

Upgrade guide for OBi21xx

Hello,

First off, these are my own observations on a single OBi2182 device I own and use. I don't have other devices to test, but others have used the same firmware and process many times successfully for the OBi21xx series phones. If you have a device you are willing to donate for testing, please reach out to me through Reddit DMs.

This guide likely contains errors. I've done all I can to test this myself, but I am human and I make mistakes. Your experience could be different from mine and I make no guarantees. Attempting this guide is at your own risk and I will accept no responsibility if you turn your OBi into a really terrible paperweight.

For me, the long and short of it is that the OBi is worthless as it stands, so even if I had bricked it, there was no loss. I am only attempting to develop a step-by-step guide to help others who want to give it a whirl.

I am providing steps that ask you to reboot your computer, power cycle the OBi, and open a fresh Incognito Browser window after many steps. This is simply out of an overabundance of caution. You may want to skip these, but these are tried and true steps help ensure success.

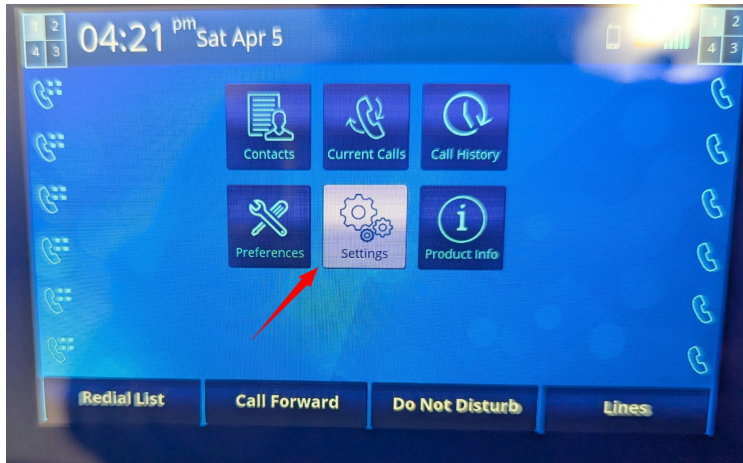
I did not develop any of the firmware or anything else other than this guide. ALL props go to the developers, testers, and supporters of obifirmware.com!

Thanks,

/u/PrimeRisk

Section A: Prepare your OBi

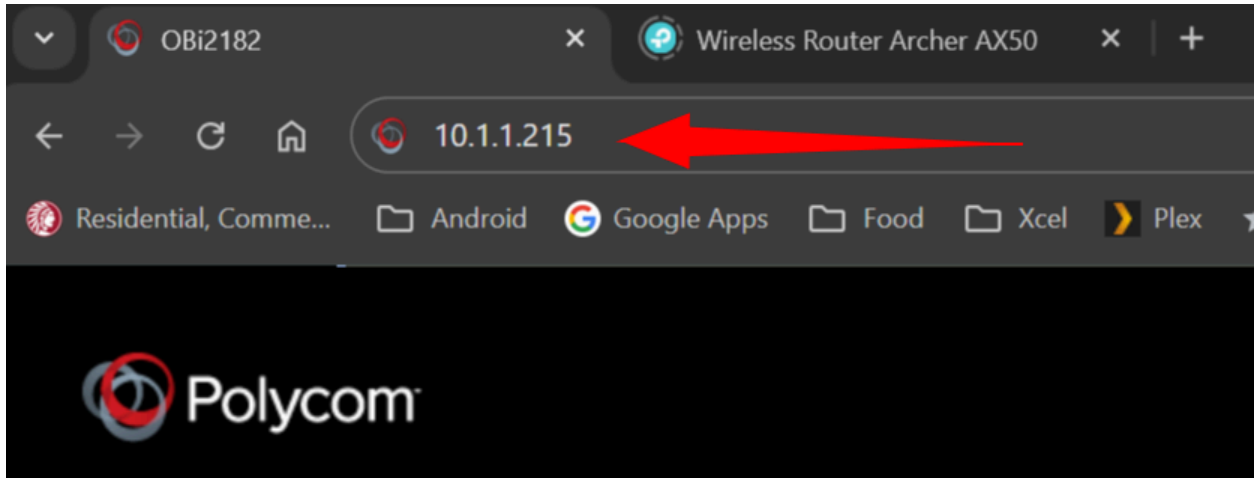
1. Plug in and wait for your OBi2182 to fully boot.
2. Go to the Settings with the arrow keys and press the center circle button.



3. Record (as in write it down now) the IP address displayed in the Network tab. If the IP address is not shown here, then make sure your network cable is plugged in. **Do not attempt to update firmware over WiFi (OBi or Computer).** Plug your phone into an ethernet cable. **Make SURE that WiFi displays disabled.** If not, go into the WiFi settings and disable it and then Reboot the OBi.



4. Open a Chrome browser and go to the IP address you wrote down. Others have reported issues with other browsers, especially FireFox, so everything here is based on a current Chrome browser.



le A

Sign in

http://10.1.1.215

Your connection to this site is not private

Username

Password

5. Login with the Username 'admin' and password 'admin'. If this password has been changed and you don't have it, well you're going to need to go look for a guide on how to conduct a factory reset without the admin password. I can't help you with that.
6. Screenshot this information on the System Status Page. You may need the Hardware and Software version so you know which 3rd party software to download.

The screenshot shows the Polycom web interface. On the left is a navigation menu with 'Status' (expanded) and 'System Management'. The 'Status' section includes 'System Status', 'Call Status', 'Call History', and 'LINE Status'. The main content area is titled 'Product Information' and contains a table of system parameters. Red arrows highlight the 'Status' menu, the 'Product Information' header, and the 'HardwareVersion' and 'SoftwareVersion' rows in the table.

Parameter Name	
ModelName	OBi2182
MACAddress	
SerialNumber	
OBiNumber	
HardwareVersion	1.0
SoftwareVersion	6.2.3 (Build: 4946.1311)
SystemTime	16:36:38 04/05/2025, Saturday
UpTime	0 Days 0:07:34 (18)
CertificatesStatus	Installed
CustomizationStatus	Contacting Server: Can't connect

7. Disable Auto Provisioning settings for Auto Firmware and ITSP Provisioning, by unchecking the Default and changing Method to Disabled for BOTH SETTINGS even if they are already defaulted to Disabled.

Polycom User Login Reboot

Auto Provisioning

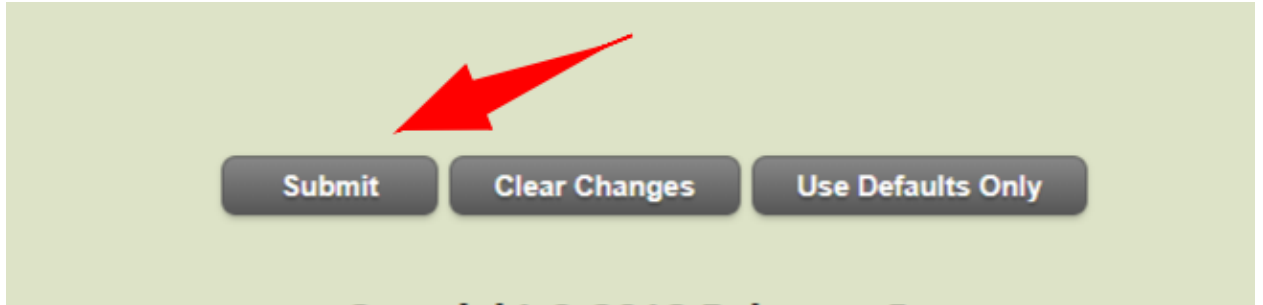
Auto Firmware Update

Parameter Name	Value	Default
Method	Disabled	<input type="checkbox"/>
Interval	0	<input checked="" type="checkbox"/>
TimeofDay	00:00+30	<input checked="" type="checkbox"/>
RandomDelayRange	30	<input checked="" type="checkbox"/>
FirmwareURL		<input checked="" type="checkbox"/>
DnsLookupType	A Record Only	<input checked="" type="checkbox"/>
DnsSrvPrefix	No Prefix	<input checked="" type="checkbox"/>
Username		<input checked="" type="checkbox"/>
Password		<input checked="" type="checkbox"/>
RangeDownload	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Suspend	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Precheck	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

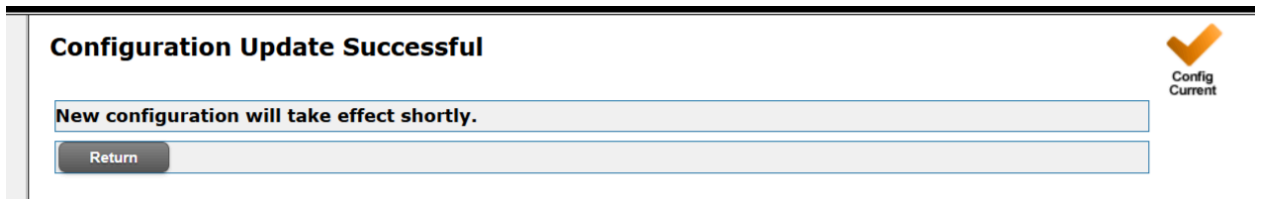
ITSP Provisioning

Parameter Name	Value	Default
Method	Disabled	<input type="checkbox"/>
Interval	0	<input checked="" type="checkbox"/>

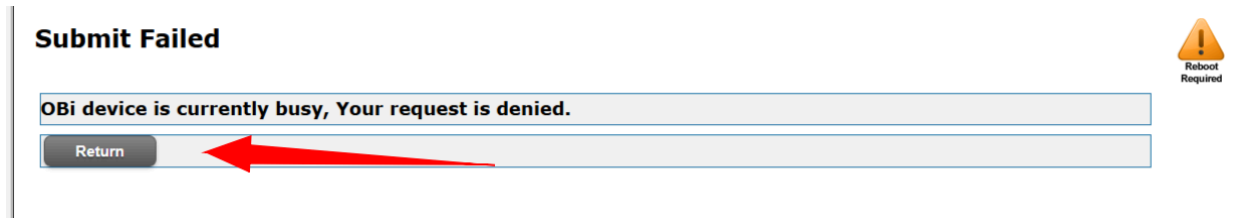
- Click Submit at the bottom of the page and ensure that you get a Configuration Update Successful message. If it fails, click return and then try again. If it still doesn't work, then unplug the OBi, wait 30 seconds, and start this guide over.



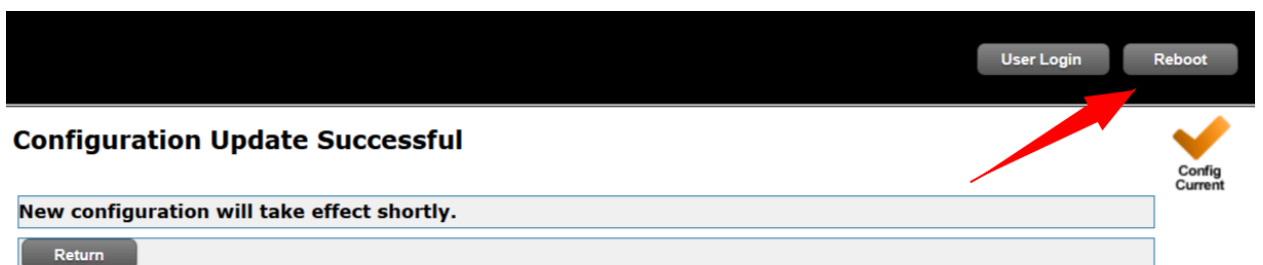
Good:



Bad:



- Reboot the OBi at the top right of the page.



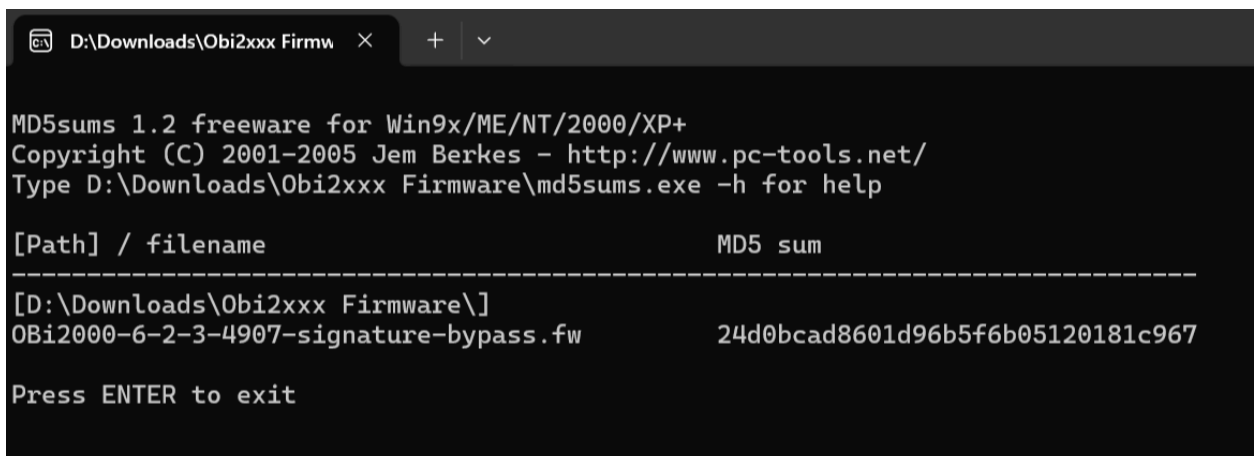
10. Verify that the settings have remained on the Auto Provisioning page.

Section B: Getting The Firmware

1. Go to the Crowdsourced Firmware page here: www.obifirmware.com/#cta and look for the OBi2000 series section (taoman - for OBi2xxx series). Download all of the firmware packages into a separate folder.
2. Verify the MD5 sum for your downloaded files. Linux desktops will have this tool already, but there are limited options for Windows. If you do not know how to use MD5Sum, they search for a YouTube video. The MD5Sum verifies that the files you downloaded are not corrupted in any way. This is very important as if there is corruption in the firmware files you risk bricking your OBi.

<https://www.pc-tools.net/win32/md5sums/> has a very old windows executable that I used to compare MD5 sums on the downloaded firmware files on a Windows 11 as of 4/6/25 and they checked out 100% vs my linux box. YMMV, so this is at your own risk.

To use, just unzip the files in the same folder with your firmware files and then drag the firmware file onto the md5sums.exe in the folder. A command window will pop up looking like this.



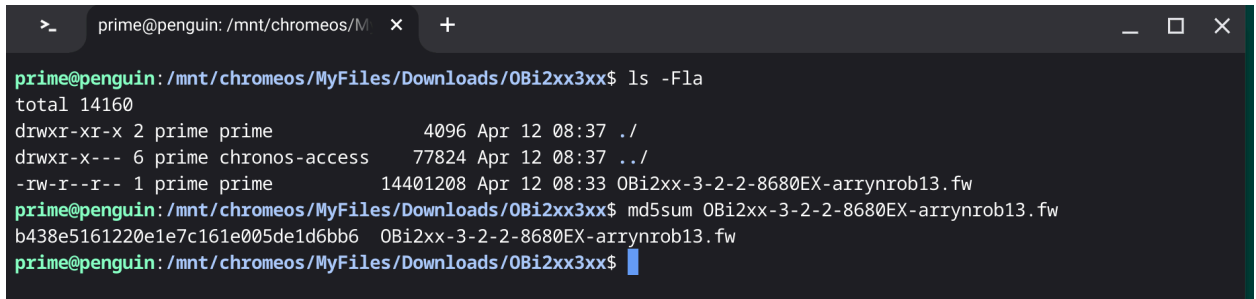
```
D:\Downloads\Obi2xxx Firmw  ×  +  ▾

MD5sums 1.2 freeware for Win9x/ME/NT/2000/XP+
Copyright (C) 2001-2005 Jem Berkes - http://www.pc-tools.net/
Type D:\Downloads\Obi2xxx Firmware\md5sums.exe -h for help

[Path] / filename                                MD5 sum
-----
[D:\Downloads\Obi2xxx Firmware\]
OBi2000-6-2-3-4907-signature-bypass.fw          24d0bcad8601d96b5f6b05120181c967

Press ENTER to exit
```

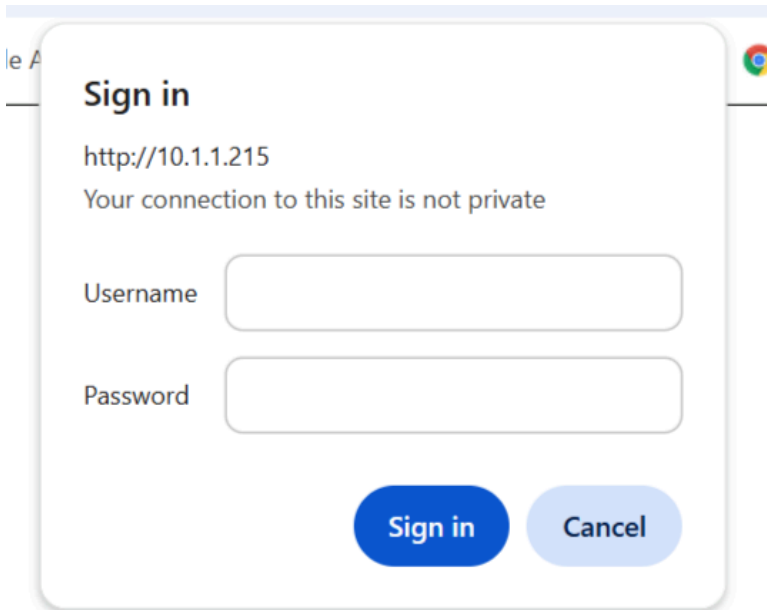
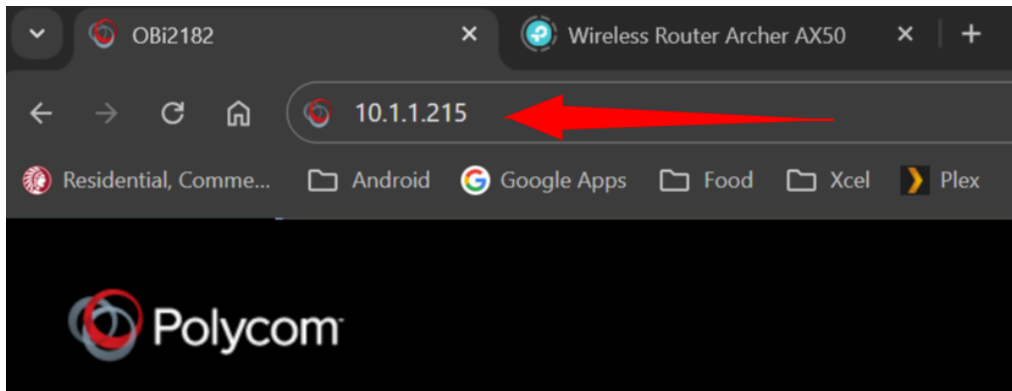
3. If you are running a Linux variant, make sure the md5sum package is installed and use the command line syntax **md5sum <filename>**



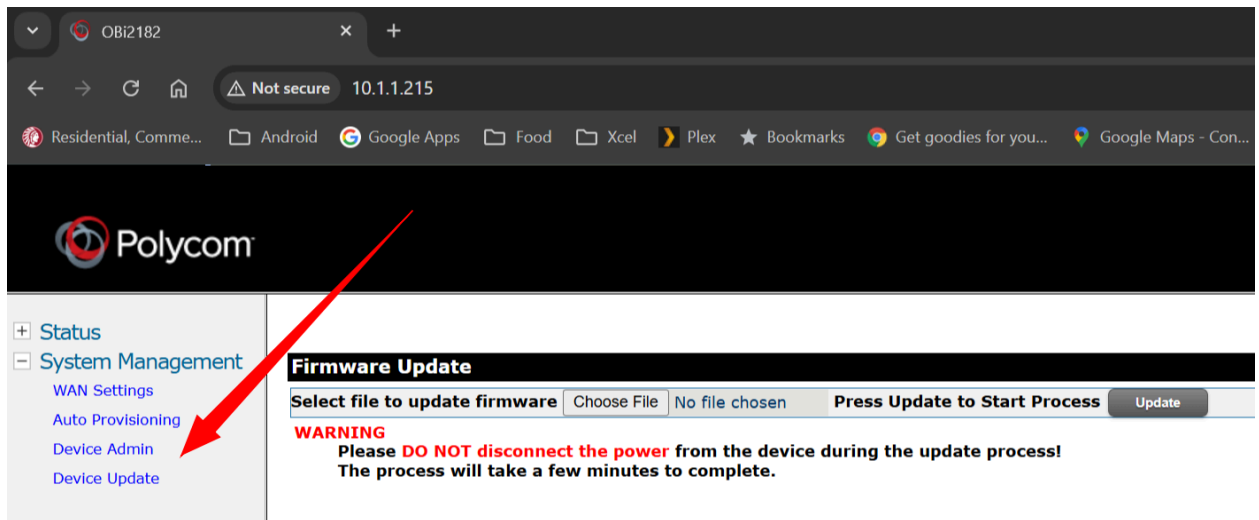
```
prime@penguin: /mnt/chromeos/M x +
prime@penguin: /mnt/chromeos/MyFiles/Downloads/OBi2xx3xx$ ls -Fla
total 14160
drwxr-xr-x 2 prime prime          4096 Apr 12 08:37 ./
drwxr-x--- 6 prime chronos-access 77824 Apr 12 08:37 ../
-rw-r--r-- 1 prime prime        14401208 Apr 12 08:33 OBi2xx-3-2-2-8680EX-arrynrob13.fw
prime@penguin: /mnt/chromeos/MyFiles/Downloads/OBi2xx3xx$ md5sum OBi2xx-3-2-2-8680EX-arrynrob13.fw
b438e5161220e1e7c161e005de1d6bb6  OBi2xx-3-2-2-8680EX-arrynrob13.fw
prime@penguin: /mnt/chromeos/MyFiles/Downloads/OBi2xx3xx$
```

Section C: Prepare to Flash

1. Reboot your computer. (Recommended! You don't want anything else triggering weirdness when flashing any firmware, an unintended page refresh can ruin your entire day).
2. Time to start flashing firmware! Unplug the OBi, wait 30 seconds, plug it in and wait for it to fully boot. Close all browsers, open an Incognito Chrome browser and go to the IP address you wrote down in step #3.



3. Login with the Username 'admin' and password 'admin' and go to the System Management -> Device Update page.

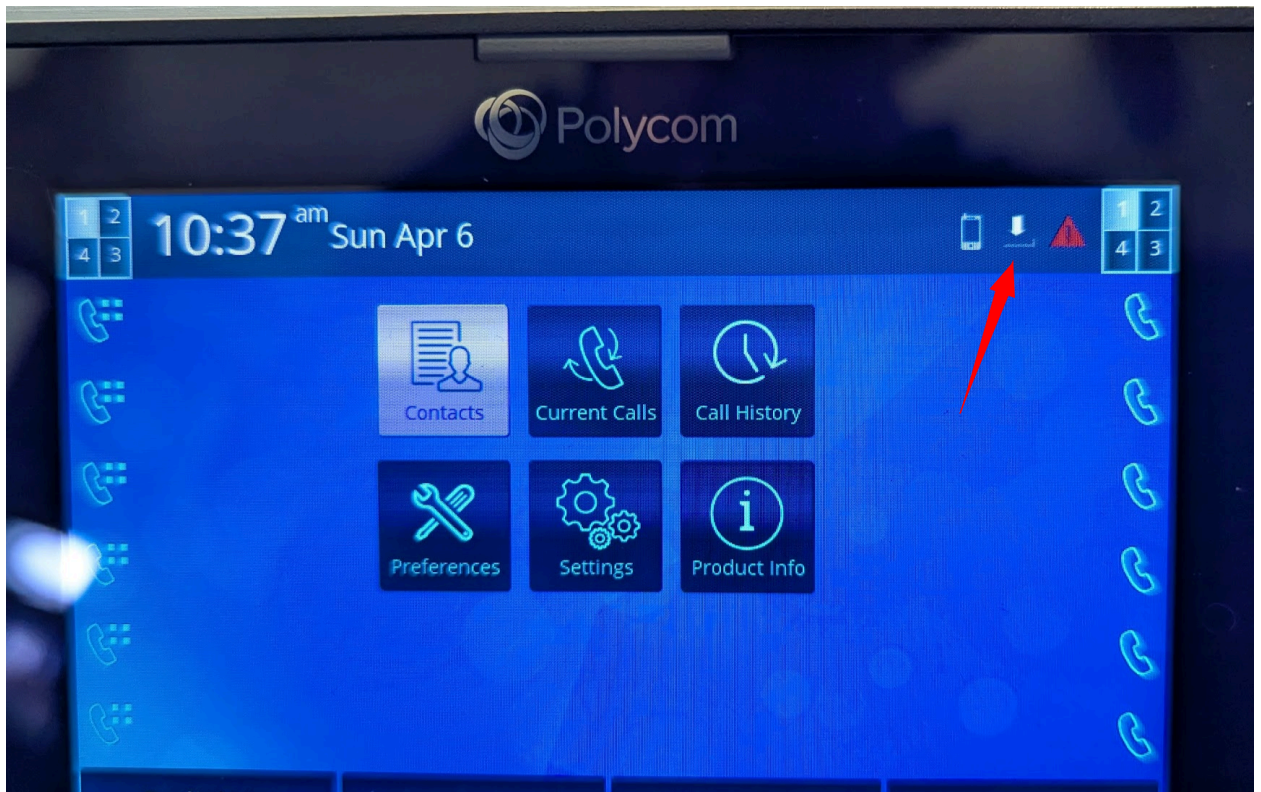


4. Click Choose File under Firmware Update and select the file to flash. Pay strict attention to the order of the updates provided on the firmware page. These are the instructions as of 4/6/25, but these may change at any time.

Installation instructions:

1. Install [stock 4983](#).
2. Install [OBi2000-6-2-3-4907-signature-bypass.fw](#).
`md5sum OBi2000-6-2-3-4907-signature-bypass.fw = 24d0bcad8601d96b5f6b05120181c967`
3. Next, install [OBi2000-6-2-3-5330-taoman3.fw](#).
`md5sum OBi2000-6-2-3-5330-taoman3.fw = c403c79f49e3694e72a40da93c770c01`

5. Click on Update and let it take its time. It will take a while for the browser page to update saying that Firmware Update Started. You can see the progress on the screen of the OBi. Do not get rushed as the OBi may go through multiple reboot cycles to complete. Once the first update is complete, **CLOSE YOUR BROWSER**, and go back to step #2 of this section to apply the next Firmware file.



6. Unplug the OBi and wait 30 seconds one final time and log back into the interface and you should see something like this. You should now see all of the configuration items on the left-hand side of the screen available to you, including Google Voice. If so, you are good to go!



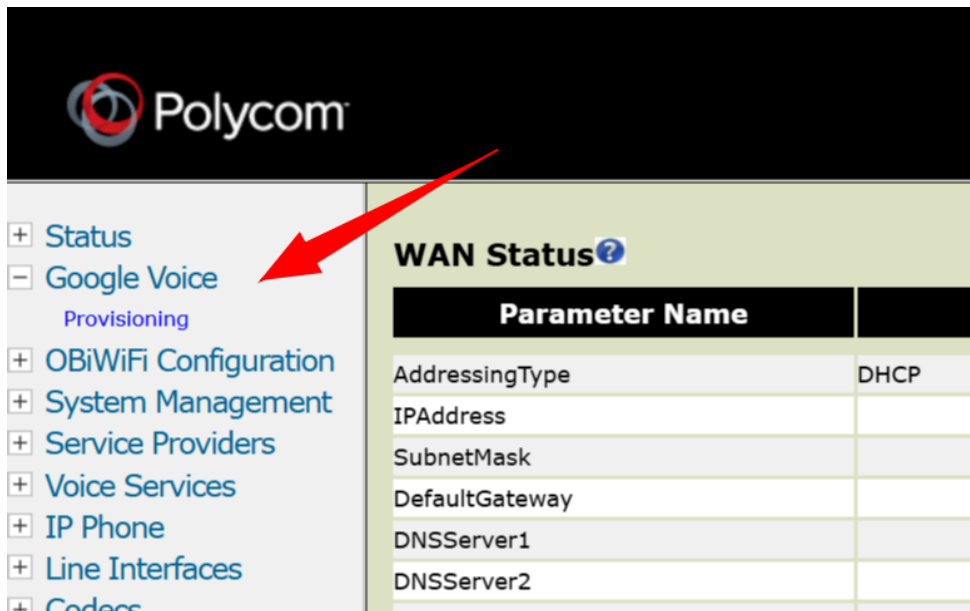
<ul style="list-style-type: none">+ Status+ Google Voice+ OBiWiFi Configuration+ System Management+ Service Providers+ Voice Services+ IP Phone+ Line Interfaces+ Codecs+ Tone Settings+ Ring Settings+ Star Codes+ User Settings	WAN Status? <table><thead><tr><th>Parameter Name</th><th></th></tr></thead><tbody><tr><td>AddressingType</td><td>DHCP</td></tr><tr><td>IPAddress</td><td>10.1.1.215</td></tr><tr><td>SubnetMask</td><td>255.255.255.0</td></tr><tr><td>DefaultGateway</td><td>10.1.1.253</td></tr><tr><td>DNSServer1</td><td>10.1.1.253</td></tr><tr><td>DNSServer2</td><td></td></tr><tr><td>MACAddress</td><td></td></tr><tr><td>LLDP-MEDStatus</td><td>Disabled</td></tr><tr><td>802_1XStatus</td><td>Disabled</td></tr><tr><td>SWPortLinkStatus</td><td>Link:Y; PoE: N; Spd:1000F; Auto:Y; LP Ability:ACK FC 1000F 100F 100H 10F 10H</td></tr><tr><td>PCPortLinkStatus</td><td>Link:N; Auto:Y</td></tr><tr><td>Stats</td><td>P/E: Rx=2832/0; Tx=480/0</td></tr></tbody></table>	Parameter Name		AddressingType	DHCP	IPAddress	10.1.1.215	SubnetMask	255.255.255.0	DefaultGateway	10.1.1.253	DNSServer1	10.1.1.253	DNSServer2		MACAddress		LLDP-MEDStatus	Disabled	802_1XStatus	Disabled	SWPortLinkStatus	Link:Y; PoE: N; Spd:1000F; Auto:Y; LP Ability:ACK FC 1000F 100F 100H 10F 10H	PCPortLinkStatus	Link:N; Auto:Y	Stats	P/E: Rx=2832/0; Tx=480/0
Parameter Name																											
AddressingType	DHCP																										
IPAddress	10.1.1.215																										
SubnetMask	255.255.255.0																										
DefaultGateway	10.1.1.253																										
DNSServer1	10.1.1.253																										
DNSServer2																											
MACAddress																											
LLDP-MEDStatus	Disabled																										
802_1XStatus	Disabled																										
SWPortLinkStatus	Link:Y; PoE: N; Spd:1000F; Auto:Y; LP Ability:ACK FC 1000F 100F 100H 10F 10H																										
PCPortLinkStatus	Link:N; Auto:Y																										
Stats	P/E: Rx=2832/0; Tx=480/0																										

Product Information?	
Parameter Name	
ModelName	OBi2182
MACAddress	
SerialNumber	
OBiNumber	
HardwareVersion	1.0
SoftwareVersion	6.2.3 (Build: 5330.1311-taoman3)
SystemTime	10:55:41 04/06/2025, Sunday
UpTime	0 Days 0:03:18 (2)
CertificatesStatus	Installed
CustomizationStatus	Generic

7. That's it, you're ready to configure your OBi with any service you like!

Section D: Setup Google Voice

1. If you want to register a Google Voice number, just open the Google Voice (2nd from the top), click Provisioning and follow the simple instructions!



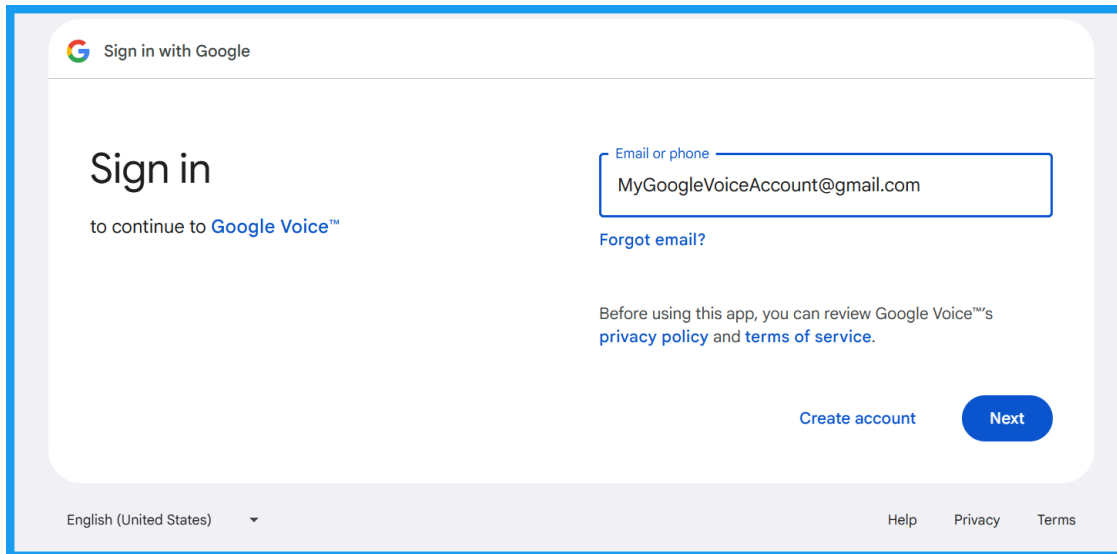
2. **Right-click** and open the “request GV oauth token” link in a new tab. You’ll need to come back to this page multiple times, so just do it now!

Instructions:

- 1) open this link in new tab to request a single-use authorization token for "obitalk.com": [request GV oauth token](#)
- 2) after logging into your google voice account and agreeing to grant obitalk.com permission to make/receive calls (click 'select all' permissions if prompted), your browser will receive a 404 error from www.obitalk.com because it is no longer functional as of 10/31/2024. however, an authorization code is present in that url
- 3) copy/paste the full non-functional url from the other tab into the textbox below (it will look like 'https://www.obitalk.com/obinet/pg/obhdev/gvtoken?code=xxxxxxxxxxxxxxxx&scope=blah&lots of other stuff=junk') and then click 'Get Refresh Token From Code In URL' button below
- 4) copy/paste the Refresh Token contents (that will appear after button is pressed) into obi local web gui's AuthPassword field at Voice Services > SPx Service > Credentials > AuthPassword (SPx # must match config chosen in next step), then click Submit at the bottom
- 5) based on the desired SPx # used in step #4, choose the corresponding config URL for provisioning:
SP1: <https://www.obifirmware.com/fw/EnableGVSSIPWithoutOBiTALK.xml>
SP2: https://www.obifirmware.com/fw/EnableGVSSIPWithoutOBiTALK_SP2.xml
SP3: https://www.obifirmware.com/fw/EnableGVSSIPWithoutOBiTALK_SP3.xml
SP4: https://www.obifirmware.com/fw/EnableGVSSIPWithoutOBiTALK_SP4.xml
SP5: https://www.obifirmware.com/fw/EnableGVSSIPWithoutOBiTALK_SP5.xml
SP6: https://www.obifirmware.com/fw/EnableGVSSIPWithoutOBiTALK_SP6.xml
- 6) copy/paste chosen url into local webgui at System Management > Auto Provisioning > ITSP Provisioning > ConfigURL, set provisioning "Method" to "System Start", click Submit at the bottom, then click Reboot to force the config to download

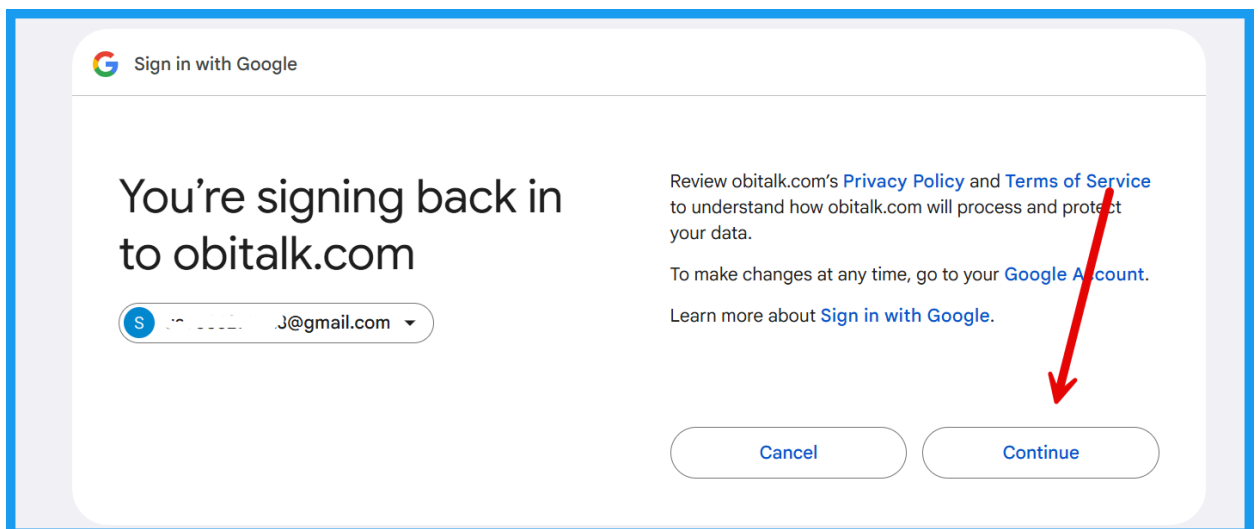
URL:

3. Log into your Google account with your Google Voice number:



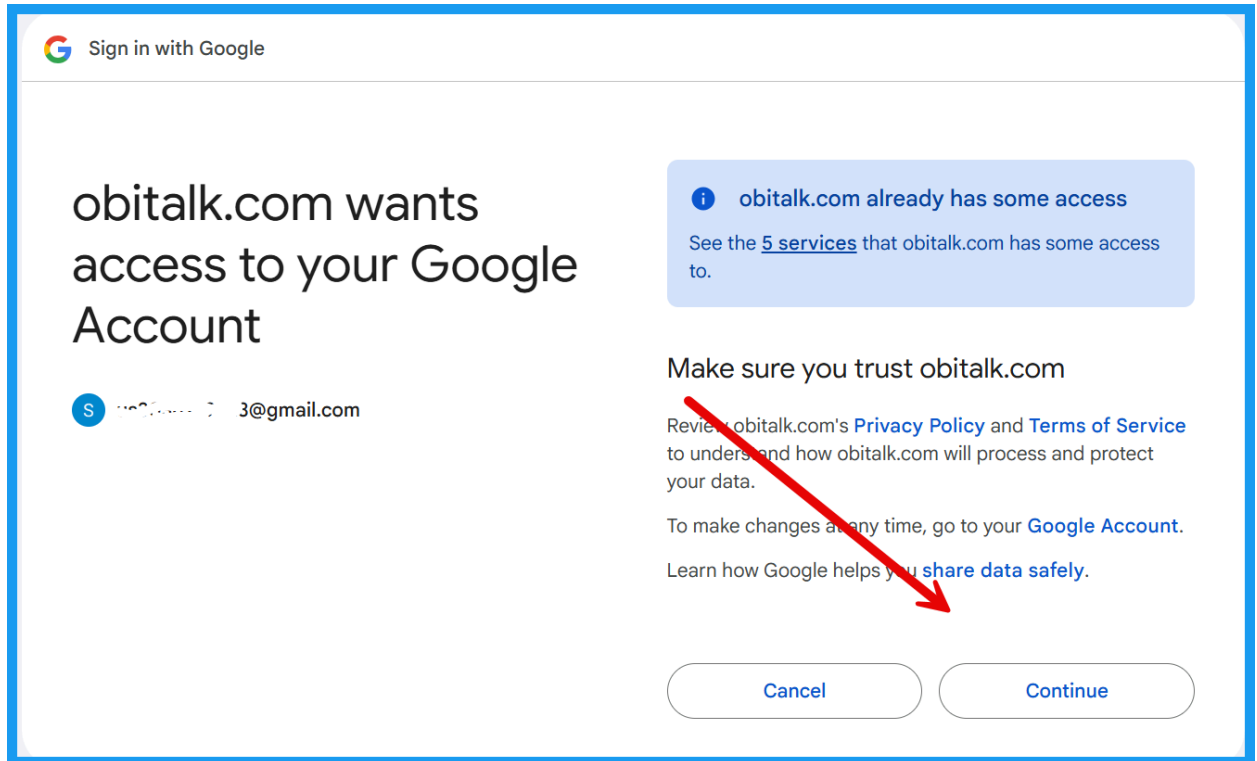
The image shows a Google sign-in interface. At the top left is the Google logo and the text "Sign in with Google". The main heading is "Sign in" followed by "to continue to Google Voice™". On the right, there is a text input field labeled "Email or phone" containing the email address "MyGoogleVoiceAccount@gmail.com". Below the input field is a link "Forgot email?". Further down, there is a paragraph: "Before using this app, you can review Google Voice™'s [privacy policy](#) and [terms of service](#)." At the bottom right, there are two buttons: "Create account" and "Next". At the bottom left, there is a language selector showing "English (United States)". At the bottom right, there are links for "Help", "Privacy", and "Terms".

4. Agree to the terms and policies:

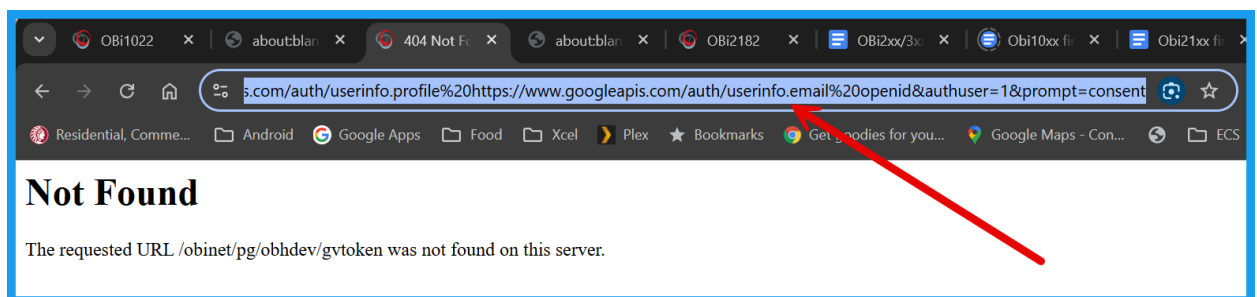


The image shows a Google sign-in interface for obitalk.com. At the top left is the Google logo and the text "Sign in with Google". The main heading is "You're signing back in to obitalk.com". Below the heading is a profile card showing a circular profile picture with the letter 'S', the name "John Doe", and the email address "JD@gmail.com" with a dropdown arrow. On the right, there is a paragraph: "Review obitalk.com's [Privacy Policy](#) and [Terms of Service](#) to understand how obitalk.com will process and protect your data." Below this is another paragraph: "To make changes at any time, go to your [Google Account](#)." At the bottom, there are two buttons: "Cancel" and "Continue". A red arrow points from the "Continue" button to the "Google Account" link in the text above.

5. Agree to share services. Please note if you ever setup with ObiTalk before you will see a notice that you already granted some service access. If you have never done this before, this screen may be slightly different.



6. Get your token! This screen will look like it failed, but IT IS CORRECT. The info you need is the ENTIRE string in the URL field. Copy this!



7. Go back to the Provisioning Instructions tab and paste the string in the URL box and click “Get Refresh Token From Code in URL”. Copy the “Refresh Token” for the next step.

Instructions:

- 1) open this link in new tab to request a single-use authorization token for "obitalk.com": [request_GV_oauth_token](#)
- 2) after logging into your google voice account and agreeing to grant obitalk.com permission to make/receive calls (click 'select all' permissions if prompted), your browser will receive a 404 error from www.obitalk.com because it is no longer functional as of 10/31/2024. however, an authorization code is present in that url
- 3) copy/paste the full non-functional url from the other tab into the textbox below (it will look like 'https://www.obitalk.com/obinet/pg/obhdev/gvtoken?code=xxxxxxxxxxxxxxxxx&scope=blah&lotsofotherstuff=junk') and then click 'Get Refresh Token From Code In URL' button below
- 4) copy/paste the Refresh Token contents (that will appear after button is pressed) into obi local web gui's AuthPassword field at Voice Services > SPX Service > Credentials > AuthPassword (SPX # must match config chosen in next step), then click Submit at the bottom
- 5) based on the desired SPX # used in step #4, choose the corresponding config URL for provisioning:
SP1: <https://www.obifirmware.com/fw/EnableGVSSIPWithoutOBiTALK.xml>
SP2: https://www.obifirmware.com/fw/EnableGVSSIPWithoutOBiTALK_SP2.xml
SP3: https://www.obifirmware.com/fw/EnableGVSSIPWithoutOBiTALK_SP3.xml
SP4: https://www.obifirmware.com/fw/EnableGVSSIPWithoutOBiTALK_SP4.xml
SP5: https://www.obifirmware.com/fw/EnableGVSSIPWithoutOBiTALK_SP5.xml
SP6: https://www.obifirmware.com/fw/EnableGVSSIPWithoutOBiTALK_SP6.xml
- 6) copy/paste chosen url into local webgui at System Management > Auto Provisioning > ITSP Provisioning > ConfigURL, set provisioning "Method" to "System Start", click Submit at the bottom, then click Reboot to force the config to download

URL: https://www.obitalk.com/obinet/pg/obhdev/gvtoken?code=4/0A^H_E-5yHnDed4-qmC6STP-wnnyCELnL3ozcs_zAvrrC

Get Refresh Token From Code In URL

Code: 4/0Ab_5qlknRjod1qbQMs6u8TPE-wnnp2ExnL8ozcs_zAvrrCJsAvK6otOD82qlouL3Y

Response:

```
{
  "access_token": "ya29.a0AZVnI...k4iy...F066sAdxe5JSP-f50KIiuvk9xH4ltr-AnyXq7pq-JD?lws9xaVNph...MHD5dVSCPa...C8_KqIMF...fUgRH-SalurlGT2idNj_vnJ58r...ArmIsIJtV_VmgP...R5HU0S?...GcIG...3wFBsjac...ARCSFO...L41DrMG3Koskkaug0175",
  "expires_in": 3599,
  "refresh_token": "1//04N_Pf3...ykrvY...L9?igjwg-XW1Q...xgb-tCh7XD1P4dwbb_WB55-VeIHGRhcbDBBBk7Ldr6s_-ylCVllws",
  "scope": "openid https://www.googleleapis.com/auth/userinfo.email https://www.googleleapis.com/auth/gadgets https://www.googleleapis.com/auth/userinfo.profile https://www.googleleapis.com/auth/sipregistrat-3p",
  "token_type": "Bearer",
  "id_token": "eyJhbGciOiJSUzI1NiIsImtpZCI6IjZzdhMzU4MzcwFm...NDP474limEzNmZyZhOTY0MjMTGzC0eXA...Jk1KVj...Jpc3MiOi...z...5bcy5nb29hbnUy29tiWiVxpwiJv...NTY1NDM2MjMxMTEtLXYyZWw...iXyX3raTack...z...Gmps_3VqYXRcpJpLwcHMzUzVzZzLdXNlcnVubnRlbGUy29tiWiVXkiJoianTY1NDM2MjMxMTEtLXYyZWw...087zYXxyX3raTdDQ7.GztMgps_3VoYXRcpJTpLfwMcHMzU29vZzZldXNlcnVubnRlbGUy29tiWiVjoiaTASNJl...4NTA5NDMwMm...zMtGMziWiZWlhahwaioi1czMmZyVnZkOihjaX3raTackL2haawMuY29tiWiZWlhahwfmdYvaazQ3ONrYMDImFE0xzH
```

Refresh Token: 1//04N PF3~...CgYIARAAGAC...wF-L9IrljbVXQ5rXW1Q...xgB...7XD1P4dwbB WB55-vE1HGRhcbDBBk7Ldr6

8. Go back to the OBi configuration page under **Voice Services > SPx Service > Credentials > AuthPassword**, Uncheck Default and paste the Refresh Token into the AuthPassword field, scroll to the bottom, and click Submit, but do not reboot at this time!

Parameter Name	Value	Default	
AuthUserName	<input type="text"/>	<input type="checkbox"/>	?
AuthPassword	<input type="password"/>	<input type="checkbox"/>	?
AuthTokenRefresh	<input type="checkbox"/>	<input checked="" type="checkbox"/>	?
AuthTokenRefreshInterval	900	<input checked="" type="checkbox"/>	?
DTLSPeerCertAltName		<input checked="" type="checkbox"/>	?
URI		<input checked="" type="checkbox"/>	?
X_MyExtension		<input checked="" type="checkbox"/>	?
X_XsiUserName		<input checked="" type="checkbox"/>	?
X_XsiPassword		<input checked="" type="checkbox"/>	?
X_XmppDomain		<input checked="" type="checkbox"/>	?
X_XmppDomainUseSRV	<input type="checkbox"/>	<input checked="" type="checkbox"/>	?
X_XmppUserName		<input checked="" type="checkbox"/>	?
X_XmppAuthWithUserName	<input type="checkbox"/>	<input checked="" type="checkbox"/>	?
X_XmppPassword		<input checked="" type="checkbox"/>	?
X_ContactUserID		<input checked="" type="checkbox"/>	?
X_EnforceRequestUserID	<input type="checkbox"/>	<input checked="" type="checkbox"/>	?

9. Go back to the Instructions tab and copy the Configuration URL for the appropriate SPx Service you pasted the AuthPassword into in the previous step.

5) based on the desired SPx # used in step #4, choose the corresponding config URL for provisioning:

SP1: <https://www.obifirmware.com/fw/EnableGV SIPWithoutOBiTALK.xml>

SP2: https://www.obifirmware.com/fw/EnableGV SIPWithoutOBiTALK_SP2.xml

SP3: https://www.obifirmware.com/fw/EnableGV SIPWithoutOBiTALK_SP3.xml

SP4: https://www.obifirmware.com/fw/EnableGV SIPWithoutOBiTALK_SP4.xml

SP5: https://www.obifirmware.com/fw/EnableGV SIPWithoutOBiTALK_SP5.xml

SP6: https://www.obifirmware.com/fw/EnableGV SIPWithoutOBiTALK_SP6.xml

10. Go back to the OBi configuration page under **System Management > Auto Provisioning > ITSP Provisioning > ConfigURL** and paste in the URL from the last step, set provisioning "Method" to "System Start", click Submit at the bottom, then click Reboot.

Parameter Name	Value	Default
Method	System Start	<input type="checkbox"/>
Interval	0	<input checked="" type="checkbox"/>
TimeofDay	00:00+30	<input checked="" type="checkbox"/>
ConfigURL	https://www.obifirmware.com/fw/EnableGV SIPWithoutOBIT	<input type="checkbox"/>
DnsLookupType	A Record Only	<input checked="" type="checkbox"/>
DnsSrvPrefix	No Prefix	<input checked="" type="checkbox"/>
Override	All	<input checked="" type="checkbox"/>

11. Once the OBi reboots, return to the configuration page to inspect your new configuration.

Parameter Name	Value
Status	Connected
PrimaryProxyServer	
SecondaryProxyServer	
CallState	0 Active Calls

12. That's it! Place a call from your newly configured OBi and enjoy!

Section E: Additional Questions:

There is no formal support for these firmware upgrades, but there are a group of fine people over on <https://broadbandbulletin.com/t/voip-tech-chat> that may be able to help you if you get stuck or have other questions.

PLEASE make sure you search and read before asking questions. If you've run into an issue, likely someone has before and the answer is somewhere in the forum.