Poly UC Software 6.4.0

Applies to Poly VVX Business Media Phones and Poly VVX Business IP Phones

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Contents

Before You Begin

The *REST API Reference Manual for Polycom VVX Business Media Phones* and *VVX Business IP Phones* describes the REST (Representational State Transfer) API feature, which provides a convenient, scalable, portable, and reliable API for interacting with Polycom VVX phones, enabling users to execute certain functions and retrieve information.

This manual applies to the following Polycom VVX models: 101, 201, 301, 311, 401, 411, 501, 601, SoundStructure VoIP Interface phones, and 150, 250, 350, and 450 business IP phones.

Prerequisite Information

Before you begin working with the REST API, note the following:

- The REST API feature is disabled by default.
- You must change the default administrator password before you can use the REST API.
- A POST request must send the content-type as application/JSON. If this content-type is not sent by the client, the phone returns an HTTP 400 error.
- The REST API cannot accept more than 20 KB of data. If more than 20 KB of data is sent, the phone returns an HTTP 413 error.
- Parallel processing is not allowed. If one API is being processed and another API is received by the phone, the second request will receive an HTTP 403 error or will be queued for later processing.

Audience and Purpose of This Guide

The primary audience for this manual is the person administering the session initiation protocol (SIP) server, provisioning server(s), VoIP network, and Polycom UC Software that enables configuration and management of the phone features. This manual is not intended for end users. This manual provides information primarily for mid-level administrators with experience in networking who understand the basics of open SIP networks and VoIP endpoint environments.

Get Help

For more information about installing, configuring, and administering Polycom products, refer to the Documents and Downloads section at Poly Support.

To access the latest Polycom UC Software Release Notes, refer to Poly Voice Support.

To access the user guide for Polycom VVX business media phones, refer to the product support page for your phone at Poly Voice Support.

Some Polycom products contain open source software. For details, refer to Poly Support.

To find help or technical support for your phones, search for Polycom documentation at the Poly Unified Communications (UC) Software Resource Center.

The Polycom Community

The Poly Community gives you access to the latest developer and support information. Participate in discussion forums to share ideas and solve problems with your colleagues. To register with the Polycom Community, simply create a Polycom online account. When logged in, you can access Polycom support personnel and participate in developer and support forums to find the latest information on hardware, software, and partner solutions topics.

REST API Commands

This section describes the configuration parameters and API commands for Polycom UC Software, version 6.4.0.

Configuration Options

The REST API feature is disabled by default. The following parameters support the REST API feature and are editable by using the configuration file and Web UI only.

Configuration Parameters

Attribute	Permitted Values	Default Value
apps.restapi.enabled	0 or 1	0
log.level.change.restapi	0 – 6	4

Commands and Structure

Management.Restart

Description	This API executes a safeRestart on phone. safeRestart ensures that all calls on the phone are ended before initiating phone restart.
Protocol, Method & Path	Protocol: HTTP/HTTPS Method: POST Path: /api/v1/mgmt/safeRestart
Input / Output Format	JSON
Access Level	Admin
Input	None

Output	Success Response:
	{
	   "Status": "2000"
	}
	
	Failure Response:
	{
	   "Status": "5000"
	}

Applicable return codes	2000, 4400, 4403, 5000, 5500

Management.Reboot

Description	This API executes a safeReboot on the phone. safeReboot ensures that all calls on the phone are ended before initiating phone reboot.
Protocol, Method & Path	Protocol: HTTP/HTTPS Method: POST Path: /api/v1/mgmt/safeReboot
Input and Output Syntax	JSON
Access Level	Admin
Input	None

Output	Success Response:
	{
	   "Status": "2000"
	}
	Failure Response:
	{
	   "Status": "5000"
	}

Applicable return codes	2000, 4400, 4403, 5000, 5500

Management.ConfigReset

Description	This API resets the configurations.
Protocol, Method & Path	Protocol: HTTP/HTTPS Method: POST Path: /api/v1/mgmt/configReset (resets cloud, local, web and device settings) /api/v1/mgmt/configReset/cloud /api/v1/mgmt/configReset/local /api/v1/mgmt/configReset/web /api/v1/mgmt/configReset/device
Input and Output Syntax	JSON
Access Level	Admin
Input	None

Output	Success Response:
	{
	   "Status": "2000"
	}
	
	Failure Response:
	{
	   "Status": "5000"
	}

Applicable return codes	2000, 4400, 4403, 5000, 5500

Management.FactoryReset

Description	This API factory-resets the phone.
Protocol, Method & Path	Protocol: HTTP/HTTPS Method: POST Path: /api/v1/mgmt/factoryReset
Input and Output Syntax	JSON
Access Level	Admin
Input	None

Output	Success Response:
	{
	   "Status": "2000"
	}
	
	Failure Response:
	{
	   "Status": "5000"
	}

Applicable return codes	2000, 4400, 4403, 5000, 5500

Management.NetworkInfo

Description	This API provides details about the phone's network information.
Protocol, Method & Path	Protocol: HTTP/HTTPS Method: GET Path: /api/v1/mgmt/network/info
Input and Output Syntax	JSON
Access Level	Admin
Input	None

Output	Success Response:
	`{`
	`"Status": "2000",`
	` "data": {`
	`  "DefaultGateway": "0.0.0.0",`
	`  "IPV6Address": "2620:0:1aa0:8071:0:84:0:f9ad/64",`
	`  "IPV4Address": "0.0.0.0",`
	`  "DHCPServer": "10.221.10.20",`
	`  "DHCP": "enabled",`
	`  "UpgradeServer": "",`
	`  "DHCPOption60Format": "ASCII String",`
	`  "DHCPBootServerUseOption": "Static",`
	`  "ZTPStatus": "enabled",`
	`  "DHCPBootServerOption": "160",`
	`  "DHCPBootServerOptionType": "String",`
	`  "LLDP": "enabled",`
	`  "LANPortStatus": "inactive",`
	`  "SubnetMask": "255.0.0.0",`
	`  "AlternateDNSServer": "10.250.64.30",`
	`  "DNSServer": "10.221.10.100",`
	`  "DNSDomain": "iic.eng",`
	`  "LANSpeed": "10MB",`
	`  "SNTPAddress": "172.16.1.15",`
	`  "VLANDiscoveryMode": "Disabled",`
	`  "CDPCompability": "enabled",`
	`  "VLANID": "",`
	`  "VLANIDOption": "129",`
	`  "ProvServerAddress": "10.221.25.42",`
	`  "ProvServerUser": "501",`
	`  "ProvServerType": "FTP",`
	`  "Wifi": {`
	`    "Signal Strength": "89%",`
	`    "State": "Connected",`
	`    "Security Mode": "None",`
	`    "SSID": "WAP371-B0A5-24-OPEN",`
	`    "Duration": "0 days, 0 hours, 1 minutes, 40 seconds"`
	`  }`
	` },`
	`}`

	Failure Response:
	{
	   "Status": "5000"
	}

Applicable return codes	2000, 4400, 4403, 5000, 5500

Management.DeviceInfo

Description	This API provides details about the phone's information.
Protocol and Method	Protocol: HTTP/HTTPS Method: GET Path: /api/v1/mgmt/device/info
Input and Output Syntax	JSON
Access Level	Admin
Input	None

Output	Success Response:
	```{```
	``` "Status": "2000",```
	``` "data":```
	``` {```
	``` "ModelNumber ": "<MODEL_NUMBER>",```
	``` "FirmwareRelease": "<FIRMWARE_RELEASE>",```
	``` "DeviceType": "HardwareEndPoint",```
	``` "DeviceVendor": "Polycom",```
	``` "UpTimeSinceLastReboot": "<DAYS_HOURS_MINUTES_SECONDS>",```
	``` "IPV4Address": "<IP_ADDRESS>",```
	``` "IPV6Address": "<IP_ADDRESS>",```
	``` "MACAddress": "<MAC_ADDRESS>",```
	``` "AttachedHardware": [```
	``` "Camera":"<true/false>",```
	``` "EM": [```
	``` {```
	``` "type": "<paper/LCD>",```
	``` "version": "<VERSION>"},```
	``` …```
	```]```
	```]```
	``` }```
	```}```
	
	Failure Response:
	```{```
	``` "Status": "5000"```
	```}```

Applicable return codes	2000, 4400, 4403, 5000, 5500

Management.NetworkStatistics

Description	This API provides the phone's network statistics information.
Protocol and Method	Protocol: HTTP/HTTPS Method: GET Path: /api/v1/mgmt/network/stats
Input and Output Syntax	JSON
Access Level	Admin
Input	None

Output	Success Response for Path: /api/mgmt/network/stats
	{
	  "Status": "2000",
	  "data":
	  {
	    "UpTime": "<NETWORK_UPTIME>",
	    "RxPackets": <NUM_OF_RX_PACKETS>
	    "TxPackets": <NUM_OF_TX_PACKETS>
	  }
	}
	
	Failure Response:
	{
	  "Status": "5000"
	}

Applicable return codes	2000, 4400, 4403, 5000, 5500

Management.SetConfig

Description	This API provides the interface to set the configuration allowing a maximum of 20 parameters and up to 20 KB of content length for a given request.
Protocol and Method	Protocol: HTTP/HTTPS Method: POST Path: /api/v1/mgmt/config/set
Input and Output Syntax	JSON
Access Level	Admin
Input	```{
"data":
{
"<CONFIG_PARAM_NAME>": "<CONFIG_PARAM_VALUE>",
"<CONFIG_PARAM_NAME>": "<CONFIG_PARAM_VALUE>",
…
…
}
}``` At least one parameter has to be provided.
Output	Success Response: ```{
"Status": "2000"
}``` Failure Response: ```{
"Status": "<4xxx/5xxx>"
}```
Applicable return codes	2000, 4000, 4001, 4009, 4400, 4403, 5000, 5500 4000 → Invalid Parameters, 4001 → Device busy (In case of Lync web ticket generation or registration any setConfig returns this error code) 4009 → Parameter count exceeded limit of 20 parameters

Management.GetConfig

Description	This API provides running configuration value for given configuration parameters. The maximum is 20 parameters. The maximum content length for a request is 20 KB.
Protocol and Method	Protocol: HTTP/HTTPS Method: POST Path: /api/v1/mgmt/config/get
Input and Output Syntax	JSON
Access Level	Admin

Input

```
{
   "data":
   [
      "<CONFIG_PARAM_NAME_1>",
      "<CONFIG_PARAM_NAME_2>",
      …
      …
   ]
}
```

At least one parameter has to be provided.

Output

Success Response:
```
{
   "Status": "2000",
   "data":
   {
      "<CONFIG_PARAM_NAME_1>":
      {
         "value": "<VALUE>",
         "source": "<LOCAL/WEB/CONFIG/DEFAULT>"
      },
      "<CONFIG_PARAM_NAME_2>":
      {
         "value": "<VALUE>",
         "source": "<LOCAL/WEB/CONFIG/DEFAULT/DEVICE>"
      }
      …
      …
   }
}
```

Failure Response:
```
{
   "Status": "5000"
}
```

Applicable return codes

2000, 4000, 4009, 4400, 4403, 5000, 5500
4009 → Parameter count exceeded limit of 20 parameters

Diag.Ping

Description	This API sends a ping to the network to collect network diagnostic information.
Protocol and Method	Protocol: HTTP/HTTPS Method: POST Path: /api/v1/diag/ping
Input and Output Syntax	JSON
Access Level	Admin, Advanced User, and User

Input	{
	  "data":
	  {
	   "Address":"127.0.0.1",
	   "Count" : 4,
	   "Size" : 59
	   }
	}

Output	{
	  "ping": [
	   "PING 10.235.203.67 (10.235.203.67) 48(76) bytes of data.\n",
	   "56 bytes from 10.235.203.67: icmp_seq=1 ttl=128 time=0.825 ms\n",
	   "56 bytes from 10.235.203.67: icmp_seq=2 ttl=128 time=0.895 ms\n",
	   "\n",
	   "--- 10.235.203.67 ping statistics ---\n",
	   "2 packets transmitted, 2 received, 0% packet loss, time 1006ms\n",
	   "rtt min/avg/max/mdev = 0.825/0.860/0.895/0.035 ms\n"
	  ],
	  "Status": "2000"
	}

Applicable return codes	2000, 4000, 5000

Diag.DNS

Description	This API sends a DNS query to the network to collect DNS information.
Protocol and Method	Protocol: HTTP/HTTPS Method: GET Path: /api/v1/diag/dns/info
Input and Output Syntax	JSON
Access Level	Admin, Advanced User, and User
Input	None
Output	

```json
{
    "data": {
        "DNS Server": "",
        "DNS Cache": {
            "DNS Search Domain": "",
            "DNS Primary Domain": "10.236.0.148",
            "Record": {
                "A Record 1": {
                    "Name": "pool.ntp.org.",
                    "Expiry": "24",
                    "TTL": "61",
                    "Type": "Dynamic",
                    "IP": [
                        "108.61.73.243",
                        "64.79.100.196",
                        "66.85.78.80",
                        "208.75.88.4"
                    ]
                },
                "SRV Record 2": {
                    "Name": "_ntp._udp.pool.ntp.org.",
                    "Expiry": "3563",
                    "TTL": "3600",
                    "Pri": "Negative",
                    "Wght": "",
                    "Port": "",
                    "Target": ""
```

```
        },
        "A Record 2": {
            "Name": "time.windows.com",
            "Expiry": "-12",
            "TTL": "12",
            "Type": "Dynamic",
            "IP": [
                "40.119.6.228"
            ]
        },
        "SRV Record 1": {
            "Name": "_ntp._udp.time.windows.com",
            "Expiry": "3563",
            "TTL": "3600",
            "Pri": "Negative",
            "Wght": "",
            "Port": "",
            "Target": ""
        }
      },
      "DNS Secondary Domain": "0.0.0.0"
    },
    "DNS Secondary Server": "",
    "DNS Address Override DHCP": "",
    "DNS Domain": "",
    "DNS Domain Override DHCP": ""
  },
  "Status": "2000"
}
```

Applicable return codes	2000, 4000, 5000

Description	This API sends a DNS query to the network to collect DNS information.
Protocol and Method	Protocol: HTTP/HTTPS Method: POST Path: /api/v1/diag/dns/query
Input and Output Syntax	JSON
Access Level	Admin, Advanced User, and User
| **Input** | ```json
{
    "data":
    {
        "Address" : "amazon.ca"
    }
}
``` |
| **Output** | ```json
{
    "Status": "2000",
    "data": {
        "Lookup Address": [
            "52.94.225.242",
            "54.239.19.238",
            "54.239.18.172"
        ]
    }
}
``` |
| **Applicable return codes** | 2000, 4000, 5000 |

Diag.NTP

Description	This API sends an NTP query to the network to validate the time and time servers.
Protocol and Method	Protocol: HTTP/HTTPS Method: GET Path: /api/v1/diag/ntp/info
Input and Output Syntax	JSON
Access Level	Admin, Advanced User, and User
Input	None

Output	"data": {
	
	   "AddressInUse": "",
	
	   "AddressSource": "DHCP"
	
	   "TimeReceived" "true"
	
	   "TimeZone" : ""
	   "CurrentTime" : "" },

Applicable return codes	2000, 4000, 5000

Description	This API sends an NTP query to the network to validate the time and time servers.
Protocol and Method	Protocol: HTTP/HTTPS Method: POST Path: /api/v1/diag/ntp/query
Input and Output Syntax	JSON
Access Level	Admin, Advanced User, and User

Input	"data":
	
	  {
	
	      "Server1" : "google.com",
	
	      "Server2" : "pool.ntp.org",
	
	      "Server3" : "time.windows.com"
	  }

Output	"SNTPResults": [
	
	     "Failed",
	
	    "OK",
	
	    "OK"
	   ]

Applicable return codes	2000, 4000, 5000

Diag.Traceroute

Description	This API Sends a traceroute to the network to collect key network path information.
Protocol and Method	Protocol: HTTP/HTTPS Method: POST Path: /api/v1/diag/traceroute
Input and Output Syntax	JSON
Access Level	Admin, Advanced User, and User

Input	{
	  "data":
	  {
	   "Address":"google.com",
	   "Hops" : 30,
	   "Timeout" : 2
	   }
	}

Output	{
	  "traceroute": [
	  "traceroute to 216.58.193.142 (216.58.193.142), 30 hops max, 38 byte packets\n",
	   " 1 *\n",
	   " 2 192.168.1.254 (192.168.1.254) 1.660 ms\n",
	   " 3 d64-180-196-1.bchsia.telus.net (64.180.196.1) 2.489 ms\n",
	   " 4 QUBCPQAJDR02.bb.telus.com (154.11.15.109) 7.410 ms\n",
	   " 5 209.85.174.62 (209.85.174.62) 7.230 ms\n",
	   " 6 108.170.245.97 (108.170.245.97) 7.901 ms\n",
	   " 7 108.170.245.108 (108.170.245.108) 7.806 ms\n",
	   " 8 142.250.209.14 (142.250.209.14) 13.690 ms\n",
	   " 9 209.85.250.4 (209.85.250.4) 37.473 ms\n",
	   "10 209.85.143.135 (209.85.143.135) 52.898 ms\n",
	   "11 108.170.228.85 (108.170.228.85) 50.501 ms\n",
	   "12 108.170.240.193 (108.170.240.193) 51.299 ms\n",
	   "13 209.85.244.85 (209.85.244.85) 51.839 ms\n",
	   "14 dfw25s34-in-f14.1e100.net (216.58.193.142) 50.457 ms\n"
	  ],
	  "Status": "2000"
	}

Applicable Return Codes	2000, 4000, 5000

Management.Screencapture

Description	This API enables a user to create a screenshot of the endpoint.
Protocol and Method	Protocol: HTTP/HTTPS Method: POST Path: /api/v1/mgmt/ screencapture
Input and Output Syntax	JSON
Access Level	Admin
Input	{"data":{"display":"phone"}} or {"data":{"display":"phone","page":"1"}} //same as above or {"data":{"display":"EM1","page":"3"}} or {"data":{"display":"EM2","page":"1"}}
Output	A screenshot/s of the requested screen.
Notes	When sending a request for phone display, page field is not required.

WebCallControl.Dial

Description	This API enables a user to initiate a call to a given number. Moreover, this API initiates the call and returns a response as an acknowledgment of request received.
Protocol and Method	Protocol: HTTP/HTTPS Method: POST Path: /api/v1/callctrl/dial
Input and Output Syntax	JSON
Access Level	Admin
| **Input** | ```json
{
   "data":
   {
      "Dest": "<NUMBER/SIP_URI>",
      "Line": "<LINE_NUMBER>",
      "Type":"<SIP/TEL/H323>"
   }
}
```<br><br>Dest – Mandatory Parameter<br>Line – Optional. Line 1 is default line used.<br>Type – Optional. Default type is TEL |
| **Output** | Success Response:<br>```json
{
   "Status": "2000"
}
```<br><br>Failure Response:<br>```json
{
   "Status": "<4xxx/5xxx>"
}
``` |
| **Applicable return codes** | 2000, 4000, 4002, 4400, 4403, 5000, 5500
4002 → If a line is not registered. |
| **Notes** | The format is as indicated below where two parameters are required. The test@polycom.com is the SIPURI of the person that sent the invite. Item in blue is the Skype meeting ID.<br>```json
{
   "data":
   {
      "Dest": " "test@polycom.com;gruu;opaque=app:conf:focus:id:ZTMVDGBH",
      "Line": "1"
      "Type":"SIP"
   }
}
``` |

WebCallControl.EndCall

Description	This API ends an active call.
Protocol and Method	Protocol: HTTP/HTTPS Method: POST Path: /api/v1/callctrl/endCall
Input and Output Syntax	JSON
Access Level	Admin

Input	{
	  "data":
	  {
	    "Ref": "<CALL_REFERENCE>"
	  }
	}
	
	Ref is a mandatory parameter.

Output	Success Response:
	{
	  "Status": "2000"
	}
	
	Failure Response:
	{
	  "Status": "<4xxx/5xxx>"
	}

Applicable return codes	2000, 4000, 4003, 4007, 4400, 4403, 5000, 5500 4003 $\Rightarrow$ Operation not allowed. Like in case of call is on hold. 4007 $\Rightarrow$ When call does not exist.

WebCallControl.MuteCall

Description	This API enables a user to mute the phone, if applicable.
Protocol and Method	Protocol: HTTP/HTTPS Method: POST Path: /api/v1/callctrl/mute
Input and Output Syntax	JSON
Access Level	Admin

Input	{
	  "data":
	  {
	    "state": "<0/1>"
	  }
	}
	
	State is a mandatory parameter.

Output	Success Response:
	{
	  "Status": "2000"
	}
	
	Failure Response:
	{
	  "Status": "<4xxx/5xxx>"
	}

Applicable return codes	2000, 4000, 4003, 4007, 4400, 4403, 5000, 5500 4003 → Operation not allowed. Like in case of call is on hold. 4007→ When call does not exist.

WebCallControl.TransferCall

Description	This API enables a user to transfer a call. In addition, this API always executes a blind transfer.
Protocol and Method	Protocol: HTTP/HTTPS Method: POST Path: /api/v1/callctrl/transferCall
Input and Output Syntax	JSON
Access Level	Admin

Input	{
	  "data":
	  {
	    "Ref": "<CALL_REFERENCE>",
	    "TransferDest": "<NUMBER>"
	  }
	}
	
	Ref is mandatory parameter.
	TransferDest is mandatory parameter.

Output	Success Response:
	{
	  "Status": "2000"
	}
	
	Failure Response:
	{
	  "Status": "<4xxx/5xxx>"
	}

Applicable return codes	2000, 4000, 4007, 4400, 4403, 5000, 5500 4007→ When call does not exist.

WebCallControl.SendDTMF

Description	This API enables a user to send DTMF tones during an active call.
Protocol and Method	Protocol: HTTP/HTTPS Method: POST Path: /api/v1/callctrl/sendDTMF
Input and Output Syntax	JSON
Access Level	Admin

Input	{
	  "data":
	  {
	    "Digits": "\<DIGITS>"
	  }
	}
	
	Digits: mandatory parameter.

Output	Success Response:
	{
	  "Status": "2000"
	}
	
	Failure Response:
	{
	  "Status": "\<4xxx/5xxx>"
	}

Applicable return codes	2000, 4000, 4007, 4400, 4403, 5000, 5500 4007→ When call does not exist.

WebCallControl.CallLogs

Description	This API provides the phone's call logs.
Protocol and Method	Protocol: HTTP/HTTPS Method: GET Path: /api/v1/mgmt/callLogs /api/v1/mgmt/callLogs/missed /api/v1/mgmt/callLogs/received /api/v1/mgmt/callLogs/placed
Input and Output Syntax	JSON
Access Level	Admin
Input	None

Output	Success Response for Path: /api/v1/callctrl/callLogs
	{
	  "Status": "2000",
	  "data":
	  {
	    "missed": [
	     {
	      "LineNumber": "<LINE NUMBER>",
	      "StartTime": "<START_TIME>",
	      "RemotePartyName": "<REMOTE_PARTY_NAME>",
	      "RemotePartyNumber": <REMOTE_PARTY_NUMBER>,
	      "Duration":"<DURATION>"
	     },
	     {
	      "LineNumber": "<LINE NUMBER>",
	      "StartTime": "<START_TIME>",
	      "RemotePartyName": "<REMOTE_PARTY_NAME>",
	      "RemotePartyNumber": <REMOTE_PARTY_NUMBER>,
	      "Duration":"<DURATION>"
	     },
	     ...
	     ...
	     ...
	    ],
	    "received": [
	     {
	      "LineNumber": "<LINE NUMBER>",
	      "StartTime": "<START_TIME>",
	      "RemotePartyName": "<REMOTE_PARTY_NAME>",
	      "RemotePartyNumber": <REMOTE_PARTY_NUMBER>,
	      "Duration":"<DURATION>"
	     },
	     {
	      "LineNumber": "<LINE NUMBER>",

```
                    "StartTime": "<START_TIME>",
                    "RemotePartyName": "<REMOTE_PARTY_NAME>",
                    "RemotePartyNumber": <REMOTE_PARTY_NUMBER>,
                    "Duration":"<DURATION>"
                },
               ...
               ...
               ...
            ],
            "placed": [
              {
                "LineNumber": "<LINE NUMBER>",
                "StartTime": "<START_TIME>",
                "RemotePartyName": "<REMOTE_PARTY_NAME>",
                "RemotePartyNumber": <REMOTE_PARTY_NUMBER>,
                "Duration":"<DURATION>"

              },
              {
                "LineNumber": "<LINE NUMBER>",
                "StartTime": "<START_TIME>",
                "RemotePartyName": "<REMOTE_PARTY_NAME>",
                "RemotePartyNumber": <REMOTE_PARTY_NUMBER>,
                "Duration":"<DURATION>"
              },
                    ...
            ]
        }
    }
```

Applicable return codes	2000, 4400, 4403, 5000, 5500

WebCallControl.GetCurrentPresence

Description	This API provides the phone's presence and is supported only for Skype for Business.
Protocol, Method & Path	Protocol: HTTP/HTTPS Method: GET Path /api/v1/mgmt/getPresence
Input and Output Syntax	JSON
Access Level	Admin
Input	None

Output	Success Response:
	{
	  "Status": "2000"
	  "Presence":"<Presence State>"
	}
	
	Failure Response:
	{
	  "Status": "<4xxx/5xxx>"
	}

Applicable return codes	2000, 4004, 4400, 4403, 5000, 5500 4004 → This is supported on any other call servers.

WebCallControl.SipStatus

Description	This API provides the phone's SIP level details for the user.
Protocol, Method & Path	Protocol: HTTP/HTTPS Method: GET Path: /api/v1/webCallControl/sipStatus
Input and Output Syntax	JSON
Access Level	Admin
Input	None
Output	Success Response:

```
{
        "data":
        {
                "User":
                [
                        {
                                "Name": "3339940674"
                                "TotalEvents": "2"
                                "LineNumber": "1"
                                "Events":
                                [
                                        {
                                                "Type": "Register"
                                                "Overlap": "120"
                                                "CallID": "b8c9a1cb-
cf11d4b-93c1850b@172.24.158.18"

                                                "RegistrationState":
"Registered"

                                                "Expires": "6965"
                                        },
                                        {
                                                "Type": "BLF"
                                                "CallID": "7a8900cb-
eb6900cb-a65900cb@172.24.158.18"
                                        }
                                ],
                                "TotalCalls": "2"
                                "Calls":
                                [
                                        {
                                "CallState": "Hold"
                                                "CallID": "f64900cb-
e64900cb-9e4900cb@172.24.158.18"
                                        },
                                        {
                                                "CallState": "Connected"
                                                "CallID": "d64900cb-
d64900cb-d64900cb@172.24.158.18"
                                        }
```

```
                                    ]
                                },
                …


                ],
                        "TotalUser": "2"
                }
                    "Status": "2000"
            }

            Failure Response:
            {
               "Status": "5000"
            }
```

Applicable return codes	2000, 4400, 4403, 5000, 5500
Notes	The sipStatus of the last call is valid for approximately 40 seconds after the call ends.

WebCallControl.HoldCall

Description	This API allows the user to hold an active call.
Protocol and Method	Protocol: HTTP/HTTPS Method: POST Path: /api/v1/callctrl/holdCall
Input and Output Syntax	JSON
Access Level	Admin

Input	{
	   "data":
	   {
	     "Ref": "<CALL_REFERENCE>"
	   }
	}

Output	Success Response:
	{
	   "Status": "2000"
	}
	
	Failure Response:
	{
	
	   Status": "<4xxx/5xxx>"
	}

Applicable return codes	2000, 4003, 4007, 4400, 4403, 5000, 5500
Notes	Input is optional. If input is not provided, the active call or conference will be put on hold. If the call represented by "Ref" in input is in a conference, the conference will be put on hold.

WebCallControl.ResumeCall

Description	This API resumes the call which was previously on hold.
Protocol and Method	Protocol: HTTP/HTTPS Method: POST Path: /api/v1/callctrl/resumeCall
Input and Output Syntax	JSON
Access Level	Admin

Input	{
	   "data":
	   {
	      "Ref": "<CALL_REFERENCE>"
	   }
	}
	
	Ref is a mandatory parameter

Output	Success Response:
	{
	   "Status": "2000"
	}
	
	Failure Response:
	{
	
	   "Status": "<4xxx/5xxx>"
	}

Applicable return codes	2000, 4003, 4007, 4400, 4403, 5000, 5500
Notes	Input is optional. If input is not provided, the active call will be resumed if it's on hold. If the call represented by "Ref" in input is in a conference, the conference will be resumed if it's on hold.

WebCallControl.AnswerCall

Description	This API answers an incoming call.
Protocol and Method	Protocol: HTTP/HTTPS Method: POST Path: /api/v1/callctrl/answerCall
Input and Output Syntax	JSON
Access Level	Admin

Input	{
	   "data":
	   {
	     "Ref": "<CALL_REFERENCE>"
	   }
	}

Output	Success Response:
	{
	   "Status": "2000"
	}
	
	Failure Response:
	{
	
	   "Status": "<4xxx/5xxx>"
	}

Applicable return codes	2000, 4000, 4003, 4007, 4400, 4403, 5000, 5500 4003 → Operation not allowed. Like in case, call is not in an incoming state. 4007→ When call does not exist.
Notes	Input is optional. The incoming call represented by "Ref" will be answered only if it's an active call.

WebCallControl.IgnoreCall

Description	This API allows the user to ignore an incoming call.
Protocol and Method	Protocol: HTTP/HTTPS Method: POST Path: /api/v1/callctrl/ignoreCall
Input and Output Syntax	JSON
Access Level	Admin

Input	{
	   "data":
	   {
	     "Ref": "<CALL_REFERENCE>"
	   }
	}

Output	Success Response:
	{
	   "Status": "2000"
	}
	
	Failure Response:
	{
	
	   "Status": "<4xxx/5xxx>"
	}

Applicable return codes	2000, 4003, 4007, 4400, 4403, 5000, 5500
Notes	Input is optional. The call represented by "Ref" will be ignored only if it's an active call.

WebCallControl.RejectCall

Description	This API allows the user to reject an incoming call.
Protocol and Method	Protocol: HTTP/HTTPS Method: POST Path: /api/v1/callctrl/rejectCall
Input and Output Syntax	JSON
Access Level	Admin

Input	{
	
	  "data":
	
	  {
	
	    "Ref": "<CALL_REFERENCE>"
	
	  }
	
	}

Output	Success Response:
	
	{
	
	  "Status": "2000"
	
	}
	
	 Failed Response:
	
	{
	
	  "Status": "<4xxx/5xxx>"
	
	}

Applicable return codes	2000, 4003, 4007, 4400, 4403, 5000, 5500
Notes	Input is optional. The call represented by "Ref" will be rejected only if it's the active call.

Management.PollForStatus

Protocol, Method & Path	Protocol: HTTPS Method: GET Path: /api/v1/mgmt/pollForStatus
Input and Output Syntax	JSON
Access Level	Admin
Input	None

Output	Success Response:
	{
	  "Status": "2000",
	  "data":
	  {
	      "State": "<Idle|Active|Error>",
	
	      //// If State = Idle
	      "StateData": "<Time of last call 2015-04-07T19:11:07"
	
	      //// If State = Active
	      "StateData":"<Active call duration>"
	
	      //// If State = Error
	      "StateData":"<Any available Error information>"
	      //// e.g. "All Phone applications are not ready."
	  }
	}
	
	Failure Response"
	{
	   "Status": "5000"
	}

Applicable return codes	2000, 4400, 4400, 4403, 5000, 5500

Management.GetTransferType

Description	This API returns the current transfer type set on the phone.
Protocol, Method & Path	Protocol: HTTP/HTTPS Method: GET Path: /api/v1/mgmt/transferType/get
Output Syntax	JSON
Access Level	Admin
Input	None

Output	Success Response:
	{
	   "data": {
	      "Type": "<Consultative/Blind/Safe/Unknown>"
	   },
	   "Status": "2000"
	}
	
	Failure Response:
	{
	   "Status": "5000"
	}

Applicable return codes	2000, 4400, 4403, 5000, 5500

Management.SetTransferType

Description	This API sets the transfer type on the phone.
Protocol, Method & Path	Protocol: HTTP/HTTPS Method: POST Path: /api/v1/mgmt/transferType/set
Output Syntax	JSON
Access Level	Admin

Input	{
	   "data": {
	      "Type": "<Consultative/Blind/Safe>"
	   }
	}

Output	Success Response:
	{
	   "Status": "2000"
	}
	
	Failure Response:
	{
	   "Status": "<4xxx/5xxx>"
	}

Applicable return codes	2000, 4000, 4400, 4403, 5000, 5500

Management.Uixml

Description	This API provides an XML representation of phone's user interface.
Protocol, Method & Path	Protocol: HTTP/HTTPS Method: GET Path: /api/v1/mgmt/uixml
Output Syntax	JSON
Access Level	Admin
Input	None

Output	Success Response:
	{
	   "data": "<XML_DATA>",
	   "Status": "2000"
	}
	
	Failure Response:
	{
	   "Status": "5000"
	}

Applicable return codes	2000, 4400, 4403, 5000, 5500
Notes	For soft keys involving "More", user must take the view-offset (view-offset="0:0" for the first set of keys, view-offset="320:0" for the second set of keys and so on) in UIXML into consideration. To get the actual coordinates of a softkey on the screen, user should subtract the x value of view-offset from the x value of softkey coordinate.

Management.DeviceStats

Description	This API provides details about phone's CPU and memory usage.
Protocol, Method & Path	Protocol: HTTP/HTTPS Method: GET Path: /api/v1/mgmt/device/stats
Output Syntax	JSON
Access Level	Admin
Input	None
Output	Success Response:

```
{
"data": {
     "Memory": {
       "Used": ""<SIZE_IN_BYTES>",
       "Free": ""<SIZE_IN_BYTES>",
       "polyapp": {
          "uordblks": ""<SIZE_IN_BYTES>",
          "hblkhd": ""<SIZE_IN_BYTES>",
          "arena": ""<SIZE_IN_BYTES>",
          "fordblks": ""<SIZE_IN_BYTES>"
       },
       "Total": ""<SIZE_IN_BYTES>",
       "em": {
          "uordblks": ""<SIZE_IN_BYTES>",
          "hblkhd": ""<SIZE_IN_BYTES>",
          "arena": ""<SIZE_IN_BYTES>",
          "fordblks": ""<SIZE_IN_BYTES>"
       },
       "ComAS": ""<SIZE_IN_BYTES>",
       "Cached": ""<SIZE_IN_BYTES>",
       "SReclaim": ""<SIZE_IN_BYTES>",
       "brow": {
          "uordblks": ""<SIZE_IN_BYTES>",
          "hblkhd": ""<SIZE_IN_BYTES>",
          "arena": ""<SIZE_IN_BYTES>",
          "fordblks": ""<SIZE_IN_BYTES>"
       },
       "pgui": {
          "uordblks": ""<SIZE_IN_BYTES>",
          "hblkhd": ""<SIZE_IN_BYTES>",
          "arena": ""<SIZE_IN_BYTES>",
          "fordblks": ""<SIZE_IN_BYTES>"
       },
       "osd": {
          "uordblks": ""<SIZE_IN_BYTES>",
          "hblkhd": ""<SIZE_IN_BYTES>",
          "arena": ""<SIZE_IN_BYTES>",
          "fordblks": ""<SIZE_IN_BYTES>"
       },
```

```
        "ec": {
            "uordblks": ""<SIZE_IN_BYTES>",
            "hblkhd": ""<SIZE_IN_BYTES>",
            "arena": ""<SIZE_IN_BYTES>",
            "fordblks": ""<SIZE_IN_BYTES>"
        },
        "dbs": {
            "uordblks": ""<SIZE_IN_BYTES>",
            "hblkhd": ""<SIZE_IN_BYTES>",
            "arena": ""<SIZE_IN_BYTES>",
            "fordblks": ""<SIZE_IN_BYTES>"
        }
    },
    "CPU": {
        "Current": "<CURRENT_CPU_LOAD>",",
        "Average": "<AVERAGE_CPU_LOAD>"
    },
    "RAMDiskSize": ""<SIZE_IN_BYTES>"
  },
"Status": "2000"
}

Failure Response:
{
    "Status": "5000"
}
```

Applicable return codes	2000, 4400, 4403, 5000, 5500

Management.RunningConfig

Description	This API provides information about running configuration on phone.
Protocol, Method & Path	Protocol: HTTP/HTTPS Method: GET Path: /api/v1/mgmt/device/runningConfig
Output Syntax	JSON
Access Level	Admin
Input	None
Output	Success Response:

```
{
  "data": {
    "Network": {
      "IPAddress": "<PHONE_IP_ADDRESS>",
      "SubnetMask": "<SUBNET_MASK>",
      "IPGateway": "<IP_GATEWAY>",
      "IPStack": "IPv4 Only/IPv6 Only/(Dual IPv4/IPv6 stack)",
      "IPv6Address": "<PHONE_IPV6_ADDRESS>",
      "IPv6Gateway": "<IPV6_GATEWAY>",
      "IPv6AddressDiscovery": "<DHCP/Static/SLAAC>",
      "IPv6LinkAddress": "<LINK_LOCAL_IPV6_ADDRESS>",
      "IPv6ULAAddress": "<UNIQUE_LOCAL_IPV6_ADDRESS>",
      "PreferredNetwork": "<IPv4/IPv6>",
      "VLAN": "<VLAN_IDENTIFIER>",
      "VLANFiltering": "<Enabled/Disabled>",
      "CDP": "<Enabled/Disabled>"
      "LLDP": "<Enabled/Disabled>",
      "StormFilterPPS": "<STORM_FILTER_PPS_VALUE>",
      "StormFiltering": "<Enabled/Disabled>",
    },
    "DHCP": {
      "Feature": "<Enabled/Disabled>",
      "Option60Format": "<RFC3925 Binary/ASCII String>",
      "BootServerOptionType": "<IP/String>",
      "BootServerUseOption": "<BOOT_SERVER_USE_OPTION>",
      "BootServerOption": "<BOOT_SERVER_OPTION_NUMBER>",
      "OfferTimeout": "<DHCP_OFFER_TIMEOUT>",
      "VLANDiscovery": "<Disabled/Default/Custom>"
      "VLANDiscoveryOption": "<DHCP_OPTION_FOR_VLAN_DISC>",
    },
    "DNS": {
      "Feature": "<Enabled/Disabled>",
      "PrimaryServer": "<PRIMARY_DNS_SERVER>",
      "SecondaryServer": "<SECONDARY_DNS_SERVER>",
      "Domain": "<DNS_DOMAIN>"
    },
    "Provisioning": {
```

```
              "Server": "<PROVISIONING_SERVER_ADDRESS>",
              "ServerType": "<FTP/Trivial FTP/FTPS/HTTP/HTTPS>",
              "User": "<PROVISIONING_USERNAME>",
              "FileTxTries": "<MAX_ATTEMPTS_FOR_FILE_TRANSFER>",
              "RetryWait": "<FILE_TRANSFER_RETRY_WAIT_TIME>",
              "MaxServers": "<MAX_NUMBER_OF_IP_TO_USE_FROM_DNS>",
              "NetworkEnv": "Dial-up/(Cable/DSL)/LAN",
              "TagSerialNo": "<Enabled/Disabled>"
          },
          "Syslog": {
              "Server": "<SYSLOG_SERVER_ADDRESS>",
              "Transport": "<None/TCP/UDP/TLS>"
              "RenderLevel": "<SYSLOG_RENDER_LEVEL>",
              "Facility": "<SYSLOG_FACILITY>",
              "PrependMAC": "<Enabled/Disabled>",
          },
          "SNTP": {
              "Server": "<SNTP_SERVER_ADDRESS>",
              "GMTOffsetSeconds": "<GMT_OFFSET_IN_SECONDS>",
              "GMTOffsetHours": "<GMT_OFFSET_IN_HOURS>"
          },
          "TR069": {
              "Feature": "<Enabled/Disabled>",
              "ACSURL": "<ACS_SERVER_URL>",
              "ACSUsername": "<ACS_USERNAME>",
              "CPEUsername": "<CPE_USERNAME>",
              "PeriodicInform": "<Enabled/Disabled>",
              "InformInterval": "<PERIODIC_INFORM_INTERVAL>",
              "UpgradeManagement": "<Enabled/Disabled>"
          }
      },
        "Status": "2000"
}

Failure Response:
{
    "Status": "5000"
}
```

Applicable return codes	2000, 4400, 4403, 5000, 5500

Management.SimulateTouch

Description	This API simulates touch events on phone.
Protocol, Method & Path	Protocol: HTTP/HTTPS Method: POST Path: /api/v1/mgmt/simulateTouch
Input and Output Syntax	JSON
Access Level	Admin
| **Input** | ```
{
    "data": {
        "Type": "<Tap/Press/Release/Swipe>",
        "Positions": [
            {
                "X": "<X_CO-ORDINATE>",
                "Y": "<Y_CO-ORDINATE>"
            }
        ],
        "Duration": "<DURATION_IN_MILLISECONDS>",
        "Easing": "<0-40>"
    }
}
``` |
| **Output** | Success Response:<br>```
{
    "Status": "2000"
}
```<br><br>Failure Response:<br>```
{
    "Status": "<4xxx/5xxx>"
}
``` |
| **Applicable return codes** | 2000, 4000, 4009, 4400, 4403, 5000, 5500 |
| **Notes** | • For "Tap/Press/Release" events, only one position object is accepted.
• For "Swipe" event, a minimum of two and a maximum of five events are accepted.
• "Duration" is the time in milliseconds over which the event is simulated. This is an optional parameter.
• "Easing" represents the type of easing curve applied for the simulation. This is an optional parameter. Please refer to http://doc.qt.io/qt-4.8/qeasingcurve.html#Type-enum for more information on the accepted values.
• This API will not work if the position provided is outside the screen boundary.
• For soft keys involving "More", user must take the view-offset (view-offset="0:0" for the first set of keys, view-offset="320:0" for the second set of keys and so on) in UIXML into consideration. To get the actual coordinates of a softkey on the screen, user should subtract the x value of view-offset from the x value of softkey coordinate. |

Management.SkypeSignIn

Description	This API allows user to sign in to Skype for Business on phone.
Protocol and Method	Protocol: HTTP/HTTPS Method: POST Path: /api/v1/mgmt/skype/signIn
Input and Output Syntax	JSON
Access Level	Admin

Input	{
	   "data": {
	      "Address": "<SIGN_IN_ADDRESS>",
	      "User": "<USERNAME>",
	      "Password": "<PASSWORD>",
	      "Domain": "<DOMAIN>",
	      "LockCode": "<LOCK_CODE>"
	   }
	}

Output	Success Response:
	{
	 "Status": "2000"
	}
	
	Failure Response:
	{
	 "Status": "<4xxx/5xxx>"
	}

Applicable return codes	2000, 4000, 4002, 4003, 4004, 4400, 4403, 5000, 5500
Notes	• Response will be returned only after the sign in operation succeeds or fails or times out (150 seconds). • For accounts where domain is optional, empty string must be passed as value for "Domain". • "LockCode" is an optional parameter.

Management.SkypeSignOut

Description	This API allows user to sign out of Skype for Business on phone
Protocol and Method	Protocol: HTTP/HTTPS Method: POST Path: /api/v1/mgmt/skype/signOut
Input and Output Syntax	JSON
Access Level	Admin
Input	None

Output	Success Response:
	{
	　"Status": "2000"
	}
	
	Failure Response:
	{
	　"Status": "<4xxx/5xxx>"
	}

Applicable return codes	2000, 4003, 4004, 4400, 4403, 5000, 5500

Management.CommunicationInfo

Description	This API provides information about any ongoing communication on phone.
Protocol and Method	Protocol: HTTP/HTTPS Method: GET Path: /api/v1/mgmt/media/communicationInfo
Input and Output Syntax	JSON
Access Level	Admin
Input	None

Output	Success Response:
	{
	   "data": {
	     "CommunicationType": [
	       "<RxOnly/TxOnly/RxTx/None/Idle>",
	       "<RxOnly/TxOnly/RxTx/None/Idle>"
	     ],
	     "FarEndMuteState": [
	       "<CONFERENCE_LEG_PHONE_NUMBER>",
	       ...
	     ],
	     "PhoneMuteState": "<True/False>"
	   },
	   "Status": "2000"
	}
	
	Failure Response:
	{
	   "Status": "5000"
	}

Applicable return codes	2000, 4400, 4403, 5000, 5500
Notes	This API provides the Receive (Rx) and Transmit (Tx) port open information only. For actual packets sent/received API "mgmt/media/sessionStats" should be used.

Management.LocationInformation

Description	This API provides the location information of the phone.
Protocol and Method	Protocol: HTTP/HTTPS Method: GET Path: /api/v1/mgmt/location/info
Input and Output Syntax	JSON
Access Level	Admin
Input	None

Output	Success Response:
	{
	  "data": {
	    "Country": "\<Value>"
	    "StreetGroup": "\<Value>"
	    "House Number": "\<Value>"
	    "State": "\<Value>"
	    "Place Type ": "\<Value>"
	    "District": "\<Value>"
	    "Add. Info": "\<Value>"
	    "Road SubSection": "\<Value>"
	    "City": "\<Value>"
	    "Neighbourhood Block": "\<Value>"
	    "Landmark": "\<Value>"
	    "Post Box": "\<Value>"
	    "Division": "\<Value>"
	    "Street": "\<Value>"
	    "Road Section": "\<Value>"
	    "Street1": "\<Value>"
	    "Street2": "\<Value>"
	    "Place Name": "\<Value>"
	    "House Num. Suff.": "\<Value>"
	    "Zip Code": "\<Value>"
	    "Road Pre Modifier": "\<Value>"
	    "Building": "\<Value>"
	    "Unit": "\<Value>"
	    "Floor": "\<Value>"
	    "Additional Code": "\<Value>"
	    "Room": "\<Value>"
	    "Postal Name": "\<Value>"
	    "Seat": "\<Value>"
	    "Road": "\<Value>"
	    "Road Branch": "\<Value>"
	    "Road Post Modifier": "\<Value>"
	  },
	  "Status": 2000
	}
	
	Failure Response:

```
{
  Status: "5000"
}
```

Applicable return codes	2000, 4400, 4403, 5000, 5500

Management.ExportConfiguration

Description	REST Server within the phone receives a POST request with the URL in the data, and then exports the requested configuration to the provided URL.
Protocol and Method	Protocol: HTTP/HTTPS Method: POST Path: /api/v1/mgmt/config/export
Input and Output Syntax	JSON
Access Level	Admin

Input	{
	   "data":
	   {
	      "Url": "<Absolute URL>"
	      "ConfigType":"<ConfigFiles|Local|Web|Device|All>"
	   }
	}
	URL: Mandatory parameter
	ConfigType: Mandatory parameter

Output	Response:
	{
	   "Status": "2000",
	}
	
	Failed Response:
	{
	   "Status": "<4xxx/5xxx>"
	}
	Configuration would be sent to provided URL. In case of ConfigType "All", all the configuration would be uploaded except device. For device configuration, separate API has to be executed with ConfigType as "Device".

Applicable return codes	2000, 4400, 4403, 5000, 5500

Management.SessionStats

Description	This API provides statistics of active media sessions on phone.
Protocol and Method	Protocol: HTTP/HTTPS Method: GET Path: /api/v1/mgmt/media/sessionStats
Input and Output Syntax	JSON
Access Level	Admin
Input	None

Output	Success Response:
	{
	  "data": [
	    {
	      "Ref": "\<SESSION_REFERENCE>",
	      "SRTPCall": "\<True/False>",
	      "H235Call": "\<True/False>",
	      "H235DHKey": "\<H235_SHARED_SECRET_KEY>"
	      "Streams": [
	        {
	          "Ref": "\<AUDIO_STREAM_REFERENCE>",
	          "Category": "0:Voice",
	          "PacketsReceived": "\<RECEIVED_PACKETS>",
	          "PacketsSent": "\<SENT_PACKETS>",
	          "OctetsReceived": "\<RECEIVED_OCTETS>",
	          "OctetsSent": "\<SENT_OCTETS>",
	          "PacketsExpected": "\<EXPECTED_PACKETS>",
	          "PacketsLost": "\<LOST_RX_PACKETS>",
	          "Jitter": "\<RX_JITTER>",
	          "MaxJitter": "\<MAX_JITTER>",
	          "Latency": "\<LATENCY>",
	          "RxPayloadSize": "\<RX_PAYLOAD_SIZE>",
	          "TxPayloadSize": "\<TX_PAYLOAD_SIZE>",
	          "RxCodec": "\<RX_CODEC>",
	          "TxCodec": "\<TX_CODEC>",
	          "RxMOSCQ": "\<REMOTE_CONVERSATIONAL_QUALITY_MOS_SCORE>",
	          "TxMOSCQ": "\<LOCAL_CONVERSATIONAL_QUALITY_MOS_SCORE>",
	          "RxMOSLQ": "\<REMOTE_LISTENING_QUALITY_MOS_SCORE>"
	          "TxMOSLQ": "\<LOCAL_LISTENING_QUALITY_MOS_SCORE>",
	        },
	        {
	      {
	          "Ref": "\<VIDEO_STREAM_REFERENCE>",
	          "Category": "1:Video",
	          "PacketsReceived": "\<RECEIVED_PACKETS>",
	
	          "PacketsSent": "\<SENT_PACKETS>",
	          "OctetsReceived": "\<RECEIVED_OCTETS>",

"OctetsSent": "<SENT_OCTETS>",
"PacketsExpected": "<EXPECTED_PACKETS>",
"PacketsLost": "<LOST_RX_PACKETS>",
"Jitter": "<RX_JITTER>",
"MaxJitter": "<MAX_JITTER>",
"Latency": "<LATENCY>",
"RxPayloadSize": "v",
"TxPayloadSize": "v",
"RxCodec": "<RX_CODEC>",
"TxCodec": "<TX_CODEC>",
"VideoRxFramerate": "<VIDEO_RX_FRAMERATE>",
"VideoRxFrameWidth": "<VIDEO_RX_FRAMEWIDTH>",
"VideoRxFrameHeight": "<VIDEO_RX_FRAMEHEIGHT>",
"VideoRxFastUpdateReqCnt":
<VIDEO_RX_FAST_UPDATE_REQUEST_COUNT>",
"VideoRxActBitrateKbps": "<VIDEO_ACTUAL_BITRATE>",
"VideoTxFramerate": "<VIDEO_TX_FRAMERATE>",
"VideoTxFrameWidth": "<VIDEO_TX_FRAMEWIDTH>",
"VideoTxFrameHeight": "<VIDEO_TX_FRAMEHEIGHT>",
"VideoTxConfigBitrateKbps": "<VIDEO_CONFIGURED_BITRATE>",
"VideoTxFastUpdateReqCnt":
<VIDEO_RX_FAST_UPDATE_REQUEST_COUNT>",
"VideoTxActBitrateKbps": "<VIDEO_RX_FRAMERATE>",
                }
            ]
        },
        ...
    ],
  "Status": "2000"
}

Failure Response:
{

  "Status": "5000"
}

Applicable return codes	2000, 4400, 4403, 5000, 5500

Management.CallStatus

Description	This API provides all the information of calls on the phone.
Protocol and Method	Protocol: HTTP/HTTPS Method: GET Path: /api/v1/webCallControl/callStatus
Input and Output Syntax	JSON
Access Level	Admin
Input	None

Output	Success Response:
	{
	  "Status": "2000",
	  "data":
	  {
	    "CallHandle": "<9577dd30>",
	    "Type": "<Incoming >",
	    "Protocol": "<SIP >",
	    "CallState": "<Connected >",
	    "LineID": "<1>",
	    "RemotePartyName": "<3339941432>",
	    "RemotePartyNumber": "sip:1432@10.240.10.210",
	    "DurationInSeconds": "<7>"
	  }
	}
	
	Failure Response:
	{
	  "Status": "<4xxx/5xxx>"
	}

Applicable return codes	2000, 4007, 4400, 4403, 5000, 5500

Management.LineInfo

Description	This API provides details about the phones's line's information.
Protocol and Method	Protocol: HTTP/HTTPS Method: GET Path: /api/v1/mgmt/lineInfo
Input and Output Syntax	JSON
Access Level	Admin
Input	None

Output	Success Response:
	``
	{
	  "Status": "2000",
	  "data": [
	    {
	      "LineNumber": "<LINE_NUMBER>",
	      "Protocol": "<SIP/H323>",
	      "SIPAddress": "<SIP_ADDRESS>",
	      "ProxyAddress": "<PROXY_ADDRESS>",
	      "UserID": "<USER_ID>",
	      "Label": "<LABEL>",
	      "LineType": "<Shared/Private>",
	      "RegistrationStatus": "<Registered/Unregistered>",
	      "Port": "<PORT>"
	    },
	    {
	      "LineNumber": "<LINE_NUMBER>",
	      "Protocol": "<SIP/H323>",
	      "SIPAddress": "<SIP_ADDRESS>",
	      "ProxyAddress": "<PROXY_ADDRESS>",
	      "AutoDiscovery": "<Enabled/Disabled>"
	      "UserID": "<USER_ID>",
	      "Label": "<LABEL>",
	      "LineType": "<Shared/Private>",
	      "RegistrationStatus": "<Registered/Unregistered>",
	      "Port": "<PORT>"
	    },
	     ...
	      ...
	      ...
	  ]
	}
	``
	
	Failure Response:
	``
	{
	  "Status": "<4xxx/5xxx>"
	}
	``

Applicable return codes	2000, 4400, 4403, 5000, 5500

Management.UpdateConfiguration

Description	This API allows the user to sync phone's configuration with the provisioning server.
Protocol and Method	Protocol: HTTP/HTTPS Method: POST Path: /api/v1/mgmt/updateConfiguration
Input and Output Syntax	JSON
Access Level	Admin
Input	None

Output	Success Response:
	{
	   "Status": "2000",
	   "data": {
	       "ProvisioningState": "\<Provisioning status code\>"
	     }
	}
	
	Failure Response:
	{
	   "Status": "\<4xxx/5xxx\>"
	}

Applicable return codes	2000, 4001, 4400, 4403, 5000, 5500

Management.SimulateTextInput

Description	This API allows the user to input text into text fields in phone UI.
Protocol and Method	Protocol: HTTP/HTTPS Method: POST Path:/api/v1/mgmt/simulateTextInput
Input and Output Syntax	JSON
Access Level	Admin

Input	{
	   "data":
	  {
	     "Value": "<Input text >",
	     "ReplaceText": "<true/false>"
	  }
	}
	
	ReplaceText is optional. If set to true, it replaces any existing text in phone UI's text field with the value provided.

Output	Success Response:
	{
	   "Status": "2000",
	}
	
	Failure Response:
	{
	   "Status": "<4xxx/5xxx>"
	}

Applicable return codes	2000, 4000, 4400, 4403, 5000, 5500

Management.SimulateKeyEvent

Description	This API allows the user to simulate a tap event on phone UI.
Protocol and Method	Protocol: HTTP/HTTPS Method: POST Path:/api/v1/mgmt/simulateKeyEvent
Input and Output Syntax	JSON
Access Level	Admin

Input	{
	  "data":
	  {
	    "Type": "Tap ",
	    "KeyName": "<Key Label>"
	  }
	}
	Accepted values for <Key Label>:
	  • SoftKey1
	  • SoftKey2
	  • SoftKey3
	  • SoftKey4
	  • SoftKey5
	  • Line1
	  • Line2
	  • LineN, where N is the number of lines visible on phone UI. Max N allowed 12 (EM or Pagination lines not included)
	  • ArrowDown
	  • ArrowLeft
	  • ArrowRight
	  • ArrowUp
	  • Select
	  • Delete
	  • Dialpad0
	  • Dialpad1
	  • Dialpad2
	  • Dialpad3
	  • Dialpad4
	  • Dialpad5
	  • Dialpad6
	  • Dialpad7
	  • Dialpad8
	  • Dialpad9
	  • DialpadStar
	  • DialpadPound
	  • Handsfree
	  • Headset
	  • MicMute
	  • Transfer
	  • VolDown

	• VolUp • Menu • Redial • Applications

Output	Success Response:
	{
	   "Status": "2000",
	}
	
	Failure Response:
	{
	   "Status": "4000"
	}

Applicable return codes	2000, 4000, 4400, 4403, 5000, 5500

Management.SimulateHook

Description	This API allows the user to simulate off/on hook on phone..
Protocol and Method	Protocol: HTTP/HTTPS Method: POST Path:/api/v1/mgmt/simulateHook
Input and Output Syntax	JSON
Access Level	Admin

Input	{
	   "data":
	   {
	      "Type": "<Up/Down >"
	   }
	}
	
	Type is a mandatory parameter.

Output	Success Response:
	{
	   "Status": "2000"
	}
	
	Failure Response:
	{
	   "Status": "4000"
	}

Applicable return codes	2000, 4000, 4400, 4403, 5000, 5500

Management.LedStatus

Description	This API provides LED status of the device.
Protocol and Method	Protocol: HTTP/HTTPS Method: GET Path: /api/v1/mgmt/ledStatus
Input and Output Syntax	JSON
Access Level	Admin
Input	None

Output	Success Response:
	{
	 "data": {
	    "Lines": [
	     {
	      "LineNumber": "1",
	      "State": "off"
	     },
	     {
	      "LineNumber": "2",
	      "Color": "green",
	      "State": "active"
	     }
	    ],
	    "MWI": {
	     "State": "off"
	    },
	    "Mute": {
	     "State": "off"
	    },
	    "Speaker": {
	     "Color": "green",
	     "State": "on"
	    },
	    "Headset": {
	     "State": "off"
	    }
	  },
	  "Status": "2000"
	}
	
	Failure Response:
	{
	   "Status": "5000"
	}

Applicable return codes	2000, 4400, 4403, 5000, 5500

Management.BluetoothInfo

Description	This API provides Bluetooth information of the device supporting bluetooth.
Protocol and Method	Protocol: HTTP/HTTPS Method: GET Path: /api/v1/mgmt/blueTooth/info
Input and Output Syntax	JSON
Access Level	Admin
Input	None

Output	Success Response:
	{
	  "data":{
	    "Enabled":"Yes",
	    "Version":"4.0",
	    "Devices":[
	      {
	        "Type":"Phone",
	        "Connected":"Yes",
	        "Name":"OnePlus 5T",
	        "Profile":"HFP",
	        "Signal Strength":"-200"
	      }
	    ]
	  },
	  "Status":"2000"
	}
	Failure Response:
	{
	  "Status": "5000"
	}

Applicable return codes	2000, 4400, 4403, 5000, 5500

Management.LineInfo Version 2

Description	This API provides details about the phone's line information.
Protocol and Method	Protocol: HTTP/HTTPS Method: GET Path: /api/v2/mgmt/lineInfo
Output Syntax	JSON
Access Level	Admin
Input	The following query parameters are accepted: line=<1> Example queries: <PHONE_IP>/api/v2/ mgmt/lineInfo?line=1

Output	Success Response:

```
{
  "data": [
    {
      "ID": "<LINE_NUMBER>",
      "Label": "<LABEL>",
      "Username": "<USERNAME>",
      "Assigned": "<True/False>",
      "RegistrationStatus": "<Registered/Unregistered>",
      "Type": "<Private/Shared>",
      "Active": "<True/False>",
      "DoNotDisturb": "<True/False>",
      "CallAppearances": [
        "<CALL_REFRENCE>",
        "<CALL_REFRENCE>",
        ...
      ],
      "CallServers": [
        {
          "ID": "<SERVER_INDEX>",
          "Address": "<SERVER_ADDRESS>",
          "RegistrationStatus": "<Registered/Unregistered>",
          "Port": "<SERVER_PORT>",
          "Expires": "<REGISTRATION_PERIOD>",
          "Transport": "<DNSnaptr/TcpPreferred/TcpOnly/UdpOnly/TLS/Invalid>"
          "Working": "<True/False>"
        }
      ],
      "ForwardingConfig": {
        "Always": "<CONTACT_NUMBER>",
        "DoNotDisturb": "<CONTACT_NUMBER>",
        "Busy": "<CONTACT_NUMBER>",
        "NoAnswer": "<CONTACT_NUMBER>"
      },
    }
```

```
],
"Status": "2000"
}

Failure Response:
{
    "Status": "<4xxx/5xxx>"
}
```

Applicable return codes	2000, 4400, 4403, 5000, 5500

WebCallControl.CallStatus Version 2

Description	This API provides information about all the calls present on phone.
Protocol, Method & Path	Protocol: HTTP/HTTPS Method: GET Path: /api/v2/webCallControl/callStatus
Output Syntax	JSON
Access Level	Admin
Input	The following query parameters are accepted: handle=<9577dd30> line=<1> sequence=<1> API accepts only: * handle or * line or * line and sequence Example queries: <PHONE_IP>/api/v2/webCallControl/callStatus <PHONE_IP>/api/v2/webCallControl/callStatus?handle=b5576ff8 <PHONE_IP>/api/v2webCallControl/callStatus?line=1 <PHONE_IP>/api/v2/webCallControl/callStatus?line=1&sequence=1

Output	{
	    "Status": "2000",
	    "data": [
	      {
	        "Remote Connection IP": "10.221.88.152",
	        "Media Direction": "sendrecv",
	        "CallHandle": "b5576ff8",
	        "Type": "Incoming",
	        "RemotePartyName": "Test 1171",
	        "RemotePartyNumber": "1171",
	        "CallState": "Connected",
	        "Protocol": "SIP",
	        "StartTime": "2017-08-24T12:07:49",
	        "DurationSeconds": "25",
	        "LineID": "1",
	        "CallSequence": "1",
	        "UIAppearanceIndex": "1*"
	        "Ringing": "0",
	        "Muted": "0",
	        "RTPPort": "2262",
	        "RTCPPort": "2263",
	      },
	      …
	      {
	        "CallHandle": "8901078",
	        "RemotePartyNumber": "",

```
            "Type": "Outgoing",
            "UIAppearanceIndex": "0",
            "CallState": "Connected",
            "Ringing": "0",
            "Muted": "0",
            "CallSequence": "1",
            "RemotePartyName": "",
            "RTCPPort": "2227",
            "Protocol": "PTT",
            "DurationInSeconds": "2",
            "RTPPort": "2226",
            "StartTime": "2017-08-24T11:56:33",
            "LineID": "0",
            "Channel": {
              "Mode": "Ptt",
              "Number": "1",
              "Label": "Channel",
              "State": "WAITING"
            }
          }
        ]
      }
```

Failed Response:
```
{
    "Status": "<4xxx/5xxx>"
}
```

Applicable return codes	2000, 4000, 4007, 4400, 4403, 5000, 5500
Notes	During an active call, a "*" will be appended to UIAppearanceIndex number. The following case is applicable for Paging/PTT calls: • Channel object will be present only if it's a Paging/PTT call.

Management.DeviceInfo Version 2

Description	This API provides general device information.
Protocol and Method	Protocol: HTTP/HTTPS Method: GET Path: /api/v2/mgmt/device/info
Input and Output Syntax	JSON
Access Level	Admin
Input	None

Output	Success Response:
	{
	  "data": {
	    "ModelNumber": "<PHONE_MODEL>",
	    "DeviceVendor": "Polycom",
	    "DeviceType": "HardwareEndpoint",
	    "MACAddress": "<MAC_ADDRESS>",
	    "Firmware": {
	      "Application": "<APPLICATION_VERSION>",
	      "Updater": "<UPDATER_VERSION>",
	      "BootBlock": "<BOOTBLOCK_VERSION>"
	    },
	    "IPAddress": "<PHONE_IP_ADDRESS>",
	    "IPStack": "IPv4 Only/IPv6 Only/(Dual IPv4/IPv6 stack)",
	    "PreferredNetwork": "<IPv4/IPv6>",
	    "IPv6Address": "<PHONE_IPV6_ADDRESS>",
	    "IPv6LinkAddress": "<LINK_LOCAL_IPV6_ADDRESS>",
	    "IPv6ULAAddress": "<UNIQUE_LOCAL_IPV6_ADDRESS>",
	    "UpTime": {
	      "Days": "<NUMBER>"
	      "Hours": "<NUMBER>",
	      "Minutes": "<NUMBER>",
	      "Seconds": "<NUMBER>",
	    },
	    "AttachedHardware": {
	      "Camera": "<True/False>"
	      "EM": [
	        "Type": "<Paper/LCD>"
	        "Version": "<EM_VERSION>"
	      ]
	    },
	    "CanApplyShutdownRequest": "<True/False>",
	    "IntendToShutdown": "<True/False>",
	    "AppState": "<PHONE_STATE>",
	    "ReadyToUse": "<True/False>"
	  },
	  "Status": "2000"
	}

Failure Response:
```
{
   "Status": "5000"
}
```

Applicable return codes	2000, 4400, 4403, 5000, 5500

Management.PC_Port_Info

Description	This API provides Phone's PC port information
Protocol and Method	Protocol: HTTP/HTTPS Method: GET Path: /api/v1/mgmt/pcPort/info
Input and Output Syntax	JSON
Access Level	Admin
Input	None

Output	Success Response:
	{
	   "data":{
	     "PCPortStatus":"Active",
	     "PCMacAddress":"54E1AD1F2ECD"
	     },
	     "Status": "2000"
	}
	
	Failure Response:
	{
	   "Status": "5000"
	}

Applicable return codes	2000, 4004, 4400, 4403, 5000, 5500

Management.WebSignIn

Description	This API allows the user to be signed in to Skype for Business via the web.
Protocol and Method	Protocol: HTTP/HTTPS Method: GET Path: /api/v1/mgmt/webSignIn
Input and Output Syntax	JSON
Access Level	Admin
Input	None

Output	Success Response:
	{
	   "data": {
	      "Url": "http://aka.ms/sphone",
	      "Code": "bpd9m42ul"
	      }
	},
	  "Status": "2000"
	}
	
	Failure Response:
	{
	   "Status": "5000"
	}

Applicable return codes	2000, 5000, 4400, 4403, 5000, 5500

Management.WebSignInCancel

Description	This API cancels a previous attempt to sign in a user to Skype for Business via the web.
Protocol and Method	Protocol: HTTP/HTTPS Method: GET Path: /api/v1/mgmt/webSignInCancel
Input and Output Syntax	JSON
Access Level	Admin
Input	None

Output	Success Response:
	{
	   "data": {
	      "result": "Canceled"
	      }
	},
	  "Status": "2000"
	}
	
	Failure Response:
	{
	   "Status": "5000"
	}

Applicable return codes	2000, 5000, 4400, 4403, 5000, 5500

Diagnostics

This section describes REST API error codes and logging information.

Error Codes

Error Code and Descriptions

Error Code	Number Code	Description
Success	2000	API executed successfully.
Failed	4000	Invalid input parameters.
	4001	Device busy.
	4002	Line not registered.
	4003	Operation not allowed.
	4004	Operation Not Supported
	4005	Line does not exist.
	4006	URLs not configured.
	4007	Call Does Not Exist
	4008	Configuration Export Failed
	4009	Input Size Limit Exceeded
	4010	Default Password Not Allowed
	4011	Contact not found
	4400	Bad Request
	4403	Forbidden
	5000	Failed to process request.
	5500	Internal Server Error

Logging

The following table provides examples of the type of logging available at each level.

Log Levels

Level	Description
0	Debug
1	Detailed events
2	Flow events
3	High-level flow events
4	Minor, recoverable events
5	Major, eventually fatal errors
6	Immediately fatal events