

### Request Format

- REST

REST is the simplest request format to use - it's a simple HTTP GET, POST, PUT or DELETE action.  
The REST Endpoint URL is: ***http://<ibsg reachable address>/api/<resource>/<method>/?name=value***

### Response Format

- JSON

### API Methods

- **authentication**
  - login
  - logout
- **manager**
  - policy
  - account

#### AUTHENTICATION/LOGIN/

*Rest Methods*

- **GET - get current online user**  
**Arguments (query string)**
  - login (string::optional)
  - ip (string::optional)
  - mac (string::optional)
- **POST - authenticate specify user credential**  
**Arguments (JSON data)**
  - login (string::required)
  - passwd (string::required)
  - ip (string::required)
  - mac (string::required)

#### AUTHENTICATION/LOGOUT/

*Rest Methods*

- **Delete – logout authenticated user**  
**Arguments (query string)**
  - ip (string::required)
  - mac (string::required)

## MANAGER/POLICY/

### Rest Methods

- **GET – system policy name**  
**Arguments (query string)**
  - policy (string::optional)

## MANAGER/ACCOUNT/

### Rest Methods

- **POST – create user account**  
**Arguments (JSON data)**
  - policy (string::required)
  - login (string::required)
  - passwd (string::required)
  - mac (string::required)
  - expire (string::optional)
- **PUT – change user activate state**  
**Arguments (JSON data)**
  - login (string::required)
  - state (bool::required)

## Rest Errors

- RESPONSE\_CREATED
  - POST entity created
- RESPONSE\_NOCONTENT
  - PUT entity modified
- ~~• RESPONSE\_BADREQUEST~~
- RESPONSE\_UNAUTHORIZED
  - API is disable or requested host is not allowed
- ~~• RESPONSE\_FORBIDDEN~~
- RESPONSE\_NOTFOUND
  - Invalid resource/action , requested data not exist
- ~~• RESPONSE\_METHOD\_NOT\_ALLOW~~
- RESPONSE\_NOT\_ACCEPTABLE
  - Invalid request parameter value(s)
- RESPONSE\_CONFLICT
  - POST entity is already exist
- RESPONSE\_UNSUPPORTED\_METDIA\_TYPE
  - Request acceptable data is not JSON
- RESPONSE\_UNPROCESSABLE\_ENTRY
  - Invalid or missing request argument(s)

## Examples

- ✓ Authenticate specify user

```
POST /api/authentication/login/ HTTP/1.1
User-Agent: curl/7.19.7
Host: 192.168.32.129
Accept: application/json
Content-Length: 79
Content-Type: application/x-www-form-urlencoded

{"login":"test","passwd":"1234","ip":"192.168.2.121","mac":"68:5B:35:9D:D4:DF"}

HTTP/1.1 201 Created
Date: Thu, 03 Apr 2014 13:59:16 GMT
Server: Apache
X-Powered-By: PHP/5.3.3
Content-Length: 130
Connection: close
Content-Type: application/json

[{"login_name":"test","policy_name":"test","usage_remain":-1,"usage_quota":-1,"octet_remain":-1,"octet_quota":-1,"valid_date":-1}]
```

- ✓ Logout authenticated user

```
DELETE /api/authentication/logout/?ip=192.168.2.121&mac=68:5B:35:9D:D4:DF HTTP/1.1
User-Agent: curl/7.19.7
Host: 192.168.32.129
Accept: application/json

HTTP/1.1 200 OK
Date: Thu, 03 Apr 2014 14:02:28 GMT
Server: Apache
X-Powered-By: PHP/5.3.3
Content-Length: 44
Connection: close
Content-Type: application/json

[{"login_name":"test","session_time":"191"}]
```

- ✓ Get current online user

```
GET /api/authentication/login/ HTTP/1.1
User-Agent: curl/7.19.7
Host: 192.168.32.129
Accept: application/json

HTTP/1.1 200 OK
Date: Thu, 03 Apr 2014 14:05:13 GMT
Server: Apache
X-Powered-By: PHP/5.3.3
Content-Length: 187
Connection: close
Content-Type: application/json

[[{"id":"5","login":"test","policy":"test","ip":"192.168.2.121","mac":"68:5B:35:9D:D4:DF","download_avg":"0","upload_avg":"0","session_start":"1396533910","session_time":"3","idle":"3"}]]
```

✓ Create user account

```
POST /api/manager/account/ HTTP/1.1
User-Agent: curl/7.19.7
Host: 192.168.32.129
Accept: application/json
Content-Length: 97
Content-Type: application/x-www-form-urlencoded

{"policy":"test","login":"test2","passwd":"5678","mac":"68:5B:35:9D:D4:DF","expire":"2014-10-10"}

HTTP/1.1 201 Created
Date: Thu, 03 Apr 2014 14:14:20 GMT
Server: Apache
X-Powered-By: PHP/5.3.3
Content-Length: 0
Connection: close
Content-Type: text/html
```

✓ Deactivate user account

```
PUT /api/manager/account/ HTTP/1.1
User-Agent: curl/7.19.7
Host: 192.168.32.129
Accept: application/json
Content-Length: 31
Content-Type: application/x-www-form-urlencoded

{"login":"test2","state":false}

HTTP/1.1 204 No Content
Date: Thu, 03 Apr 2014 14:19:07 GMT
Server: Apache
X-Powered-By: PHP/5.3.3
Content-Length: 0
Connection: close
Content-Type: application/json
```