



Configuring the Obihai OBi1022 for SIP Registration

This guide shows you the steps to configure a SIP phone to register with Twilio. If you have any feedback on the following guide please email us at:

sip.interconnectionguides@twilio.com

General Notes

- Please see separate instructions on creating Programmable Voice - SIP domains. This guide assumes these steps have already been done.
- User-credentials are required to register phones. IP ACLs alone are not sufficient. Your AuthorizationName should match the username on the SIP endpoint and both of those should match a user credential that you entered on Twilio's console.
- A SIP URI is: sip:username@SIPDomain or sip:phonenumber@SIPDomain
- When this document refers to **TwilioSIPDomain** it represents: **yourdomain.sip.region.twilio.com** where you have selected **yourdomain** on Twilio's console (globally unique) and **region** which is initially US1 (North-Virginia) only and other regions later.

Obihai OBi1022

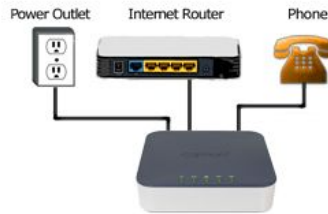
1. Sign up at obitalk.com
2. Add your device at obitalk.com. Follow the steps provided by obitalk.com.
 - a. Uncheck "I want to configure Google Voice on this device" in the "Add an OBi Device" screen.

- OBI Dashboard
- Add Device**
- Speed Dials
- Trusted Callers
- Link Devices
- Circle of Trust
- Requests & Invitations
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Add an OBi Device

If you have an OBi Universal Phone Adapter:

- Connect a telephone to the OBi device's phone port.
- Connect the OBi device's Internet port to your Internet router or switch.
- Power up the OBi device.



If you have an OBi IP phone:

- Connect the OBi IP phone 'SW' Ethernet port to your Internet router or switch.
- Power-up the OBi IP Phone.
- Note: If connected via Power over Ethernet, the OBi will start-up automatically.



I want to configure Google Voice on this device.

Click next when ready: [Next](#)

3. Once your phone is added to obitalk.com, add a service provider.
 - a. At the bottom of "Approved service providers" page, click next.
 - b. Twilio is a *Generic Service Provider* which is at the bottom of the list of compatible service providers.


OBI TALK Compatible Service Providers

Your OBi device will work with a multitude of services and service providers.

- Choose from a list of VoIP service providers to reach a configuration helper.
- For most services, all you need is your account's User Name and Password.

Click next to go to the list of compatible service providers and get started.

[Next](#)

<p> OBi1022</p> <p>Device Configuration</p> <p>OBi Dashboard Add Device Speed Dials Trusted Callers Link Devices</p> <p>Circle of Trust Requests & Invitations</p> <p>Approved Service Providers For Home For Business</p> <p>Solutions OBiEXTRAs</p> <p>Edit Profile</p> <p>Download OBiON</p> <p>Forum Registration</p> <p>Support Set-Up Help FAQ Forum Docs</p>	<p>Configure Service Provider Accounts</p> <p>Please Choose Your Service Provider:</p> <ul style="list-style-type: none"> ▪ Anveo ▪ Asterisk Compatible System ▪ Broadvox ▪ Callcentric ▪ CallWithUs ▪ Engin ▪ flowroute ▪ freephoneline ▪ Google Voice ▪ InPhonex ▪ ippi ▪ Localphone ▪ OneSuite ▪ Phonepower ▪ RealCalls ▪ RingCentral ▪ Telecube ▪ Vitelity ▪ voip.ms ▪ VoIP2Go ▪ VOIPo <ul style="list-style-type: none"> ▪ Generic Service Provider
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4. Go to device configuration.

Configure Voice Service Providers (SP) using Twilio.

- a. **Service Provider Proxy Server:** Enter **TwilioSIPDomain**
- b. **Service Provider Proxy Server Port:** 5060
- c. **Username:** This must match the **username** of the **credentialList** that you configured for your TwilioSIPDomain.
- d. **Password:** This is the **password** corresponding to the username in the credentialList that you configured for your TwilioSIPDomain.
- e. Click **Save**.

OBi1022 **SP1: Generic Service Provider – OBi1022**

Device Configuration

OBi Dashboard
 Add Device
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Edit Profile

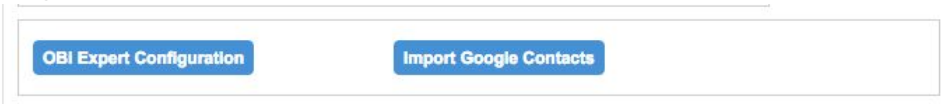
Download OBiON

Forum Registration

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Configuration Name	<input type="text" value="Twilio"/>	
Primary Line for Outgoing Calls	<input checked="" type="checkbox"/> Phone 1	
Voicemail Notification (Optional)	<input type="checkbox"/> Phone 1	
7-Digit Dialing for USA & CAN (Optional)	<input type="text"/>	 Enter Area Code e.g. "212"
Use This Service for Emergency 911 Calls When 911 is called via the OBi this service will be used.	<input type="checkbox"/> Check only if you are sure this service is capable of placing and receiving emergency service calls.	
Service Provider Proxy Server	<input type="text" value="mydomain.sip.us1.twil"/>	
Service Provider Proxy Server Port	<input type="text" value="5060"/>	
Outbound Proxy Server	<input type="text"/>	
Outbound Proxy Server Port	<input type="text"/>	
Username	<input type="text" value="alice"/>	
Password	<input type="password" value="*****"/>	
URI	<input type="text"/>	

- Turn on connection keep-alives
 To turn on keep-alives, you need to go into the OBi Expert Configuration mode in obitalk.com
 OBi Expert Configuration mode is at the bottom of the obitalk dashboard.



Once you're in the Expert Configuration menu, click on "Enter OBi Expert" button to enter expert configuration mode.

OBi1022 **OBi Expert Configuration Menu (630612012)**

Device Configuration

OBi Dashboard
 Add Device
 Speed Dials
 Trusted Callers
 Link Devices

Circle of Trust
 Requests & Invitations

Approved Service Providers

Manage Expert Configuration


Saved Configuration File No file chosen

In OBI Expert Configuration mode, click on Voice Service "SP1 Service" on the left.

This shows a list of parameters you can tweak.

Search for *X_KeepAlive_Enable* parameter and enable it, then click on Submit at the bottom of the page.

Your phone will reboot. Please wait until the reboot is over to move on to the next step.



[Return to OBI Dashboard](#)

[Return to OBI Expert Configuration Menu](#)

Status [\[+\]](#)

OBiWiFi Configuration [\[+\]](#)

System Management [\[+\]](#)

Service Providers [\[+\]](#)

Voice Service [\[-\]](#)

- SP1 Service
- SP2 Service
- SP3 Service
- SP4 Service
- SP5 Service
- SP6 Service
- OBiTALK Service
- Auto Attendant
- Gateways & TrunkGrps
- OBiBlueTooth

SP1 Service ?

Parameter Name	Value	Device Default	OBiTALK Settings	
Enable	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> *	?
X_DisplayLabel	<input type="text"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	?
X_DisplayNumber	<input type="text"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	?
X_ServProvProfile	A <input type="text"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> *	?
X_RingProfile	A <input type="text"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> *	?
X_CodecProfile	A <input type="text"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> *	?
X_InboundCallRoute	ph <input type="text"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> *	?
X_RegisterEnable	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> *	?
X_AcceptSipFromRegistrarOnly	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	?
X_NoRegNoCall	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	?
X_KeepAliveEnable	<input checked="" type="checkbox"/> !	<input type="checkbox"/>	<input type="checkbox"/>	?
X_KeepAliveExpires	15 <input type="text"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	?
X_KeepAliveServer	<input type="text"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	?
X_KeepAliveServerPort	5060 <input type="text"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	?
X_KeepAliveMsgType	keep-alive <input type="text"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	?
X_CustomKeepAliveMsg	<input type="text"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	?
X_UserAgentPort	5080 <input type="text"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	?
X_UserAgentPorts	<input type="text"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	?
DirectoryNumber	<input type="text"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	?
X_DefaultRing	1 <input type="text"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	?
X_RingtoneFile	<input type="text"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	?

6. Prepare the phone for NAT/firewall traversal
 - a. Find the IP address of the phone by, for example, dialing *** and then entering 1 for basic network status.
 - b. Using a web browser navigate to the following URL
`http://ip_address_of_phone`
 - c. Default username/password for access is: admin/admin.
 - d. Go to Service Providers -> ITSP Profile A -> SIP, and enable the *X_DiscoverPublicAddress* setting if it is not already enabled. Click on 'Submit'.

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+	Status	X_ProxyServerRedundancy	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
+	OBIWiFi Configuration	X_SecondaryRegistration	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
+	System Management	X_CheckPrimaryFallbackInterval	60	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
+	Service Providers	X_CheckSecondaryFallbackInterval	60	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
-	ITSP Profile A	X_ProxyFailoverResponseCodes	[(5-9):xx]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	General	X_InviteFailoverWaitRegTimer	32000	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	SIP	X_ProxyRequire		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	RTP	X_MaxForward	70	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
+	ITSP Profile B	X_AcceptLanguage		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
+	ITSP Profile C	X_DnsSrvAutoPrefix	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
+	ITSP Profile D	X_Support100rel	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
+	ITSP Profile E	X_UserEqPhone	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
+	ITSP Profile F	X_CallWaitingIndication	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
+	Voice Services	X_DiscoverPublicAddress	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
+	IP Phone	X_UsePublicAddressInVia	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
+	Codecs	X_PublicIPAddress		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
+	Tone Settings	X_UseRport	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
+	Ring Settings	X_UseCompactHeader	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
+	Star Codes	X_IncludeMessageHash	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
+	User Settings	X_EchoServer		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		X_EchoServerPort	5060	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		X_EnableRFC2543CallHold	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		X_RejectKeyResponseCode		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

7. Reboot the phone when prompted, either by clicking a Reboot button on the top-right corner of the page above, or by dialing *** on the phone and then entering 9, followed by 1 to confirm.
8. Congrats! You're Done!

The image below shows a successfully registered phone.

OBI Dashboard

My OBi Devices		OBI Number	Speed Dial	Status	[Show All]
	OBi1022	630 612 012	2	●	[Hide]
SP1	Twilio	Registered			
SP2	Not Configured				
SP3	Not Configured				
SP4	Not Configured				
SP5	Not Configured				
SP6	Not Configured				