

REPLACING FIOS VOIP

INTRODUCTION

Several months ago I discovered that a considerable amount of money could be saved on my Verizon monthly bill by dropping the phone portion of my triple play FIOS. The requirements for a new telephone provider boiled down to:

1. Saving money,
2. Reliability, quality and accessibility (we have relatives overseas) were not to be compromised and,
3. Our physical location and arrangement of home telephones were to be unaltered.

VOIP technology appeared to be the most promising approach to accomplish this. I selected a service provider, after a cost and reliability discovery search, and proceeded to test the service. Needless to say, both my wife and I were skeptical of ending a 50 year association with Verizon POTS.

The results were spectacular and a month after starting the tests I ported my 50 year old POTS number to the new VOIP service. Not only did the service completely meet our requirements but we accrued some additional benefits that were very significant for us:

1. Portability and
2. Ease of adding and deleting new phone numbers.

REQUIREMENTS

MY

- REDUCED COST**
- SERVICE RELIABILITY**

Outages

Billing

- VOICE QUALITY**

- ACCESSABILITY**

Problem Resolution

Statistics

- EASE OF USE**

Overseas Calling

Adding phone numbers

VOIP

INTERNET ACCESS (anywhere)

At least 80 kilobits/ second service

Router – wireless &/or RJ45 interface

VOIP SERVICE PROVIDER

ATA

SOME DEFINITIONS

.POTS - Plain Old Telephone Service.

.PSTN - Public Switched Telephone Network.

.SIP - Session Initiation Protocol:

SIP is an internet signaling protocol for creating, modifying and terminating sessions with one or more participants.

These sessions can include Internet telephone calls, multimedia distribution, and multimedia conferences.

.VOIP - Voice Over Internet Protocol:

While traditional telephone service uses analog technology to place audio frequencies on a wire, VOIP digitizes the sound of your voice into packets of data. In milliseconds, these data packets are sent over the Internet. When the data reaches the final destination, it is converted back to sound. If VOIP is used to call someone on the traditional phone PSTN the VOIP call is converted to sound once it reaches the network and the call is routed normally.

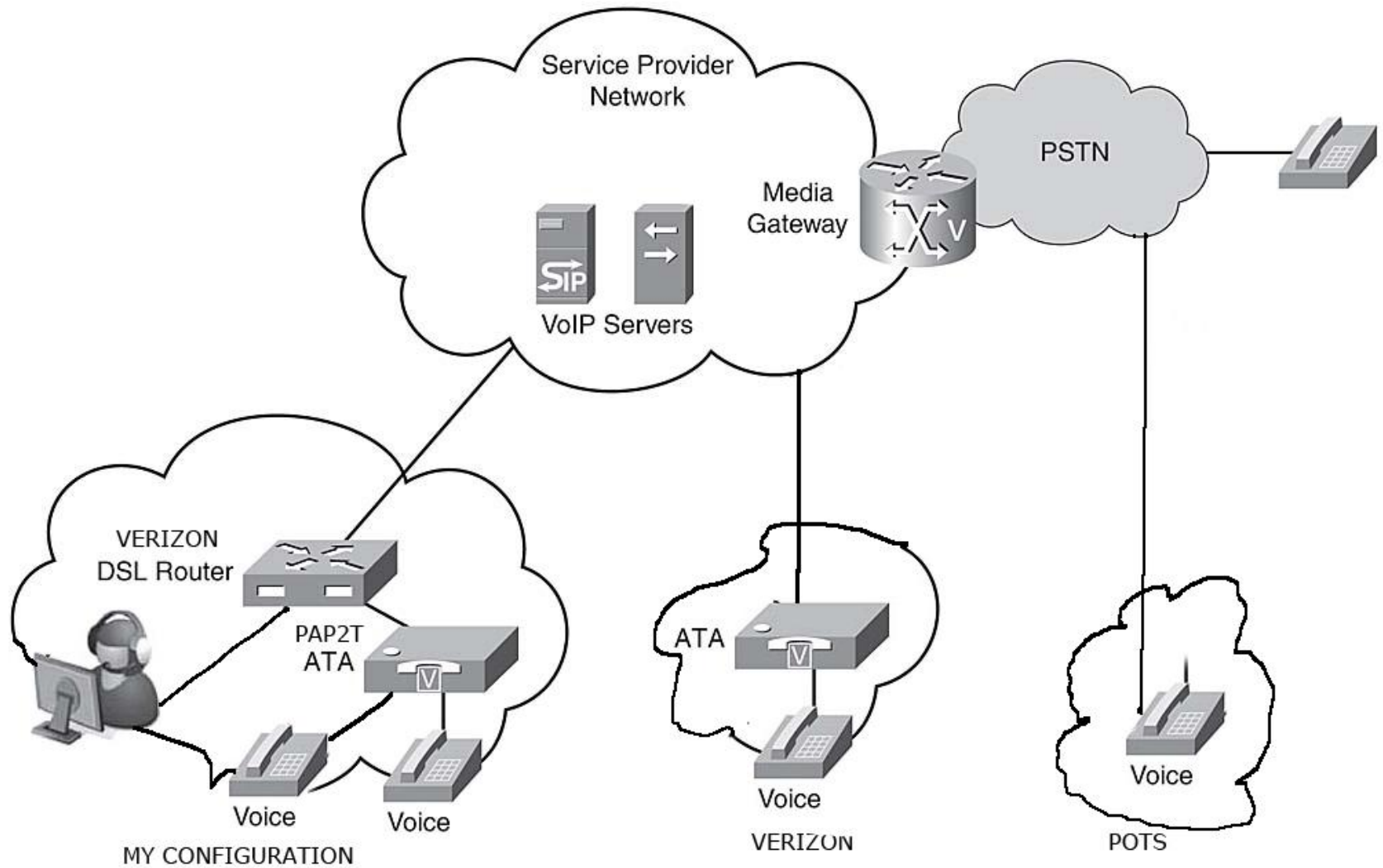
.ATA - Analog Telephone Adapter:

An ATA is a device used to connect one or more standard analog telephones to a digital telephone system. An ATA is connected between an IP network (such as a broadband connection) and an existing telephone jack in order to provide service nearly indistinguishable from PSTN providers on all the other telephone jacks in the residence.

OSI INTERNET COMMUNICATIONS MODEL

Application	User interface
Presentation	Data formatting
Session	Establish & maint connect
Transport	TCP - Accurate data
Network	IP - Routers
Data Link	MAC - Switches
Physical	Signals - Cables

HOW VOIP WORKS



SELECTING A SERVICE PROVIDER

PROVIDER	INITIAL COST	COST/ MIN	COST/ MONTH	PROBLEM RESOLUTION	RELIABILITY	CALL QUALITY	COMPATIBILITY				UK	INDIA
							POTS	PHONE	WINDOWS	IOS	ANDROID	
VOIP.MS	\$55.00		\$6.95	G	G	G	Y	Y	Y	Y	\$0.008	\$0.024
VERIZON FIOS			\$50.00	F	G	G	Y	N	N	N	\$0.080	\$0.280
MAGICJACK+	\$70.00		\$2.50	P	F to P	F to P	Y	N	Y	N	\$0.020	\$0.050
VONAGE			\$25.99	G to F	G	G	Y	N	N	N	\$0.040	\$0.150
SKYPE	\$0.00	\$0.03	\$0.00	P	F to P	F to P	N	Y	Y	Y	\$0.026	\$0.106

Note #1: One time portage costs are the same for all providers

Note #2: Call services are the same for all providers

Note #3: Portability is the same for all providers except verizon

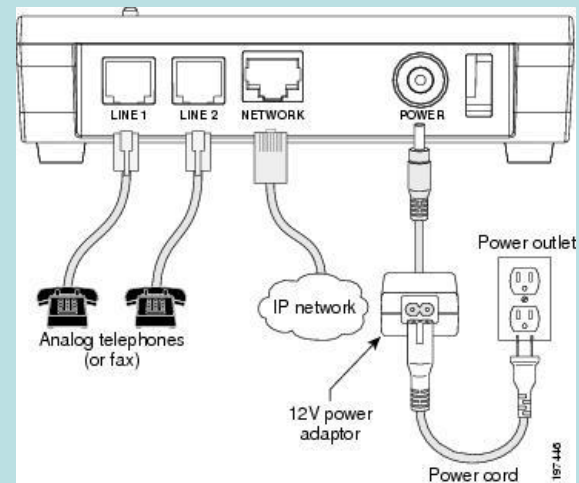
Note #4: Extension access is the same for all providers f wireless home phones are used

VOIP HARDWARE CONFIGURATION

HOME, INDIA, SENEGAL



CISCO's PAP2T ATA



MY RESULTS with VOIP.MS

- One time costs:

 - Cisco PAP2T-NA ATA ~ 30\$

 - Porting phone number – 25\$

 - 911 registration – 1.50\$

- Monthly costs (choice of 2 plans):

 - 6.95\$/ month 0.000 \$/minute or

 - 1.49\$/month 0.015 \$/minute (BE = 364 min/mo)

- Portability for use any where in the world where internet access is available

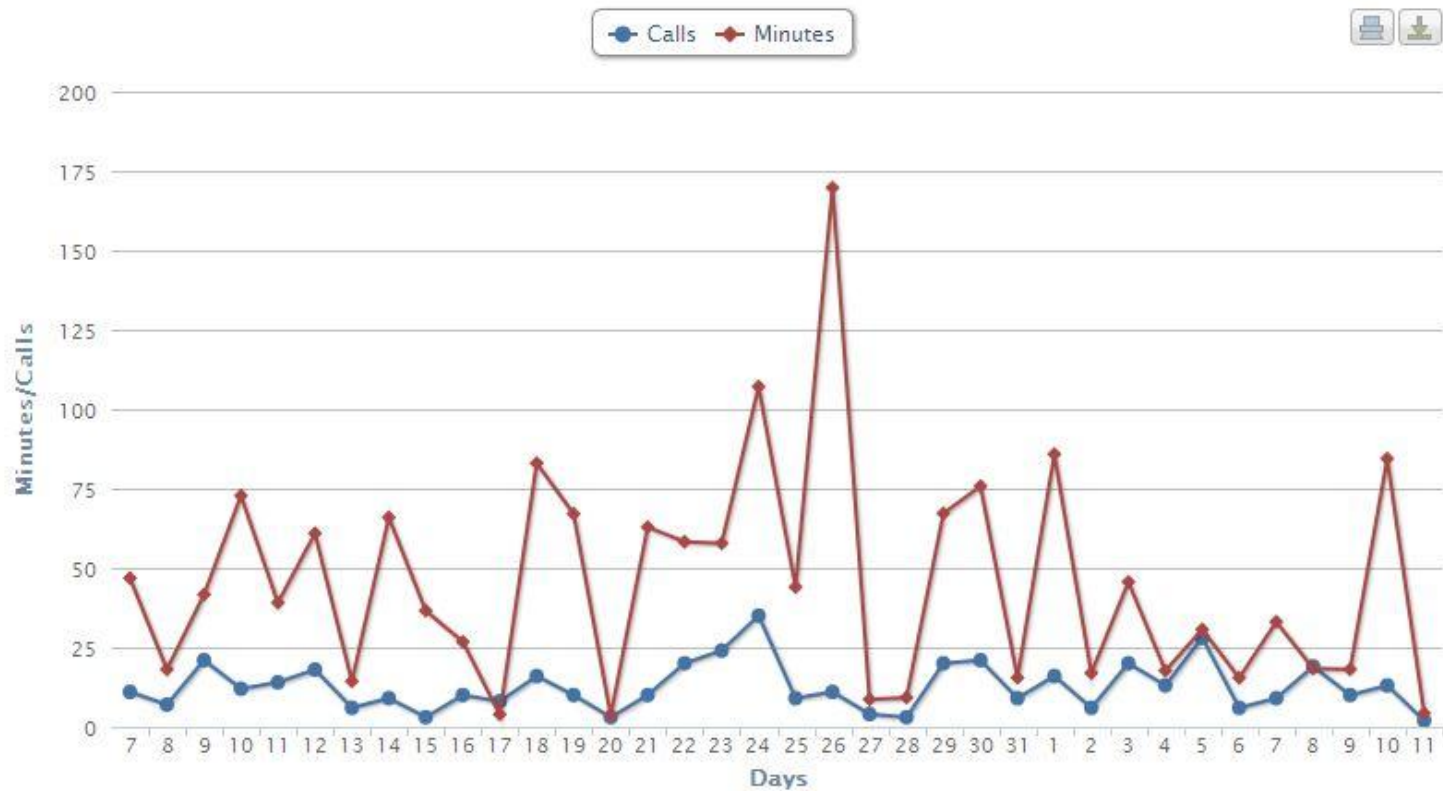
- Reduced telephone costs from 50\$ to 7\$ per month

- Same services quality and reliability

- One + four US phone numbers

MY CALL USAGE

Calls and Minutes - 2012-08-01 - 2012-08-31



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Voice

Phone Adapter with 2 Ports for Voice-Over-IP

PAP2

Info System SIP Regional Line 1 Line 2 User 1 User 2

Basic View [\(switch to advanced view\)](#)

[User Login](#)

SIP Settings

Line Enable:

SIP Port:

Proxy and Registration

Proxy:

Register:

Make Call Without Reg:

Register Expires:

Ans Call Without Reg:

Subscriber Information

Display Name:

User ID:

Password:

Use Auth ID:

Auth ID:

Supplementary Service Subscription

Call Waiting Serv:

Block CID Serv:

Block ANC Serv:

Dist Ring Serv:

Cfwd All Serv:

Cfwd Busy Serv:

Cfwd No Ans Serv:

Cfwd Sel Serv:

Cfwd Last Serv:

Block Last Serv:

Accept Last Serv:

DND Serv:

CID Serv:

CWCID Serv:

Call Return Serv:

Call Back Serv:

Three Way Call Serv:

Three Way Conf Serv:

Attn Transfer Serv:

Unattn Transfer Serv:

MWI Serv:

VMWI Serv:

Audio Configuration

Preferred Codec:

Silence Supp Enable:

Use Pref Codec Only:

FAX CED Detect Enable:

DTMF Tx Method:

Save Settings

Cancel Settings