



# Poly UC Software 6.4.2

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

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# Before You Begin

The *REST API Reference Manual for Poly 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 Poly VVX phones, enabling users to execute certain functions and retrieve information.

This manual applies to the following Poly 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 Poly 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

## REST API Commands

This section describes the configuration parameters and API commands for Poly UC Software, version 6.4.2.

### *Configuration Options*

This section describes the configuration parameters and API commands for Poly UC Software, version 6.4.2.

## 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*

<b>Description</b>	This API executes a safeRestart on phone. safeRestart ensures that all calls on the phone are ended before initiating phone restart.
<b>Protocol, Method &amp; Path</b>	Protocol: HTTP/HTTPS Method: POST Path: /api/v1/mgmt/safeRestart
<b>Input / Output Format</b>	JSON
<b>Access Level</b>	Admin
<b>Input</b>	None
<b>Output</b>	Success Response: { "Status": "2000" }  Failure Response: { "Status": "5000" }
<b>Applicable return codes</b>	2000, 4400, 4403, 5000, 5500

## ***Management.Reboot***

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<b>Description</b>	This API executes a safeReboot on the phone. safeReboot ensures that all calls on the phone are ended before initiating phone reboot.
<b>Protocol, Method &amp; Path</b>	Protocol: HTTP/HTTPS Method: POST Path: /api/v1/mgmt/safeReboot
<b>Input and Output Syntax</b>	JSON
<b>Access Level</b>	Admin
<b>Input</b>	None
<b>Output</b>	Success Response: { "Status": "2000" } Failure Response: { "Status": "5000" }
<b>Applicable return codes</b>	2000, 4400, 4403, 5000, 5500

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## Management.ConfigReset

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<b>Description</b>	This API resets the configurations.
<b>Protocol, Method &amp; Path</b>	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
<b>Input and Output Syntax</b>	JSON
<b>Access Level</b>	Admin
<b>Input</b>	None
<b>Output</b>	Success Response: { "Status": "2000" }  Failure Response: { "Status": "5000" }
<b>Applicable return codes</b>	2000, 4400, 4403, 5000, 5500

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## ***Management.FactoryReset***

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<b>Description</b>	This API factory-resets the phone.
<b>Protocol, Method &amp; Path</b>	Protocol: HTTP/HTTPS Method: POST Path: /api/v1/mgmt/factoryReset
<b>Input and Output Syntax</b>	JSON
<b>Access Level</b>	Admin
<b>Input</b>	None
<b>Output</b>	Success Response: { "Status": "2000" }  Failure Response: { "Status": "5000" }
<b>Applicable return codes</b>	2000, 4400, 4403, 5000, 5500

---

## Management.NetworkInfo

<b>Description</b>	This API provides details about the phone's network information.
<b>Protocol, Method &amp; Path</b>	Protocol: HTTP/HTTPS Method: GET Path: /api/v1/mgmt/network/info
<b>Input and Output Syntax</b>	JSON
<b>Access Level</b>	Admin
<b>Input</b>	None
<b>Output</b>	Success Response: <pre>{   "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"     }   } }, }</pre>



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Failure Response:

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

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<b>Applicable return codes</b>	2000, 4400, 4403, 5000, 5500
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# Management.DeviceInfo

<b>Description</b>	This API provides details about the phone's information.
<b>Protocol and Method</b>	Protocol: HTTP/HTTPS Method: GET Path: /api/v1/mgmt/device/info
<b>Input and Output Syntax</b>	JSON
<b>Access Level</b>	Admin
<b>Input</b>	None
<b>Output</b>	Success Response: <pre>{   "Status": "2000",   "data":   {     "ModelNumber ": "&lt;MODEL_NUMBER&gt;",     "FirmwareRelease": "&lt;FIRMWARE_RELEASE&gt;",     "DeviceType": "HardwareEndPoint",     "DeviceVendor": "Polycom",     "UpTimeSinceLastReboot": "&lt;DAYS_HOURS_MINUTES_SECONDS&gt;",     "IPV4Address": "&lt;IP_ADDRESS&gt;",     "IPV6Address": "&lt;IP_ADDRESS&gt;",     "MACAddress": "&lt;MAC_ADDRESS&gt;",     "AttachedHardware": [       "Camera": "&lt;true/false&gt;",       "EM": [         {           "type": "&lt;paper/LCD&gt;",           "version": "&lt;VERSION&gt;",           ...         }       ]     ]   } }</pre> Failure Response: <pre>{   "Status": "5000" }</pre>
<b>Applicable return codes</b>	2000, 4400, 4403, 5000, 5500

## Management.NetworkStatistics

<b>Description</b>	This API provides the phone's network statistics information.
<b>Protocol and Method</b>	Protocol: HTTP/HTTPS Method: GET Path: /api/v1/mgmt/network/stats
<b>Input and Output Syntax</b>	JSON
<b>Access Level</b>	Admin
<b>Input</b>	None
<b>Output</b>	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" }
<b>Applicable return codes</b>	2000, 4400, 4403, 5000, 5500

# Management.SetConfig

---

<b>Description</b>	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.
<b>Protocol and Method</b>	Protocol: HTTP/HTTPS Method: POST Path: /api/v1/mgmt/config/set
<b>Input and Output Syntax</b>	JSON
<b>Access Level</b>	Admin
<b>Input</b>	<pre>{   "data":   {     "&lt;CONFIG_PARAM_NAME&gt;": "&lt;CONFIG_PARAM_VALUE&gt;",     "&lt;CONFIG_PARAM_NAME&gt;": "&lt;CONFIG_PARAM_VALUE&gt;",     ...     ...   } }</pre> <p>At least one parameter has to be provided.</p>
<b>Output</b>	Success Response: <pre>{   "Status": "2000" }</pre> <p>Failure Response: <pre>{   "Status": "&lt;4xxx/5xxx&gt;" }</pre></p>
<b>Applicable return codes</b>	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

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# Management.GetConfig

<b>Description</b>	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.
<b>Protocol and Method</b>	Protocol: HTTP/HTTPS Method: POST Path: /api/v1/mgmt/config/get
<b>Input and Output Syntax</b>	JSON
<b>Access Level</b>	Admin
<b>Input</b>	<pre>{   "data":   [     "&lt;CONFIG_PARAM_NAME_1&gt;",     "&lt;CONFIG_PARAM_NAME_2&gt;",     ...     ...   ] }</pre> <p>At least one parameter has to be provided.</p>
<b>Output</b>	<p>Success Response:</p> <pre>{   "Status": "2000",   "data":   {     "&lt;CONFIG_PARAM_NAME_1&gt;":     {       "value": "&lt;VALUE&gt;",       "source": "&lt;LOCAL/WEB/CONFIG/DEFAULT&gt;"     },     "&lt;CONFIG_PARAM_NAME_2&gt;":     {       "value": "&lt;VALUE&gt;",       "source": "&lt;LOCAL/WEB/CONFIG/DEFAULT/DEVICE&gt;"     }     ...     ...   } }</pre> <p>Failure Response:</p> <pre>{   "Status": "5000" }</pre>
<b>Applicable return codes</b>	2000, 4000, 4009, 4400, 4403, 5000, 5500 4009 → Parameter count exceeded limit of 20 parameters

# WebCallControl.Dial

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<b>Description</b>	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.
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<b>Protocol and Method</b>	Protocol: HTTP/HTTPS Method: POST Path: /api/v1/callctrl/dial
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<b>Input and Output Syntax</b>	JSON
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<b>Access Level</b>	Admin
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<b>Input</b>	<pre>{   "data":   {     "Dest": "&lt;NUMBER/SIP_URI&gt;",     "Line": "&lt;LINE_NUMBER&gt;",     "Type": "&lt;SIP/TEL/H323&gt;"   } }</pre> <p>Dest – Mandatory Parameter Line – Optional. Line 1 is default line used. Type – Optional. Default type is TEL</p>
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<b>Output</b>	Success Response: <pre>{   "Status": "2000" }</pre> <p>Failure Response: <pre>{   "Status": "&lt;4xxx/5xxx&gt;" }</pre></p>
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<b>Applicable return codes</b>	2000, 4000, 4002, 4400, 4403, 5000, 5500 4002 → If a line is not registered.
--------------------------------	---

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<b>Notes</b>	<p>The format is as indicated below where two parameters are required. The test@poly.com is the SIPURI of the person that sent the invite. Item in blue is the Skype meeting ID.</p> <pre>{   "data":   {     "Dest": "test@poly.com;gruu;opaque=app:conf:focus:id:ZTMVDGBH",     "Line": "1"     "Type": "SIP"   } }</pre>
--------------	---

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# WebCallControl.EndCall

---

<b>Description</b>	This API ends an active call.
<b>Protocol and Method</b>	Protocol: HTTP/HTTPS Method: POST Path: /api/v1/callctrl/endCall
<b>Input and Output Syntax</b>	JSON
<b>Access Level</b>	Admin
<b>Input</b>	<pre>{   "data":   {     "Ref": "&lt;CALL_REFERENCE&gt;"   } }</pre> <p>Ref is a mandatory parameter.</p>
<b>Output</b>	Success Response: <pre>{   "Status": "2000" }</pre> <p>Failure Response: <pre>{   "Status": "&lt;4xxx/5xxx&gt;" }</pre></p>
<b>Applicable return codes</b>	2000, 4000, 4003, 4007, 4400, 4403, 5000, 5500 4003 → Operation not allowed. 4007 → When call does not exist.
<b>Notes</b>	Beginning in UCS 6.4.2 software this API ends a call that is on hold.  <CALL_REFERENCE> is either the call handle returned in the output data of the /api/v1/webCallControl/callStatus or /api/v2/webCallControl/callStatus command, or it may be a SIP call-ID

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# WebCallControl.MuteCall

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<b>Description</b>	This API enables a user to mute the phone, if applicable.
<b>Protocol and Method</b>	Protocol: HTTP/HTTPS Method: POST Path: /api/v1/callctrl/mute
<b>Input and Output Syntax</b>	JSON
<b>Access Level</b>	Admin
<b>Input</b>	<pre>{   "data":   {     "state": "&lt;0/1&gt;"   } }</pre> <p>State is a mandatory parameter.</p>
<b>Output</b>	Success Response: <pre>{   "Status": "2000" }</pre> <p>Failure Response: <pre>{   "Status": "&lt;4xxx/5xxx&gt;" }</pre></p>
<b>Applicable return codes</b>	2000, 4000, 4003, 4007, 4400, 4403, 5000, 5500 4003 → Operation not allowed. An example case is when trying to change the mute state of a call on hold or when an API request is received that doesn't result in a change in mute state. 4007 → When a call does not exist

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# WebCallControl.TransferCall

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<b>Description</b>	This API enables a user to transfer a call. In addition, this API always executes a blind transfer.
<b>Protocol and Method</b>	Protocol: HTTP/HTTPS Method: POST Path: /api/v1/callctrl/transferCall
<b>Input and Output Syntax</b>	JSON
<b>Access Level</b>	Admin
<b>Input</b>	<pre>{   "data":   {     "Ref": "&lt;CALL_REFERENCE&gt;",     "TransferDest": "&lt;NUMBER&gt;"   } }</pre> <p>Ref is mandatory parameter. TransferDest is mandatory parameter.</p>
<b>Output</b>	Success Response: <pre>{   "Status": "2000" }</pre> <p>Failure Response: <pre>{   "Status": "&lt;4xxx/5xxx&gt;" }</pre></p>
<b>Applicable return codes</b>	2000, 4000, 4007, 4400, 4403, 5000, 5500 4007 → When call does not exist.
<b>Notes</b>	<CALL_REFERENCE> is either the call handle returned in the output data of the /api/v1/webCallControl/callStatus or /api/v2/webCallControl/callStatus command, or it may be a SIP call-ID.

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## **WebCallControl.WarmTransfer**

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<b>Description</b>	This API is proprietary for use when phone is configured for remote call control for Zoom Client. It is described here for completeness but it isn't supported when accessed over HTTP/HTTPS
<b>Protocol and Method</b>	Protocol: HTTP/HTTPS Method: POST Path: /api/v1/callctrl/warmTransfer
<b>Input and Output Syntax</b>	JSON
<b>Access Level</b>	Admin
<b>Input</b>	Not applicable
<b>Output</b>	Success Response: { "Status": "2000" }  Failure Response: { "Status": "<4xxx/5xxx>" }
<b>Applicable return codes</b>	2000, 4000, 4007, 4400, 4403, 5000, 5500 4007 → When call does not exist.

---

## WebCallControl.SendDTMF

<b>Description</b>	This API enables a user to send DTMF tones during an active call.
<b>Protocol and Method</b>	Protocol: HTTP/HTTPS Method: POST Path: /api/v1/callctrl/sendDTMF
<b>Input and Output Syntax</b>	JSON
<b>Access Level</b>	Admin
<b>Input</b>	<pre>{   "data":   {     "Digits": "&lt;DIGITS&gt;"   } }</pre> <p>Digits: mandatory parameter.</p>
<b>Output</b>	Success Response: <pre>{   "Status": "2000" }</pre> <p>Failure Response: <pre>{   "Status": "&lt;4xxx/5xxx&gt;" }</pre></p>
<b>Applicable return codes</b>	2000, 4000, 4007, 4400, 4403, 5000, 5500 4007 → When call does not exist.
<b>Notes</b>	Speed of request execution is greatly improved when the phone receives a consecutive series of SendDTMF API requests that each include just a single digit in the Digits input element.

## WebCallControl.CallLogs

<b>Description</b>	This API provides the phone's call logs.
<b>Protocol and Method</b>	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

<b>Input and Output Syntax</b>	JSON
<b>Access Level</b>	Admin
<b>Input</b>	None
<b>Output</b>	<p>Success Response for Path: /api/v1/callctrl/callLogs</p> <pre> {   "Status": "2000",   "data":   {     "missed": [       {         "LineNumber": "&lt;LINE NUMBER&gt;",         "StartTime": "&lt;START_TIME&gt;",         "RemotePartyName": "&lt;REMOTE_PARTY_NAME&gt;",         "RemotePartyNumber": &lt;REMOTE_PARTY_NUMBER&gt;,         "Duration": "&lt;DURATION&gt;"       },       {         "LineNumber": "&lt;LINE NUMBER&gt;",         "StartTime": "&lt;START_TIME&gt;",         "RemotePartyName": "&lt;REMOTE_PARTY_NAME&gt;",         "RemotePartyNumber": &lt;REMOTE_PARTY_NUMBER&gt;,         "Duration": "&lt;DURATION&gt;"       },       ...       ...       ...     ],     "received": [       {         "LineNumber": "&lt;LINE NUMBER&gt;",         "StartTime": "&lt;START_TIME&gt;",         "RemotePartyName": "&lt;REMOTE_PARTY_NAME&gt;",         "RemotePartyNumber": &lt;REMOTE_PARTY_NUMBER&gt;,         "Duration": "&lt;DURATION&gt;"       },       {         "LineNumber": "&lt;LINE NUMBER&gt;", </pre>

---

```

    "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

<b>Description</b>	This API provides the phone's presence and is supported only for Skype for Business.	
<b>Protocol, Method &amp; Path</b>	Protocol: HTTP/HTTPS Method: GET Path /api/v1/mgmt/getPresence	
<b>Input and Output Syntax</b>	JSON	
<b>Access Level</b>	Admin	
<b>Input</b>	None	
<b>Output</b>	Success Response: { "Status": "2000" "Presence": "<Presence State>" }	Failure Response: { "Status": "<4xxx/5xxx>" }
<b>Applicable return codes</b>	2000, 4004, 4400, 4403, 5000, 5500 4004 → This is supported on any other call servers.	

# WebCallControl.SipStatus

---

<b>Description</b>	This API provides the phone's SIP level details for the user.
<b>Protocol, Method &amp; Path</b>	Protocol: HTTP/HTTPS Method: GET Path: /api/v1/webCallControl/sipStatus
<b>Input and Output Syntax</b>	JSON
<b>Access Level</b>	Admin
<b>Input</b>	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"  
}
```

---

<b>Applicable return codes</b>	2000, 4400, 4403, 5000, 5500
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---

<b>Notes</b>	The sipStatus of the last call is valid for approximately 40 seconds after the call ends.
--------------	---

---



# WebCallControl.HoldCall

---

<b>Description</b>	This API allows the user to hold an active call.
<b>Protocol and Method</b>	Protocol: HTTP/HTTPS Method: POST Path: /api/v1/callctrl/holdCall
<b>Input and Output Syntax</b>	JSON
<b>Access Level</b>	Admin
<b>Input</b>	<pre>{   "data":   {     "Ref": "&lt;CALL_REFERENCE&gt;"   } }</pre>
<b>Output</b>	Success Response: <pre>{   "Status": "2000" }</pre> Failure Response: <pre>{   "Status": "&lt;4xxx/5xxx&gt;" }</pre>
<b>Applicable return codes</b>	2000, 4003, 4007, 4400, 4403, 5000, 5500
<b>Notes</b>	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

<b>Description</b>	This API resumes the call which was previously on hold.
<b>Protocol and Method</b>	Protocol: HTTP/HTTPS Method: POST Path: /api/v1/callctrl/resumeCall
<b>Input and Output Syntax</b>	JSON
<b>Access Level</b>	Admin
<b>Input</b>	<pre>{   "data":   {     "Ref": "&lt;CALL_REFERENCE&gt;"   } }</pre> <p>Ref is a mandatory parameter</p>
<b>Output</b>	Success Response: <pre>{   "Status": "2000" }</pre> <p>Failure Response: <pre>{    "Status": "&lt;4xxx/5xxx&gt;" }</pre></p>
<b>Applicable return codes</b>	2000, 4003, 4007, 4400, 4403, 5000, 5500
<b>Notes</b>	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

<b>Description</b>	This API answers an incoming call.
<b>Protocol and Method</b>	Protocol: HTTP/HTTPS Method: POST Path: /api/v1/callctrl/answerCall
<b>Input and Output Syntax</b>	JSON
<b>Access Level</b>	Admin
<b>Input</b>	<pre>{   "data":   {     "Ref": "&lt;CALL_REFERENCE&gt;"   } }</pre>
<b>Output</b>	Success Response: <pre>{   "Status": "2000" }</pre> Failure Response: <pre>{   "Status": "&lt;4xxx/5xxx&gt;" }</pre>
<b>Applicable return codes</b>	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.
<b>Notes</b>	Input is optional. The incoming call represented by "Ref" will be answered only if it's an active call.

# WebCallControl.IgnoreCall

<b>Description</b>	This API allows the user to ignore an incoming call.
<b>Protocol and Method</b>	Protocol: HTTP/HTTPS Method: POST Path: /api/v1/callctrl/ignoreCall
<b>Input and Output Syntax</b>	JSON
<b>Access Level</b>	Admin
<b>Input</b>	<pre>{   "data":   {     "Ref": "&lt;CALL_REFERENCE&gt;"   } }</pre>
<b>Output</b>	Success Response: <pre>{   "Status": "2000" }</pre> Failure Response: <pre>{   "Status": "&lt;4xxx/5xxx&gt;" }</pre>
<b>Applicable return codes</b>	2000, 4003, 4007, 4400, 4403, 5000, 5500
<b>Notes</b>	Input is optional. The call represented by "Ref" will be ignored only if it's an active call.

# WebCallControl.RejectCall

---

<b>Description</b>	This API allows the user to reject an incoming call.
<b>Protocol and Method</b>	Protocol: HTTP/HTTPS Method: POST Path: /api/v1/callctrl/rejectCall
<b>Input and Output Syntax</b>	JSON
<b>Access Level</b>	Admin
<b>Input</b>	<pre>{   "data":   {     "Ref": "&lt;CALL_REFERENCE&gt;"   } }</pre>
<b>Output</b>	Success Response: <pre>{   "Status": "2000" }</pre> Failed Response: <pre>{   "Status": "&lt;4xxx/5xxx&gt;" }</pre>
<b>Applicable return codes</b>	2000, 4003, 4007, 4400, 4403, 5000, 5500
<b>Notes</b>	Input is optional. The call represented by "Ref" will be rejected only if it's the active call.

---



## Management.GetTransferType

---

<b>Description</b>	This API returns the current transfer type set on the phone.
<b>Protocol, Method &amp; Path</b>	Protocol: HTTP/HTTPS Method: GET Path: /api/v1/mgmt/transferType/get
<b>Output Syntax</b>	JSON
<b>Access Level</b>	Admin
<b>Input</b>	None
<b>Output</b>	Success Response: { "data": { "Type": "<Consultative/Blind/Safe/Unknown>" }, "Status": "2000" }  Failure Response: { "Status": "5000" }
<b>Applicable return codes</b>	2000, 4400, 4403, 5000, 5500

---

## Management.SetTransferType

---

<b>Description</b>	This API sets the transfer type on the phone.
<b>Protocol, Method &amp; Path</b>	Protocol: HTTP/HTTPS Method: POST Path: /api/v1/mgmt/transferType/set
<b>Output Syntax</b>	JSON
<b>Access Level</b>	Admin
<b>Input</b>	<pre>{   "data": {     "Type": "&lt;Consultative/Blind/Safe&gt;"   } }</pre>
<b>Output</b>	Success Response: <pre>{   "Status": "2000" }</pre> Failure Response: <pre>{   "Status": "&lt;4xxx/5xxx&gt;" }</pre>
<b>Applicable return codes</b>	2000, 4000, 4400, 4403, 5000, 5500

---



## Management.Uixml

---

<b>Description</b>	This API provides an XML representation of phone's user interface.
<b>Protocol, Method &amp; Path</b>	Protocol: HTTP/HTTPS Method: GET Path: /api/v1/mgmt/uixml
<b>Output Syntax</b>	JSON
<b>Access Level</b>	Admin
<b>Input</b>	None
<b>Output</b>	Success Response: { "data": "<XML_DATA>", "Status": "2000" }  Failure Response: { "Status": "5000" }
<b>Applicable return codes</b>	2000, 4400, 4403, 5000, 5500
<b>Notes</b>	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

---

<b>Description</b>	This API provides details about phone's CPU and memory usage.
<b>Protocol, Method &amp; Path</b>	Protocol: HTTP/HTTPS Method: GET Path: /api/v1/mgmt/device/stats
<b>Output Syntax</b>	JSON
<b>Access Level</b>	Admin
<b>Input</b>	None
<b>Output</b>	Success Response: <pre>{   "data": {     "Memory": {       "Used": ""&lt;SIZE_IN_BYTES&gt;",       "Free": ""&lt;SIZE_IN_BYTES&gt;",       "polyapp": {         "uordblks": ""&lt;SIZE_IN_BYTES&gt;",         "hblkhd": ""&lt;SIZE_IN_BYTES&gt;",         "arena": ""&lt;SIZE_IN_BYTES&gt;",         "fordblks": ""&lt;SIZE_IN_BYTES&gt;"       },       "Total": ""&lt;SIZE_IN_BYTES&gt;",       "em": {         "uordblks": ""&lt;SIZE_IN_BYTES&gt;",         "hblkhd": ""&lt;SIZE_IN_BYTES&gt;",         "arena": ""&lt;SIZE_IN_BYTES&gt;",         "fordblks": ""&lt;SIZE_IN_BYTES&gt;"       },       "ComAS": ""&lt;SIZE_IN_BYTES&gt;",       "Cached": ""&lt;SIZE_IN_BYTES&gt;",       "SReclaim": ""&lt;SIZE_IN_BYTES&gt;",       "brow": {         "uordblks": ""&lt;SIZE_IN_BYTES&gt;",         "hblkhd": ""&lt;SIZE_IN_BYTES&gt;",         "arena": ""&lt;SIZE_IN_BYTES&gt;",         "fordblks": ""&lt;SIZE_IN_BYTES&gt;"       },       "pgui": {         "uordblks": ""&lt;SIZE_IN_BYTES&gt;",         "hblkhd": ""&lt;SIZE_IN_BYTES&gt;",         "arena": ""&lt;SIZE_IN_BYTES&gt;",         "fordblks": ""&lt;SIZE_IN_BYTES&gt;"       },       "osd": {         "uordblks": ""&lt;SIZE_IN_BYTES&gt;",         "hblkhd": ""&lt;SIZE_IN_BYTES&gt;",         "arena": ""&lt;SIZE_IN_BYTES&gt;",         "fordblks": ""&lt;SIZE_IN_BYTES&gt;"       },     },   }, }</pre>

---

```

    "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"
}

```

---

<b>Applicable return codes</b>	2000, 4400, 4403, 5000, 5500
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---

## Management.RunningConfig

<b>Description</b>	This API provides information about running configuration on phone.
<b>Protocol, Method &amp; Path</b>	Protocol: HTTP/HTTPS Method: GET Path: /api/v1/mgmt/device/runningConfig
<b>Output Syntax</b>	JSON
<b>Access Level</b>	Admin
<b>Input</b>	None
<b>Output</b>	Success Response: <pre>{   "data": {     "Network": {       "IPAddress": "&lt;PHONE_IP_ADDRESS&gt;",       "SubnetMask": "&lt;SUBNET_MASK&gt;",       "IPGateway": "&lt;IP_GATEWAY&gt;",       "IPStack": "IPv4 Only/IPv6 Only/(Dual IPv4/IPv6 stack)",       "IPv6Address": "&lt;PHONE_IPV6_ADDRESS&gt;",       "IPv6Gateway": "&lt;IPV6_GATEWAY&gt;",       "IPv6AddressDiscovery": "&lt;DHCP/Static/SLAAC&gt;",       "IPv6LinkAddress": "&lt;LINK_LOCAL_IPV6_ADDRESS&gt;",       "IPv6ULAAAddress": "&lt;UNIQUE_LOCAL_IPV6_ADDRESS&gt;",       "PreferredNetwork": "&lt;IPv4/IPv6&gt;",       "VLAN": "&lt;VLAN_IDENTIFIER&gt;",       "VLANFiltering": "&lt;Enabled/Disabled&gt;",       "CDP": "&lt;Enabled/Disabled&gt;",       "LLDP": "&lt;Enabled/Disabled&gt;",       "StormFilterPPS": "&lt;STORM_FILTER_PPS_VALUE&gt;",       "StormFiltering": "&lt;Enabled/Disabled&gt;",     },     "DHCP": {       "Feature": "&lt;Enabled/Disabled&gt;",       "Option60Format": "&lt;RFC3925 Binary/ASCII String&gt;",       "BootServerOptionType": "&lt;IP/String&gt;",       "BootServerUseOption": "&lt;BOOT_SERVER_USE_OPTION&gt;",       "BootServerOption": "&lt;BOOT_SERVER_OPTION_NUMBER&gt;",       "OfferTimeout": "&lt;DHCP_OFFER_TIMEOUT&gt;",       "VLANDiscovery": "&lt;Disabled/Default/Custom&gt;",       "VLANDiscoveryOption": "&lt;DHCP_OPTION_FOR_VLAN_DISC&gt;",     },     "DNS": {       "Feature": "&lt;Enabled/Disabled&gt;",       "PrimaryServer": "&lt;PRIMARY_DNS_SERVER&gt;",       "SecondaryServer": "&lt;SECONDARY_DNS_SERVER&gt;",       "Domain": "&lt;DNS_DOMAIN&gt;"     },     "Provisioning": {</pre>

```

"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"
}

```

---

<b>Applicable return codes</b>	2000, 4400, 4403, 5000, 5500
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# Management.SimulateTouch

<b>Description</b>	This API simulates touch events on phone.
<b>Protocol, Method &amp; Path</b>	Protocol: HTTP/HTTPS Method: POST Path: /api/v1/mgmt/simulateTouch
<b>Input and Output Syntax</b>	JSON
<b>Access Level</b>	Admin
<b>Input</b>	<pre>{   "data": {     "Type": "&lt;Tap/Press/Release/Swipe&gt;",     "Positions": [       {         "X": "&lt;X_CO-ORDINATE&gt;",         "Y": "&lt;Y_CO-ORDINATE&gt;"       }     ],     "Duration": "&lt;DURATION_IN_MILLISECONDS&gt;",     "Easing": "&lt;0-40&gt;"   } }</pre>
<b>Output</b>	Success Response: <pre>{   "Status": "2000" }</pre> Failure Response: <pre>{   "Status": "&lt;4xxx/5xxx&gt;" }</pre>
<b>Applicable return codes</b>	2000, 4000, 4009, 4400, 4403, 5000, 5500
<b>Notes</b>	<ul style="list-style-type: none"><li>• For "Tap/Press/Release" events, only one position object is accepted.</li><li>• For "Swipe" event, a minimum of two and a maximum of five events are accepted.</li><li>• "Duration" is the time in milliseconds over which the event is simulated. This is an optional parameter.</li><li>• "Easing" represents the type of easing curve applied for the simulation. This is an optional parameter. Please refer to <a href="http://doc.qt.io/qt-4.8/qeasingcurve.html#Type-enum">http://doc.qt.io/qt-4.8/qeasingcurve.html#Type-enum</a> for more information on the accepted values.</li><li>• This API will not work if the position provided is outside the screen boundary.</li><li>• 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.</li></ul>

## Management.SkypeSignIn

<b>Description</b>	This API allows user to sign in to Skype for Business on phone.
<b>Protocol and Method</b>	Protocol: HTTP/HTTPS Method: POST Path: /api/v1/mgmt/skype/signIn
<b>Input and Output Syntax</b>	JSON
<b>Access Level</b>	Admin
<b>Input</b>	<pre>{   "data": {     "Address": "&lt;SIGN_IN_ADDRESS&gt;",     "User": "&lt;USERNAME&gt;",     "Password": "&lt;PASSWORD&gt;",     "Domain": "&lt;DOMAIN&gt;",     "LockCode": "&lt;LOCK_CODE&gt;"   } }</pre>
<b>Output</b>	Success Response: <pre>{   "Status": "2000" }</pre> Failure Response: <pre>{   "Status": "&lt;4xxx/5xxx&gt;" }</pre>
<b>Applicable return codes</b>	2000, 4000, 4002, 4003, 4004, 4400, 4403, 5000, 5500
<b>Notes</b>	<ul style="list-style-type: none"><li>• Response will be returned only after the sign in operation succeeds or fails or times out (150 seconds).</li><li>• For accounts where domain is optional, empty string must be passed as value for "Domain".</li><li>• "LockCode" is an optional parameter.</li></ul>

## Management.SkypeSignOut

---

<b>Description</b>	This API allows user to sign out of Skype for Business on phone
<b>Protocol and Method</b>	Protocol: HTTP/HTTPS Method: POST Path: /api/v1/mgmt/skype/signOut
<b>Input and Output Syntax</b>	JSON
<b>Access Level</b>	Admin
<b>Input</b>	None
<b>Output</b>	Success Response: { "Status": "2000" }  Failure Response: { "Status": "<4xxx/5xxx>" }
<b>Applicable return codes</b>	2000, 4003, 4004, 4400, 4403, 5000, 5500

---



# Management.CommunicationInfo

<b>Description</b>	This API provides information about any ongoing communication on phone.
<b>Protocol and Method</b>	Protocol: HTTP/HTTPS Method: GET Path: /api/v1/mgmt/media/communicationInfo
<b>Input and Output Syntax</b>	JSON
<b>Access Level</b>	Admin
<b>Input</b>	None
<b>Output</b>	Success Response: <pre>{   "data": {     "CommunicationType": [       "&lt;RxOnly/TxOnly/RxTx/None/Idle&gt;",       "&lt;RxOnly/TxOnly/RxTx/None/Idle&gt;"     ],     "FarEndMuteState": [       "&lt;CONFERENCE_LEG_PHONE_NUMBER&gt;",       ...     ],     "PhoneMuteState": "&lt;True/False&gt;"   },   "Status": "2000" }</pre> Failure Response: <pre>{   "Status": "5000" }</pre>
<b>Applicable return codes</b>	2000, 4400, 4403, 5000, 5500
<b>Notes</b>	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

---

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

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<b>Applicable return codes</b>	2000, 4400, 4403, 5000, 5500
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## Management.ExportConfiguration

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<b>Description</b>	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.
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<b>Protocol and Method</b>	Protocol: HTTP/HTTPS Method: POST Path: /api/v1/mgmt/config/export
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<b>Input and Output Syntax</b>	JSON
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<b>Access Level</b>	Admin
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<b>Input</b>	<pre>{   "data":   {     "Url": "&lt;Absolute URL&gt;"     "ConfigType": "&lt;ConfigFiles Local Web Device All&gt;"   } }</pre> <p>URL: Mandatory parameter ConfigType: Mandatory parameter</p>
--------------	---

---

<b>Output</b>	<p>Response:</p> <pre>{   "Status": "2000", }</pre> <p>Failed Response:</p> <pre>{   "Status": "&lt;4xxx/5xxx&gt;" }</pre> <p>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".</p>
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<b>Applicable return codes</b>	2000, 4400, 4403, 5000, 5500
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# Management.SessionStats

<b>Description</b>	This API provides statistics of active media sessions on phone.
<b>Protocol and Method</b>	Protocol: HTTP/HTTPS Method: GET Path: /api/v1/mgmt/media/sessionStats
<b>Input and Output Syntax</b>	JSON
<b>Access Level</b>	Admin
<b>Input</b>	None
<b>Output</b>	<p>Success Response:</p> <pre> {   "data": [     {       "Ref": "&lt;SESSION_REFERENCE&gt;",       "SRTPCall": "&lt;True/False&gt;",       "H235Call": "&lt;True/False&gt;",       "H235DHKey": "&lt;H235_SHARED_SECRET_KEY&gt;"       "Streams": [         {           "Ref": "&lt;AUDIO_STREAM_REFERENCE&gt;",           "Category": "0:Voice",           "PacketsReceived": "&lt;RECEIVED_PACKETS&gt;",           "PacketsSent": "&lt;SENT_PACKETS&gt;",           "OctetsReceived": "&lt;RECEIVED_OCTETS&gt;",           "OctetsSent": "&lt;SENT_OCTETS&gt;",           "PacketsExpected": "&lt;EXPECTED_PACKETS&gt;",           "PacketsLost": "&lt;LOST_RX_PACKETS&gt;",           "Jitter": "&lt;RX_JITTER&gt;",           "MaxJitter": "&lt;MAX_JITTER&gt;",           "Latency": "&lt;LATENCY&gt;",           "RxBayloadSize": "&lt;RX_PAYLOAD_SIZE&gt;",           "TxPayloadSize": "&lt;TX_PAYLOAD_SIZE&gt;",           "RxCCodec": "&lt;RX_CODEC&gt;",           "TxCodec": "&lt;TX_CODEC&gt;",           "RxMOSQ":             "&lt;REMOTE_CONVERSATIONAL_QUALITY_MOS_SCORE&gt;",           "TxMOSQ": "&lt;LOCAL_CONVERSATIONAL_QUALITY_MOS_SCORE&gt;",           "RxMOSLQ": "&lt;REMOTE_LISTENING_QUALITY_MOS_SCORE&gt;"           "TxMOSLQ": "&lt;LOCAL_LISTENING_QUALITY_MOS_SCORE&gt;",         },         {           "Ref": "&lt;VIDEO_STREAM_REFERENCE&gt;",           "Category": "1:Video",           "PacketsReceived": "&lt;RECEIVED_PACKETS&gt;",           "PacketsSent": "&lt;SENT_PACKETS&gt;",         }       ]     }   ] } </pre>

```

    "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"
}

```

---

<b>Applicable return codes</b>	2000, 4400, 4403, 5000, 5500
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# Management.CallStatus

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<b>Description</b>	This API provides all the information of calls on the phone.
<b>Protocol and Method</b>	Protocol: HTTP/HTTPS Method: GET Path: /api/v1/webCallControl/callStatus
<b>Input and Output Syntax</b>	JSON
<b>Access Level</b>	Admin
<b>Input</b>	None
<b>Output</b>	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>" }
<b>Applicable return codes</b>	2000, 4007, 4400, 4403, 5000, 5500

---

# Management.LineInfo

---

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

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<b>Applicable return codes</b>	2000, 4400, 4403, 5000, 5500
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## Management.UpdateConfiguration

<b>Description</b>	This API allows the user to sync phone's configuration with the provisioning server.	
<b>Protocol and Method</b>	Protocol: HTTP/HTTPS Method: POST Path: /api/v1/mgmt/updateConfiguration	
<b>Input and Output Syntax</b>	JSON	
<b>Access Level</b>	Admin	
<b>Input</b>	None	
<b>Output</b>	Success Response: { "Status": "2000", "data": { "ProvisioningState": "<Provisioning status code>" } }	Failure Response: { "Status": "<4xxx/5xxx>" }
<b>Applicable return codes</b>	2000, 4001, 4400, 4403, 5000, 5500	

## Management.SimulateTextInput

<b>Description</b>	This API allows the user to input text into text fields in phone UI.
<b>Protocol and Method</b>	Protocol: HTTP/HTTPS Method: POST Path:/api/v1/mgmt/simulateTextInput
<b>Input and Output Syntax</b>	JSON
<b>Access Level</b>	Admin
<b>Input</b>	<pre>{   "data":   {     "Value": "&lt;Input text &gt;",     "ReplaceText": "&lt;true/false&gt;"   } }</pre> <p>ReplaceText is optional. If set to true, it replaces any existing text in phone UI's text field with the value provided.</p>
<b>Output</b>	Success Response: <pre>{   "Status": "2000", }</pre> <p>Failure Response: <pre>{   "Status": "&lt;4xxx/5xxx&gt;" }</pre></p>
<b>Applicable return Codes</b>	2000, 4000, 4400, 4403, 5000, 5500

# Management.SimulateKeyEvent

---

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

---

- 
- VoIDown
  - VoIUp
  - Menu
  - Redial
  - Applications
- 

**Output**

Success Response:  
{  
  "Status": "2000",  
}

Failure Response:  
{  
  "Status": "4000"  
}

---

**Applicable return codes**

2000, 4000, 4400, 4403, 5000, 5500

---

## Management.SimulateHook

---

<b>Description</b>	This API allows the user to simulate off/on hook on phone.
<b>Protocol and Method</b>	Protocol: HTTP/HTTPS Method: POST Path:/api/v1/mgmt/simulateHook
<b>Input and Output Syntax</b>	JSON
<b>Access Level</b>	Admin
<b>Input</b>	<pre>{   "data":   {     "Type": "&lt;Up/Down &gt;"   } }</pre> <p>Type is a mandatory parameter.</p>
<b>Output</b>	Success Response: <pre>{   "Status": "2000" }</pre> <p>Failure Response: <pre>{   "Status": "4000" }</pre></p>
<b>Applicable return codes</b>	2000, 4000, 4400, 4403, 5000, 5500

---

## Management.LedStatus

<b>Description</b>	This API provides LED status of the device.
<b>Protocol and Method</b>	Protocol: HTTP/HTTPS Method: GET Path: /api/v1/mgmt/ledStatus
<b>Input and Output Syntax</b>	JSON
<b>Access Level</b>	Admin
<b>Input</b>	None
<b>Output</b>	Success Response: <pre>{   "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" }</pre> Failure Response: <pre>{   "Status": "5000" }</pre>
<b>Applicable return codes</b>	2000, 4400, 4403, 5000, 5500

## Management.BluetoothInfo

<b>Description</b>	This API provides Bluetooth information of the device supporting bluetooth.
<b>Protocol and Method</b>	Protocol: HTTP/HTTPS Method: GET Path: /api/v1/mgmt/blueTooth/info
<b>Input and Output Syntax</b>	JSON
<b>Access Level</b>	Admin
<b>Input</b>	None
<b>Output</b>	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" }
<b>Applicable return codes</b>	2000, 4400, 4403, 5000, 5500



## Management.LineInfo Version 2

---

<b>Description</b>	This API provides details about the phone's line information.
<b>Protocol and Method</b>	Protocol: HTTP/HTTPS Method: GET Path: /api/v2/mgmt/lineInfo
<b>Output Syntax</b>	JSON
<b>Access Level</b>	Admin
<b>Input</b>	The following query parameters are accepted: line=<1>  Example queries: <PHONE_IP>/api/v2/mgmt/lineInfo?line=1
<b>Output</b>	Success Response: <pre>{   "data": [     {       "ID": "&lt;LINE_NUMBER&gt;",       "Label": "&lt;LABEL&gt;",       "Username": "&lt;USERNAME&gt;",       "Assigned": "&lt;True/False&gt;",       "RegistrationStatus": "&lt;Registered/Unregistered&gt;",       "Type": "&lt;Private/Shared&gt;",       "Active": "&lt;True/False&gt;",       "DoNotDisturb": "&lt;True/False&gt;",       "CallAppearances": [         "&lt;CALL_REFERENCE&gt;",         "&lt;CALL_REFERENCE&gt;",         ...       ],       "CallServers": [         {           "ID": "&lt;SERVER_INDEX&gt;",           "Address": "&lt;SERVER_ADDRESS&gt;",           "RegistrationStatus": "&lt;Registered/Unregistered&gt;",           "Port": "&lt;SERVER_PORT&gt;",           "Expires": "&lt;REGISTRATION_PERIOD&gt;",           "Transport": "&lt;DNSNaptr/TcpPreferred/TcpOnly/UdpOnly/TLS/Invalid&gt;",           "Working": "&lt;True/False&gt;"         }       ],       "ForwardingConfig": {         "Always": "&lt;CONTACT_NUMBER&gt;",         "DoNotDisturb": "&lt;CONTACT_NUMBER&gt;",         "Busy": "&lt;CONTACT_NUMBER&gt;",         "NoAnswer": "&lt;CONTACT_NUMBER&gt;"       }     }   ],   "ForwardingConfig": {     "Always": "&lt;CONTACT_NUMBER&gt;",     "DoNotDisturb": "&lt;CONTACT_NUMBER&gt;",     "Busy": "&lt;CONTACT_NUMBER&gt;",     "NoAnswer": "&lt;CONTACT_NUMBER&gt;"   } },</pre>

---

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

Failure Response:

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

---

<b>Applicable return codes</b>	2000, 4400, 4403, 5000, 5500
--------------------------------	------------------------------

---

## WebCallControl.CallStatus Version 2

<b>Description</b>	This API provides information about all the calls present on phone.
<b>Protocol, Method &amp; Path</b>	Protocol: HTTP/HTTPS Method: GET Path: /api/v2/webCallControl/callStatus
<b>Output Syntax</b>	JSON
<b>Access Level</b>	Admin
<b>Input</b>	<p>The following query parameters are accepted: handle=&lt;9577dd30&gt; line=&lt;1&gt; sequence=&lt;1&gt;</p> <p>API accepts only: * handle or * line or * line and sequence</p> <p>Example queries: &lt;PHONE_IP&gt;/api/v2/webCallControl/callStatus &lt;PHONE_IP&gt;/api/v2/webCallControl/callStatus?handle=b5576ff8 &lt;PHONE_IP&gt;/api/v2webCallControl/callStatus?line=1 &lt;PHONE_IP&gt;/api/v2/webCallControl/callStatus?line=1&amp;sequence=1</p>
<b>Output</b>	<pre>{   "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",       "LinelID": "1",       "CallSequence": "1",       "UIAppearanceIndex": "1*"       "Ringing": "0",       "Muted": "0",       "RTPPort": "2262",       "RTCPPort": "2263",     },     ...   ] }</pre>

```

        "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>"
}

```

<b>Applicable return codes</b>	2000, 4000, 4007, 4400, 4403, 5000, 5500
<b>Notes</b>	<p>During an active call, a "*" will be appended to UIAppearanceIndex number. The following case is applicable for Paging/PTT calls:</p> <ul style="list-style-type: none"> <li>Channel object will be present only if it's a Paging/PTT call.</li> </ul>

## Management.DeviceInfo Version 2

---

<b>Description</b>	This API provides general device information.
<b>Protocol and Method</b>	Protocol: HTTP/HTTPS Method: GET Path: /api/v2/mgmt/device/info
<b>Input and Output Syntax</b>	JSON
<b>Access Level</b>	Admin
<b>Input</b>	None
<b>Output</b>	Success Response: <pre>{   "data": {     "ModelNumber": "&lt;PHONE_MODEL&gt;",     "DeviceVendor": "Polycom",     "DeviceType": "HardwareEndpoint",     "MACAddress": "&lt;MAC_ADDRESS&gt;",     "Firmware": {       "Application": "&lt;APPLICATION_VERSION&gt;",       "Updater": "&lt;UPDATER_VERSION&gt;",       "BootBlock": "&lt;BOOTBLOCK_VERSION&gt;"     },     "IPAddress": "&lt;PHONE_IP_ADDRESS&gt;",     "IPStack": "IPv4 Only/IPv6 Only/(Dual IPv4/IPv6 stack)",     "PreferredNetwork": "&lt;IPv4/IPv6&gt;",     "IPv6Address": "&lt;PHONE_IPV6_ADDRESS&gt;",     "IPv6LinkAddress": "&lt;LINK_LOCAL_IPV6_ADDRESS&gt;",     "IPv6ULAAAddress": "&lt;UNIQUE_LOCAL_IPV6_ADDRESS&gt;",     "UpTime": {       "Days": "&lt;NUMBER&gt;"       "Hours": "&lt;NUMBER&gt;",       "Minutes": "&lt;NUMBER&gt;",       "Seconds": "&lt;NUMBER&gt;"     },     "AttachedHardware": {       "Camera": "&lt;True/False&gt;"       "EM": [         "Type": "&lt;Paper/LCD&gt;"         "Version": "&lt;EM_VERSION&gt;"       ]     },     "CanApplyShutdownRequest": "&lt;True/False&gt;",     "IntendToShutdown": "&lt;True/False&gt;",     "AppState": "&lt;PHONE_STATE&gt;",     "ReadyToUse": "&lt;True/False&gt;"   },   "Status": "2000" }</pre>

---

Failure Response:

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

---

<b>Applicable return codes</b>	2000, 4400, 4403, 5000, 5500
--------------------------------	------------------------------

---

## Management.PC\_Port\_Info

---

<b>Description</b>	This API provides Phone's PC port information
<b>Protocol and Method</b>	Protocol: HTTP/HTTPS Method: GET Path: /api/v1/mgmt/pcPort/info
<b>Input and Output Syntax</b>	JSON
<b>Access Level</b>	Admin
<b>Input</b>	None
<b>Output</b>	Success Response: { "data":{ "PCPortStatus":"Active", "PCMacAddress":"54E1AD1F2ECD" }, "Status": "2000" }  Failure Response: { "Status": "5000" }
<b>Applicable return codes</b>	2000, 4004, 4400, 4403, 5000, 5500

---

## Management.WebSignIn

---

<b>Description</b>	This API allows the user to be signed in to Skype for Business via the web.
<b>Protocol and Method</b>	Protocol: HTTP/HTTPS Method: GET Path: /api/v1/mgmt/webSignIn
<b>Input and Output Syntax</b>	JSON
<b>Access Level</b>	Admin
<b>Input</b>	None
<b>Output</b>	Success Response: { "data": { "Url": " <a href="http://aka.ms/sphone">http://aka.ms/sphone</a> ", "Code": "bpd9m42ul" } }, "Status": "2000" }  Failure Response: { "Status": "5000" }
<b>Applicable return codes</b>	2000, 5000, 4400, 4403, 5000, 5500

---



## Management.WebSignInCancel

---

<b>Description</b>	This API cancels a previous attempt to sign in a user to Skype for Business via the web.
<b>Protocol and Method</b>	Protocol: HTTP/HTTPS Method: GET Path: /api/v1/mgmt/webSignInCancel
<b>Input and Output Syntax</b>	JSON
<b>Access Level</b>	Admin
<b>Input</b>	None
<b>Output</b>	Success Response: { "data": { "result": "Canceled" } }, "Status": "2000" }  Failure Response: { "Status": "5000" }
<b>Applicable return codes</b>	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

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