CHAPTER 3

Proxy Commands

Table 3-1 provides a summary of the proxy commands. Each command is described in detail in the section that is listed.

Table 3-1 Proxy Command Summary

Name and Reference	Description
Start Proxy, page 3-2	Starts a proxy process on a media server that establishes a connection to a media source and writes media data to shared memory.
Update Proxy, page 3-6	Updates an existing proxy with different parameter values.
Stop Proxy, page 3-10	Stops a running proxy and all archives accessing the media data written to shared memory by the proxy.
View JPEG Frames, page 3-11	Displays JPEG frames from a proxy.
List All Proxies, page 3-12	Displays a list of all proxies running on a VSMS host.
Get Proxy Source, page 3-14	Retrieves the media source value for a proxy,
Get Proxy Media Type, page 3-15	Retrieves the media type value for a proxy.
Get Proxy Frame Rate or Bit Rate, page 3-16	Retrieves the frame rate value for a JPEG proxy or the bit rate value for an MPEG or audio proxy.
Get MJPEG Proxy Quality, page 3-17	Retrieves the quality value for a JPEG proxy.
Get Proxy Video Width, page 3-18	Retrieves the width in pixels for a video proxy.
Get Proxy Video Height, page 3-19	Retrieves the height in pixels for a video proxy.
Get Proxy Model, page 3-20	Retrieves the model ID value for a proxy media source.
Get Proxy Status, page 3-21	Retrieves the status value for a proxy.

Start Proxy

http://*host***/command.bwt?command=start&type=proxy&name=***proxyName*
&source=*id@host***&srctype=***device***&mediatype=***codec*
&quality=*qualNum***&framerate=***rateNum***&width=***widthNum***&height=***heightNum*
&bitrate=*rateNum***&username=***name***&password=***password*
&resolution=*resVal***&format=***format***&udp=***udpNum***&multicast=***multicastIPAddress*

Purpose

Starts a proxy process on a media server that establishes a connection to a media source (such as an IP camera, an encoder, or another proxy) and writes media data to shared memory.

Required Fields

host	IP address or hostname (*hostname.domain*) where VSMS is running. By default, VSMS runs on port 80 (HTTP), however, you can use an alternate port, such as port 8080. For example, to specify port 8080, use *host***:8080**.
command=start	Start command. The **start** keyword associates the command with a start action, in this case a start proxy action. The **start** keyword is a reserved value.
type=proxy	Proxy type. The **proxy** keyword specifies the proxy command type. The **proxy** keyword is a reserved value.
name=*proxyName*	Proxy name where *proxyName* specifies the name of the proxy instance and the name of the source for a child proxy. The valid value for *proxyName* is an alphanumeric string containing 1 to 256 of the following characters: • Digits (0 to 9) • Upper case letters (A to Z) • Lower case letters (a to z) • Underscore (_) • Hyphen (-) The reserved *proxyName* value is -1. **Note** Each proxy must have a unique name on a given VSMS host.

source=*id@host*	Video source where *id@host* specifies the channel number and IP address of a video source. The *id* value can be one of the following: • Video input number of the IP camera or encoder. Valid values are 1 to 64. • Video input number and feed number (separated by an underscore) of the IP camera or encoder. This option applies only to video sources that support dual streaming. Valid input number values are 1 to 64. Valid feed number values are 1 and 2. • Name of the parent proxy. This option applies only to parent-child proxy configurations. The valid value is an alphanumeric string containing 1 to 256 of the following characters: – Digits (0 to 9) – Upper case letters (A to Z) – Lower case letters (a to z) – Underscore (_) – Hyphen (-) The reserved value is -1. For example: – 10.10.10.1 – 1@10.10.10.1 – 1_1@10.10.10.1. The *host* value is the IP address or hostname (*hostname.domain*) for the video source. You can optionally specify a port number with the IP address or hostname. For example, to specify port 8080, use *host***:8080**. If no port number is specified, port 80 is used by default. **Note** For child proxies, the parent proxy name becomes the source.
srctype=*device*	Source type where *device* specifies the device to use as the media source for the proxy, such as a parent proxy, an encoder, or an IP camera. If the source is a parent proxy, the *device* value is **proxy**. For all other devices (encoders and IP cameras), the valid *device* values are listed in the Keyword column of Table B-1 in Appendix B, "Supported Media Devices."
mediatype=*codec*	Media type where *codec* specifies the codec used to encode the media. Valid *codec* values include the following reserved keywords: • **mjpeg** • **mpeg2** • **mpeg4** • **h264** **Note** For more information about the supported devices for each media type, see Appendix B, "Supported Media Devices."

Optional Fields

quality=*qualNum*	Quality of the feed where *qualNum* specifies the compression ratio (the quality of the JPEG feed), which depends on the device and media type. 200 is the highest possible quality. The range of valid values for the *qualNum* value is 1 to 200; the default value is 50.
framerate=*rateNum*	Frame rate where *rateNum* specifies the maximum number of MJPEG frames transmitted per second. The default value is 5. **Note** A child proxy cannot have a higher frame rate value than the parent proxy.
width=*widthNum*	Width where *widthNum* specifies the width of the video feed in pixels, as supported by the device.
height=*heightNum*	Height where *heightNum* specifies the height of the video feed in pixels, as supported by the device.
bitrate=*rateNum*	Bit rate where *rateNum* specifies the Kilobytes transmitted per second for a video feed (applicable to non-MJPEG feeds). The minimum, maximum, and actual bit rates are device-dependent.
username=*name*	Username where *name* is the user name for an administrative user account of an encoding device, if required for authentication.
password=*password*	Password where *password* is the password for an administrative user account of an encoding device, if required for authentication.
resolution=*resVal*	Resolution where *resVal* specifies a predefined video width and height to use for the proxy, from the device.xml file. Valid *resVal* values include the following reserved keywords: • **cif**—Common intermediate format (CIF). For example, 352 x 240 for NTSC or 352 x 288 for PAL. • **qcif**—Quarter CIF. For example, 176 x 120 for NTSC or 176 x 144 for PAL. • **2cif**—2 x CIF. For example, 704 x 240 for NTSC or 704 x 288 for PAL. • **4cif**—4 x CIF. For example, 704 x 480 for NTSC or 704 x 576 for PAL. • **d1**—Sony D-1. For example, 720 x 480 for NTSC or 720 x 576 for PAL. • **1M**—1 megapixel. For example, 1024 x 768 for NTSC. • **2M**—2 megapixel. For example, 1280 x 960 for NTSC. • **3M**—3 megapixel. For example, 1280 x 1024 for NTSC. • **4M**—4 megapixel. For example, 2272 x 1704 for NTSC. • **5M**—5 megapixel. For example, 2560 x 1920 for NTSC.
format=*format*	Format where *format* specifies the video standard to use when determining the width and height of the video. Valid *format* values include the following reserved keywords: • **ntsc**—Used mostly in the United States, Canada, and portions of South America and specifies 525 lines per frame with a 60 Hz refresh rate. • **pal**—Used mostly in Europe, China, and Australia and specifies 625 lines per frame with a 50 Hz refresh rate.

udp=*udpNum*	Transport protocol where *udpNum* enables the TCP or UDP protocol for streams. Valid *udpNum* values are 0 (TCP) and 1 (UDP).
multicast=*multicastIP Address*	Multicast host name where *multicastIPAddress* is the IP address or hostname (*hostname.domain*) of the device originating the multicast stream. To start or join a multicast stream, specify the multicast group name.

Return Values

A standard HTTP/1.x header followed by:

```
Content-Type: text/plain
Return Code: <[proxy name] or -1 or output>
    [proxy name] Successful completion of the URL command
    -1 Error in execution of the URL command
```

Usage Guidelines

The video source can be an IP camera, an encoding device, or another proxy. Parent-child proxies can be nested indefinitely as resources permit.

Some encoding devices may not support all available bit rate, frame rate, resolution, or quality settings. Be sure to use settings supported by your encoding device. For more information about the supported settings for the encoding device, see Appendix B, "Supported Media Devices."

Examples

The following example starts a video proxy using the required fields. The proxy named basicProxy runs on the host named vsms.cisco.com, the video source is video input 1 of the device with IP address 192.168.200.20:

```
http://vsms.cisco.com/command.bwt?command=start&type=proxy&name=basicProxy
&srctype=c&type=jpeg&source=1@192.168.200.20
```

Update Proxy

http://*host***/command.bwt?command=update&type=proxy&name=***proxyName*
&source=*id*@*host***&srctype=***device***&mediatype=***codec***&framerate=***rateNum*
&width=*widthNum***&height=***heightNum***&bitrate=***rateNum***&username=***name*
&password=*password***&resolution=***resVal***&format=***format*

Purpose

Updates an existing proxy with different parameter values. For example, updating a proxy to a different source seamlessly changes the feed being viewed by all clients.

Caution If an archive is accessing the media data written to shared memory by the proxy, updating the proxy source causes the archive to be unplayable. In this case, stop the archive first, update the proxy, and then start a new archive.

Required Fields

host	IP address or hostname (*hostname.domain*) where VSMS is running. By default, VSMS runs on port 80 (HTTP), however, you can use an alternate port, such as port 8080. For example, to specify port 8080, use *host***:8080**.
command=update	Update command. The **update** keyword associates the command with an update action. The **update** keyword is a reserved value.
type=proxy	Proxy type. The **proxy** keyword specifies the proxy command type. The **proxy** keyword is a reserved value.
name=*proxyName*	Proxy name where *proxyName* specifies the name of the proxy instance and the name of the source for a child proxy. The valid value for *proxyName* is an alphanumeric string containing 1 to 256 of the following characters: • Digits (0 to 9) • Upper case letters (A to Z) • Lower case letters (a to z) • Underscore (_) • Hyphen (-) The reserved *proxyName* value is -1. **Note** Each proxy must have a unique name on a given VSMS host.

source=*id@host*	Video source where *id@host* specifies the channel number and IP address of a video source. The *id* value can be one of the following: • Video input number of the IP camera or encoder. Valid values are 1 to 64. • Video input number and feed number (separated by an underscore) of the IP camera or encoder. This option applies only to video sources that support dual streaming. Valid input number values are 1 to 64. Valid feed number values are 1 and 2. • Name of the parent proxy. This option applies only to parent-child proxy configurations. The valid value is an alphanumeric string containing 1 to 256 of the following characters: – Digits (0 to 9) – Upper case letters (A to Z) – Lower case letters (a to z) – Underscore (_) – Hyphen (-) The reserved value is -1. For example: – 10.10.10.1 – 1@10.10.10.1 – 1_1@10.10.10.1. The *host* value is the IP address or hostname (*hostname.domain*) for the video source. You can optionally specify a port number with the IP address or hostname. For example, to specify port 8080, use *host***:8080**. If no port number is specified, port 80 is used by default. **Note** For child proxies, the parent proxy name becomes the source.
srctype=*device*	Source type where *device* specifies the device to use as the media source for the proxy, such as a parent proxy, an encoder, or an IP camera. If the source is a parent proxy, the *device* value is **proxy**. For all other devices (encoders and IP cameras), the valid *device* values are listed in the Keyword column of Table B-1 in Appendix B, "Supported Media Devices."
mediatype=*codec*	Media type where *codec* specifies the codec used to encode the media. Valid *codec* values include the following reserved keywords: • **mjpeg** • **mpeg2** • **mpeg4** • **h264** **Note** For more information about the supported devices for each media type, see Appendix B, "Supported Media Devices."
framerate=*rateNum*	Frame rate where *rateNum* specifies the maximum number of MJPEG frames transmitted per second. The default value is 5. **Note** A child proxy cannot have a higher frame rate value than the parent proxy.

width=*widthNum*	Width where *widthNum* specifies the width of the video feed in pixels, as supported by the device.
height=*heightNum*	Height where *heightNum* specifies the height of the video feed in pixels, as supported by the device.
bitrate=*rateNum*	Bit rate where *rateNum* specifies the Kilobytes transmitted per second for a video feed (applicable to non-MJPEG feeds). The minimum, maximum, and actual bit rates are device-dependent.
username=*name*	Username where *name* is the user name for an administrative user account of an encoding device, if required for authentication.
password=*password*	Password where *password* is the password for an administrative user account of an encoding device, if required for authentication.
resolution=*resVal*	Resolution where *resVal* specifies a predefined video width and height to use for the proxy, from the device.xml file. Valid *resVal* values include the following reserved keywords: • **cif**—Common intermediate format (CIF). For example, 352 x 240 for NTSC or 352 x 288 for PAL. • **qcif**—Quarter CIF. For example, 176 x 120 for NTSC or 176 x 144 for PAL. • **2cif**—2 x CIF. For example, 704 x 240 for NTSC or 704 x 288 for PAL. • **4cif**—4 x CIF. For example, 704 x 480 for NTSC or 704 x 576 for PAL. • **d1**—Sony D-1. For example, 720 x 480 for NTSC or 720 x 576 for PAL. • **1M**—1 megapixel. For example, 1024 x 768 for NTSC. • **2M**—2 megapixel. For example, 1280 x 960 for NTSC. • **3M**—3 megapixel. For example, 1280 x 1024 for NTSC. • **4M**—4 megapixel. For example, 2272 x 1704 for NTSC. • **5M**—5 megapixel. For example, 2560 x 1920 for NTSC.
format=*format*	Format where *format* specifies the video standard to use when determining the width and height of the video. Valid *format* values include the following reserved keywords: • **ntsc**—Used mostly in the United States, Canada, and portions of South America and specifies 525 lines per frame with a 60 Hz refresh rate. • **pal**—Used mostly in Europe, China, and Australia and specifies 625 lines per frame with a 50 Hz refresh rate.

Optional Fields

username=*name*	Username where the *name* value is the user name for an administrative user account of an encoding device. **Note** The *name* value is required to do Camera Controls and Events Setup, and when user authentication is enabled for a device.
password=*password*	Password where the *password* value is the password for an administrative user account of an encoding device. **Note** The *password* value is required to do Camera Controls and Events Setup, and when user authentication is enabled for a device.
format=*format*	Format where the *format* value specifies the video standard to use when determining the resolution of the video. Valid *format* values include the following reserved keywords: • **ntsc**—Used mostly in the United States, Canada, and portions of South America and specifies 525 lines per frame with a 60 Hz refresh rate. • **pal**—Used mostly in Europe, China, and Australia and specifies 625 lines per frame with a 50 Hz refresh rate. **Note** The actual video size is determined by the resolution , format, and device driver settings for the source type (unless you specify the width and height). The default *format* value is **ntsc**.

Return Values

A standard HTTP/1.x header followed by:

```
Content-Type: text/plain
Return Code: <[proxy name] or -1 or output>
    [proxy name] Successful completion of the URL command
    -1 Error in execution of the URL command
```

Examples

The following example updates the proxy named Front_Office on vsms.cisco.com to use a frame rate of 10 frames per second:

```
http://vsms.cisco.com/command.bwt?command=update&source=1@camera.cisco.com&type=proxy&srct
ype=proxy&name=Front_Office&framerate=10
```

Stop Proxy

http://*host***/command.bwt?command=stop&type=proxy&name=***proxyName*

Purpose

Stops a running proxy and all archives accessing the media data written to shared memory by the proxy.

Required Fields

host	IP address or hostname (*hostname.domain*) where VSMS is running. By default, VSMS runs on port 80 (HTTP), however, you can use an alternate port, such as port 8080. For example, to specify port 8080, use *host***:8080**.
command=stop	Stop command. The **stop** keyword associates the command with a stop action. The **stop** keyword is a reserved value.
type=proxy	Proxy type. The **proxy** keyword specifies the proxy command type. The **proxy** keyword is a reserved value.
name=*proxyName*	Proxy name where *proxyName* specifies the name of the proxy instance and the name of the source for a child proxy. The valid value for *proxyName* is an alphanumeric string containing 1 to 256 of the following characters: • Digits (0 to 9) • Upper case letters (A to Z) • Lower case letters (a to z) • Underscore (_) • Hyphen (-) The reserved *proxyName* value is -1. **Note** Each proxy must have a unique name on a given VSMS host.

Return Values

A standard HTTP/1.x header followed by:

```
Content-Type: text/plain
Return Code: <[proxy name] or -1 or output>
    [proxy name] Successful completion of the URL command
    -1 Error in execution of the URL command
```

Examples

The following example stops the proxy named officeCam and any archives running against that proxy on the VSMS host.

```
http://vsms.cisco.com/command.bwt?command=stop&type=proxy&name=officeCam
```

View JPEG Frames

http://*host***/video.jpg?source=***proxyName***&framerate=***rateNum*

Purpose

Displays JPEG frames from a proxy. This command only applies to MPJEG video streams.

Required Fields

host	IP address or hostname (*hostname.domain*) where VSMS is running. By default, VSMS runs on port 80 (HTTP), however, you can use an alternate port, such as port 8080. For example, to specify port 8080, use *host***:8080**.
source=*proxyName*	Source proxy where *proxyName* specifies the proxy name for the MJPEG media source. The valid value is an alphanumeric string containing 1 to 256 of the following characters: – Digits (0 to 9) – Upper case letters (A to Z) – Lower case letters (a to z) – Underscore (_) – Hyphen (-) The reserved value is -1.
framerate=*rateNum*	Frame rate where *rateNum* specifies the maximum number of MJPEG frames transmitted per second. The default value is 5.

Examples

The following example views the JPEG frames from the MJPEG proxy named officeCam.

```
http://vsms.cisco.com/video.jpg?source=officeCam&framerate=0
```

List All Proxies

http://*host***/info.bwt?type=proxy&name=***proxyName***&display=***dispFormat*

Purpose

Displays a list of all proxies running on a VSMS host.

Required Fields

host	IP address or hostname (*hostname.domain*) where VSMS is running. By default, VSMS runs on port 80 (HTTP), however, you can use an alternate port, such as port 8080. For example, to specify port 8080, use *host***:8080**.
type=proxy	Proxy type. The **proxy** keyword specifies the proxy command type. The **proxy** keyword is a reserved value.

Optional Fields

name=*proxyName*	Proxy name where *proxyName* specifies the name of the proxy instance and the name of the source for a child proxy. The valid value for *proxyName* is an alphanumeric string containing 1 to 256 of the following characters: • Digits (0 to 9) • Upper case letters (A to Z) • Lower case letters (a to z) • Underscore (_) • Hyphen (-) The reserved *proxyName* value is -1. **Note** Each proxy must have a unique name on a given VSMS host.
display=*dispFormat*	Displayformat where *dispFormat* specifies the format to use when displaying the list of running proxies. Valid *dispFormat* values include the following keywords: • **html**—Hypertext markup language format • **text**—Plain text format • **ssv**—Space-separated value format The default *dispFormat* value is **html**.

Return Values

A standard HTTP/1.x header followed by:

```
Content-Type: text/plain
Return Code: <[Proxy List] or -1 or output>
    [Proxy List] Successful completion of the URL command
    -1 Error in execution of the URL command
```

Examples

Listing All Running Proxies

The following example retrieves a list in SSV format of all running proxies on the host named vsms.cisco.com:

```
http://vsms.cisco.com/info.bwt?type=proxy&display=ssv
```

Listing A Single Proxy

The following example retrieves the details in TEXT format of a proxy named officeCam running proxies on the host named vsms.cisco.com:

```
http://vsms.cisco.com/info.bwt?type=proxy&name=officeCam&display=text
```

Get Proxy Source

http://*host***/info.bwt?type=proxy&name=***proxyName***&property=source**

Purpose

Retrieves device information for a proxy, The return value is in plain text format can be in one of the following media sources:

- Video input number of an IP camera or encoder
- Video input number and feed number (separated by an underscore) of an IP camera or encoder
- Name of a parent proxy

Required Fields

host	IP address or hostname (*hostname.domain*) where VSMS is running. By default, VSMS runs on port 80 (HTTP), however, you can use an alternate port, such as port 8080. For example, to specify port 8080, use *host***:8080**.
type=proxy	Proxy type. The **proxy** keyword specifies the proxy command type. The **proxy** keyword is a reserved value.
name=*proxyName*	Proxy name where *proxyName* specifies the name of the proxy instance and the name of the source for a child proxy. The valid value for *proxyName* is an alphanumeric string containing 1 to 256 of the following characters: • Digits (0 to 9) • Upper case letters (A to Z) • Lower case letters (a to z) • Underscore (_) • Hyphen (-) The reserved *proxyName* value is -1. **Note** Each proxy must have a unique name on a given VSMS host.
property=source	Source property. The **source** keyword requests the source value for the specified proxy. The **source** keyword is a reserved value.

Return Values

A standard HTTP/1.x header followed by:

```
Content-Type: text/plain
Return Code: <[name@address:port] or -1 or output>
    [name@address:port] Successful completion of the URL command
    -1 Error in execution of the URL command
```

Examples

The following example retrieves device information for proxy 1036:

```
http://vsms.cisco.com/info.bwt?type=proxy&name=1036&property=source
```

Get Proxy Media Type

http://*host***/info.bwt?type=proxy&name=***proxyName***&property=mediatype**

Purpose

Retrieves the encoding media type value for a proxy.

Required Fields

host	IP address or hostname (*hostname.domain*) where VSMS is running. By default, VSMS runs on port 80 (HTTP), however, you can use an alternate port, such as port 8080. For example, to specify port 8080, use *host***:8080**.
type=proxy	Proxy type. The **proxy** keyword specifies the proxy command type. The **proxy** keyword is a reserved value.
name=*proxyName*	Proxy name where *proxyName* specifies the name of the proxy instance and the name of the source for a child proxy. The valid value for *proxyName* is an alphanumeric string containing 1 to 256 of the following characters: • Digits (0 to 9) • Upper case letters (A to Z) • Lower case letters (a to z) • Underscore (_) • Hyphen (-) The reserved *proxyName* value is -1. **Note** Each proxy must have a unique name on a given VSMS host.
property=mediatype	Media type property. The **mediatype** keyword requests the media type value for the specified proxy. The **mediatype** keyword is a reserved value.

Return Values

A standard HTTP/1.x header followed by:

```
Content-Type: text/plain
Return Code: <[Media type] or -1 or output>
    [Media type] Successful completion of the URL command
    -1 Error in execution of the URL command
```

Examples

The following example retrieves the encoding media type value for the proxy named officeCam:

```
http://vsms.cisco.com/info.bwt?type=proxy&name=officeCam&property=mediatype
```

Get Proxy Frame Rate or Bit Rate

http://*host***/info.bwt?type=proxy&name=***proxyName***&property=rate**

Purpose

Retrieves the frame rate value for a JPEG proxy or the bit rate value for an MPEG proxy. The return value is in plain text format.

Required Fields

host	IP address or hostname (*hostname.domain*) where VSMS is running. By default, VSMS runs on port 80 (HTTP), however, you can use an alternate port, such as port 8080. For example, to specify port 8080, use *host***:8080**.
type=proxy	Proxy type. The **proxy** keyword specifies the proxy command type. The **proxy** keyword is a reserved value.
name=*proxyName*	Proxy name where *proxyName* specifies the name of the proxy instance and the name of the source for a child proxy. The valid value for *proxyName* is an alphanumeric string containing 1 to 256 of the following characters: • Digits (0 to 9) • Upper case letters (A to Z) • Lower case letters (a to z) • Underscore (_) • Hyphen (-) The reserved *proxyName* value is -1. **Note** Each proxy must have a unique name on a given VSMS host.
property=rate	Rate property. The **rate** keyword requests the the frame rate or bit rate value for the specified proxy. The **rate** keyword is a reserved value.

Return Values

A standard HTTP/1.x header followed by:

```
Content-Type: text/plain
Return Code: <[framerate | bitrate] or -1 or output>
    [framerate | bitrate] Successful completion of the URL command
    -1 Error in execution of the URL command
```

Examples

The following example retrieves the bit rate or frame rate value, which depends on the encoding media type (MJPEG or MPEG), for the proxy named officeCam:

```
http://vsms.cisco.com/info.bwt?type=proxy&name=officeCam&property=rate
```

Get MJPEG Proxy Quality

http://*host***/info.bwt?type=proxy&name=***proxyName***&property=quality**

Purpose

Retrieves the quality value for an MJPEG proxy. The return value is in plain text format.

Required Fields

host	IP address or hostname (*hostname.domain*) where VSMS is running. By default, VSMS runs on port 80 (HTTP), however, you can use an alternate port, such as port 8080. For example, to specify port 8080, use *host***:8080**.
type=proxy	Proxy type. The **proxy** keyword specifies the proxy command type. The **proxy** keyword is a reserved value.
name=*proxyName*	Proxy name where *proxyName* specifies the name of the proxy instance and the name of the source for a child proxy. The valid value for *proxyName* is an alphanumeric string containing 1 to 256 of the following characters: • Digits (0 to 9) • Upper case letters (A to Z) • Lower case letters (a to z) • Underscore (_) • Hyphen (-) The reserved *proxyName* value is -1. **Note** Each proxy must have a unique name on a given VSMS host.
property=quality	Quality property. The **quality** keyword requests the quality value for the MJPEG proxy. The **quality** keyword is a reserved value. **Note** This command only works for MJPEG proxies. For other media type proxies, an error is returned (-1).

Return Values

A standard HTTP/1.x header followed by:

```
Content-Type: text/plain
Return Code: <[1-100] or -1 or output>
    [1-100] Successful completion of the URL command
    -1 Error in execution of the URL command
        Error String: <error-message>
```

Examples

The following example retrieves the quality value for the proxy named testProxy:

```
http://vsms.cisco.com/info.bwt?type=proxy&name=testProxy&property=quality
```

Get Proxy Video Width

http://*host***/info.bwt?type=proxy&name=***proxyName***&property=width**

Purpose

Retrieves the width in pixels for a video proxy. The return value is in plain text format.

Required Fields

host	IP address or hostname (*hostname.domain*) where VSMS is running. By default, VSMS runs on port 80 (HTTP), however, you can use an alternate port, such as port 8080. For example, to specify port 8080, use *host***:8080**.
type=proxy	Proxy type. The **proxy** keyword specifies the proxy command type. The **proxy** keyword is a reserved value.
name=*proxyName*	Proxy name where *proxyName* specifies the name of the proxy instance and the name of the source for a child proxy. The valid value for *proxyName* is an alphanumeric string containing 1 to 256 of the following characters: • Digits (0 to 9) • Upper case letters (A to Z) • Lower case letters (a to z) • Underscore (_) • Hyphen (-) The reserved *proxyName* value is -1. **Note** Each proxy must have a unique name on a given VSMS host.
property=width	Width property. The **width** keyword requests the width in pixels of the video stream. The **width** keyword is a reserved value.

Return Values

A standard HTTP/1.x header followed by:

```
Content-Type: text/plain
Return Code: <[Pixel width] or -1 or output>
    [Pixel width] Successful completion of the URL command
    -1 Error in execution of the URL command
```

Examples

The following example retrieves the video width in pixels for the proxy named officeCam:

```
http://vsms.cisco.com/info.bwt?type=proxy&name=officeCam&property=width
```

Get Proxy Video Height

http://*host***/info.bwt?type=proxy&name=***proxyName***&property=height**

Purpose

Retrieves the height in pixels for a video proxy. The return value is in plain text format.

Required Fields

host	IP address or hostname (*hostname.domain*) where VSMS is running. By default, VSMS runs on port 80 (HTTP), however, you can use an alternate port, such as port 8080. For example, to specify port 8080, use *host***:8080**.
type=proxy	Proxy type. The **proxy** keyword specifies the proxy command type. The **proxy** keyword is a reserved value.
name=*proxyName*	Proxy name where *proxyName* specifies the name of the proxy instance and the name of the source for a child proxy. The valid value for *proxyName* is an alphanumeric string containing 1 to 256 of the following characters: • Digits (0 to 9) • Upper case letters (A to Z) • Lower case letters (a to z) • Underscore (_) • Hyphen (-) The reserved *proxyName* value is -1. **Note** Each proxy must have a unique name on a given VSMS host.
property=height	Height property. The **height** keyword requests the height in pixels of the video stream. The **height** keyword is a reserved value.

Return Values

A standard HTTP/1.x header followed by:

```
Content-Type: text/plain
Return Code: <[Pixel height] or -1 or output>
    [Pixel height] Successful completion of the URL command
    -1 Error in execution of the URL command
```

Examples

The following example retrieves the video height in pixels for proxy 1036:

```
http://vsms.cisco.com/info.bwt?type=proxy&name=1036&property=height
```

Get Proxy Model

http://*host***/info.bwt?type=proxy&name=***proxyName***&property=model**

Purpose

Retrieves the model number for a proxy media source. The return value is in plain text format.

Required Fields

host	IP address or hostname (*hostname.domain*) where VSMS is running. By default, VSMS runs on port 80 (HTTP), however, you can use an alternate port, such as port 8080. For example, to specify port 8080, use *host***:8080**.
type=proxy	Proxy type. The **proxy** keyword specifies the proxy command type. The **proxy** keyword is a reserved value.
name=*proxyName*	Proxy name where *proxyName* specifies the name of the proxy instance and the name of the source for a child proxy. The valid value for *proxyName* is an alphanumeric string containing 1 to 256 of the following characters: • Digits (0 to 9) • Upper case letters (A to Z) • Lower case letters (a to z) • Underscore (_) • Hyphen (-) The reserved *proxyName* value is -1. **Note** Each proxy must have a unique name on a given VSMS host.
property=model	Model property. The **model** keyword requests the model number of the device for the specified proxy. The model number is the unique proxy ID associated with the device. The **model** keyword is a reserved value.

Return Values

A standard HTTP/1.x header followed by:

```
Content-Type: text/plain
Return Code: <[1-200] or -1 or output>
    [1-200] Successful completion of the URL command
    -1 Error in execution of the URL command
```

Examples

The following example retrieves the model number for proxy 1036:

```
http://vsms.cisco.com/info.bwt?type=proxy&name=1036&property=model
```

Get Proxy Status

http://*host***/info.bwt?type=proxy&name=***proxyName***&property=status**

Purpose

Retrieves the status (running, stopped, or suspended) for a proxy. The return value is in plain text format and can be one of the following reserved keywords:

- **Running**—Proxy is running normally
- **Stopped**—Failed due to an error. A proxy stopped by a stop proxy command would not be listed here
- **Suspended**—Proxy is in a postponed state

Required Fields

host	IP address or hostname (*hostname.domain*) where VSMS is running. By default, VSMS runs on port 80 (HTTP), however, you can use an alternate port, such as port 8080. For example, to specify port 8080, use *host***:8080**.
type=proxy	Proxy type. The **proxy** keyword specifies the proxy command type. The **proxy** keyword is a reserved value.
name=*proxyName*	Proxy name where *proxyName* specifies the name of the proxy instance and the name of the source for a child proxy. The valid value for *proxyName* is an alphanumeric string containing 1 to 256 of the following characters: • Digits (0 to 9) • Upper case letters (A to Z) • Lower case letters (a to z) • Underscore (_) • Hyphen (-) The reserved *proxyName* value is -1. **Note** Each proxy must have a unique name on a given VSMS host.
property=status	Status property. The **status** keyword requests the current status of the specified proxy. The **status** keyword is a reserved value.

Return Values

A standard HTTP/1.x header followed by:

```
Content-Type: text/plain
Return Code: <[Running | Stopped | Suspended] or -1 or output>
    [Running | Stopped | Suspended] Successful completion of the URL command
    -1 Error in execution of the URL command
```

Examples

The following example retrieves the status for proxy 1036:

```
http://vsms.cisco.com/info.bwt?type=proxy&name=1036&property=status
```

Get Proxy Device

http://*host***/info.bwt?type=proxy&name=***proxyName***&property=device**

Purpose

Retrieves the current device information for a proxy. The return value is in plain text format.

Required Fields

host	IP address or hostname (*hostname.domain*) where VSMS is running. By default, VSMS runs on port 80 (HTTP), however, you can use an alternate port, such as port 8080. For example, to specify port 8080, use *host***:8080**.
type=proxy	Proxy type. The **proxy** keyword specifies the proxy command type. The **proxy** keyword is a reserved value.
name=*proxyName*	Proxy name where *proxyName* specifies the name of the proxy instance and the name of the source for a child proxy. The valid value for *proxyName* is an alphanumeric string containing 1 to 256 of the following characters: • Digits (0 to 9) • Upper case letters (A to Z) • Lower case letters (a to z) • Underscore (_) • Hyphen (-) The reserved *proxyName* value is -1. **Note** Each proxy must have a unique name on a given VSMS host.
property=device	Device property. The **device** keyword requests the device information for the specified proxy. The **device** keyword is a reserved value.

Return Values

A standard HTTP/1.x header followed by:

```
Content-Type: text/plain
Return Code: <[Device name] or -1 or output>
    [Device name] Successful completion of the URL command
    -1 Error in execution of the URL command
```

Examples

The following example retrieves the current device information for proxy 1036:

```
http://vsms.cisco.com/info.bwt?type=proxy&name=1036&property=device
```

Get Proxy Frame Size

http://*host***/info.bwt?type=framesize&name=***proxyName*

Purpose

Retrieves the frame size of a proxy. The return value is in plain text format.

Required Fields

host	IP address or hostname (*hostname.domain*) where VSMS is running. By default, VSMS runs on port 80 (HTTP), however, you can use an alternate port, such as port 8080. For example, to specify port 8080, use *host***:8080**.
type=framesize	Frame size type. The **framesize** keyword requests the frame size for the proxy. The **framesize** keyword is a reserved value.
name=*proxyName*	Proxy name where *proxyName* specifies the name of the proxy instance and the name of the source for a child proxy. The valid value for *proxyName* is an alphanumeric string containing 1 to 256 of the following characters: • Digits (0 to 9) • Upper case letters (A to Z) • Lower case letters (a to z) • Underscore (_) • Hyphen (-) The reserved *proxyName* value is -1. **Note** Each proxy must have a unique name on a given VSMS host.

Return Values

A standard HTTP/1.x header followed by:

```
Content-Type: text/plain
Return Code: <[Device name] or -1 or output>
    [Device name] Successful completion of the URL command
    -1 Error in execution of the URL command
```

Examples

The following example retrieves the current device information for proxy 1036:

```
http://vsms.cisco.com/info.bwt?type=proxy&name=1036&property=device
```