REST API: Virtual Inputs

Introduction

This interface is designed to provide applications an API for controlling Virtual Inputs. To access an existing Virtual Input the application has to know the unique authentication token of the Virtual Input which is used for both authentication and identification.

URL

Description	The URL to connect to the REST interface of the CBS server.
Example	https://<ipaddress>/rest/virtual_input

Supported Media Types

Supported media types for resource representations are:

- **XML** (`application/xml`), default
- **JSON** (`application/json`)

All messages are encoded in **UTF-8** format.

HTTP Error Codes

The following HTTP status codes (see RFC2616) are supported (note that only the relevant HTTP codes are listed):

HTTP Status	HTTP Methods	Semantics
(200) OK	`GET`	Success: the entity body contains a representation of the requested resource.
(400) Bad Request	`GET`	Client error: The request cannot be fulfilled due to bad syntax.
(401) Unauthorized	`GET`	Client error: the request requires user authentication.
(404) Not Found	`GET`	Client error: the resource does not exist.
(415) Unsupported media type	`GET`	Client error: 1) does not agree with the media type specified on the request or 2) is incompatible with the current data for the resource or 3) is incompatible with the HTTP method specified on the request.
(500) Internal Server Error	`GET`	Server error: The server encountered an unexpected condition which prevented it from fulfilling the request.

Resources

/control

Description	Controls a single virtual input.
Method Type	GET
Path	/control/*{token}*

Control Input

Parameter	**Style**	Type	Optional	Description

on	Body	Boolean	yes	If given an event for the virtual input is triggered (which can be used as a triggering event in an alarm scenario). If value is set to *true* an Input On event is triggered, if value is set to *false* an Input Off event is triggered.
metadata	Body	Object with String entries	yes	A map of arbitrary metadata values

Examples

JSON

```
PUT "http://ipaddress:port/rest/virtual_input/control/f112f7b0-1975-4991-a554-77f3256447bd"
    accepting application/json
{
    "control":
    {
        "on": true,
        "metadata":
        {
            "event": "Burglar Alarm",
            "timestamp": "2014-09-20 07:16:02"
        }
    }
}
    returns with status code 200
```

Security

The authentication is done the unique authentication token on top of TLS/SSL.

To improve security 2-way SSL is recommended.