
BLACK BOX SDKVM Modular KVM Extender Chassis User Manual

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Introduction

This documentation provides details on how to interact with DESKVUE via REST APIs. These APIs allow third-party devices and software to control DESKVUE without needing access to the user interface.

API Overview

The DESKVUE API includes functionality for controlling various aspects of the system, such as managing work spaces, configuring monitors, and controlling user sessions. This set of REST API for DESKVUE is available independent of the Boxilla® Rest API with a different set of credentials.

1.4.1 Key Functionalities:

- **GET Endpoints:** Retrieve information about work spaces, monitors, connections, and user statuses.
- **PUT Endpoints:** Modify system states such as logging off users, forcing workspace changes, or replacing tile connections.

1.4.2 API Credentials

Field: Value

Username: C2cl7Eq0jTV7YmhE

Password: mlfxEe+8gS&Tdg9S

1.4.2.1 Port Used

This web service runs on port 9888

1.5 REST API Endpoints

The following REST API endpoints are provided for interaction with external system:

1.5.1 1. GET Version

Field: Description

Method: GET

Endpoint: /version

Description: This function can be used to get system level version information.

1.5.1.1 JSON Data

1.5.1.1.1 JSON REQUEST

- No data required

1.5.1.1.2 JSON RESPONSE

```
{ "api_version": "1.0.21",
  "software_version": "V1.5.0_r447",
  "manufacturing_partnumber": "300-115-001",
  "serial_number": "S1L1T70023M0029",
  "product_type": "SDKVM",
  "product_brand": "Black Box",
  "product_configuration": "Multi Head",
  "system_architecture": "x86_64",
  "kernel_version": "6.8.0-52-generic",
```

```
“pc_model”: “snuc-sdkvm”,  
“ethernet_speed”: 1000,  
“oem_serial”: “S1L1T70023M0029”,  
“sw_compatibility”: “0x03”,  
“discovery_status”: “Managed”,  
“manager_mac”: “00:8c:10:1c:c6:
```

1.5.2 2. GET Workspace Details

Field: Description

Method: GET

Endpoint: /workspace/detailed

Description: This function can be used to get json object with a detailed snapshot of the currently active workspace.

1.5.3.1 JSON Data

JSON Request: JSON Response

None: {“workspaces_id”:string
}

1.5.4 4. GET System Monitors

Field: Description

Method: GET

Endpoint: /system/monitors

Description: This function can be used to get a json array of objects which represent a detailed snapshot of the current monitor configuration.

1.5.4.1 JSON Data

1.5.4.1.1 JSON REQUEST

- No data required

1.5.4.1.2 JSON RESPONSE

```
[  
{  
“connected”: true,  
“diagonal_size”: 24.199999999999999,
```

```

“edid”:
“00ffffffff0022f06f32010101010d1b0103803420782a4ca5a7554da226105054210800b30
3c80a070b023403020360006442100001a000000fd00323c1e5011000a20202020200000
0ff00434e43373133304b31430a20200137020318b148101f04130302121167030c0010000
2100001e023a80d072382d40102c458006442100001e011d007251d01e206e28550006442
0001e8c0ad08a20e02d10103e96000644210000180000000000000000000000000002f”,
“head”: 1,
“interface”: “HDMI-1”,
“manufacturer”: “Hewlett Packard”,
“name”: “HP E242”,
“position”: {
“x”: 0,
“y”: 0
},
“primary”: true,
“resolution”: {
“r”: 59.950000000000003,
“x”: 1920,
“y”: 1200
},
“rotation”: “normal”
},

```

] 1.5.5 5. GET Users Connections Summary

Field: Description

Method: GET

Endpoint: /users/connections/summary Description This function can be used to get a list of allowed connections for the currently logged in user.

1.5.5.1 JSON Data

1.5.5.1.1 JSON REQUEST

```

{
“connections”: [
“connection_name”: “TX_Shared_192.168.1.103”
},
{

```

```
“connection_id”: “1318”,
“connection_name”: “TX_Shared_192.168.1.181”
},
{
“connection_id”: “1260”,
“connection_name”: “TX_Shared_192.168.1.228”
},
{
“connection_id”: “1304”,
“connection_name”: “TX_Shared_Ext_192.168.1.14”
},
{
“connection_id”: “1303”,
“connection_name”: “TX_Shared_Ext_192.168.1.103”
},
{
“connection_id”: “1244”,
“connection_name”: “VM 113”
},
{
“connection_id”: “902”,
“connection_name”: “VM_Peformance_Test”
},
{
“connection_id”: “1330”,
“connection_name”: “VS-2101X_H264”
}
],
“user_id”: “246”,
“user_name”: “eloise”
}
```

1.5.6 6. GET Users Workspace Summary

Field :Description

Method : GET

Endpoint : /users/workspaces/summary Description This function can be used to get a list of allowed workspaces for the currently logged in user

1.5.6.1 JSON Data

1.5.6.1.1 JSON REQUEST

- No data required

1.5.6.1.2 JSON RESPONSE

```
{
  "user_id": "246",
  "user_name": "eloise",
  "workspaces": [
    {
      "workspace_description": "example Quad On One Screen",
      "workspace_id": "151",
      "workspace_name": "exampleQuadOnOneScreen"
    },
    {
      "workspace_description": "example_monitor14",
      "workspace_id": "133",
      "workspace_name": "example_monitor14"
    },
    {
      "workspace_description": "example_same_connection",
      "workspace_id": "263",
      "workspace_name": "example_same_connection"
    },
    {
      "workspace_description": "",
      "workspace_id": "8",
      "workspace_name": "PIP Right"
    },
    {
```

```

“workspace_description”: “example Quad workspace mixed”,
“workspace_id”: “142”,
“workspace_name”: “example_quad_mixed”
},
{
“workspace_description”: “192.168.1.164”,
“workspace_id”: “306”,
“workspace_name”: “example_164_second_screen”
}
]}

```

1.5.7 7. GET Users Workspace List

Field: Description

Method: GET

Endpoint: /users/workspaces/list

Description: This function can be used to get the list of all existing users along with associated workspaces that they are allowed to access.

1.5.7.1 JSON Dat

1.5.7.1.1 JSON REQUEST

- No data required

1.5.7.1.2 JSON RESPONSE

```

{
“kvm_users_workspaces_list”: [
{
“user_id”: “246”,
“user_name”: “eloise”,
“workspaces”: [
{
“workspace_description”: “”,
“workspace_id”: “108”,
“workspace_name”: “Extended_RDP_Win10”
},

```

```
{
  "workspace_description": "Quad On One Screen",
  "workspace_id": "151",
  "workspace_name": "QuadOnOneScreen"
},
{
  "workspace_description": "rdp_112",
  "workspace_id": "384",
  "workspace_name": "rdp_112"
},
{
  "workspace_description": "RLC-810A_H264",
  "workspace_id": "385",
  "workspace_name": "h264_workspace"
},
{
  "workspace_description": "video_wall_x4",
  "workspace_id": "380",
  "workspace_name": "video_wall_x4"
},
{
  "workspace_description": "video_wall_tile_centered",
  "workspace_id": "456",
  "workspace_name": "video_wall_tile_centered"
}
]}
```

1.5.8 8. PUT Control Workspaces

Field: Description

Method: PUT

Endpoint : /control/workspaces

Description: This function can be used to launch a workspace.

1.5.8.1 JSON Data

JSON Request: JSON Response


```
{  
  "action": "force_workspace",  
  "workspace": "workspace ID number", "user": "the username": None  
}
```

1.5.9 9. DEL Control Workspaces

Field: Description

Method: DEL

Endpoint: /control/workspaces

Description: This function can be used to terminate a workspace.

1.5.9.1 JSON Data for additional actions to combine with the termination

JSON Request: JSON Response

```
{  
  "action": "show_osd": None  
  {  
    "action": "no_osd": None  
  }  
  "action": "black screen": None  
  "action": "default screen": None
```

1.5.10 10. GET Control Use

Documents / Resources

	BLACK BOX SDKVM Modular KVM Extender Chassis [pdf] User Manual SDKVM, 300-115-001, SDKVM Modular KVM Extender Chassis, SDKVM , Modular KVM Extender Chassis, KVM Extender Chassis, Extender Cha ssis
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References

- [User Manual](#)

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300-115-001, BLACK BOX, Extender Chassis, KVM Extender Chassis, Modular KVM Extender Chassis, SDKVM, SDKVM
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