

OBI programming: (FYI the last octet of the IP is the printer number such as P212 in the example below)

Get the OBI IP from the associated RC SIP account screen. If the OBI has not previously been set up, you need to use the phone adapter and get the IP address. Plug the adapter into either telephone port 1 or 2, engage the handset and press \* \* \* 1 – you will hear the units IP address. If the IP is not within a range you can easily get to, you can \* \* \* 4 to set the IP. Use the '\*' as the '.' And the '#' to save the entry.


Logging into the OBI is that IP followed by the port 8081 – ex: 10.1.2.212:8081

If you have to factory reset the network settings – use \*\*\*0 option **30** to enable to the web gui, (1, 1#, 1) or you'll never get to it.

Under Router Configuration:

Check the LAN settings to make sure that the Operation Mode is set to 'Bridge' – this will allow the OBI to pass-thru the data to the printer.


### LAN Settings

Parameter Name	Value	Default
CurrentRouterIPAddress		
OperationMode	Bridge 	<input type="checkbox"/>

For static, you need to take out the check marks on the WAN Setup under each section – DHCP, Gateway, IP, DNS, etc. to complete the entries.

### WAN Setup

#### Internet Settings

Parameter Name	Value	Default
AddressingType	DHCP 	<input type="checkbox"/>
IPAddress		<input type="checkbox"/>
SubnetMask		<input type="checkbox"/>
DefaultGateway		<input type="checkbox"/>
DNSServer1		<input type="checkbox"/>
DNSServer2		<input type="checkbox"/>
MACAddressClone		<input checked="" type="checkbox"/>

Time Service Settings

Add NTP server 1 and 2.

Check the LAN settings to make sure that the Operation Mode is set to 'Bridge' – this will allow the OBI to pass-thru the data to the printer. In the upper-right corner of the screen, Reboot the OBI, move the cable to the proper printer port on the switch, and check for connectivity.

## Time Service Settings?

Parameter Name	
NTPServer1	ntp1.ringcentral.com
NTPServer2	ntp2.ringcentral.com
LocalTimeZone	GMT-08:00(Pacific Time)
DaylightSavingTimeEnable	<input checked="" type="checkbox"/>
DaylightSavingTimeStart	3/14/0/02:00
DaylightSavingTimeEnd	11/7/0/02:00
DaylightSavingTimeDiff	1:00

## LAN Settings?

Parameter Name	
CurrentRouterIPAddress	
OperationMode	Bridge
RouterIPAddress	192.168.10.1
SubnetMask	255.255.255.0

## DHCP Server Settings?

Parameter Name	
Enable	<input checked="" type="checkbox"/>
ClientAddressRangeStart	192.168.10.100
MaximumClients	50
AddressLeaseTime	1440
LocalDomainName	

Auto Firmware Update and ITSP Provisioning

Add URLs

Auto Firmware

Note: Auto Firmware Update

IF ( \$FWV != 3.2.3.6768 ) FWU [https://pp.ringcentral.com/provisioning/obi/aws\\_obi302\\_3.2.3.6768/obi302/\[OBI's MAC\]/firmware/obi302.fw](https://pp.ringcentral.com/provisioning/obi/aws_obi302_3.2.3.6768/obi302/[OBI's MAC]/firmware/obi302.fw)

ITSP Provisioning

Note: ITSP Provisioning is unique to each OBI

[https://pp.ringcentral.com/provisioning/obi/OBI302/\[OBI's MAC\]/\[OBI's MAC\].xml](https://pp.ringcentral.com/provisioning/obi/OBI302/[OBI's MAC]/[OBI's MAC].xml)

## Auto Firmware Update ?

AU

Parameter Name	Value
Method	System Start
Interval	0
TimeOfDay	00:00+30
RandomDelayRange	30
FirmwareURL	IF ( \$FWV != 3.2.3.6768 ) FWU https://pp.ringcentral.com/provisioning/obi/aws_obi302_3.2.3.6768/obi302/9cadef420d70/firmware/obi3
DnsLookupType	A Record Only
DnsSrvPrefix	No Prefix
Username	
Password	
Suspend	<input type="checkbox"/>

## ITSP Provisioning ?

Parameter Name	Value
Method	Periodically
Interval	3600
TimeOfDay	00:00+30
ConfigURL	https://pp.ringcentral.com/provisioning/obi/OBI302/9CADEF420D70/9CADEF420D70.xml
DnsLookupType	A Record Only
DnsSrvPrefix	No Prefix

### Platform CA 1

Download URL = [https://pp.ringcentral.com/provisioning/obi/sbc\\_ca.crt](https://pp.ringcentral.com/provisioning/obi/sbc_ca.crt)

Common Name = ringcentral.com

FingerPrint = 72:BE:96:F0:F5:49:77:24:2A:A0:AD:9E:88:86:38:82:42:6D:6D:57

### Platform CA 1

Parameter Name	Value
DownloadURL	https://pp.ringcentral.com/provisioning/obi/sbc_ca.crt
MDSCheckSum	
CommonName	ringcentral.com
FingerPrint	72:BE:96:F0:F5:49:77:24:2A:A0:AD:9E:88:86:38:82:42:6D:6D:57
Obsolete	<input type="checkbox"/>

### ITSP Profile A

#### General

DTMFMethod= RFC2833

DigitMap= ( \*9x | \*8x | \*8x\*[1-9]x. | \*85\*xxxxxxx | \*69 | \*86 | \*37 | \*8xx | \*0x S2 x. | #x S2 x. | 611S2 | +xxxx.S2 | 1[2-9]xx[2-9]xxxxxS0 | <:1> [2-9]xx[2-9]xxxxxS0 | 011xxxx.S2 | 911S0 | <:1949> [2-9]xxxxxS2 | xx.S2 )

#### SIP

ProxyServer= sip.ringcentral.com

ProxyServerPort= 5060

ProxyServerTransport= TCP

RegistrarServerPort=5060

OutboundProxy= sip112-291.ringcentral.com

OutboundProxyPort=5090

RegistrationPeriod=3600

RegisterExpires=3600

The rest of the settings on the ITSP Profile A page are default.

SIP	
Parameter Name	
ProxyServer	sip.ringcentral.com
ProxyServerPort	5060
ProxyServerTransport	TCP
RegistrarServer	
RegistrarServerPort	5060
UserAgentDomain	
OutboundProxy	sip112-291.ringcentral.com
OutboundProxyPort	5090
X_OutboundProxyTransport	Follow ProxyServerTransport
X_TLSSecurityProfile	1
X_UserAgentContactFollowProxyServerTransport	<input type="checkbox"/>
X_BypassOutboundProxyInCall	<input type="checkbox"/>
RegistrationPeriod	3600
X_RegistrationMargin	
TimerT1	500
TimerT2	4000
TimerT4	5000
TimerA	500
TimerB	32000
TimerD	32000
TimerE	500
TimerF	32000
TimerG	500
TimerH	32000
TimerI	5000
TimerJ	32000
TimerK	5000
InviteExpires	60
ReInviteExpires	10
RegisterExpires	3600

## RTP

All default

## RTCP

Enable gets a check box

TxRepeatInterval=0

X\_VqPublishEnable gets a check box

X\_VqPublishUrl= [rtcpxr@rtcpxr.ringcentral.com](mailto:rtcpxr@rtcpxr.ringcentral.com)

Everything else under RTCP is default

## Voice Services

### SP1 Service

Enable gets a check box

X\_UserAgentPort= 5184

## SIP Credentials

AuthUserName= unprovisioned

URI= unprovisioned

X\_ContactUserID= unprovisioned

Calling Features

CallerIDName= PU-rmvd

MaxSessions= 4

MWIEnable Gets a check box

MWIEnable2 Gets a check box

X\_VMWIEnable Gets a check box

X\_VMWIEnable2 Gets a check box

MessageWaiting Gets a check box

Codecs

Codec Profile A

G711U Codec

BitRate= 64000

Enable Gets a check box

Priority= 1

G729 Codec

BitRate= 8000

Enable Gets a check box

Priority= 2

Tone Settings

Tone Profile A

Dial Tone

TonePattern= 350-19,440-19;10

Ringback Tone

TonePattern= 440-19,480-19;(2+4)

## Busy Tone

TonePattern= 480-19,620-19;10;(.5+.5)

## Reorder Tone

TonePattern= 480-19,620-19;10;(.25+.25)

## Stutter Tone

TonePattern= 350-19,440-19;10;2(.1+.1);()

The rest of the tone settings are default

## Ring Settings

### Ring Profile A

#### Ring Pattern 1

RingPattern= 100;(2+4)

#### Ring Pattern 2

RingPattern= 100;(.3+.2,1+.2,.3+4)

#### Ring Pattern 3

RingPattern= 100;(.8+.4,.8+4)

#### Ring Pattern 4

RingPattern= 100;(.4+.2,.3+.2,.8+4)

#### Ring Pattern 5

RingPattern= 100;(.2+.2,.2+.2,.2+.2,1+4)

The rest of the ring settings are default