.pem</name>

<category>static-config</category>

<uri>https://appl-ess1.echo360.local:8443/ess/restapi/v1/devices/00-1c-08-00-14-04/services/adhoc\_control/files/device\_server.pem/linux.32/x86/5.4.39512/SHA-256%3A85eb56889d705db164bfbaa65d9fde7375ebc4b24807d082a827066bc1794d83?time={seconds}&amp;signature={hmac}</uri>

<hash>SHA-256:85eb56889d705db164bfbaa65d9fde7375ebc4b24807d082a827066bc1794d83</hash>

</file>

<file>

<name>requests.xml</name>

<category>worker</category>

<uri>https://appl-ess1.echo360.local:8443/ess/restapi/v1/devices/00-1c-08-00-14-04/services/adhoc\_control/files/requests.xml/linux.32/x86/5.4.39512/SHA-256%3Ab4d1f5c94125a9fc50ad9868fe27447aecdc8c8f69eb8ef2b97af7166b7a96f8?time={seconds}&amp;signature={hmac}</uri>

<hash>SHA-256:b4d1f5c94125a9fc50ad9868fe27447aecdc8c8f69eb8ef2b97af7166b7a96f8</hash>

</file>

<file>

<name>users.xml</name>

<category>worker</category>

<uri>https://appl-ess1.echo360.local:8443/ess/restapi/v1/devices/00-1c-08-00-14-04/services/adhoc\_control/files/users.xml/linux.32/x86/latest/SHA-256%3A1408ed99ba8fe48088fa2dd09b9af0ded3b62730b1b6451de8655a4faf425501?time={seconds}&amp;signature={hmac}</uri>

<hash>SHA-256:1408ed99ba8fe48088fa2dd09b9af0ded3b62730b1b6451de8655a4faf425501</hash>

</file>

<file>

<name>webcontent.zip</name>

<category>worker</category>

<uri>https://appl-ess1.echo360.local:8443/ess/restapi/v1/devices/00-1c-08-00-14-04/services/adhoc\_control/files/webcontent.zip/linux.32/x86/5.4.39512/SHA-256%3Ad2372bbb6e9d1ed53a98fc3076d02627bf3d6d7b6bf69f5cb911a8e818c482b8?time={seconds}&amp;signature={hmac}</uri>

<hash>SHA-256:d2372bbb6e9d1ed53a98fc3076d02627bf3d6d7b6bf69f5cb911a8e818c482b8</hash>

</file>

</files>

<upload-info-uri>https://appl-ess1.echo360.local:8443/ess/restapi/v1/devices/00-1c-08-00-14-04/adHocUploadInfo/pro-hardware-capture/linux.32/x86/unknown?token={authToken}&amp;size=0</upload-info-uri>

<allowed-http-clients>

<allowed-http-client>\*.\*.\*.\*</allowed-http-client>

</allowed-http-clients>

<port>8443</port>

<http-access>false</http-access>

</service>

<service>

<name>capture</name>

<version>5.4.39512</version>

<command>echo\_capture</command>

<background-service>false</background-service>

<files>

<file>

<name>echo\_capture</name>

<category>worker</category>

<uri>https://appl-ess1.echo360.local:8443/ess/restapi/v1/devices/00-1c-08-00-14-04/services/capture/files/echo\_capture/linux.32/x86/5.4.39512/SHA-256%3Aa9790fa13816f6d9b69646db9de971bdb0086b13bf29f814c3cf3ff627c69a99?time={seconds}&amp;signature={hmac}</uri>

<hash>SHA-256:a9790fa13816f6d9b69646db9de971bdb0086b13bf29f814c3cf3ff627c69a99</hash>

</file>

<file>

<name>gstreamer-lib.tgz</name>

<category>worker</category>

<uri>https://appl-ess1.echo360.local:8443/ess/restapi/v1/devices/00-1c-08-00-14-04/services/capture/files/gstreamer-lib.tgz/linux.32/x86/5.4.39512/SHA-256%3A5afa32392844cb3caceacd7d11bddc38bba7fe8f7679eb0616580f209b314b98?time={seconds}&amp;signature={hmac}</uri>

<hash>SHA-256:5afa32392844cb3caceacd7d11bddc38bba7fe8f7679eb0616580f209b314b98</hash>

</file>

</files>

<default-parameters>

<capture-profiles>

<capture-profile id="2810f979-cf4a-4495-a47e-08210d0af583">

<name>Audio Only (Podcast). Balanced between file size &amp; quality</name>

<output-type>archive</output-type>

<products>

<product>

<source name="audio" type="audio">

<input>balanced</input>

<mode>stereo</mode>

<analog-gain>-6</analog-gain>

<samplerate>44100</samplerate>

<gain>0</gain>

<agc>false</agc>

</source>

<transform name="audio-archive" type="encoder">

<input>audio</input>

<codec>aac</codec>

<encode-on-host>true</encode-on-host>

<codec-parameters>

<bitrate>128000</bitrate>

<profile>lc</profile>

</codec-parameters>

</transform>

<sink name="audio-archive-file">

<input>audio-archive</input>

<output>

<type>file</type>

<filename>audio.aac</filename>

</output>

</sink>

</product>

</products>

</capture-profile>

<capture-profile id="74156b84-8edb-4016-a597-35abc0c1c486">

<name>Display Only (Podcast/Vodcast/EchoPlayer). Balanced between file size &amp; quality</name>

<output-type>archive</output-type>

<products>

<product>

<source name="audio" type="audio">

<input>balanced</input>

<mode>stereo</mode>

<analog-gain>-6</analog-gain>

<samplerate>44100</samplerate>

<gain>0</gain>

<agc>false</agc>

</source>

<source name="graphics1" type="graphics">

<channel>1</channel>

<input>dvi</input>

<brightness>50</brightness>

<contrast>50</contrast>

<saturation>50</saturation>

<framerate>24.0</framerate>

<width>960</width>

<height>720</height>

<fix-aspect-ratio>true</fix-aspect-ratio>

<is-display>true</is-display>

</source>

<transform name="audio-archive" type="encoder">

<input>audio</input>

<codec>aac</codec>

<encode-on-host>true</encode-on-host>

<codec-parameters>

<bitrate>128000</bitrate>

<profile>lc</profile>

</codec-parameters>

</transform>

<transform name="graphics1-archive" type="encoder">

<input>graphics1</input>

<codec>h264</codec>

<codec-parameters>

<bitrate-control>vbr</bitrate-control>

<bitrate>1768000</bitrate>

<max-bitrate>2656000</max-bitrate>

<profile>base</profile>

<frames-per-keyframe>120</frames-per-keyframe>

</codec-parameters>

</transform>

<sink name="audio-archive-file">

<input>audio-archive</input>

<output>

<type>file</type>

<filename>audio.aac</filename>

</output>

</sink>

<sink name="graphics1-archive-file">

<input>graphics1-archive</input>

<output>

<type>file</type>

<filename>display.h264</filename>

</output>

</sink>

</product>

</products>

</capture-profile>

<capture-profile id="244d88c9-4738-450d-8a50-bab64fa9e468">

<name>Display/Video (Podcast/Vodcast/EchoPlayer). Balanced between file size &amp; quality</name>

<output-type>archive</output-type>

<for-monitoring>true</for-monitoring>

<products>

<product>

<source name="audio" type="audio">

<input>balanced</input>

<mode>stereo</mode>

<analog-gain>-6</analog-gain>

<samplerate>44100</samplerate>

<gain>0</gain>

<agc>false</agc>

</source>

<source name="graphics1" type="graphics">

<channel>1</channel>

<input>dvi</input>

<brightness>50</brightness>

<contrast>50</contrast>

<saturation>50</saturation>

<framerate>10.0</framerate>

<width>960</width>

<height>720</height>

<fix-aspect-ratio>true</fix-aspect-ratio>

<is-display>true</is-display>

</source>

<source name="graphics2" type="graphics">

<channel>2</channel>

<input>composite</input>

<brightness>50</brightness>

<contrast>50</contrast>

<saturation>50</saturation>

<framerate>14.985</framerate>

<width>704</width>

<height>480</height>

<fix-aspect-ratio>true</fix-aspect-ratio>

<is-display>false</is-display>

<standard>ntsc</standard>

</source>

<transform name="audio-archive" type="encoder">

<input>audio</input>

<codec>aac</codec>

<encode-on-host>true</encode-on-host>

<codec-parameters>

<bitrate>128000</bitrate>

<profile>lc</profile>

</codec-parameters>

</transform>

<transform name="graphics1-archive" type="encoder">

<input>graphics1</input>

<codec>h264</codec>

<codec-parameters>

<bitrate-control>vbr</bitrate-control>

<bitrate>736000</bitrate>

<max-bitrate>1104000</max-bitrate>

<profile>base</profile>

<frames-per-keyframe>50</frames-per-keyframe>

</codec-parameters>

</transform>

<transform name="graphics2-archive" type="encoder">

<input>graphics2</input>

<codec>h264</codec>

<codec-parameters>

<bitrate-control>vbr</bitrate-control>

<bitrate>544000</bitrate>

<max-bitrate>816000</max-bitrate>

<profile>base</profile>

<frames-per-keyframe>75</frames-per-keyframe>

</codec-parameters>

</transform>

<sink name="audio-archive-file">

<input>audio-archive</input>

<output>

<type>file</type>

<filename>audio.aac</filename>

</output>

</sink>

<sink name="graphics1-archive-file">

<input>graphics1-archive</input>

<output>

<type>file</type>

<filename>display.h264</filename>

</output>

</sink>

<sink name="graphics2-archive-file">

<input>graphics2-archive</input>

<output>

<type>file</type>

<filename>video.h264</filename>

</output>

</sink>

</product>

</products>

</capture-profile>

<capture-profile id="830d7947-0926-487c-8c64-72b06c1de1e4">

<name>Display/Video (Podcast/Vodcast/EchoPlayer). Optimized for quality/full motion video</name>

<output-type>archive</output-type>

<products>

<product>

<source name="audio" type="audio">

<input>balanced</input>

<mode>stereo</mode>

<analog-gain>-6</analog-gain>

<samplerate>44100</samplerate>

<gain>0</gain>

<agc>false</agc>

</source>

<source name="graphics1" type="graphics">

<channel>1</channel>

<input>dvi</input>

<brightness>50</brightness>

<contrast>50</contrast>

<saturation>50</saturation>

<framerate>24.0</framerate>

<width>960</width>

<height>720</height>

<fix-aspect-ratio>true</fix-aspect-ratio>

<is-display>true</is-display>

</source>

<source name="graphics2" type="graphics">

<channel>2</channel>

<input>composite</input>

<brightness>50</brightness>

<contrast>50</contrast>

<saturation>50</saturation>

<framerate>29.97</framerate>

<width>704</width>

<height>480</height>

<fix-aspect-ratio>true</fix-aspect-ratio>

<is-display>false</is-display>

<standard>ntsc</standard>

</source>

<transform name="audio-archive" type="encoder">

<input>audio</input>

<codec>aac</codec>

<encode-on-host>true</encode-on-host>

<codec-parameters>

<bitrate>128000</bitrate>

<profile>lc</profile>

</codec-parameters>

</transform>

<transform name="graphics1-archive" type="encoder">

<input>graphics1</input>

<codec>h264</codec>

<codec-parameters>

<bitrate-control>vbr</bitrate-control>

<bitrate>1728000</bitrate>

<max-bitrate>2592000</max-bitrate>

<profile>base</profile>

<frames-per-keyframe>120</frames-per-keyframe>

</codec-parameters>

</transform>

<transform name="graphics2-archive" type="encoder">

<input>graphics2</input>

<codec>h264</codec>

<codec-parameters>

<bitrate-control>vbr</bitrate-control>

<bitrate>1056000</bitrate>

<max-bitrate>1584000</max-bitrate>

<profile>base</profile>

<frames-per-keyframe>150</frames-per-keyframe>

</codec-parameters>

</transform>

<sink name="audio-archive-file">

<input>audio-archive</input>

<output>

<type>file</type>

<filename>audio.aac</filename>

</output>

</sink>

<sink name="graphics1-archive-file">

<input>graphics1-archive</input>

<output>

<type>file</type>

<filename>display.h264</filename>

</output>

</sink>

<sink name="graphics2-archive-file">

<input>graphics2-archive</input>

<output>

<type>file</type>

<filename>video.h264</filename>

</output>

</sink>

</product>

</products>

</capture-profile>

<capture-profile id="585f7589-1063-4297-8e87-e8b69cda63dd">

<name>Dual Display (Podcast/Vodcast/EchoPlayer). Optimized for file size &amp; bandwidth</name>

<output-type>archive</output-type>

<products>

<product>

<source name="audio" type="audio">

<input>balanced</input>

<mode>stereo</mode>

<analog-gain>-6</analog-gain>

<samplerate>44100</samplerate>

<gain>0</gain>

<agc>false</agc>

</source>

<source name="graphics1" type="graphics">

<channel>1</channel>

<input>dvi</input>

<brightness>50</brightness>

<contrast>50</contrast>

<saturation>50</saturation>

<framerate>10.0</framerate>

<width>960</width>

<height>720</height>

<fix-aspect-ratio>true</fix-aspect-ratio>

<is-display>true</is-display>

</source>

<source name="graphics2" type="graphics">

<channel>2</channel>

<input>dvi</input>

<brightness>50</brightness>

<contrast>50</contrast>

<saturation>50</saturation>

<framerate>24.0</framerate>

<width>960</width>

<height>720</height>

<fix-aspect-ratio>true</fix-aspect-ratio>

<is-display>true</is-display>

</source>

<transform name="audio-archive" type="encoder">

<input>audio</input>

<codec>aac</codec>

<encode-on-host>true</encode-on-host>

<codec-parameters>

<bitrate>128000</bitrate>

<profile>lc</profile>

</codec-parameters>

</transform>

<transform name="graphics1-archive" type="encoder">

<input>graphics1</input>

<codec>h264</codec>

<codec-parameters>

<bitrate-control>vbr</bitrate-control>

<bitrate>736000</bitrate>

<max-bitrate>1104000</max-bitrate>

<profile>base</profile>

<frames-per-keyframe>50</frames-per-keyframe>

</codec-parameters>

</transform>

<transform name="graphics2-archive" type="encoder">

<input>graphics2</input>

<codec>h264</codec>

<codec-parameters>

<bitrate-control>vbr</bitrate-control>

<bitrate>1568000</bitrate>

<max-bitrate>2352000</max-bitrate>

<profile>base</profile>

<frames-per-keyframe>120</frames-per-keyframe>

</codec-parameters>

</transform>

<sink name="audio-archive-file">

<input>audio-archive</input>

<output>

<type>file</type>

<filename>audio.aac</filename>

</output>

</sink>

<sink name="graphics1-archive-file">

<input>graphics1-archive</input>

<output>

<type>file</type>

<filename>display.h264</filename>

</output>

</sink>

<sink name="graphics2-archive-file">

<input>graphics2-archive</input>

<output>

<type>file</type>

<filename>display2.h264</filename>

</output>

</sink>

</product>

</products>

</capture-profile>

<capture-profile id="5c2042f7-9034-4774-b795-190b6ddeced9">

<name>Dual Video (Podcast/Vodcast/EchoPlayer) - Balance between file size &amp; quality</name>

<output-type>archive</output-type>

<products>

<product>

<source name="audio" type="audio">

<input>balanced</input>

<mode>stereo</mode>

<analog-gain>-6</analog-gain>

<samplerate>22050</samplerate>

<gain>0</gain>

<agc>false</agc>

</source>

<source name="graphics1" type="graphics">

<channel>1</channel>

<input>composite</input>

<brightness>50</brightness>

<contrast>50</contrast>

<saturation>50</saturation>

<framerate>29.97</framerate>

<width>704</width>

<height>480</height>

<fix-aspect-ratio>true</fix-aspect-ratio>

<is-display>false</is-display>

<standard>ntsc</standard>

</source>

<source name="graphics2" type="graphics">

<channel>2</channel>

<input>composite</input>

<brightness>50</brightness>

<contrast>50</contrast>

<saturation>50</saturation>

<framerate>29.97</framerate>

<width>704</width>

<height>480</height>

<fix-aspect-ratio>true</fix-aspect-ratio>

<is-display>false</is-display>

<standard>ntsc</standard>

</source>

<transform name="audio-archive" type="encoder">

<input>audio</input>

<codec>aac</codec>

<encode-on-host>true</encode-on-host>

<codec-parameters>

<bitrate>64000</bitrate>

<profile>lc</profile>

</codec-parameters>

</transform>

<transform name="graphics1-archive" type="encoder">

<input>graphics1</input>

<codec>h264</codec>

<codec-parameters>

<bitrate-control>vbr</bitrate-control>

<bitrate>720000</bitrate>

<max-bitrate>1080000</max-bitrate>

<profile>base</profile>

<frames-per-keyframe>150</frames-per-keyframe>

</codec-parameters>

</transform>

<transform name="graphics2-archive" type="encoder">

<input>graphics2</input>

<codec>h264</codec>

<codec-parameters>

<bitrate-control>vbr</bitrate-control>

<bitrate>1080000</bitrate>

<max-bitrate>1624000</max-bitrate>

<profile>base</profile>

<frames-per-keyframe>150</frames-per-keyframe>

</codec-parameters>

</transform>

<sink name="audio-archive-file">

<input>audio-archive</input>

<output>

<type>file</type>

<filename>audio.aac</filename>

</output>

</sink>

<sink name="graphics1-archive-file">

<input>graphics1-archive</input>

<output>

<type>file</type>

<filename>video2.h264</filename>

</output>

</sink>

<sink name="graphics2-archive-file">

<input>graphics2-archive</input>

<output>

<type>file</type>

<filename>video.h264</filename>

</output>

</sink>

</product>

</products>

</capture-profile>

<capture-profile id="ccc756ef-c12e-4097-975e-4f9e1bafc1a2">

<name>Dual Video (Podcast/Vodcast/EchoPlayer) - High Quality</name>

<output-type>archive</output-type>

<products>

<product>

<source name="audio" type="audio">

<input>balanced</input>

<mode>stereo</mode>

<analog-gain>-6</analog-gain>

<samplerate>44100</samplerate>

<gain>0</gain>

<agc>false</agc>

</source>

<source name="graphics1" type="graphics">

<channel>1</channel>

<input>composite</input>

<brightness>50</brightness>

<contrast>50</contrast>

<saturation>50</saturation>

<framerate>29.97</framerate>

<width>704</width>

<height>480</height>

<fix-aspect-ratio>true</fix-aspect-ratio>

<is-display>false</is-display>

<standard>ntsc</standard>

</source>

<source name="graphics2" type="graphics">

<channel>2</channel>

<input>composite</input>

<brightness>50</brightness>

<contrast>50</contrast>

<saturation>50</saturation>

<framerate>29.97</framerate>

<width>704</width>

<height>480</height>

<fix-aspect-ratio>true</fix-aspect-ratio>

<is-display>false</is-display>

<standard>ntsc</standard>

</source>

<transform name="audio-archive" type="encoder">

<input>audio</input>

<codec>aac</codec>

<encode-on-host>true</encode-on-host>

<codec-parameters>

<bitrate>128000</bitrate>

<profile>lc</profile>

</codec-parameters>

</transform>

<transform name="graphics1-archive" type="encoder">

<input>graphics1</input>

<codec>h264</codec>

<codec-parameters>

<bitrate-control>vbr</bitrate-control>

<bitrate>384000</bitrate>

<max-bitrate>576000</max-bitrate>

<profile>base</profile>

<frames-per-keyframe>150</frames-per-keyframe>

</codec-parameters>

</transform>

<transform name="graphics2-archive" type="encoder">

<input>graphics2</input>

<codec>h264</codec>

<codec-parameters>

<bitrate-control>vbr</bitrate-control>

<bitrate>1080000</bitrate>

<max-bitrate>1624000</max-bitrate>

<profile>base</profile>

<frames-per-keyframe>150</frames-per-keyframe>

</codec-parameters>

</transform>

<sink name="audio-archive-file">

<input>audio-archive</input>

<output>

<type>file</type>

<filename>audio.aac</filename>

</output>

</sink>

<sink name="graphics1-archive-file">

<input>graphics1-archive</input>

<output>

<type>file</type>

<filename>video2.h264</filename>

</output>

</sink>

<sink name="graphics2-archive-file">

<input>graphics2-archive</input>

<output>

<type>file</type>

<filename>video.h264</filename>

</output>

</sink>

</product>

</products>

</capture-profile>

<capture-profile id="3129fe56-155e-43ed-8e6f-46201fc1b1e4">

<name>Video Only (Podcast/Vodcast/EchoPlayer). Balanced between file size &amp; quality</name>

<output-type>archive</output-type>

<products>

<product>

<source name="audio" type="audio">

<input>balanced</input>

<mode>stereo</mode>

<analog-gain>-6</analog-gain>

<samplerate>44100</samplerate>

<gain>0</gain>

<agc>false</agc>

</source>

<source name="graphics2" type="graphics">

<channel>2</channel>

<input>composite</input>

<brightness>50</brightness>

<contrast>50</contrast>

<saturation>50</saturation>

<framerate>29.97</framerate>

<width>704</width>

<height>480</height>

<fix-aspect-ratio>true</fix-aspect-ratio>

<is-display>false</is-display>

<standard>ntsc</standard>

</source>

<transform name="audio-archive" type="encoder">

<input>audio</input>

<codec>aac</codec>

<encode-on-host>true</encode-on-host>

<codec-parameters>

<bitrate>128000</bitrate>

<profile>lc</profile>

</codec-parameters>

</transform>

<transform name="graphics2-archive" type="encoder">

<input>graphics2</input>

<codec>h264</codec>

<codec-parameters>

<bitrate-control>vbr</bitrate-control>

<bitrate>1056000</bitrate>

<max-bitrate>1584000</max-bitrate>

<profile>base</profile>

<frames-per-keyframe>150</frames-per-keyframe>

</codec-parameters>

</transform>

<sink name="audio-archive-file">

<input>audio-archive</input>

<output>

<type>file</type>

<filename>audio.aac</filename>

</output>

</sink>

<sink name="graphics2-archive-file">

<input>graphics2-archive</input>

<output>

<type>file</type>

<filename>video.h264</filename>

</output>

</sink>

</product>

</products>

</capture-profile>

</capture-profiles>

</default-parameters>

</service>

<service>

<name>system\_status</name>

<version>5.4.39512</version>

<command>echo\_system\_status</command>

<background-service>true</background-service>

<files>

<file>

<name>echo\_system\_status</name>

<category>worker</category>

<uri>https://appl-ess1.echo360.local:8443/ess/restapi/v1/devices/00-1c-08-00-14-04/services/system\_status/files/echo\_system\_status/linux.32/x86/5.4.39512/SHA-256%3A012290d73a057900a953a8ae3136d118086aecea99ccadd1ce51924f45d230ca?time={seconds}&amp;signature={hmac}</uri>

<hash>SHA-256:012290d73a057900a953a8ae3136d118086aecea99ccadd1ce51924f45d230ca</hash>

</file>

</files>

<wakeup-interval>300</wakeup-interval>

<priority>low</priority>

</service>

<service>

<name>upload\_content</name>

<version>5.4.39512</version>

<command>echo\_upload\_content</command>

<background-service>true</background-service>

<files>

<file>

<name>echo\_upload\_content</name>

<category>worker</category>

<uri>https://appl-ess1.echo360.local:8443/ess/restapi/v1/devices/00-1c-08-00-14-04/services/upload\_content/files/echo\_upload\_content/linux.32/x86/5.4.39512/SHA-256%3Ac3a35039310ca5e9031e4e6dd779695e0788efe7ff8b1ea41b79bf2522179357?time={seconds}&amp;signature={hmac}</uri>

<hash>SHA-256:c3a35039310ca5e9031e4e6dd779695e0788efe7ff8b1ea41b79bf2522179357</hash>

</file>

</files>

<max-bytes-per-sec>2147483647</max-bytes-per-sec>

<uri>sftp://ftpuserone:5a633fc2ab7ccc763767380ecac4f62d@appl-ess1.echo360.local:8022/content/00-1c-08-00-14-04/{taskId}</uri>

<reupload-uri>sftp://ftpuserone:5a633fc2ab7ccc763767380ecac4f62d@appl-ess1.echo360.local:8022/reuploaded/00-1c-08-00-14-04/{taskId}</reupload-uri>

<max-saved-size>120000</max-saved-size>

<priority>low</priority>

</service>

<service>

<name>upload\_log</name>

<version>5.4.39512</version>

<command>echo\_upload\_log</command>

<background-service>true</background-service>

<files>

<file>

<name>echo\_upload\_log</name>

<category>worker</category>

<uri>https://appl-ess1.echo360.local:8443/ess/restapi/v1/devices/00-1c-08-00-14-04/services/upload\_log/files/echo\_upload\_log/linux.32/x86/5.4.39512/SHA-256%3A5323b72dc9b3847b0e222bb7b69b446d066f77fc70e9c28d6a18a85c8a06eb51?time={seconds}&amp;signature={hmac}</uri>

<hash>SHA-256:5323b72dc9b3847b0e222bb7b69b446d066f77fc70e9c28d6a18a85c8a06eb51</hash>

</file>

</files>

<max-bytes-per-sec>2147483647</max-bytes-per-sec>

<uri>sftp://ftpuserone:5a633fc2ab7ccc763767380ecac4f62d@appl-ess1.echo360.local:8022/logs/00-1c-08-00-14-04/{timestamp}</uri>

<priority>low</priority>

<wakeup-interval>300</wakeup-interval>

<max-saved-size>200</max-saved-size>

</service>

<service>

<name>task\_manager</name>

<version>5.4.39512</version>

<command>echo\_task\_manager</command>

<background-service>true</background-service>

<files>

<file>

<name>echo\_task\_manager</name>

<category>system-worker</category>

<uri>https://appl-ess1.echo360.local:8443/ess/restapi/v1/devices/00-1c-08-00-14-04/services/task\_manager/files/echo\_task\_manager/linux.32/x86/5.4.39512/SHA-256%3A6e129b773a2647e45c9d7a2a44d5987703d80182ff31749759df3a8fd43a0549?time={seconds}&amp;signature={hmac}</uri>

<hash>SHA-256:6e129b773a2647e45c9d7a2a44d5987703d80182ff31749759df3a8fd43a0549</hash>

</file>

<file>

<name>device\_client.pem</name>

<category>static-config</category>

<uri>https://appl-ess1.echo360.local:8443/ess/restapi/v1/devices/00-1c-08-00-14-04/services/task\_manager/files/device\_client.pem/linux.32/x86/5.4.39512/SHA-256%3A335a8e9941cd63961d7b7a2800934eafe2e9e9c5efba48d7c06ece36dc6d2751?time={seconds}&amp;signature={hmac}</uri>

<hash>SHA-256:335a8e9941cd63961d7b7a2800934eafe2e9e9c5efba48d7c06ece36dc6d2751</hash>

</file>

<file>

<name>new\_firmware.zip</name>

<category>dynamic-config</category>

<uri>https://appl-ess1.echo360.local:8443/ess/restapi/v1/devices/00-1c-08-00-14-04/services/task\_manager/files/new\_firmware.zip/linux.32/x86/5.4.39512/SHA-256%3Ad9d1a9de890097c2f4bb4357530cf8d1fc12f24a0130ceb9441ad5d11e91ca5d?time={seconds}&amp;signature={hmac}</uri>

<hash>SHA-256:d9d1a9de890097c2f4bb4357530cf8d1fc12f24a0130ceb9441ad5d11e91ca5d</hash>

</file>

<file>

<name>tasks.xml</name>

<category>dynamic-config</category>

<uri>https://appl-ess1.echo360.local:8443/ess/restapi/v1/devices/00-1c-08-00-14-04/services/task\_manager/files/tasks.xml/linux.32/x86/latest/{hash}?time={seconds}&amp;signature={hmac}</uri>

<hash-on-status>true</hash-on-status>

</file>

<file>

<name>device.xml</name>

<category>static-config</category>

<uri>https://appl-ess1.echo360.local:8443/ess/restapi/v1/devices/00-1c-08-00-14-04/services/task\_manager/files/device.xml/linux.32/x86/latest/{hash}?time={seconds}&amp;signature={hmac}</uri>

<hash-on-status>true</hash-on-status>

</file>

</files>

<status-uri>https://appl-ess1.echo360.local:8443/ess/restapi/v1/devices/00-1c-08-00-14-04/status?time={seconds}&amp;signature={hmac}</status-uri>

<status-interval>25</status-interval>

<status-failure-interval>60</status-failure-interval>

<prestart-time>3</prestart-time>

<preroll-time>300</preroll-time>

<stopping-time>1</stopping-time>

</service>

</services>

<signature>HmacSHA256:2c1a7248fe47b19d54d635390896b76bd9afc37efc18f6e50e6c68b98c47c9d1</signature>

</device>

## Get Device Processes Response XML

The below is the Response XML from the call defined in [section 3.2.9 - Get Device Processes](#_Get_Device_Processes_1) of this document.

**<head><meta http-equiv="refresh" content="5"></head><pre>top - 17:22:13 up 12 min, 0 users, load average: 0.02, 0.51, 0.80**

**Tasks: 111 total, 1 running, 109 sleeping, 0 stopped, 1 zombie**

**Cpu(s): 2.0%us, 2.7%sy, 1.0%ni, 93.7%id, 0.5%wa, 0.0%hi, 0.0%si, 0.0%st**

**Mem: 894484k total, 190728k used, 703756k free, 3300k buffers**

**Swap: 2097148k total, 0k used, 2097148k free, 134496k cached**

**PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND**

**24567 root 30 10 2568 1052 804 R 2 0.1 0:00.01 top**

**1 root 20 0 1744 588 516 S 0 0.1 0:04.67 init**

**2 root 20 0 0 0 0 S 0 0.0 0:00.00 kthreadd**

**3 root 20 0 0 0 0 S 0 0.0 0:00.00 ksoftirqd/0**

**4 root RT 0 0 0 0 S 0 0.0 0:00.03 migration/0**

**5 root RT 0 0 0 0 S 0 0.0 0:00.00 watchdog/0**

**6 root RT 0 0 0 0 S 0 0.0 0:00.03 migration/1**

**7 root 20 0 0 0 0 S 0 0.0 0:00.00 ksoftirqd/1**

**8 root RT 0 0 0 0 S 0 0.0 0:00.00 watchdog/1**

**9 root 20 0 0 0 0 S 0 0.0 0:00.02 events/0**

**10 root 20 0 0 0 0 S 0 0.0 0:00.04 events/1**

**11 root 20 0 0 0 0 S 0 0.0 0:00.03 khelper**

**16 root 20 0 0 0 0 S 0 0.0 0:00.00 async/mgr**

**142 root 20 0 0 0 0 S 0 0.0 0:00.00 sync\_supers**

**144 root 20 0 0 0 0 S 0 0.0 0:00.00 bdi-default**

**146 root 20 0 0 0 0 S 0 0.0 0:00.00 kblockd/0**

**147 root 20 0 0 0 0 S 0 0.0 0:00.03 kblockd/1**

**150 root 20 0 0 0 0 S 0 0.0 0:00.00 kacpid**

**151 root 20 0 0 0 0 S 0 0.0 0:00.01 kacpi\_notify**

**152 root 20 0 0 0 0 S 0 0.0 0:00.00 kacpi\_hotplug**

**249 root 20 0 0 0 0 S 0 0.0 0:00.00 khubd**

**252 root 20 0 0 0 0 S 0 0.0 0:00.01 kseriod**

**281 root 20 0 0 0 0 S 0 0.0 0:00.00 rpciod/0**

**282 root 20 0 0 0 0 S 0 0.0 0:00.00 rpciod/1**

**306 root 20 0 0 0 0 S 0 0.0 0:00.00 khungtaskd**

**307 root 20 0 0 0 0 S 0 0.0 0:00.00 kswapd0**

**308 root 20 0 0 0 0 S 0 0.0 0:00.00 aio/0**

**309 root 20 0 0 0 0 S 0 0.0 0:00.00 aio/1**

**310 root 20 0 0 0 0 S 0 0.0 0:00.00 nfsiod**

**311 root 20 0 0 0 0 S 0 0.0 0:00.00 xfs\_mru\_cache**

**312 root 20 0 0 0 0 S 0 0.0 0:00.02 xfslogd/0**

**313 root 20 0 0 0 0 S 0 0.0 0:00.00 xfslogd/1**

**314 root 20 0 0 0 0 S 0 0.0 0:00.01 xfsdatad/0**

**315 root 20 0 0 0 0 S 0 0.0 0:00.00 xfsdatad/1**

**316 root 20 0 0 0 0 S 0 0.0 0:00.00 xfsconvertd/0**

**317 root 20 0 0 0 0 S 0 0.0 0:00.00 xfsconvertd/1**

**318 root 20 0 0 0 0 S 0 0.0 0:00.00 crypto/0**

**319 root 20 0 0 0 0 S 0 0.0 0:00.00 crypto/1**

**508 root 20 0 0 0 0 S 0 0.0 0:00.00 iscsi\_eh**

**539 root 20 0 0 0 0 S 0 0.0 0:00.00 kpsmoused**

**1102 root 20 0 0 0 0 S 0 0.0 0:00.00 ata\_aux**

**1103 root 20 0 0 0 0 S 0 0.0 0:00.00 ata\_sff/0**

**1104 root 20 0 0 0 0 S 0 0.0 0:00.00 ata\_sff/1**

**4314 root 20 0 0 0 0 S 0 0.0 0:00.00 scsi\_eh\_0**

**4317 root 20 0 0 0 0 S 0 0.0 0:00.00 scsi\_eh\_1**

**6694 root 20 0 0 0 0 S 0 0.0 0:00.00 scsi\_tgtd/0**

**6695 root 20 0 0 0 0 S 0 0.0 0:00.00 scsi\_tgtd/1**

**7300 root 20 0 0 0 0 S 0 0.0 0:00.00 cciss\_scan**

**9390 root 20 0 0 0 0 S 0 0.0 0:00.00 usbhid\_resumer**

**9664 root 20 0 0 0 0 S 0 0.0 0:00.00 khpsbpkt**

**10233 root 20 0 0 0 0 S 0 0.0 0:00.00 kstriped**

**10857 root 20 0 0 0 0 S 0 0.0 0:00.00 ksnapd**

**12080 root 20 0 0 0 0 S 0 0.0 0:00.00 jfsIO**

**12081 root 20 0 0 0 0 S 0 0.0 0:00.00 jfsCommit**

**12082 root 20 0 0 0 0 S 0 0.0 0:00.00 jfsCommit**

**12083 root 20 0 0 0 0 S 0 0.0 0:00.00 jfsSync**

**12755 root 20 0 0 0 0 S 0 0.0 0:00.00 kjournald**

**12848 root 16 -4 2168 896 532 S 0 0.1 0:00.21 udevd**

**18362 root 20 0 0 0 0 S 0 0.0 0:00.00 flush-8:0**

**18948 root 20 0 0 0 0 S 0 0.0 0:00.02 kjournald**

**19361 root 20 0 2984 1240 1056 S 0 0.1 0:00.30 gb-console.sh**

**19876 root 20 0 1904 708 576 S 0 0.1 0:00.08 syslogd**

**19887 root 20 0 1744 404 328 S 0 0.0 0:00.02 klogd**

**20970 root 20 0 1768 388 308 S 0 0.0 0:00.01 ifplugd**

**21101 bin 20 0 1764 476 388 S 0 0.1 0:00.00 portmap**

**21520 nobody 20 0 1832 700 600 S 0 0.1 0:00.00 rpc.statd**

**21587 root 20 0 2028 824 636 S 0 0.1 0:00.00 rpc.mountd**

**21589 root 20 0 0 0 0 S 0 0.0 0:00.00 lockd**

**21590 root 20 0 0 0 0 S 0 0.0 0:00.00 nfsd**

**21591 root 20 0 0 0 0 S 0 0.0 0:00.00 nfsd**

**21592 root 20 0 0 0 0 S 0 0.0 0:00.00 nfsd**

**21593 root 20 0 0 0 0 S 0 0.0 0:00.00 nfsd**

**21594 root 20 0 0 0 0 S 0 0.0 0:00.00 nfsd**

**21595 root 20 0 0 0 0 S 0 0.0 0:00.00 nfsd**

**21596 root 20 0 0 0 0 S 0 0.0 0:00.00 nfsd**

**21597 root 20 0 0 0 0 S 0 0.0 0:00.00 nfsd**

**21997 root 20 0 2032 728 588 S 0 0.1 0:00.00 cron**

**22278 root 20 0 1964 372 216 S 0 0.0 0:00.00 dhcpcd**

**22628 root 20 0 4076 920 616 S 0 0.1 0:00.00 sshd**

**22675 root 20 0 0 0 0 S 0 0.0 0:00.00 sysfsd**

**22708 root 20 0 2832 792 688 S 0 0.1 0:00.00 tun\_pci**

**22709 root 20 0 2832 544 460 S 0 0.1 0:00.00 tun\_pci**

**22710 root 20 0 3096 992 856 S 0 0.1 0:00.00 timesync**

**23011 root 20 0 2956 780 676 S 0 0.1 0:00.00 armMonitor**

**23014 root 20 0 0 0 0 S 0 0.0 0:00.00 xfsbufd/sda4**

**23016 root 20 0 0 0 0 S 0 0.0 0:00.00 xfsaild/sda4**

**23017 root 20 0 0 0 0 S 0 0.0 0:00.00 xfssyncd/sda4**

**23030 root 20 0 4552 1624 1316 S 0 0.2 0:00.02 echo\_spinner**

**23042 root 20 0 1900 784 668 S 0 0.1 0:00.00 agetty**

**23043 root 20 0 1900 784 668 S 0 0.1 0:00.00 agetty**

**23044 root 20 0 1900 780 668 S 0 0.1 0:00.00 agetty**

**23045 root 20 0 1900 776 668 S 0 0.1 0:00.00 agetty**

**23046 root 20 0 1900 780 668 S 0 0.1 0:00.00 agetty**

**23047 root 20 0 1900 780 668 S 0 0.1 0:00.00 agetty**

**23048 root 20 0 6576 3812 2836 S 0 0.4 0:07.05 echo\_task\_manag**

**23090 root 20 0 0 0 0 Z 0 0.0 0:00.00 ntpd <defunct>**

**23092 root 20 0 4136 1176 876 S 0 0.1 0:00.02 ntpd**

**23104 root 30 10 5728 2852 2340 S 0 0.3 0:03.94 echo\_adhoc\_cont**

**23106 root 30 10 4648 1844 1512 S 0 0.2 0:07.80 echo\_system\_sta**

**23108 root 30 10 5340 1800 1472 S 0 0.2 0:00.14 echo\_upload\_con**

**23112 root 30 10 5488 2528 2148 S 0 0.3 0:00.30 echo\_upload\_log**

**23151 root 18 -2 2308 796 288 S 0 0.1 0:00.00 udevd**

**23152 root 18 -2 2308 796 288 S 0 0.1 0:00.00 udevd**

**23966 root 30 10 8156 3696 2260 S 0 0.4 0:00.98 echo\_restapi**

**23967 root 30 10 8156 3696 2260 S 0 0.4 0:01.04 echo\_restapi**

**23968 root 30 10 8236 3840 2316 S 0 0.4 0:00.99 echo\_restapi**

**23969 root 30 10 8156 3708 2272 S 0 0.4 0:01.02 echo\_restapi**

**23970 root 30 10 8156 3476 2072 S 0 0.4 0:00.15 echo\_restapi**

**23973 root 30 10 4228 1880 1544 S 0 0.2 0:00.00 echo\_nginx**

**23974 root 30 10 4564 1936 1288 S 0 0.2 0:07.09 echo\_nginx**

**24568 root 20 0 1732 244 196 S 0 0.0 0:00.00 sleep**

**</pre>**

## Get Device Message Buffer Response XML

The below is the Response XML from the call defined in [section 3.2.10 - Get Device Message Buffer](#_Get_Device_Message_1) of this document.

<pre>ci 0000:00:1e.0: bridge window [io 0x0d00-0xffff] (subtractive decode)

pci 0000:00:1e.0: bridge window [mem 0x000a0000-0x000bffff] (subtractive decode)

pci 0000:00:1e.0: bridge window [mem 0x000d0000-0x000dffff] (subtractive decode)

pci 0000:00:1e.0: bridge window [mem 0x3f800000-0xdfffffff] (subtractive decode)

pci 0000:00:1e.0: bridge window [mem 0xe4000000-0xfed8ffff] (subtractive decode)

pci\_bus 0000:00: on NUMA node 0

ACPI: PCI Interrupt Routing Table [\\_SB\_.PCI0.\_PRT]

ACPI: PCI Interrupt Routing Table [\\_SB\_.PCI0.P0P1.\_PRT]

ACPI: PCI Interrupt Routing Table [\\_SB\_.PCI0.P0P4.\_PRT]

ACPI: PCI Interrupt Routing Table [\\_SB\_.PCI0.P0P7.\_PRT]

ACPI: PCI Interrupt Link [LNKA] (IRQs \*10)

ACPI: PCI Interrupt Link [LNKB] (IRQs \*3)

ACPI: PCI Interrupt Link [LNKC] (IRQs \*5)

ACPI: PCI Interrupt Link [LNKD] (IRQs \*11)

ACPI: Invalid \_PRS IRQ 0

ACPI: PCI Interrupt Link [LNKE] (IRQs) \*0, disabled.

ACPI: PCI Interrupt Link [LNKF] (IRQs \*7)

ACPI: PCI Interrupt Link [LNKG] (IRQs \*4)

ACPI: PCI Interrupt Link [LNKH] (IRQs \*12)

vgaarb: device added: PCI:0000:00:02.0,decodes=io+mem,owns=io+mem,locks=none

vgaarb: loaded

SCSI subsystem initialized

usbcore: registered new interface driver usbfs

usbcore: registered new interface driver hub

usbcore: registered new device driver usb

PCI: Using ACPI for IRQ routing

PCI: pci\_cache\_line\_size set to 64 bytes

Expanded resource reserved due to conflict with PCI Bus 0000:00

reserve RAM buffer: 000000000009fc00 - 000000000009ffff

reserve RAM buffer: 000000003f7c0000 - 000000003fffffff

hpet clockevent registered

Switching to clocksource tsc

pnp: PnP ACPI init

ACPI: bus type pnp registered

pnp: PnP ACPI: found 12 devices

ACPI: ACPI bus type pnp unregistered

system 00:01: [mem 0xfed13000-0xfed19fff] has been reserved

system 00:06: [io 0x04d0-0x04d1] has been reserved

system 00:06: [io 0x0800-0x087f] has been reserved

system 00:06: [io 0x0480-0x04bf] has been reserved

system 00:06: [mem 0xfed1c000-0xfed1ffff] has been reserved

system 00:06: [mem 0xfed20000-0xfed3ffff] has been reserved

system 00:06: [mem 0xfed40000-0xfed8ffff] has been reserved

system 00:09: [mem 0xfec00000-0xfec00fff] could not be reserved

system 00:09: [mem 0xfee00000-0xfee00fff] has been reserved

system 00:0a: [mem 0xe0000000-0xe3ffffff] has been reserved

system 00:0b: [mem 0x00000000-0x0009ffff] could not be reserved

system 00:0b: [mem 0x000c0000-0x000cffff] could not be reserved

system 00:0b: [mem 0x000e0000-0x000fffff] could not be reserved

system 00:0b: [mem 0x00100000-0x3f7fffff] could not be reserved

system 00:0b: [mem 0xfed90000-0xffffffff] could not be reserved

pci 0000:00:1c.0: BAR 8: assigned [mem 0x3f800000-0x3f9fffff]

pci 0000:00:1c.0: BAR 9: assigned [mem 0x3fa00000-0x3fbfffff 64bit pref]

pci 0000:00:1c.0: BAR 7: assigned [io 0x1000-0x1fff]

pci 0000:00:1c.0: PCI bridge to [bus 01-01]

pci 0000:00:1c.0: bridge window [io 0x1000-0x1fff]

pci 0000:00:1c.0: bridge window [mem 0x3f800000-0x3f9fffff]

pci 0000:00:1c.0: bridge window [mem 0x3fa00000-0x3fbfffff 64bit pref]

pci 0000:00:1c.3: PCI bridge to [bus 02-02]

pci 0000:00:1c.3: bridge window [io 0xe000-0xefff]

pci 0000:00:1c.3: bridge window [mem 0xfdf00000-0xfdffffff]

pci 0000:00:1c.3: bridge window [mem 0xfa700000-0xfa7fffff 64bit pref]

pci 0000:00:1e.0: PCI bridge to [bus 03-03]

pci 0000:00:1e.0: bridge window [io disabled]

pci 0000:00:1e.0: bridge window [mem 0xfe000000-0xfebfffff]

pci 0000:00:1e.0: bridge window [mem 0xfa800000-0xfcffffff 64bit pref]

pci 0000:00:1c.0: enabling device (0104 -> 0107)

pci 0000:00:1c.0: PCI INT A -> GSI 16 (level, low) -> IRQ 16

pci 0000:00:1c.0: setting latency timer to 64

pci 0000:00:1c.3: PCI INT D -> GSI 19 (level, low) -> IRQ 19

pci 0000:00:1c.3: setting latency timer to 64

pci 0000:00:1e.0: setting latency timer to 64

pci\_bus 0000:00: resource 4 [io 0x0000-0x0cf7]

pci\_bus 0000:00: resource 5 [io 0x0d00-0xffff]

pci\_bus 0000:00: resource 6 [mem 0x000a0000-0x000bffff]

pci\_bus 0000:00: resource 7 [mem 0x000d0000-0x000dffff]

pci\_bus 0000:00: resource 8 [mem 0x3f800000-0xdfffffff]

pci\_bus 0000:00: resource 9 [mem 0xe4000000-0xfed8ffff]

pci\_bus 0000:01: resource 0 [io 0x1000-0x1fff]

pci\_bus 0000:01: resource 1 [mem 0x3f800000-0x3f9fffff]

pci\_bus 0000:01: resource 2 [mem 0x3fa00000-0x3fbfffff 64bit pref]

pci\_bus 0000:02: resource 0 [io 0xe000-0xefff]

pci\_bus 0000:02: resource 1 [mem 0xfdf00000-0xfdffffff]

pci\_bus 0000:02: resource 2 [mem 0xfa700000-0xfa7fffff 64bit pref]

pci\_bus 0000:03: resource 1 [mem 0xfe000000-0xfebfffff]

pci\_bus 0000:03: resource 2 [mem 0xfa800000-0xfcffffff 64bit pref]

pci\_bus 0000:03: resource 4 [io 0x0000-0x0cf7]

pci\_bus 0000:03: resource 5 [io 0x0d00-0xffff]

pci\_bus 0000:03: resource 6 [mem 0x000a0000-0x000bffff]

pci\_bus 0000:03: resource 7 [mem 0x000d0000-0x000dffff]

pci\_bus 0000:03: resource 8 [mem 0x3f800000-0xdfffffff]

pci\_bus 0000:03: resource 9 [mem 0xe4000000-0xfed8ffff]

NET: Registered protocol family 2

IP route cache hash table entries: 32768 (order: 5, 131072 bytes)

TCP established hash table entries: 131072 (order: 8, 1048576 bytes)

TCP bind hash table entries: 65536 (order: 7, 524288 bytes)

TCP: Hash tables configured (established 131072 bind 65536)

TCP reno registered

UDP hash table entries: 512 (order: 2, 16384 bytes)

UDP-Lite hash table entries: 512 (order: 2, 16384 bytes)

NET: Registered protocol family 1

RPC: Registered udp transport module.

RPC: Registered tcp transport module.

RPC: Registered tcp NFSv4.1 backchannel transport module.

pci 0000:00:02.0: Boot video device

PCI: CLS 32 bytes, default 64

Trying to unpack rootfs image as initramfs...

Freeing initrd memory: 2724k freed

bigphysarea: Allocated 32768 pages at 0xc220c000.

highmem bounce pool size: 64 pages

VFS: Disk quotas dquot\_6.5.2

Dquot-cache hash table entries: 1024 (order 0, 4096 bytes)

squashfs: version 4.0 (2009/01/31) Phillip Lougher

Installing knfsd (copyright (C) 1996 okir@monad.swb.de).

NTFS driver 2.1.29 [Flags: R/O].

SGI XFS with ACLs, security attributes, realtime, large block/inode numbers, no debug enabled

SGI XFS Quota Management subsystem

msgmni has been set to 1490

alg: No test for stdrng (krng)

Block layer SCSI generic (bsg) driver version 0.4 loaded (major 254)

io scheduler noop registered

io scheduler deadline registered (default)

pcieport 0000:00:1c.0: setting latency timer to 64

pcieport 0000:00:1c.3: setting latency timer to 64

intel\_rng: FWH not detected

Linux agpgart interface v0.103

Serial: 8250/16550 driver, 4 ports, IRQ sharing enabled

brd: module loaded

loop: module loaded

Uniform Multi-Platform E-IDE driver

ide\_generic: please use "probe\_mask=0x3f" module parameter for probing all legacy ISA IDE ports

ide-gd driver 1.18

ide-cd driver 5.00

Loading iSCSI transport class v2.0-870.

iscsi: registered transport (tcp)

SCSI Media Changer driver v0.25

Atheros(R) L2 Ethernet Driver - version 2.2.3

Copyright (c) 2007 Atheros Corporation.

jme: JMicron JMC2XX ethernet driver version 1.0.6

aoe: AoE v47 initialised.

usbcore: registered new interface driver usbserial

USB Serial support registered for generic

usbcore: registered new interface driver usbserial\_generic

usbserial: USB Serial Driver core

USB Serial support registered for pl2303

usbcore: registered new interface driver pl2303

pl2303: Prolific PL2303 USB to serial adaptor driver

PNP: No PS/2 controller found. Probing ports directly.

Failed to disable AUX port, but continuing anyway... Is this a SiS?

If AUX port is really absent please use the 'i8042.noaux' option.

serio: i8042 KBD port at 0x60,0x64 irq 1

mice: PS/2 mouse device common for all mice

i2c /dev entries driver

i2c-core: driver [dev\_driver] registered

cpuidle: using governor ladder

ioatdma: Intel(R) QuickData Technology Driver 4.00

TCP cubic registered

NET: Registered protocol family 17

Using IPI Shortcut mode

Freeing unused kernel memory: 376k freed

Write protecting the kernel text: 3392k

Write protecting the kernel read-only data: 1156k

libata version 3.00 loaded.

Error: Driver 'pata\_platform' is already registered, aborting...

ata\_piix 0000:00:1f.2: version 2.13

ata\_piix 0000:00:1f.2: PCI INT B -> GSI 19 (level, low) -> IRQ 19

ata\_piix 0000:00:1f.2: MAP [ P0 P2 IDE IDE ]

ata\_piix 0000:00:1f.2: setting latency timer to 64

scsi0 : ata\_piix

scsi1 : ata\_piix

ata1: SATA max UDMA/133 cmd 0x1f0 ctl 0x3f6 bmdma 0xffa0 irq 14

ata2: PATA max UDMA/100 cmd 0x170 ctl 0x376 bmdma 0xffa8 irq 15

ata1.00: ATA-8: WDC WD5000AVDS-73U7B1, 01.00A01, max UDMA/133

ata1.00: 976773168 sectors, multi 16: LBA48 NCQ (depth 0/32)

ata1.00: configured for UDMA/133

scsi 0:0:0:0: Direct-Access ATA WDC WD5000AVDS-7 01.0 PQ: 0 ANSI: 5

sd 0:0:0:0: [sda] 976773168 512-byte logical blocks: (500 GB/465 GiB)

sd 0:0:0:0: [sda] Write Protect is off

sd 0:0:0:0: [sda] Mode Sense: 00 3a 00 00

sd 0:0:0:0: [sda] Write cache: enabled, read cache: enabled, doesn't support DPO or FUA

sda: sda1 sda2 sda3 sda4

sd 0:0:0:0: [sda] Attached SCSI disk

sd 0:0:0:0: Attached scsi generic sg0 type 0

scsi: <fdomain> Detection failed (no card)

GDT-HA: Storage RAID Controller Driver. Version: 3.05

Fusion MPT base driver 3.04.15

Copyright (c) 1999-2008 LSI Corporation

Fusion MPT SPI Host driver 3.04.15

Fusion MPT FC Host driver 3.04.15

Fusion MPT SAS Host driver 3.04.15

3ware Storage Controller device driver for Linux v1.26.02.003.

3ware 9000 Storage Controller device driver for Linux v2.26.02.014.

Compaq SMART2 Driver (v 2.6.0)

HP CISS Driver (v 3.6.20)

Adaptec aacraid driver 1.1-5[26400]-ms

megaraid cmm: 2.20.2.7 (Release Date: Sun Jul 16 00:01:03 EST 2006)

megaraid: 2.20.5.1 (Release Date: Thu Nov 16 15:32:35 EST 2006)

megasas: 00.00.04.17.1-rc1 Thu. Oct. 29, 11:41:51 PST 2009

QLogic Fibre Channel HBA Driver: 8.03.02-k2

Emulex LightPulse Fibre Channel SCSI driver 8.3.12

Copyright(c) 2004-2009 Emulex. All rights reserved.

aic94xx: Adaptec aic94xx SAS/SATA driver version 1.0.3 loaded

ehci\_hcd: USB 2.0 'Enhanced' Host Controller (EHCI) Driver

ehci\_hcd 0000:00:1d.7: PCI INT A -> GSI 23 (level, low) -> IRQ 23

ehci\_hcd 0000:00:1d.7: setting latency timer to 64

ehci\_hcd 0000:00:1d.7: EHCI Host Controller

ehci\_hcd 0000:00:1d.7: new USB bus registered, assigned bus number 1

ehci\_hcd 0000:00:1d.7: using broken periodic workaround

ehci\_hcd 0000:00:1d.7: debug port 1

ehci\_hcd 0000:00:1d.7: cache line size of 32 is not supported

ehci\_hcd 0000:00:1d.7: irq 23, io mem 0xfde3bc00

ehci\_hcd 0000:00:1d.7: USB 2.0 started, EHCI 1.00

usb usb1: New USB device found, idVendor=1d6b, idProduct=0002

usb usb1: New USB device strings: Mfr=3, Product=2, SerialNumber=1

usb usb1: Product: EHCI Host Controller

usb usb1: Manufacturer: Linux 2.6.35-gentoo-r4 ehci\_hcd

usb usb1: SerialNumber: 0000:00:1d.7

hub 1-0:1.0: USB hub found

hub 1-0:1.0: 8 ports detected

Initializing USB Mass Storage driver...

usbcore: registered new interface driver usb-storage

USB Mass Storage support registered.

uhci\_hcd: USB Universal Host Controller Interface driver

uhci\_hcd 0000:00:1d.0: PCI INT A -> GSI 23 (level, low) -> IRQ 23

uhci\_hcd 0000:00:1d.0: setting latency timer to 64

uhci\_hcd 0000:00:1d.0: UHCI Host Controller

uhci\_hcd 0000:00:1d.0: new USB bus registered, assigned bus number 2

uhci\_hcd 0000:00:1d.0: irq 23, io base 0x0000d880

usb usb2: New USB device found, idVendor=1d6b, idProduct=0001

usb usb2: New USB device strings: Mfr=3, Product=2, SerialNumber=1

usb usb2: Product: UHCI Host Controller

usb usb2: Manufacturer: Linux 2.6.35-gentoo-r4 uhci\_hcd

usb usb2: SerialNumber: 0000:00:1d.0

hub 2-0:1.0: USB hub found

hub 2-0:1.0: 2 ports detected

uhci\_hcd 0000:00:1d.1: PCI INT B -> GSI 19 (level, low) -> IRQ 19

uhci\_hcd 0000:00:1d.1: setting latency timer to 64

uhci\_hcd 0000:00:1d.1: UHCI Host Controller

uhci\_hcd 0000:00:1d.1: new USB bus registered, assigned bus number 3

uhci\_hcd 0000:00:1d.1: irq 19, io base 0x0000d800

usb usb3: New USB device found, idVendor=1d6b, idProduct=0001

usb usb3: New USB device strings: Mfr=3, Product=2, SerialNumber=1

usb usb3: Product: UHCI Host Controller

usb usb3: Manufacturer: Linux 2.6.35-gentoo-r4 uhci\_hcd

usb usb3: SerialNumber: 0000:00:1d.1

hub 3-0:1.0: USB hub found

hub 3-0:1.0: 2 ports detected

uhci\_hcd 0000:00:1d.2: PCI INT C -> GSI 18 (level, low) -> IRQ 18

uhci\_hcd 0000:00:1d.2: setting latency timer to 64

uhci\_hcd 0000:00:1d.2: UHCI Host Controller

uhci\_hcd 0000:00:1d.2: new USB bus registered, assigned bus number 4

uhci\_hcd 0000:00:1d.2: irq 18, io base 0x0000d480

usb usb4: New USB device found, idVendor=1d6b, idProduct=0001

usb usb4: New USB device strings: Mfr=3, Product=2, SerialNumber=1

usb usb4: Product: UHCI Host Controller

usb usb4: Manufacturer: Linux 2.6.35-gentoo-r4 uhci\_hcd

usb usb4: SerialNumber: 0000:00:1d.2

hub 4-0:1.0: USB hub found

hub 4-0:1.0: 2 ports detected

uhci\_hcd 0000:00:1d.3: PCI INT D -> GSI 16 (level, low) -> IRQ 16

uhci\_hcd 0000:00:1d.3: setting latency timer to 64

uhci\_hcd 0000:00:1d.3: UHCI Host Controller

uhci\_hcd 0000:00:1d.3: new USB bus registered, assigned bus number 5

uhci\_hcd 0000:00:1d.3: irq 16, io base 0x0000d400

usb usb5: New USB device found, idVendor=1d6b, idProduct=0001

usb usb5: New USB device strings: Mfr=3, Product=2, SerialNumber=1

usb usb5: Product: UHCI Host Controller

usb usb5: Manufacturer: Linux 2.6.35-gentoo-r4 uhci\_hcd

usb usb5: SerialNumber: 0000:00:1d.3

hub 5-0:1.0: USB hub found

hub 5-0:1.0: 2 ports detected

ohci\_hcd: USB 1.1 'Open' Host Controller (OHCI) Driver

usbcore: registered new interface driver hiddev

usbcore: registered new interface driver usbhid

usbhid: USB HID core driver

sl811: driver sl811-hcd, 19 May 2005

device-mapper: uevent: version 1.0.3

device-mapper: ioctl: 4.17.0-ioctl (2010-03-05) initialised: dm-devel@redhat.com

md: raid0 personality registered for level 0

md: raid1 personality registered for level 1

raid6: int32x1 164 MB/s

raid6: int32x2 257 MB/s

raid6: int32x4 269 MB/s

raid6: int32x8 281 MB/s

raid6: mmxx1 359 MB/s

raid6: mmxx2 664 MB/s

raid6: sse1x1 289 MB/s

raid6: sse1x2 496 MB/s

raid6: sse2x1 574 MB/s

raid6: sse2x2 984 MB/s

raid6: using algorithm sse2x2 (984 MB/s)

async\_tx: api initialized (async)

xor: automatically using best checksumming function: pIII\_sse

pIII\_sse : 4896.000 MB/sec

xor: using function: pIII\_sse (4896.000 MB/sec)

md: raid6 personality registered for level 6

md: raid5 personality registered for level 5

md: raid4 personality registered for level 4

md: raid10 personality registered for level 10

JFS: nTxBlock = 6988, nTxLock = 55905

fuse init (API version 7.14)

e1000: Intel(R) PRO/1000 Network Driver - version 7.3.21-k6-NAPI

e1000: Copyright (c) 1999-2006 Intel Corporation.

EXT3-fs: barriers not enabled

kjournald starting. Commit interval 5 seconds

EXT3-fs (sda3): mounted filesystem with writeback data mode

udev: starting version 151

Real Time Clock Driver v1.12b

request\_module: runaway loop modprobe eth0

request\_module: runaway loop modprobe eth0

request\_module: runaway loop modprobe eth0

request\_module: runaway loop modprobe eth0

request\_module: runaway loop modprobe eth0

i801\_smbus 0000:00:1f.3: PCI INT B -> GSI 19 (level, low) -> IRQ 19

i801\_smbus 0000:00:1f.3: SMBus using PCI Interrupt

i2c i2c-0: adapter [SMBus I801 adapter at 0400] registered

i2c-dev: adapter [SMBus I801 adapter at 0400] registered as minor 0

input: Power Button as /devices/LNXSYSTM:00/LNXSYBUS:00/PNP0C0C:00/input/input0

ACPI: Power Button [PWRB]

input: Power Button as /devices/LNXSYSTM:00/LNXPWRBN:00/input/input1

ACPI: Power Button [PWRF]

r8169 Gigabit Ethernet driver 2.3LK-NAPI loaded

r8169 0000:02:00.0: PCI INT A -> GSI 19 (level, low) -> IRQ 19

r8169 0000:02:00.0: setting latency timer to 64

r8169 0000:02:00.0: no MSI. Back to INTx.

r8169 0000:02:00.0: eth0: RTL8168c/8111c at 0xfa3fa000, 00:1c:08:00:14:04, XID 1c2000c0 IRQ 19

ACPI: acpi\_idle registered with cpuidle

Monitor-Mwait will be used to enter C-1 state

thermal LNXTHERM:01: registered as thermal\_zone0

ACPI: Thermal Zone [THRM] (53 C)

Intel ICH 0000:00:1e.2: PCI INT A -> GSI 17 (level, low) -> IRQ 17

Intel ICH 0000:00:1e.2: setting latency timer to 64

AC'97 warm reset still in progress? [0x6]

Intel ICH 0000:00:1e.2: PCI INT A disabled

Intel ICH: probe of 0000:00:1e.2 failed with error -5

ACPI: AC Adapter [ADP1] (off-line)

ACPI: Fan [PFAN] (on)

EXT3-fs: barriers not enabled

kjournald starting. Commit interval 5 seconds

EXT3-fs (sda1): warning: maximal mount count reached, running e2fsck is recommended

EXT3-fs (sda1): using internal journal

EXT3-fs (sda1): mounted filesystem with writeback data mode

NET: Registered protocol family 10

lo: Disabled Privacy Extensions

EXT3-fs (sda3): warning: maximal mount count reached, running e2fsck is recommended

EXT3-fs (sda3): using internal journal

XFS mounting filesystem sda4

Ending clean XFS mount for filesystem: sda4

Adding 2097148k swap on /dev/sda2. Priority:-1 extents:1 across:2097148k

r8169 0000:02:00.0: eth0: link up

r8169 0000:02:00.0: eth0: link up

svc: failed to register lockdv1 RPC service (errno 97).

tun: Universal TUN/TAP device driver, 1.6

tun: (C) 1999-2004 Max Krasnyansky <maxk@qualcomm.com>

eth0: no IPv6 routers present

gbpci\_init() enter, Ghostbuster model=0x0003 ====

gbpci\_init() creating char drv class 'gb'

gbpci\_init() registering PCI driver

gbpci\_probe() 0003:04.0

gbpci\_probe() 0003:04.0 is 'gb-pci0'

gbcard\_add\_conduit(gb-pci0,id=0 'graphics0',offset=0x00000370,size=0x00800000)

gbcard\_add\_conduit(gb-pci0,id=1 'graphics1',offset=0x00800380,size=0x00800000)

gbcard\_add\_conduit(gb-pci0,id=2 'audio',offset=0x01000390,size=0x00200000)

gbcard\_add\_conduit(gb-pci0,id=3 'command',offset=0x012003A0,size=0x00100000)

gbcard\_add\_conduit(gb-pci0,id=4 'reply',offset=0x013003B0,size=0x00100000)

gbcard\_add\_conduit(gb-pci0,id=5 'status',offset=0x014003C0,size=0x00100000)

gbcard\_add\_conduit(gb-pci0,id=6 'log',offset=0x015003D0,size=0x00100000)

gbcard\_add\_conduit(gb-pci0,id=7 'timesync',offset=0x016003E0,size=0x00000010)

gbcard\_add\_conduit(gb-pci0,id=8 'netfromhost',offset=0x01600400,size=0x00100000)

gbcard\_add\_conduit(gb-pci0,id=9 'nettohost',offset=0x01700410,size=0x00100000)

gbcard\_add\_conduit(gb-pci0,id=10 'ledcontrol',offset=0x01800420,size=0x00000400)

gbcard\_init\_as\_pci\_dev() enter

gbcard\_init\_as\_pci\_dev() pci\_enable\_device

gb 0000:03:04.0: PCI INT A -> GSI 21 (level, low) -> IRQ 21

gbcard\_init\_as\_pci\_dev() mapping 6467 BARs into kernel space

gbpci\_dm646x\_pci\_read\_bars() reading and mapping dm6467 BAR resources (cindex=0)

BAR Name BaseAddr Length Flags Virtual

TCM\_RAM 0xfebf8000 | 32768 | 0x00040200 | 0xfa5e0000

EMIF\_REGS 0xfebf0000 | 32768 | 0x00040200 | 0xfa5f0000

CHIP\_MMR 0xfe400000 | 4194304 | 0x00040200 | 0xfb000000

L2\_RAM 0xfcfe0000 | 131072 | 0x00042208 | 0xfafc0000

DDR2\_A 0xfc000000 | 8388608 | 0x00042208 | 0xfb480000

DDR2\_B 0xfb800000 | 8388608 | 0x00042208 | 0xfbd00000

gbpci\_dm646x\_pci\_read\_bars() reading and mapping dm6467 BAR resources (cindex=0) success

gbcard\_init\_as\_pci\_dev() request irq 21

gbcard\_init\_as\_pci\_dev() init PCI device success

init\_channel\_status\_data() creating init channel status data for card 0

gbpci\_probe() 0003:04.0 (index=0/1) success

gbpci\_probe() 0003:05.0

gbpci\_probe() 0003:05.0 is 'gb-pci1'

gbcard\_add\_conduit(gb-pci1,id=0 'graphics0',offset=0x00000370,size=0x00800000)

gbcard\_add\_conduit(gb-pci1,id=1 'graphics1',offset=0x00800380,size=0x00800000)

gbcard\_add\_conduit(gb-pci1,id=2 'audio',offset=0x01000390,size=0x00200000)

gbcard\_add\_conduit(gb-pci1,id=3 'command',offset=0x012003A0,size=0x00100000)

gbcard\_add\_conduit(gb-pci1,id=4 'reply',offset=0x013003B0,size=0x00100000)

gbcard\_add\_conduit(gb-pci1,id=5 'status',offset=0x014003C0,size=0x00100000)

gbcard\_add\_conduit(gb-pci1,id=6 'log',offset=0x015003D0,size=0x00100000)

gbcard\_add\_conduit(gb-pci1,id=7 'timesync',offset=0x016003E0,size=0x00000010)

gbcard\_add\_conduit(gb-pci1,id=8 'netfromhost',offset=0x01600400,size=0x00100000)

gbcard\_add\_conduit(gb-pci1,id=9 'nettohost',offset=0x01700410,size=0x00100000)

gbcard\_add\_conduit(gb-pci1,id=10 'ledcontrol',offset=0x01800420,size=0x00000400)

gbcard\_init\_as\_pci\_dev() enter

gbcard\_init\_as\_pci\_dev() pci\_enable\_device

gb 0000:03:05.0: PCI INT A -> GSI 22 (level, low) -> IRQ 22

gbcard\_init\_as\_pci\_dev() mapping 6467 BARs into kernel space

gbpci\_dm646x\_pci\_read\_bars() reading and mapping dm6467 BAR resources (cindex=1)

BAR Name BaseAddr Length Flags Virtual

TCM\_RAM 0xfebe8000 | 32768 | 0x00040200 | 0xfaf90000

EMIF\_REGS 0xfebe0000 | 32768 | 0x00040200 | 0xfafa0000

CHIP\_MMR 0xfe000000 | 4194304 | 0x00040200 | 0xfc580000

L2\_RAM 0xfcfc0000 | 131072 | 0x00042208 | 0xfb440000

DDR2\_A 0xfb000000 | 8388608 | 0x00042208 | 0xfca00000

DDR2\_B 0xfa800000 | 8388608 | 0x00042208 | 0xfd280000

gbpci\_dm646x\_pci\_read\_bars() reading and mapping dm6467 BAR resources (cindex=1) success

gbcard\_init\_as\_pci\_dev() request irq 22

gbcard\_init\_as\_pci\_dev() init PCI device success

init\_channel\_status\_data() creating init channel status data for card 1

gbpci\_probe() 0003:05.0 (index=1/2) success

gbpci\_init() ==== Ghostbuster PCI module successfully loaded ====

gbpci\_remove() 0003:04.0 'gb-pci0'

gbcard\_destroy\_pci() destroy PCI device

gbcard\_destroy\_pci() remove magic info from TCM RAM

gbcard\_destroy\_pci() release PCI irq 21

gbcard\_destroy\_pci() unmapping PCI bars, releasing mem regions

gbcard\_destroy\_pci() disable PCI device

gb 0000:03:04.0: PCI INT A disabled

gbcard\_destroy\_pci() Finished destroying PCI device.

gbcard\_destroy\_char() maj/min/cnt=247/0/11

gbpci\_remove() done; 1 cards remaining.

gbpci\_remove() 0003:05.0 'gb-pci1'

gbcard\_destroy\_pci() destroy PCI device

gbcard\_destroy\_pci() remove magic info from TCM RAM

gbcard\_destroy\_pci() release PCI irq 22

gbcard\_destroy\_pci() unmapping PCI bars, releasing mem regions

gbcard\_destroy\_pci() disable PCI device

gb 0000:03:05.0: PCI INT A disabled

gbcard\_destroy\_pci() Finished destroying PCI device.

gbcard\_destroy\_char() maj/min/cnt=247/11/11

gbpci\_remove() done; 0 cards remaining.

pci 0000:03:04.0: reg 10: [mem 0x00000000-0x00007fff]

pci 0000:03:04.0: reg 14: [mem 0x00000000-0x00007fff]

pci 0000:03:04.0: reg 18: [mem 0x00000000-0x003fffff]

pci 0000:03:04.0: reg 1c: [mem 0x00000000-0x0001ffff pref]

pci 0000:03:04.0: reg 20: [mem 0x00000000-0x007fffff pref]

pci 0000:03:04.0: reg 24: [mem 0x00000000-0x007fffff pref]

pci 0000:03:05.0: reg 10: [mem 0x00000000-0x00007fff]

pci 0000:03:05.0: reg 14: [mem 0x00000000-0x00007fff]

pci 0000:03:05.0: reg 18: [mem 0x00000000-0x003fffff]

pci 0000:03:05.0: reg 1c: [mem 0x00000000-0x0001ffff pref]

pci 0000:03:05.0: reg 20: [mem 0x00000000-0x007fffff pref]

pci 0000:03:05.0: reg 24: [mem 0x00000000-0x007fffff pref]

pci 0000:00:02.0: BAR 6: [??? 0x00000000 flags 0x2] has bogus alignment

pci 0000:03:04.0: BAR 4: assigned [mem 0xfa800000-0xfaffffff pref]

pci 0000:03:04.0: BAR 4: set to [mem 0xfa800000-0xfaffffff pref] (PCI address [0xfa800000-0xfaffffff]

pci 0000:03:04.0: BAR 5: assigned [mem 0xfb000000-0xfb7fffff pref]

pci 0000:03:04.0: BAR 5: set to [mem 0xfb000000-0xfb7fffff pref] (PCI address [0xfb000000-0xfb7fffff]

pci 0000:03:05.0: BAR 4: assigned [mem 0xfb800000-0xfbffffff pref]

pci 0000:03:05.0: BAR 4: set to [mem 0xfb800000-0xfbffffff pref] (PCI address [0xfb800000-0xfbffffff]

pci 0000:03:05.0: BAR 5: assigned [mem 0xfc000000-0xfc7fffff pref]

pci 0000:03:05.0: BAR 5: set to [mem 0xfc000000-0xfc7fffff pref] (PCI address [0xfc000000-0xfc7fffff]

pci 0000:03:04.0: BAR 2: assigned [mem 0xfe000000-0xfe3fffff]

pci 0000:03:04.0: BAR 2: set to [mem 0xfe000000-0xfe3fffff] (PCI address [0xfe000000-0xfe3fffff]

pci 0000:03:05.0: BAR 2: assigned [mem 0xfe400000-0xfe7fffff]

pci 0000:03:05.0: BAR 2: set to [mem 0xfe400000-0xfe7fffff] (PCI address [0xfe400000-0xfe7fffff]

pci 0000:03:04.0: BAR 3: assigned [mem 0xfc800000-0xfc81ffff pref]

pci 0000:03:04.0: BAR 3: set to [mem 0xfc800000-0xfc81ffff pref] (PCI address [0xfc800000-0xfc81ffff]

pci 0000:03:05.0: BAR 3: assigned [mem 0xfc820000-0xfc83ffff pref]

pci 0000:03:05.0: BAR 3: set to [mem 0xfc820000-0xfc83ffff pref] (PCI address [0xfc820000-0xfc83ffff]

pci 0000:03:04.0: BAR 0: assigned [mem 0xfe800000-0xfe807fff]

pci 0000:03:04.0: BAR 0: set to [mem 0xfe800000-0xfe807fff] (PCI address [0xfe800000-0xfe807fff]

pci 0000:03:04.0: BAR 1: assigned [mem 0xfe808000-0xfe80ffff]

pci 0000:03:04.0: BAR 1: set to [mem 0xfe808000-0xfe80ffff] (PCI address [0xfe808000-0xfe80ffff]

pci 0000:03:05.0: BAR 0: assigned [mem 0xfe810000-0xfe817fff]

pci 0000:03:05.0: BAR 0: set to [mem 0xfe810000-0xfe817fff] (PCI address [0xfe810000-0xfe817fff]

pci 0000:03:05.0: BAR 1: assigned [mem 0xfe818000-0xfe81ffff]

pci 0000:03:05.0: BAR 1: set to [mem 0xfe818000-0xfe81ffff] (PCI address [0xfe818000-0xfe81ffff]

gbpci\_probe() 0003:04.0

gbpci\_probe() 0003:04.0 is 'gb-pci0'

gbcard\_add\_conduit(gb-pci0,id=0 'graphics0',offset=0x00000370,size=0x00800000)

gbcard\_add\_conduit(gb-pci0,id=1 'graphics1',offset=0x00800380,size=0x00800000)

gbcard\_add\_conduit(gb-pci0,id=2 'audio',offset=0x01000390,size=0x00200000)

gbcard\_add\_conduit(gb-pci0,id=3 'command',offset=0x012003A0,size=0x00100000)

gbcard\_add\_conduit(gb-pci0,id=4 'reply',offset=0x013003B0,size=0x00100000)

gbcard\_add\_conduit(gb-pci0,id=5 'status',offset=0x014003C0,size=0x00100000)

gbcard\_add\_conduit(gb-pci0,id=6 'log',offset=0x015003D0,size=0x00100000)

gbcard\_add\_conduit(gb-pci0,id=7 'timesync',offset=0x016003E0,size=0x00000010)

gbcard\_add\_conduit(gb-pci0,id=8 'netfromhost',offset=0x01600400,size=0x00100000)

gbcard\_add\_conduit(gb-pci0,id=9 'nettohost',offset=0x01700410,size=0x00100000)

gbcard\_add\_conduit(gb-pci0,id=10 'ledcontrol',offset=0x01800420,size=0x00000400)

gbcard\_init\_as\_pci\_dev() enter

gbcard\_init\_as\_pci\_dev() pci\_enable\_device

gb 0000:03:04.0: enabling device (0000 -> 0002)

gb 0000:03:04.0: PCI INT A -> GSI 21 (level, low) -> IRQ 21

gb 0000:03:04.0: setting latency timer to 64

gbcard\_init\_as\_pci\_dev() mapping 6467 BARs into kernel space

gbpci\_dm646x\_pci\_read\_bars() reading and mapping dm6467 BAR resources (cindex=0)

BAR Name BaseAddr Length Flags Virtual

TCM\_RAM 0xfe800000 | 32768 | 0x00040200 | 0xfafb0000

EMIF\_REGS 0xfe808000 | 32768 | 0x00040200 | 0xfaff0000

CHIP\_MMR 0xfe000000 | 4194304 | 0x00040200 | 0xfdb00000

L2\_RAM 0xfc800000 | 131072 | 0x00042208 | 0xfbcc0000

DDR2\_A 0xfa800000 | 8388608 | 0x00042208 | 0xfdf80000

DDR2\_B 0xfb000000 | 8388608 | 0x00042208 | 0xfb000000

gbpci\_dm646x\_pci\_read\_bars() reading and mapping dm6467 BAR resources (cindex=0) success

gbcard\_init\_as\_pci\_dev() request irq 21

gbcard\_init\_as\_pci\_dev() init PCI device success

init\_channel\_status\_data() creating init channel status data for card 0

gbpci\_probe() 0003:04.0 (index=0/1) success

gbpci\_probe() 0003:05.0

gbpci\_probe() 0003:05.0 is 'gb-pci1'

gbcard\_add\_conduit(gb-pci1,id=0 'graphics0',offset=0x00000370,size=0x00800000)

gbcard\_add\_conduit(gb-pci1,id=1 'graphics1',offset=0x00800380,size=0x00800000)

gbcard\_add\_conduit(gb-pci1,id=2 'audio',offset=0x01000390,size=0x00200000)

gbcard\_add\_conduit(gb-pci1,id=3 'command',offset=0x012003A0,size=0x00100000)

gbcard\_add\_conduit(gb-pci1,id=4 'reply',offset=0x013003B0,size=0x00100000)

gbcard\_add\_conduit(gb-pci1,id=5 'status',offset=0x014003C0,size=0x00100000)

gbcard\_add\_conduit(gb-pci1,id=6 'log',offset=0x015003D0,size=0x00100000)

gbcard\_add\_conduit(gb-pci1,id=7 'timesync',offset=0x016003E0,size=0x00000010)

gbcard\_add\_conduit(gb-pci1,id=8 'netfromhost',offset=0x01600400,size=0x00100000)

gbcard\_add\_conduit(gb-pci1,id=9 'nettohost',offset=0x01700410,size=0x00100000)

gbcard\_add\_conduit(gb-pci1,id=10 'ledcontrol',offset=0x01800420,size=0x00000400)

gbcard\_init\_as\_pci\_dev() enter

gbcard\_init\_as\_pci\_dev() pci\_enable\_device

gb 0000:03:05.0: enabling device (0000 -> 0002)

gb 0000:03:05.0: PCI INT A -> GSI 22 (level, low) -> IRQ 22

gb 0000:03:05.0: setting latency timer to 64

gbcard\_init\_as\_pci\_dev() mapping 6467 BARs into kernel space

gbpci\_dm646x\_pci\_read\_bars() reading and mapping dm6467 BAR resources (cindex=1)

BAR Name BaseAddr Length Flags Virtual

TCM\_RAM 0xfe810000 | 32768 | 0x00040200 | 0xf8080000

EMIF\_REGS 0xfe818000 | 32768 | 0x00040200 | 0xf8090000

CHIP\_MMR 0xfe400000 | 4194304 | 0x00040200 | 0xfa780000

L2\_RAM 0xfc820000 | 131072 | 0x00042208 | 0xf9400000

DDR2\_A 0xfb800000 | 8388608 | 0x00042208 | 0xfbd00000

DDR2\_B 0xfc000000 | 8388608 | 0x00042208 | 0xfc580000

gbpci\_dm646x\_pci\_read\_bars() reading and mapping dm6467 BAR resources (cindex=1) success

gbcard\_init\_as\_pci\_dev() request irq 22

gbcard\_init\_as\_pci\_dev() init PCI device success

init\_channel\_status\_data() creating init channel status data for card 1

gbpci\_probe() 0003:05.0 (index=1/2) success

gbpci\_dm646x\_pci\_remap\_bar() remapping bar 0 (TCM\_RAM) to new window 0x10010000 (cindex=0)

gbpci\_dm646x\_run\_tcm\_img() running UBL image at TCM offset 0x20 (cindex=0)

gbpci\_dm646x\_run\_tcm\_img() placing offset of UBL image (0x20) into magic location 0x10017E80 (virt 0xFAFB7E80)

gbpci\_dm646x\_run\_tcm\_img() ORing 0x01 against BOOTSTAT at virt 0xFDB40010.

gbpci\_dm646x\_run\_tcm\_img() running UBL at TCM offset 0x20 (abs 0x10010020), waiting for BC clear

gbpci\_dm646x\_run\_tcm\_img() running UBL image at TCM offset 0x20 (cindex=0) success

gbpci\_dm646x\_pci\_remap\_bar() remapping bar 4 (DDR2\_A) to new window 0x82000000 (cindex=0)

gbpci\_dm646x\_pci\_remap\_bar() remapping bar 4 (DDR2\_A) to new window 0x8a000000 (cindex=0)

gbpci\_dm646x\_pci\_remap\_bar() remapping bar 4 (DDR2\_A) to new window 0x8a800000 (cindex=0)

gbpci\_dm646x\_pci\_remap\_bar() remapping bar 4 (DDR2\_A) to new window 0x89800000 (cindex=0)

gbpci\_dm646x\_pci\_remap\_bar() remapping bar 4 (DDR2\_A) to new window 0x82000000 (cindex=0)

gbpci\_dm646x\_boot\_image() booting image at location 0x89f80000 (cindex=0)

gbpci\_dm646x\_pci\_remap\_bar() remapping bar 0 (TCM\_RAM) to new window 0x10010000 (cindex=1)

gbpci\_dm646x\_run\_tcm\_img() running UBL image at TCM offset 0x20 (cindex=1)

gbpci\_dm646x\_run\_tcm\_img() placing offset of UBL image (0x20) into magic location 0x10017E80 (virt 0xF8087E80)

gbpci\_dm646x\_run\_tcm\_img() ORing 0x01 against BOOTSTAT at virt 0xFA7C0010.

gbpci\_dm646x\_run\_tcm\_img() running UBL at TCM offset 0x20 (abs 0x10010020), waiting for BC clear

gbpci\_dm646x\_run\_tcm\_img() running UBL image at TCM offset 0x20 (cindex=1) success

gbpci\_dm646x\_pci\_remap\_bar() remapping bar 4 (DDR2\_A) to new window 0x82000000 (cindex=1)

gbpci\_dm646x\_pci\_remap\_bar() remapping bar 4 (DDR2\_A) to new window 0x8a000000 (cindex=1)

gbpci\_dm646x\_pci\_remap\_bar() remapping bar 4 (DDR2\_A) to new window 0x8a800000 (cindex=1)

gbpci\_dm646x\_pci\_remap\_bar() remapping bar 4 (DDR2\_A) to new window 0x89800000 (cindex=1)

gbpci\_dm646x\_pci\_remap\_bar() remapping bar 4 (DDR2\_A) to new window 0x82000000 (cindex=1)

gbpci\_dm646x\_boot\_image() booting image at location 0x89f80000 (cindex=1)

tun0: Disabled Privacy Extensions

tun1: Disabled Privacy Extensions

XFS mounting filesystem sda4

Ending clean XFS mount for filesystem: sda4

ip\_tables: (C) 2000-2006 Netfilter Core Team

nf\_conntrack version 0.5.0 (13976 buckets, 55904 max)

CONFIG\_NF\_CT\_ACCT is deprecated and will be removed soon. Please use

nf\_conntrack.acct=1 kernel parameter, acct=1 nf\_conntrack module option or

sysctl net.netfilter.nf\_conntrack\_acct=1 to enable it.

</pre>