



Programmer's Manual

HTTP Commands Reference for RTSP Protocol

Insignis RTSP and HTTP commands Reference Manual

Created: 2006-12-12 by: Damiano Colombo
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If you find any problems in this manual, please report them to:

Insignis Technologies s.r.l.

Via Laboratori Autobianchi, 1
Edificio 23
20033 Desio . Milano . ITALY

Web Site: www.cieffe.com
E-mail: info@cieffe.com



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Introduction

Overview

This chapter provides a general introduction to this manual, its structure and how to use the information within. It also provides information about:

- RTP, RTCP, RTSP protocols for real time streaming and flow control.
- Standard implementations and known clients able to receive and display these kinds of streams.

About this manual

This manual is intended for the software developers who will take advantages of the RTSP (Real Time Streaming Protocol) supported by Insignis Technologies to interact with its status-of-the-art DVMS client-server systems.

This document is divided into two sections:

1. Introduction
2. Reference

The Reference section lists all the functions and commands supported by Linearis and Spectiva DVMSes.

About RTP protocols

RTP / RTCP

This protocol is described in RFC-1889 [1]. RTP provides end-to-end network transport functions suitable for applications transmitting real-time data, such as audio, video or simulation data, over multicast or unicast network services. RTP does not address resource reservation and does not guarantee quality-of-service for real-time services. The data transport is augmented by a control protocol (RTCP) to allow monitoring of the data delivery in a manner scalable to large multicast networks, and to provide minimal control and identification functionality. RTP and RTCP are designed to be independent of the underlying transport and network layers.



RTSP

This protocol is described in RFC-2326 [8]. The Real Time Streaming Protocol, or RTSP, is an application-level protocol for control over the delivery of data with real-time properties. RTSP provides an extensible framework to enable controlled, on-demand delivery of real-time data, such as audio and video. Sources of data can include both live data feeds and stored clips. This protocol is intended to control multiple data delivery sessions, provide a means for choosing delivery channels such as UDP, multicast UDP and TCP, and provide a comfortable interface for choosing delivery mechanisms based upon RTP.

Known implementation

Clients / Players

Our streaming technology has been tested with many different clients and proved to be perfectly compatible with the most known video player capable of displaying streamed medias, such as VideoLan and Mplayer, but also Apple® QuickTime® .

Samples :

VLC

Open VLC player

Click "File" -> "Open Network Stream..."

Select "RTSP" radio button ,

In order to view the encoder number 1 from the camera 3 with user "admin" and "password "1234" from a server whit address 192.168.1.1 write this URL:

```
rtsp://admin:1234@192.168.1.1/video3enc1.sdp
```

Mplayer

launch mplayer using this command line:

```
mplayer rtsp://admin:1234@192.168.1.1/video3enc1.sdp
```

in order to force the image rate, add this switch at the end:

```
-fps 25
```

Apple QuickTime

open Apple QuickTime

Click "File" -> "Open URL..."

Write this URL:

```
rtsp://192.168.1.1/video3enc1.sdp
```

DO NOT write user and password in the URL, they will be asked later.



Third party open source libraries

There are many different implementations of RTP/RTCP and RTSP protocols available to the developers, very useful to write efficient code in a short time. These are the most used worldwide:

- Live555 from Live Networks, Inc. (website <http://www.live555.com>)
- JRTPLIB by Jori Liesenborgs (Website <http://research.edm.uhasselt.be/~jori/>)

Reference

Overview

This section contains a complete reference of Linearis and Spectiva RTSP protocol implementation and HTTP commands to perform specific operations:

- STREAMING COMMANDS
- STATUS COMMANDS
- MOTION AREA DEFINITION COMMANDS

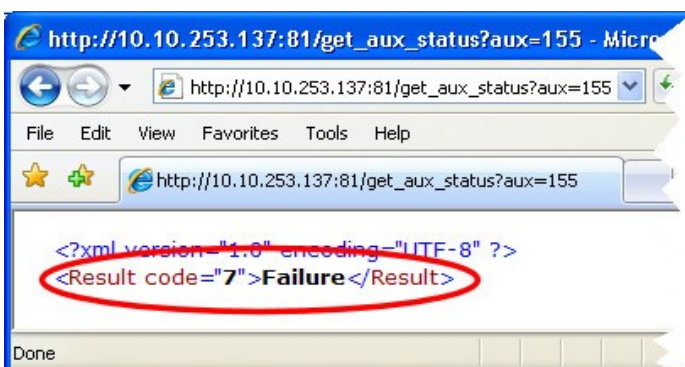
Status code definitions

The web server dedicated to the processing of the http commands always returns a status code to describe the status of the requests; these are:

Status code	Explanation
HTTP/1.0 200 OK	The request has been accepted.
HTTP/1.0 400 Bad Request	Syntax error in the request.
HTTP/1.0 401 Unauthorized	Insufficient user rights or too many user connected.

Response XML document

Every accepted request will be replied with an XML document containing the requested data or extended information about possible errors. In case of error, the error code is inserted as an attribute with the name "code" in the "Result" tag of the XML, as shown in the picture 1.



Picture 1: the attribute "code" contains the error code (in this case 7) for a nonsense request.

This table summarize the meaning of each different error code.

Error code	Explanation
1	Not implemented (the requested command has not been implemented yet).
2	The web service cannot connect to the server (internal error).
3	Communication error (internal error).
4	Insufficient user rights.
5	The maximum connection limit has been reached.
6	Invalid stream ID (or camera,dome,alarm,AUX ID)
7	At least one parameter is out of range.
8	Error with the parameters. Maybe that any required parameter is not present.



STREAMING COMMANDS

The following commands are provided to create new streams and to control the playback.

Command	Description
open_stream	Creates a new stream for the specified camera and encoder.
close_stream	Closes the specified stream.
keep_alive	Avoids the automatic stream closure caused by low activity.
select_channel	Switches the current stream to another camera/encoder.
play_mode	Switches between live view and playback.
play_begin	Moves the playback to the beginning.
play_end	Moves the playback to the beginning.
play_find	Moves the playback to the specified date/hour.
play_rew	Sets the current stream to be played reverse.
play_ffw	Changes sector to playback in the selected window.

Remarks

As a consequence of the fact that Cieffe DVMSes support different encoding models (varying for resolution, frame rate and bitrate) it could happen that the encoder changes during live display or playback. In this case you could need to destroy the running decoder to create a new one suitable to the currently running stream. Please note that you don't need to create a new stream ID for the streaming control!

It also possible that the stream is destroyed directly by the server, for the same reasons,

This situation could happen during playback, if the encoder configuration was changed in the past, but also when displaying the live video, if an authorized user is changing the current configuration. In this situation VideoLan stops displaying the video, or gets corrupted, while Mplayer just closes.

open_stream command

Purpose

Asks the server for a new stream to be created on specific camera and encoder. A stream ID will be returned in XML format.

Compatibility

Linearis: yes

Spectiva: yes

Syntax

http://<USER>:<PWD>@<IP>:<PORT>/open_stream?[video=<VIDEO>]&[enc=<ENC>]

example: http://admin:1234@192.168.1.2:81/open_stream?video=1&enc=1

Input parameters

Name	Description
<USER>	The user name, as configured in the DVMS.
<PWD>	The password associated with the user.
<IP>	The IP address of the DVMS to connect to.
<PORT>	The port of the listening server. <u>THE DEFAULT PORT IS 81.</u>
<VIDEO>	The number of the camera. Valid range is [1 .. MAX_CAMERAS]
<ENC>	The number of the camera. Valid range is [1 .. MAX_ENCODERS]

Remarks

Use the stream ID returned in the XML document for all the other operation you can perform using the commands described in this section.

If the specified <USER> or <PWD> are invalid, the server returns the HTTP error 401.

If the maximum number of available streams has already been reached, the XML document returned by the server will not contain a stream ID, but a “too many streams” error string.

The total amount of available user streams is set to 4.

Once the stream has been created, you can connect to the network stream using this URL (for example in VLC):

```
rtsp://<USER>:<PWD>@<IP>/stream<ID>.sdp
```

example:

```
rtsp://admin:@192.168.1.2/stream3243554323.sdp
```

close_stream command

Purpose

Tells the server to close the stream identified by the given ID.

Compatibility

Linearis: yes

Spectiva: yes

Syntax

http://<USER>:<PWD>@<IP>:<PORT>/close_stream?[id=<ID>]

example: http://admin:1234@192.168.1.2:81/close_stream?id=09573284

Input parameters

Name	Description
<USER>	The user name, as configured in the DVMS.
<PWD>	The password associated with the user.
<IP>	The IP address of the DVMS to connect to.
<PORT>	The port of the listening server. <u>THE DEFAULT PORT IS 81.</u>
<ID>	The ID of the stream that was returned by the open_stream command

Remarks

If the specified <USER> or <PWD> are invalid, the server returns the HTTP error 401.

keep_alive command

Purpose

Use this command to tell the server not to destroy the stream when a timeout error is triggered by the RTSP protocol. This stream will remain available for future transmission

Compatibility

Linearis: yes

Spectiva: yes

Syntax

http://<USER>:<PWD>@<IP>:<PORT>/keep_alive?id=<ID>

example: http://admin:1234@192.168.1.2:81/keep_alive?id=94362244

Input parameters

Name	Description
<USER>	The user name, as configured in the DVMS.
<PWD>	The password associated with the user.
<IP>	The IP address of the DVMS to connect to.
<PORT>	The port of the listening server. <u>THE DEFAULT PORT IS 81.</u>
<ID>	The ID of the stream that was returned by the open_stream command

Remarks

Use the stream ID returned in the XML document after the call of the "open_stream" command.

This stream ID will never be made free automatically by the server. In order to free this ID you need to call a close_stream command.

Furthermore, even if no one is actually using the stream, this server resource is occupied and there will be one less stream available for creation.

If the specified <USER> or <PWD> are invalid, the server returns the HTTP error 401.

select_channel command

Purpose

Tells the server to switch to another camera and/or encoder, without destroying the actual stream, but using the same.

Compatibility

Linearis: yes

Spectiva: yes

Syntax

`http://<USER>:<PWD>@<IP>:<PORT>select_channel?id=<ID>[&video=<VIDEO>]&[enc=<ENC>]&[force]`

example: `http://admin:1234@192.168.1.2:81/select_channel?id=94362244&video=4&enc=2&force`

Input parameters

Name	Description
<USER>	The user name, as configured in the DVMS.
<PWD>	The password associated with the user.
<IP>	The IP address of the DVMS to connect to.
<PORT>	The port of the listening server. <u>THE DEFAULT PORT IS 81.</u>
<ID>	The Id of the stream to manipulate.
<VIDEO>	The number of the camera. Valid range is [1 .. MAX_CAMERAS]
<ENC>	The number of the camera. Valid range is [1 .. MAX_ENCODERS]
[force]	Optional field. Use this switch if you want to force a key frame after the modification to the stream are applied.

Remarks

Use the stream ID returned in the XML document after the call of the "open_stream" command.

If the specified <USER> or <PWD> are invalid, the server returns the HTTP error 401.

play_mode command

Purpose

Use this command to switch between live view and playback.

Compatibility

Linearis: yes

Spectiva: yes

Syntax

http://<USER>:<PWD>@<IP>:<PORT>play_mode?id=<ID>&[on|off]

example: http://admin:1234@192.168.1.2:81/play_mode?id=3243554323&on

Input parameters

Name	Description
<USER>	The user name, as configured in the DVMS.
<PWD>	The password associated with the user.
<IP>	The IP address of the DVMS to connect to.
<PORT>	The port of the listening server. <u>THE DEFAULT PORT IS 81.</u>
<ID>	The Id of the stream to manipulate.
[on off]	Use the “on” switch to activate playback, use “off” to view live video.

Remarks

Use the stream ID returned in the XML document for all the other operation you can perform using the commands described in this section.

If the specified <USER> or <PWD> are invalid, the server returns the HTTP error 401.

play_begin command

Purpose

Use this command to start the playback from the beginning of the recordings of the camera/encoder associated with the specified stream ID.

Compatibility

Linearis: yes

Spectiva: yes

Syntax

http://<USER>:<PWD>@<IP>:<PORT>play_begin?id=<ID>

example: http://admin:1234@192.168.1.2:81/play_begin?id=3243554323

Input parameters

Name	Description
<USER>	The user name, as configured in the DVMS.
<PWD>	The password associated with the user.
<IP>	The IP address of the DVMS to connect to.
<PORT>	The port of the listening server. <u>THE DEFAULT PORT IS 81.</u>
<ID>	The Id of the stream to transmit.

Remarks

Use the stream ID returned in the XML document after the call of the "open_stream" command.

Calling this command when NOT IN PLAYBACK mode, will cause it to be ignored.

If the specified <USER> or <PWD> are invalid, the server returns the HTTP error 401.

play_end command

Purpose

Use this command to move the playback to the end of the recordingS of the camera/encoder associated with the specified stream ID.

Compatibility

Linearis: yes

Spectiva: yes

Syntax

http://<USER>:<PWD>@<IP>:<PORT>play_end?id=<ID>

example: http://admin:1234@192.168.1.2:81/play_end?id=3243554323

Input parameters

Name	Description
<USER>	The user name, as configured in the DVMS.
<PWD>	The password associated with the user.
<IP>	The IP address of the DVMS to connect to.
<PORT>	The port of the listening server. <u>THE DEFAULT PORT IS 81.</u>
<ID>	The Id of the stream to transmit.

Remarks

Use the stream ID returned in the XML document after the call of the "open_stream" command.

Calling this command when NOT IN PLAYBACK mode, will cause it to be ignored.

If the specified <USER> or <PWD> are invalid, the server returns the HTTP error 401.

play_find command

Purpose

Use this command to move the playback of the recordings of the camera/encoder associated with the specified stream ID to the specified date and hour .

Compatibility

Linearis: yes

Spectiva: yes

Syntax

```
http://<USER>:<PWD>@<IP>:<PORT>play_find?id=<ID>&date=<DATE>&time=<TIME>
```

example:

```
http://admin:1234@192.168.1.2:81/play_find?id=3243554323&date=20061225  
&time=183000
```

Input parameters

Name	Description
<USER>	The user name, as configured in the DVMS.
<PWD>	The password associated with the user.
<IP>	The IP address of the DVMS to connect to.
<PORT>	The port of the listening server. <u>THE DEFAULT PORT IS 81.</u>
<ID>	The Id of the stream to transmit.
<DATE>	The requested date in ISO format <code>yyyymmdd</code>
<TIME>	The requested hour in ISO format <code>hhmmss</code>

Remarks

Use the stream ID returned in the XML document after the call of the "open_stream" command.

Calling this command when NOT IN PLAYBACK mode, will cause it to be ignored.

If the requested time is not available , the playback will start from the nearest FOLLOWING recorded video.

If the specified <USER> or <PWD> are invalid, the server returns the HTTP error 401.

play_rew command

Purpose

Use this command to rewind the playback of the recording of the camera/encoder associated with the specified stream ID using the given speed.

Compatibility

Linearis: yes

Spectiva: yes

Syntax

http://<USER>:<PWD>@<IP>:<PORT>play_rew?id=<ID>&speed=<SPEED>

example: http://admin:1234@192.168.1.2:81/play_rew?id=1&speed=16

Input parameters

Name	Description
<USER>	The user name, as configured in the DVMS.
<PWD>	The password associated with the user.
<IP>	The IP address of the DVMS to connect to.
<PORT>	The port of the listening server. <u>THE DEFAULT PORT IS 81.</u>
<ID>	The Id of the stream to transmit.
<SPEED>	The speed to be used for playback. Valid values are (1; 2; 4; 8; 16; 32; 64; 128; 256; 512)

Remarks

Use the stream ID returned in the XML document after the call of the "open_stream" command.

Calling this command when NOT IN PLAYBACK mode, will cause it to be ignored.

If the specified <USER> or <PWD> are invalid, the server returns the HTTP error 401.

play_ffw command

Purpose

Use this command to play the recorded video of the camera/encoder associated with the specified stream ID fast forward using the given speed.

Compatibility

Linearis: yes

Spectiva: yes

Syntax

`http://<USER>:<PWD>@<IP>:<PORT>play_ffw?id=<ID>&speed=<SPEED>`

example: `http://admin:1234@192.168.1.2:81/play_ffw?id=1&speed=16`

Input parameters

Name	Description
<USER>	The user name, as configured in the DVMS.
<PWD>	The password associated with the user.
<IP>	The IP address of the DVMS to connect to.
<PORT>	The port of the listening server. <u>THE DEFAULT PORT IS 81.</u>
<ID>	The Id of the stream to transmit.
<SPEED>	The speed to be used for playback. Valid values are (1; 2; 4; 8; 16; 32; 64; 128; 256; 512)

Remarks

Use the stream ID returned in the XML document after the call of the "open_stream" command.

Calling this command when NOT IN PLAYBACK mode, will cause it to be ignored.

If the specified <USER> or <PWD> are invalid, the server returns the HTTP error 401.

change_sector command

Purpose

Use this command to change the sector to playback of the camera/encoder associated with the specified stream ID.

Compatibility

Linearis: yes

Spectiva: yes

Syntax

http://<USER>:<PWD>@<IP>:<PORT>change_sector?id=<ID>§or=<SECTOR>

example:

http://admin:1234@192.168.1.2:81/change_sector?id=1§or=PRIME

Input parameters

Name	Description
<USER>	The user name, as configured in the DVMS.
<PWD>	The password associated with the user.
<IP>	The IP address of the DVMS to connect to.
<PORT>	The port of the listening server. <u>THE DEFAULT PORT IS 81.</u>
<ID>	The ID of the stream to transmit.
<SECTOR>	The sector to be played. Valid values are (PRIME; TLAPSE; ALARM)

Remarks

Use the stream ID returned in the XML document after the call of the "open_stream" command.

It is possible to call this command even when you are not in playback mode; when playback will be activated, it will begin with the sector set.

If the specified <USER> or <PWD> are invalid, the server returns the HTTP error 401.

STATUS COMMANDS

The following commands are provided to get informations about the status of system, AUXes and alarms; AUXes and alarms can also be set to a specific value.

Command	Description
get_info	Asks the system configuration. An XML page is returned.
force_kf	Forces the Key Frame on a specified camera and encoder.
get_auxes_status	Returns an XML page containing the current status of the AUXes.
get_alarms_status	Returns an XML page containing the current status of the alarms.
get_aux_status	Returns an XML page containing the current status of a specific auxiliary connector.
get_alarm_status	Returns an XML page containing the current status of a specific alarm.
set_aux_status	Set the status of a specified AUX.
set_alarm_status	Set the status of a specified alarm.

get_info command

Purpose

Use this command to ask for the current system configuration. The server returns an XML document the DVMS model, hardware, software and firmware version, the video system used (PAL or NTSC) and the number of available video and audio channels, and the number of supported alarm and AUX connectors. Furthermore is given the complete configuration of the audio channels, and for each enabled camera is given a list of active encoders with the configured image rate and resolution, the enabled sectors and the configured domes. Also the configuration of the alarms and AUXes is given.

Compatibility

Linearis: yes

Spectiva: yes

Syntax

http://<USER>:<PWD>@<IP>:<PORT>/get_info

example: http://admin:1234@192.168.1.2:81/get_info

Input parameters

Name	Description
<USER>	The user name, as configured in the DVMS.
<PWD>	The password associated with the user.
<IP>	The IP address of the DVMS to connect to.
<PORT>	The port of the listening server. <u>THE DEFAULT PORT IS 81.</u>

Remarks

If you want to use Microsoft Internet Explorer to view this file, DO NOT write <USER> and <PWD>, use this syntax instead:

http://<IP>:<PORT>/get_info

The User Name and Password will be asked by the browser.

View the following page for a sample of the returned XML

```
<?xml version="1.0" encoding="UTF-8" ?>
- <Server>
  <Type>Linearis6</Type>
  <Hardware>MUX6LCT</Hardware>
  <Version>v1.06.00-Beta1 [20061205]</Version>
  <Firmware>v1.0.6</Firmware>
  <InternalVersion>1013</InternalVersion>
  <System>PAL</System>
  <MaxVideoChannels>6</MaxVideoChannels>
  <MaxAudioChannels>1</MaxAudioChannels>
  <MaxAlarms>32</MaxAlarms>
  <MaxAuxes>24</MaxAuxes>
- <Audio>
  - <AudioChannel>
    <Num>1</Num>
    <Type>Mono</Type>
    <Format>PCM</Format>
  </AudioChannel>
</Audio>
- <Video>
  - <VideoChannel>
    <Num>1</Num>
    <Name>Camera 1</Name>
    <Source>BNC</Source>
    <Type>MPEG4</Type>
    - <Encoders>
      - <Encoder>
        <Num>1</Num>
        <FrameRate>8</FrameRate>
        <Width>720</Width>
        <Height>576</Height>
      </Encoder>
    </Encoders>
    - <Sectors>
      - <Sector>
        <Name>PRIME</Name>
        <Encoder>1</Encoder>
        <UseMotion />
      </Sector>
    </Sectors>
  </VideoChannel>
  - <VideoChannel>
    <Num>3</Num>
    <Name>Camera 3</Name>
    <Source>BNC</Source>
    <Type>MPEG4</Type>
    - <Encoders>
```

figure 2: sample of XML document describing the system configuration

force_kf command

Purpose

Use this command to force the selected encoder of the specified camera to create a new key frame. This will affect also the stream recorded on the storage of the DVMS and transmission to all the clients.

Compatibility

Linearis: yes

Spectiva: yes

Syntax

http://<USER>:<PWD>@<IP>:<PORT>/force_kf?video=<VIDEO>&enc=<ENC>

example http://admin:1234@192.168.1.2:81/force_kf?video=1&enc=2

Input parameters

Name	Description
<USER>	The user name, as configured in the DVMS.
<PWD>	The password associated with the user.
<IP>	The IP address of the DVMS to connect to.
<PORT>	The port of the listening server. <u>THE DEFAULT PORT IS 81.</u>
<VIDEO>	The number of the camera. Valid range is [1 .. MAX_CAMERAS]
<ENC>	The number of the encoder. Valid range is [1 .. MAX_ENCODERS]

Remarks

If you want to use Microsoft Internet Explorer to send this command, DO NOT write <USER> and <PWD>, use this syntax instead:

http://<IP>:<PORT>/force_kf?video=<VIDEO>&enc=<ENC>

The User Name and Password will be asked by the browser.

get_auxes_status command

Purpose

Use this command to ask for the current status of the auxiliary output connectors. The server returns an XML document with the list of the actually closed AUXes.

Compatibility

Linearis: yes

Spectiva: yes

Syntax

http://<USER>:<PWD>@<IP>:<PORT>/get_auxes_status

example http://admin:1234@192.168.1.2:81/get_auxes_status

Input parameters

Name	Description
<USER>	The user name, as configured in the DVMS.
<PWD>	The password associated with the user.
<IP>	The IP address of the DVMS to connect to.
<PORT>	The port of the listening server. THE DEFAULT PORT IS 81.

Remarks

If you want to use Microsoft Internet Explorer to send this command, DO NOT write <USER> and <PWD>, use this syntax instead:

http://<IP>:<PORT>/get_auxes_status

The User Name and Password will be asked by the browser.

View the following image for a sample of the returned XML.

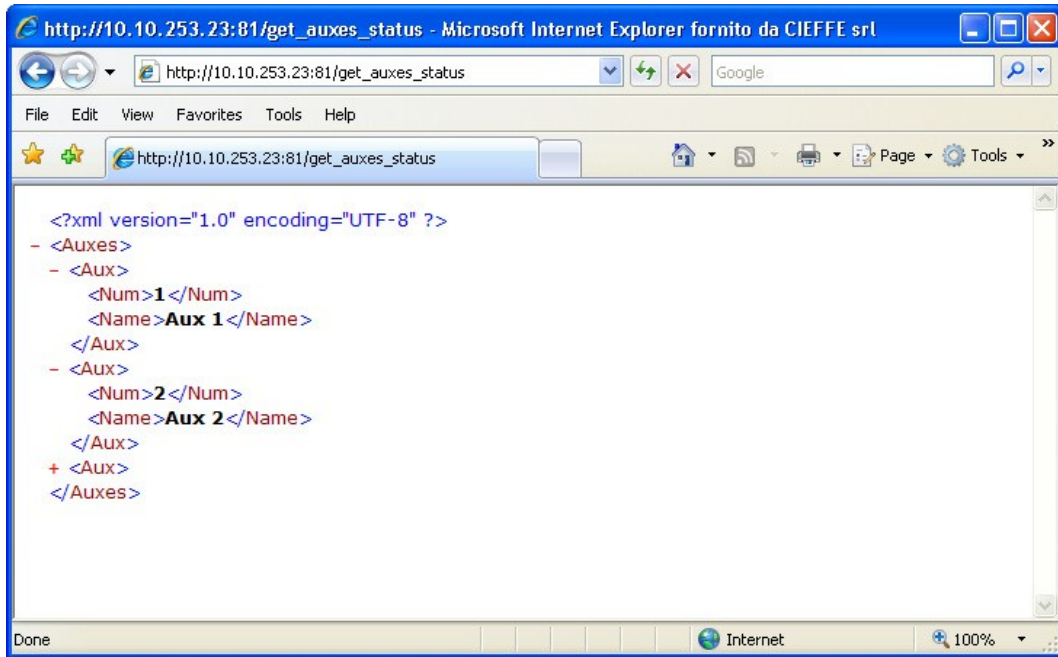


figure 3: sample of XML document with the actually closed AUXes

get_alarms_status command

Purpose

Use this command to ask for the current status of the alarms input connectors. The server returns an XML document with the list of the actually active alarms.

Compatibility

Linearis: yes

Spectiva: yes

Syntax

http://<USER>:<PWD>@<IP>:<PORT>/get_alarms_status

example http://admin:1234@192.168.1.2:81/get_alarms_status

Input parameters

Name	Description
<USER>	The user name, as configured in the DVMS.
<PWD>	The password associated with the user.
<IP>	The IP address of the DVMS to connect to.
<PORT>	The port of the listening server. THE DEFAULT PORT IS 81.

Remarks

If you want to use Microsoft Internet Explorer to send this command, DO NOT write <USER> and <PWD>, use this syntax instead:

http://<IP>:<PORT>/get_alarms_status

The User Name and Password will be asked by the browser.

View the following page for a sample of the returned XML.

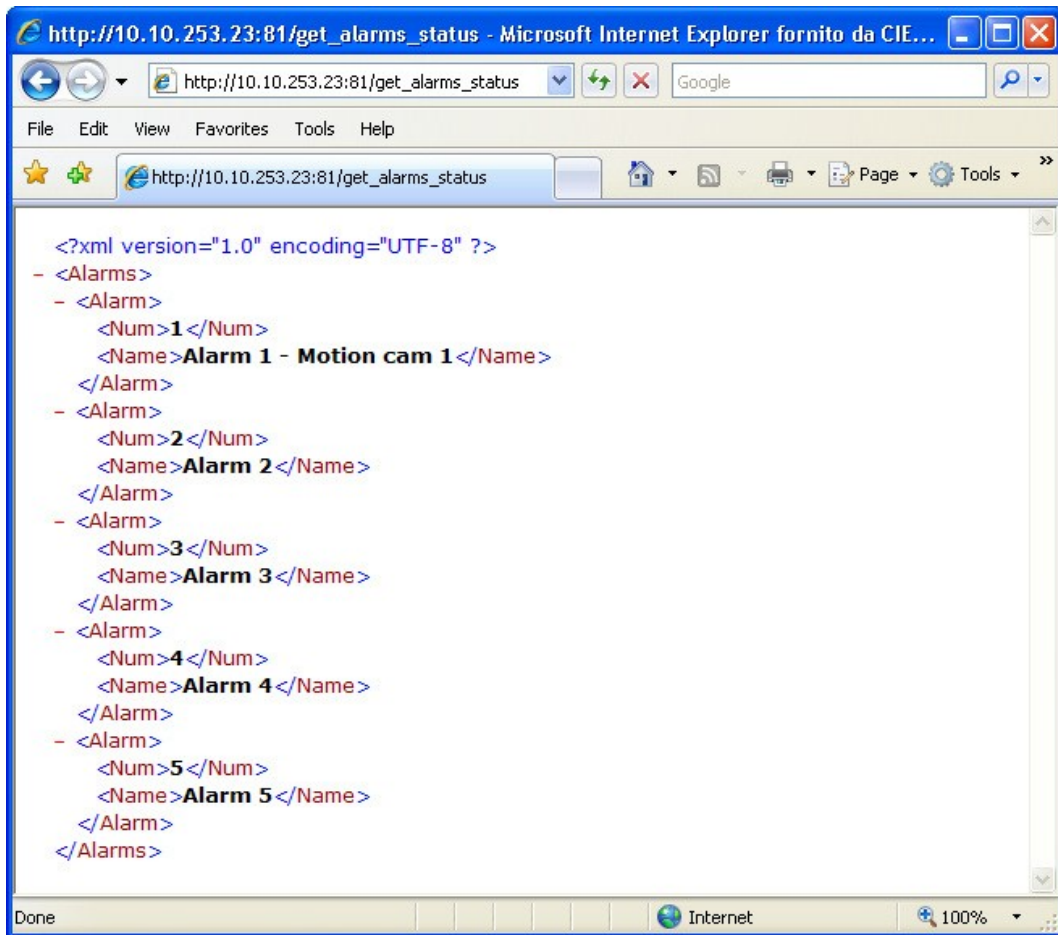


figure 4: sample of XML document with the actually active alarms.

get_aux_status command

Purpose

Use this command to ask for the current status of the specified auxiliary output connector. The servers return an XML document with the status of the selected AUX.

Compatibility

Linearis: yes

Spectiva: yes

Syntax

http://<USER>:<PWD>@<IP>:<PORT>/get_aux_status?aux=<AUX>

example http://admin:1234@192.168.1.2:81/get_aux_status?aux=2

Input parameters

Name	Description
<USER>	The user name, as configured in the DVMS.
<PWD>	The password associated with the user.
<IP>	The IP address of the DVMS to connect to.
<PORT>	The port of the listening server. <u>THE DEFAULT PORT IS 81.</u>
<AUX>	The number of the aux whose status is requested.

Remarks

If you want to use Microsoft Internet Explorer to send this command, DO NOT write <USER> and <PWD>, use this syntax instead:

http://<IP>:<PORT>/get_aux_status?aux=2

The User Name and Password will be asked by the browser.

If the selected AUX has not been configured within the DVMS setup the status returned is "not configured", otherwise it may be "Open" or "Closed"

View the following page for a sample of the returned XML.

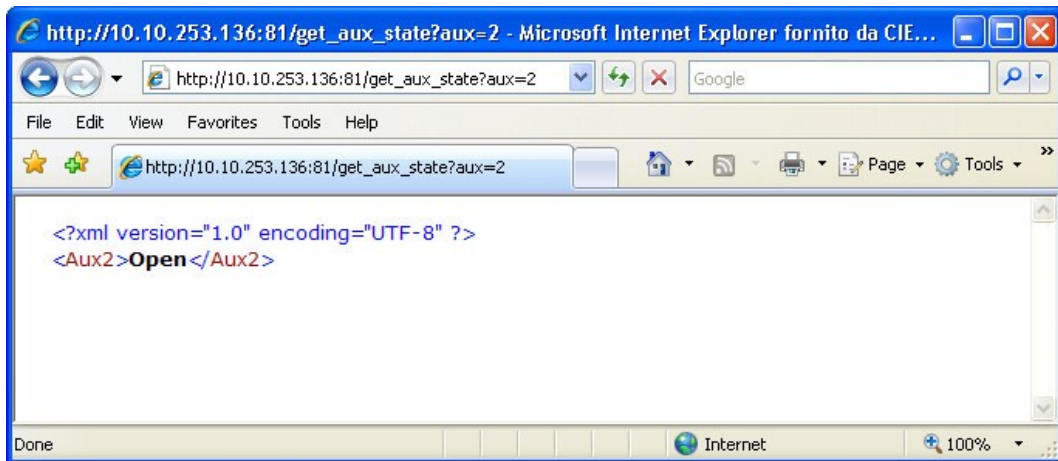


figure 4: sample of XML document with the status of the selected AUX.

get_alarm_status command

Purpose

Use this command to ask for the current status of the specified alarm input connector. The server returns an XML document with the status of the selected alarm.

Compatibility

Linearis: yes

Spectiva: yes

Syntax

http://<USER>:<PWD>@<IP>:<PORT>/get_alarm_status?alarm=<ALARM>

example http://admin:1234@192.168.1.2:81/get_alarm_status?alarm=2

Input parameters

Name	Description
<USER>	The user name, as configured in the DVMS.
<PWD>	The password associated with the user.
<IP>	The IP address of the DVMS to connect to.
<PORT>	The port of the listening server. <u>THE DEFAULT PORT IS 81.</u>
<ALARM>	The number of the alarm whose status is requested.

Remarks

If you want to use Microsoft Internet Explorer to send this command, DO NOT write <USER> and <PWD>, use this syntax instead:

http://<IP>:<PORT>/get_alarm_status?alarm=2

The User Name and Password will be asked by the browser.

If the selected alarm has not been configured within the DVMS setup the status returned is "not configured", otherwise it may be "on" or "off"

View the following page for a sample of the returned XML.

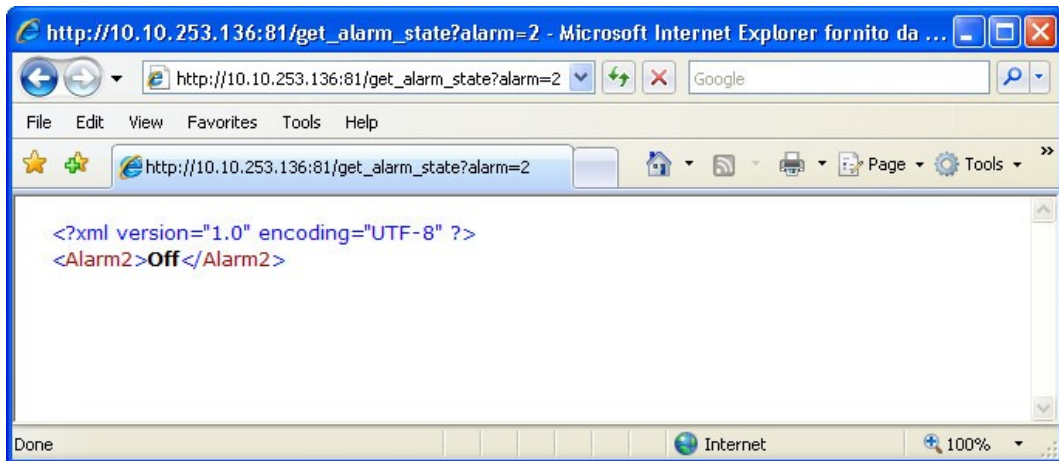


figure 5: sample of XML document with the status of the selected alarm.

set_aux_status command

Purpose

Use this command to set the current status of the specified aux. The server returns an XML document with the result of the operation.

Compatibility

Linearis: yes

Spectiva: yes

Syntax

http://<USER>:<PWD>@<IP>:<PORT>/set_aux_status?aux=<AUX>&(open|close)

example http://admin:1234@192.168.1.2:81/set_aux_status?aux=2&open

Input parameters

Name	Description
<USER>	The user name, as configured in the DVMS.
<PWD>	The password associated with the user.
<IP>	The IP address of the DVMS to connect to.
<PORT>	The port of the listening server. <u>THE DEFAULT PORT IS 81.</u>
<AUX>	The number of the aux whose status is set.
(open close)	The status to set to the selected AUX.

Remarks

If you want to use Microsoft Internet Explorer to send this command, DO NOT write <USER> and <PWD>, use this syntax instead:

http://<IP>:<PORT>/set_aux_status?aux=2&on

The User Name and Password will be asked by the browser.

If the selected alarm exceed the maximum supported auxes the operation will return "failure", otherwise it is "ok"

View the following page for a sample of the returned XML.

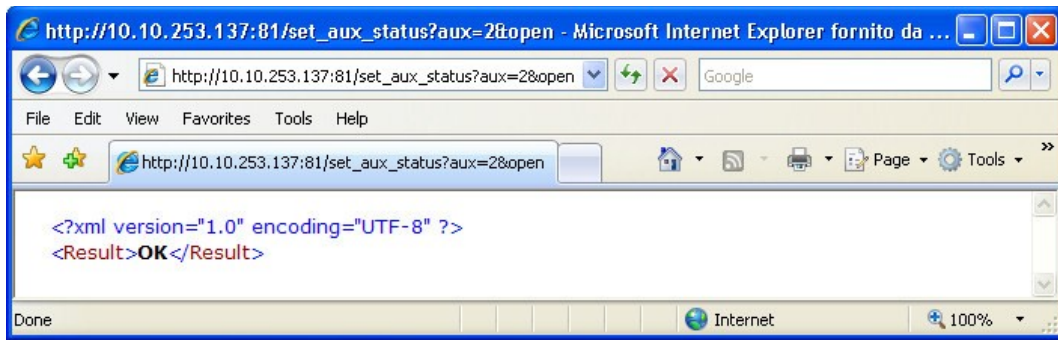


figure 6: sample of XML document with the result of the operation.

set_alarm_status command

Purpose

Use this command to set the current status of the specified alarm. The server returns an XML document with the result of the operation.

Compatibility

Linearis: yes

Spectiva: yes

Syntax

http://<USER>:<PWD>@<IP>:<PORT>/set_alarm_status?alarm=<ALARM>&[on|off]

example http://admin:1234@192.168.1.2:81/set_alarm_status?alarm=2&on

Input parameters

Name	Description
<USER>	The user name, as configured in the DVMS.
<PWD>	The password associated with the user.
<IP>	The IP address of the DVMS to connect to.
<PORT>	The port of the listening server. <u>THE DEFAULT PORT IS 81.</u>
<ALARM>	The number of the alarm whose status is set.
(on off)	The status to set to the selected alarm.

Remarks

If you want to use Microsoft Internet Explorer to send this command, DO NOT write <USER> and <PWD>, use this syntax instead:

http://<IP>:<PORT>/set_alarm_status?alarm=2&on

The User Name and Password will be asked by the browser.

If the selected alarm exceed the maximum supported alarms the operation will return "failure", otherwise it is "ok"

View the following page for a sample of the returned XML.

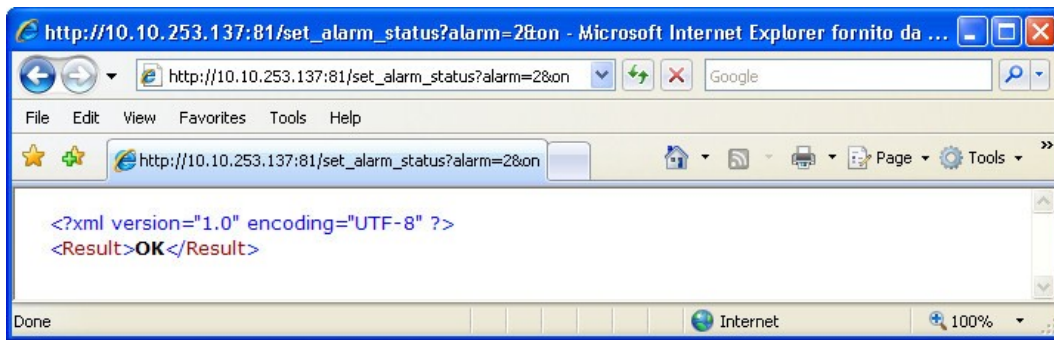


figure 7: sample of XML document with the result of the operation.

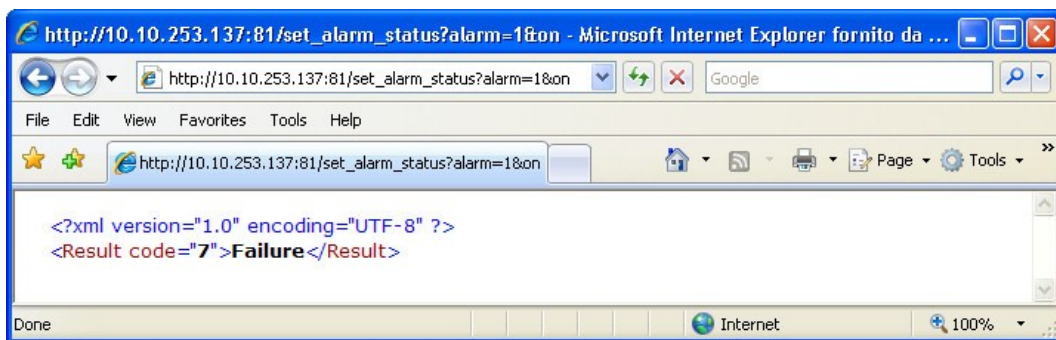


figure 8: sample of XML document with the result of the operation. In this situation we have an error because the alarm 1 is NOT enabled, so we cannot change its the status.

DOMES COMMANDS

The following commands are provided to move the dome cameras via HTTP commands:

Command	Description
dome_move	Moves the pan and tilt axes of the dome with the specified speeds.
dome_zoom	Moves the zoom towards “wide” or “tele” with the specified speed.
dome_iris	Opens or closes the iris with the specified speed.
dome_focus	Moves the focus near or far with the specified speed.
dome_stop	Completely stops the dome.
dome_load_preset	Moves the dome toward a specific preset.
dome_save_preset	Saves the current dome position in the specified preset.
dome_play_tour	Start the specified tour.
dome_stop_tour	Stops the currently running tour.
dome_set_aux	Sets the specified AUX to the given value.
dome_set_wiper	Starts or stops the wiper.
dome_set_wash	Starts or stops the dome wash.

dome_move command

Purpose

Moves the dome using the specified horizontal and/or vertical speed

Compatibility

Linearis: yes

Spectiva: yes

Syntax

`http://<USER>:<PWD>@<IP>:<PORT>/dome_move?dome=<DOME>[&hspeed=<HSPEED>][&vspeed=<VSPEED>]`

example

`http://admin:1234@192.168.1.2:81/dome_move?dome=1&hspeed=50&vspeed=-10`

Input parameters

Name	Description
<USER>	The user name, as configured in the DVMS.
<PWD>	The password associated with the user.
<IP>	The IP address of the DVMS to connect to.
<PORT>	The port of the listening server. THE DEFAULT PORT IS 81.
<DOME>	The number of the camera (if configured as dome) to move.
<HSPEED>*	Horizontal speed. Valid range is [-100 .. 100].
<VSPEED>*	Vertical speed. Valid range is [-100 .. 100].

* this parameter is not strictly required

Remarks

If you want to use Microsoft Internet Explorer to send this command, DO NOT write <USER> and <PWD>, use this syntax instead:

`http://<IP>:<PORT>/dome_move?dome=1&hspeed=50&vspeed=-10`

The User Name and Password will be asked by the browser.

dome_zoom command

Purpose

Use this command to zoom in or out with the specified speed.

Compatibility

Linearis: yes

Spectiva: yes

Syntax

```
http://<USER>:<PWD>@<IP>:<PORT>/dome_zoom?dome=<DOME>[&in|&out][&speed=<SPEED>]
```

example

```
http://admin:1234@192.168.1.2:81/dome_zoom?dome=1&in&speed=10
```

Input parameters

Name	Description
<USER>	The user name, as configured in the DVMS.
<PWD>	The password associated with the user.
<IP>	The IP address of the DVMS to connect to.
<PORT>	The port of the listening server. THE DEFAULT PORT IS 81.
<DOME>	The number of the camera (configured as dome).
[&in &out]	Use one of this switch to zoom tele or wide.
<SPEED>*	zoom speed. Valid range is [0 .. 100].

* this parameter is not strictly required

Remarks

If you want to use Microsoft Internet Explorer to send this command, DO NOT write <USER> and <PWD>, use this syntax instead:

```
http://<IP>:<PORT>/dome_zoom?dome=1&in&speed=10
```

The User Name and Password will be asked by the browser.

dome_iris command

Purpose

Use this command to open or close the iris of the camera with the specified speed

Compatibility

Linearis: yes

Spectiva: yes

Syntax

http://<USER>:<PWD>@<IP>:<PORT>/dome_iris?dome=<DOME>[&open|&close][&speed=<SPEED>]

example

http://admin:1234@192.168.1.2:81/dome_iris?dome=1&open&speed=10

Input parameters

Name	Description
<USER>	The user name, as configured in the DVMS.
<PWD>	The password associated with the user.
<IP>	The IP address of the DVMS to connect to.
<PORT>	The port of the listening server. THE DEFAULT PORT IS 81.
<DOME>	The number of the camera (configured as dome).
[&open &close]*	Use one of this switch to open or close the iris.
<SPEED>*	Iris speed. Valid range is [0 .. 100].

* this parameter is not strictly required

Remarks

If you want to use Microsoft Internet Explorer to send this command, DO NOT write <USER> and <PWD>, use this syntax instead:

http://<IP>:<PORT>/dome_zoom?dome=1&in&speed=10

The User Name and Password will be asked by the browser.

dome_focus command

Purpose

Use this command to move the focus of the camera near or far with the specified speed

Compatibility

Linearis: yes

Spectiva: yes

Syntax

```
http://<USER>:<PWD>@<IP>:<PORT>/dome_focus?dome=<DOME>[&near|&far][&speed=<SPEED>]
```

example

```
http://admin:1234@192.168.1.2:81/dome_focus?dome=1&near&speed=10
```

Input parameters

Name	Description
<USER>	The user name, as configured in the DVMS.
<PWD>	The password associated with the user.
<IP>	The IP address of the DVMS to connect to.
<PORT>	The port of the listening server. <u>THE DEFAULT PORT IS 81.</u>
<DOME>	The number of the camera (configured as dome).
[&near &far]*	Use one of this switch to set the focus near or far.
<SPEED>*	Iris speed. Valid range is [0 .. 100].

* this parameter is not strictly required

Remarks

If you want to use Microsoft Internet Explorer to send this command, DO NOT write <USER> and <PWD>, use this syntax instead:

```
http://<IP>:<PORT>/dome_focus?dome=1&far&speed=10
```

The User Name and Password will be asked by the browser.

dome_stop command

Purpose

Use this command to stop the dome. Every previous command of movement on the three axis, and changes of focus and iris will be terminated.

Compatibility

Linearis: yes

Spectiva: yes

Syntax

`http://<USER>:<PWD>@<IP>:<PORT>/dome_stop?dome=<DOME>`

example

`http://admin:1234@192.168.1.2:81/dome_stop?dome=1`

Input parameters

Name	Description
<USER>	The user name, as configured in the DVMS.
<PWD>	The password associated with the user.
<IP>	The IP address of the DVMS to connect to.
<PORT>	The port of the listening server. <u>THE DEFAULT PORT IS 81.</u>
<DOME>	The number of the camera (if configured as dome) to stop.

Remarks

If you want to use Microsoft Internet Explorer to send this command, DO NOT write <USER> and <PWD>, use this syntax instead:

`http://<IP>:<PORT>/dome_focus?dome=1&far&speed=10`

The User Name and Password will be asked by the browser.

dome_load_preset command

Purpose

Use this command to move the dome towards a specified preset. Every previous command of movement on the three axis, and changes of focus and iris will be overridden.

Compatibility

Linearis: yes

Spectiva: yes

Syntax

http://<USER>:<PWD>@<IP>:<PORT>/dome_load_preset?dome=<DOME>&pr
eset=<PRESET>

example

http://admin:1234@192.168.1.2:81/dome_load_preset?dome=1&preset=1

Input parameters

Name	Description
<USER>	The user name, as configured in the DVMS.
<PWD>	The password associated with the user.
<IP>	The IP address of the DVMS to connect to.
<PORT>	The port of the listening server. <u>THE DEFAULT PORT IS 81.</u>
<DOME>	The number of the camera (if configured as dome) to move.
<PRESET>*	The number of the preset to reach.

* this parameter is not strictly required

Remarks

If you want to use Microsoft Internet Explorer to send this command, DO NOT write <USER> and <PWD>, use this syntax instead:

http://<IP>:<PORT>/dome_load_preset?dome=1&preset=1

The User Name and Password will be asked by the browser.

dome_save_preset command

Purpose

Use this command to save the current position as a dome preset.

Compatibility

Linearis: yes

Spectiva: yes

Syntax

http://<USER>:<PWD>@<IP>:<PORT>/dome_save_preset?dome=<DOME>&pr
eset=<PRESET>

example

http://admin:1234@192.168.1.2:81/dome_save_preset?dome=1&preset=1

Input parameters

Name	Description
<USER>	The user name, as configured in the DVMS.
<PWD>	The password associated with the user.
<IP>	The IP address of the DVMS to connect to.
<PORT>	The port of the listening server. <u>THE DEFAULT PORT IS 81.</u>
<DOME>	The number of the camera (if configured as dome) to move.
<PRESET>	The number of the preset in which the position will be stored.

Remarks

If you want to use Microsoft Internet Explorer to send this command, DO NOT write <USER> and <PWD>, use this syntax instead:

http://<IP>:<PORT>/dome_save_preset?dome=1&preset=1

The User Name and Password will be asked by the browser.

dome_play_tour command

Purpose

Use this command to start the specified tour of the specified dome. Every previous command of movement on the three axis, and changes of focus and iris will be overridden.

Compatibility

Linearis: yes

Spectiva: yes

Syntax

http://<USER>:<PWD>@<IP>:<PORT>/dome_play_tour?dome=<DOME>&tour=<TOUR>

example

http://admin:1234@192.168.1.2:81/dome_play_tour?dome=1&tour=1

Input parameters

Name	Description
<USER>	The user name, as configured in the DVMS.
<PWD>	The password associated with the user.
<IP>	The IP address of the DVMS to connect to.
<PORT>	The port of the listening server. <u>THE DEFAULT PORT IS 81.</u>
<DOME>	The number of the camera (if configured as dome) to move.
<TOUR>	The number of the tour to play.

Remarks

If you want to use Microsoft Internet Explorer to send this command, DO NOT write <USER> and <PWD>, use this syntax instead:

http://<IP>:<PORT>/dome_play_tout?dome=1&tour=1

The User Name and Password will be asked by the browser.

dome_stop_tour command

Purpose

Use this command to stop the currently running tour.

Compatibility

Linearis: yes

Spectiva: yes

Syntax

http://<USER>:<PWD>@<IP>:<PORT>/dome_stop_tour?dome=<DOME>

example

http://admin:1234@192.168.1.2:81/dome_stop_tour?dome=1

Input parameters

Name	Description
<USER>	The user name, as configured in the DVMS.
<PWD>	The password associated with the user.
<IP>	The IP address of the DVMS to connect to.
<PORT>	The port of the listening server. THE DEFAULT PORT IS 81.
<DOME>	The number of the camera (if configured as dome) to stop.

Remarks

If you want to use Microsoft Internet Explorer to send this command, DO NOT write <USER> and <PWD>, use this syntax instead:

http://<IP>:<PORT>/dome_stop_tour?dome=1.

The User Name and Password will be asked by the browser.

dome_set_aux command

Purpose

Use this command to set the status of the specified AUX of the specified dome.

Compatibility

Linearis: yes

Spectiva: yes

Syntax

http://<USER>:<PWD>@<IP>:<PORT>/dome_set_aux?dome=<DOME>&aux=<AUX>&on|off

example

http://admin:1234@192.168.1.2:81/dome_set_aux?dome=1&aux=1&on

Input parameters

Name	Description
<USER>	The user name, as configured in the DVMS.
<PWD>	The password associated with the user.
<IP>	The IP address of the DVMS to connect to.
<PORT>	The port of the listening server. <u>THE DEFAULT PORT IS 81.</u>
<DOME>	The number of the camera (if configured as dome) to set.
<AUX>	The number of the AUX to set.
on off	The status to set to the specified AUX

Remarks

If you want to use Microsoft Internet Explorer to send this command, DO NOT write <USER> and <PWD>, use this syntax instead:

http://<IP>:<PORT>/dome_set_aux?dome=1&aux=1&on.

The User Name and Password will be asked by the browser.

dome_set_wiper command

Purpose

Use this command to activate or deactivate the wiper of the specified dome.

Compatibility

Linearis: yes

Spectiva: yes

Syntax

http://<USER>:<PWD>@<IP>:<PORT>/dome_set_wiper?dome=<DOME>&on|off

example

http://admin:1234@192.168.1.2:81/dome_set_wiper?dome=1&on

Input parameters

Name	Description
<USER>	The user name, as configured in the DVMS.
<PWD>	The password associated with the user.
<IP>	The IP address of the DVMS to connect to.
<PORT>	The port of the listening server. THE DEFAULT PORT IS 81.
<DOME>	The number of the camera (configured as dome).
on off	Turns on or off the wiper.

Remarks

If you want to use Microsoft Internet Explorer to send this command, DO NOT write <USER> and <PWD>, use this syntax instead:

http://<IP>:<PORT>/dome_set_wiper?dome=1&on.

The User Name and Password will be asked by the browser.

dome_set_wash command

Purpose

Use this command to activate or deactivate the wash functionality of the specified dome.

Compatibility

Linearis: yes

Spectiva: yes

Syntax

http://<USER>:<PWD>@<IP>:<PORT>/dome_set_wash?dome=<DOME>&on|off

example

http://admin:1234@192.168.1.2:81/dome_set_wash?dome=1&on

Input parameters

Name	Description
<USER>	The user name, as configured in the DVMS.
<PWD>	The password associated with the user.
<IP>	The IP address of the DVMS to connect to.
<PORT>	The port of the listening server. <u>THE DEFAULT PORT IS 81.</u>
<DOME>	The number of the camera (configured as dome).
on off	Turns on or off the wash.

Remarks

If you want to use Microsoft Internet Explorer to send this command, DO NOT write <USER> and <PWD>, use this syntax instead:

http://<IP>:<PORT>/dome_set_wash?dome=1&on.

The User Name and Password will be asked by the browser.

MOTION AREA DEFINITION COMMANDS

The following commands are provided to create and edit motion areas and control motion status.

Command	Description
<code>create_motion</code>	Creates a new motion detection area specifying its coordinates and sensitivity.
<code>update_motion</code>	Updates an existing motion detection area specifying its new coordinates and sensitivity.
<code>remove_motion</code>	Removes an existing motion detection area.
<code>get_motion_data</code>	Gets coordinates and sensitivity of each existing motion area.
<code>get_motion_area</code>	Gets coordinates and sensitivity of a specific existing motion area.
<code>get_motion_state</code>	Gets the last motion value detected for the specified motion areas.

create_motion_command

Purpose

Use this command to create a new motion area specifying its coordinates and sensitivity. An XML document will be returned, containing the area ID to use with the following commands.

Compatibility

Linearis: yes

Spectiva: yes

Syntax

```
http://<USER>:<PWD>@<IP>:<PORT>/create_motion?camera=<CAMERA>&coord=<X1,Y1,X2,Y2>&sensitivity=<SENSITIVITY>
```

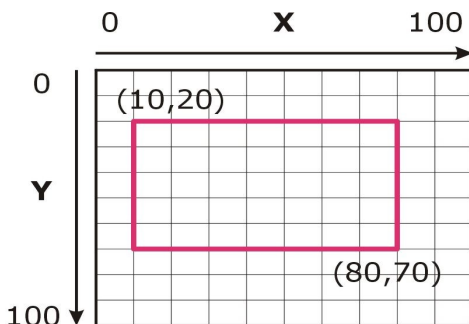
example:

```
http://admin:1234@192.168.1.2:81/create_motion?camera=1&coord=20,20,50,60&sensitivity=30
```

Input parameters

Name	Description
<USER>	The user name, as configured in the DVMS.
<PWD>	The password associated with the user.
<IP>	The IP address of the DVMS to connect to.
<PORT>	The port of the listening server. <u>THE DEFAULT PORT IS 81.</u>
<CAMERA>	The number of the camera in which the motion area will be created.
<X1,Y1,X2,Y2>	Coordinates of the upper left corner and lower right corner of the motion area to create, referred to a 100x100 grid.
<SENSITIVITY>	Motion detector sensitivity. Valid range is [0 .. 100]

Remarks



The parameter <X1,Y1,X2,Y2> needs to specify the coordinates of the upper left corner and lower right corner of the motion area to create (or update). Use the grid in the picture as a reference for origin location and axes. To create the area in this example, the parameter will be:

```
coord=10,20,80,70
```

Picture 6: The reference 100x100 grid

update_motion command

Purpose

Use this command to update an existing motion area specifying its new coordinates and sensitivity.

Compatibility

Linearis: yes

Spectiva: yes

Syntax

```
http://<USER>:<PWD>@<IP>:<PORT>/update_motion?camera=<CAMERA>
&area=<AREA>[&coord=<X1,Y1,X2,Y2>][&sensitivity=<SENSITIVITY>]
```

example:

```
http://admin:1234@192.168.1.2:81/update_motion?camera=1&area=2
&coord=20,20,50,60&sensitivity=30
```

Input parameters

Name	Description
<USER>	The user name, as configured in the DVMS.
<PWD>	The password associated with the user.
<IP>	The IP address of the DVMS to connect to.
<PORT>	The port of the listening server. THE DEFAULT PORT IS 81.
<CAMERA>	The number of the camera in which the motion area will be updated.
<AREA>	The area ID returned by the "create_motion" command.
<X1,Y1,X2,Y2>*	Coordinates of the upper left corner and lower right corner of the motion area to create, referred to a 100x100 grid.
<SENSITIVITY>*	Motion detector sensitivity. Valid range is [0 .. 100]

* this parameters are not both required

Remarks

View the remarks about the "create_motion" command for a reference about the <X1,Y1,X2,Y2> parameter.

remove_motion command

Purpose

Use this command to remove an existing motion area.

Compatibility

Linearis: yes

Spectiva: yes

Syntax

http://<USER>:<PWD>@<IP>:<PORT>/remove_motion?camera=<CAMERA>
&area=<AREA>[,<AREA>,....]

example:

http://admin:1234@192.168.1.2:81/remove_motion?camera=1&area=2

Input parameters

Name	Description
<USER>	The user name, as configured in the DVMS.
<PWD>	The password associated with the user.
<IP>	The IP address of the DVMS to connect to.
<PORT>	The port of the listening server. <u>THE DEFAULT PORT IS 81.</u>
<CAMERA>	The number of the camera in which the motion area will be removed.
<AREA>	The ID of the area to remove.

get_motion_data command

Purpose

Use this command to obtain informations about all the configured motion areas of all the cameras. An XML document will be returned containing the requested informations.

Compatibility

Linearis: yes

Spectiva: yes

Syntax

http://<USER>:<PWD>@<IP>:<PORT>/get_motion_data

example:

http://admin:1234@192.168.1.2:81/get_motion_data

Input parameters

Name	Description
<USER>	The user name, as configured in the DVMS.
<PWD>	The password associated with the user.
<IP>	The IP address of the DVMS to connect to.
<PORT>	The port of the listening server. THE DEFAULT PORT IS 81.

get_motion_area command

Purpose

Use this command to obtain informations about a specific motion area of a specific camera. An XML document will be returned containing the requested informations.

Compatibility

Linearis: yes

Spectiva: yes

Syntax

http://<USER>:<PWD>@<IP>:<PORT>/get_motion_area?camera=<CAMERA>&area=<AREA>

example:

http://admin:1234@192.168.1.2:81/update_motion?camera=1&area=2

Input parameters

Name	Description
<USER>	The user name, as configured in the DVMS.
<PWD>	The password associated with the user.
<IP>	The IP address of the DVMS to connect to.
<PORT>	The port of the listening server. <u>THE DEFAULT PORT IS 81.</u>
<CAMERA>	The number of the camera.
<AREA>	The area ID returned by the "create_motion" command.

Remarks

The information returned by this command is just a subset of the information returned by the "get_motion_data" command.

get_motion_status command

Purpose

Use this command to obtain the actual motion levels in all the defined areas of a specific camera. An XML document will be returned containing all the actual motion levels of the configured areas.

Compatibility

Linearis: yes

Spectiva: yes

Syntax

http://<USER>:<PWD>@<IP>:<PORT>/get_motion_status?camera=<CAMERA>

example:

http://admin:1234@192.168.1.2:81/get_motion_status?camera=1

Input parameters

Name	Description
<USER>	The user name, as configured in the DVMS.
<PWD>	The password associated with the user.
<IP>	The IP address of the DVMS to connect to.
<PORT>	The port of the listening server. <u>THE DEFAULT PORT IS 81.</u>
<CAMERA>	The number of the camera.

Remarks

The information returned by this command is just a subset of the information returned by the "get_motion_data" command.