VOIP @ RHC

1

A. J. Gaskell

March 8, 2018

VOIP - RHC

OBI (OBIHAI) – GOOGLE VOICE

BASICS

HARDWARE & PROVIDERS

IMPLEMENTING – RHC

WIRING

PORTING

COSTS

PROS & CONS

SUMMARY

2

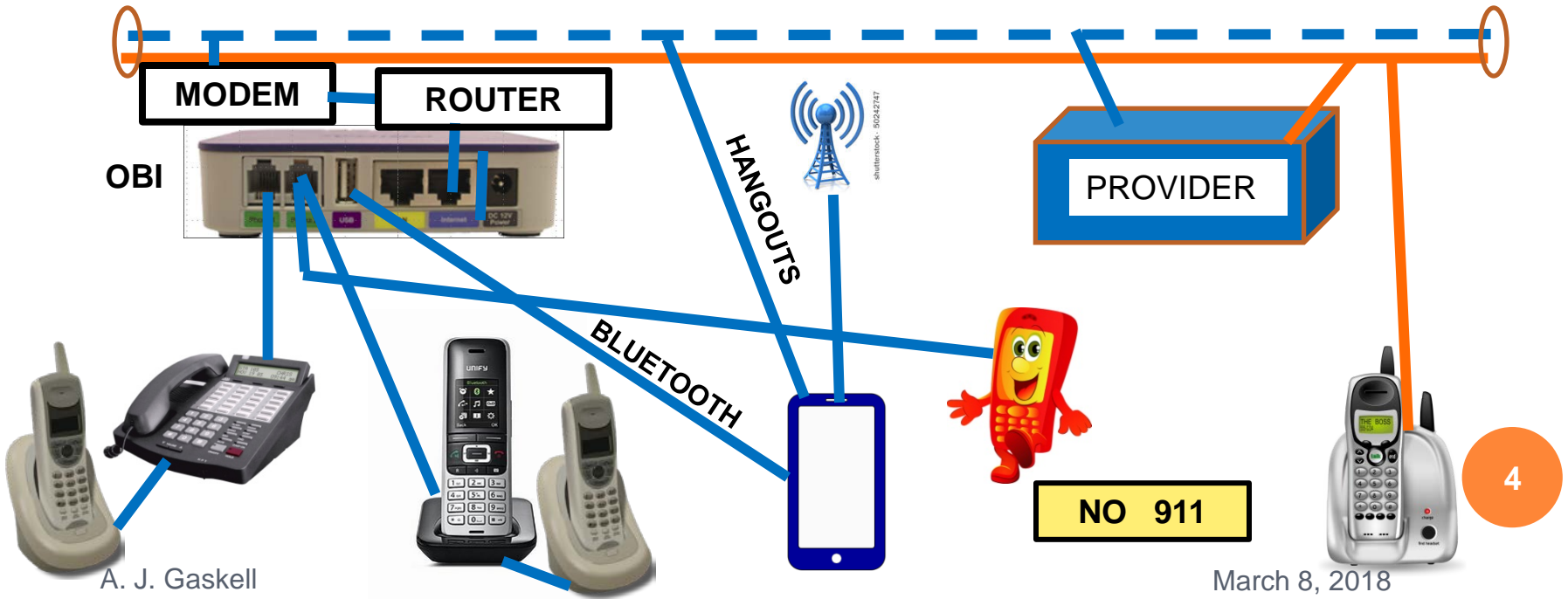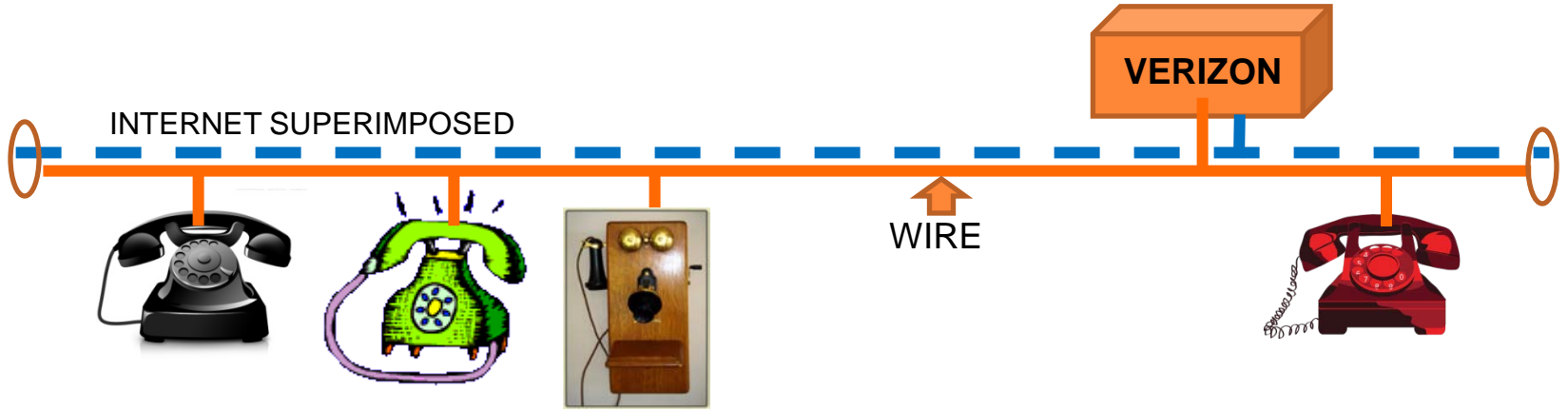A. J. Gaskell

MOTIVATION

Verizon charging ~ $40 / mo – w/ taxes
        less $20 credit for (24) mo
                yielding a net cost of ~ $20/m0 = $240/ yr
                        jumping back to $480/yr w/o credit.
        "poor" service

Obi (VOIP) offered an "almost" equal service for $0 mo, zero usage fees, with $75 cap and $40 misc. ROI = 0.24 yr or 2.6 mos.

HOOK-UP

INTERNET SUPERIMPOSED

VERIZON

WIRE

MODEM

ROUTER

OBI

HANGOUTS

BLUETOOTH

PROVIDER

NO 911

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OBI202

5" X 5" X1.5"

GOOGLE   VOICE

6

Installation

Amazingly Simple

You only need:

1. OBi Device

2. Google Voice Account

3. Telephone

How it works

Setup:

1. Sign-in to your Gmail account

2. Get a Google Voice number

3. Get an OBiTALK account

4. Add your OBi device to OBiTALK

5. Start calling

Google Voice
Premium Features

Place and Receive Calls on Regular Phones

Once Google Voice is configured on the Obi (web access from browser required for initial set-up), you can start calling from your regular 'house' phone.

Free Calling

Free Calls to US and Canada – Calling the U.S. is free from the U.S. & Canada and 1¢ per minute from everywhere else.

Call Internationally at an Incredible Low Rate

Call internationally at Amazingly Low Rates to Over 150 Destinations– International calling rates are out of this world with per minute rates starting at 1¢ to China, Mexico, Brazil and 150 other destinations – with no connection charge.

One number for all of your phones

Now you never have to miss another important phone call. When someone calls your number, it will ring all of your other phones connected to Obi devices and even Hangouts on your mobile phone and computer.

Define which phones ring

You can define which phone will ring based on who's calling. Google Voice use smart technology to route your calls. So, if you're already on a Google Voice call, Google Voice will recognize it and use call waiting to reach you on the phone you're on.

Block Unwanted Calls

Send calls and text identified as spam to spam folder with Google Voice Global Spam Filtering.

Custom voicemail greetings

You also have the freedom to set up custom voicemail greetings based on who is calling you e.g. your friends, family, and colleagues.

Voicemail that acts like email

You can have your voice messages transcribed and sent directly to your inbox or sent to your phone as a text message.

Flexible Bridging

Receive calls to your Google Voice number then use the Obi device to bridge to your iPhone, iPad, iPod touch and Android devices using Wi-Fi, 3G or 4G (without using your cell minutes).

3-way Calling

Lets you talk to two person at the same time, even if it's international calls.

Call Screening

Call screening lets you know who's calling your Google number before you accept the call. It also allows you options on how to handle your calls so that you can choose to accept it, send the caller to voicemail and Listenin ™, or record the call.

Call waiting

Answer an incoming call when you are already engaged in an active call.

Call Recording

Once Call Recording feature is activated under Google Voice settings, you will be able to record your current calls by pressing #4.

Learn More →

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8

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PROVIDERS

Can I use any other VoIP Service Providers instead of Google Voice?
Yes. The OBi is an unlocked device, meaning you may use it with many other VoIP
Service Providers. Here is a partial list of some popular services providers:

Anveo
Callcentric
CallWithUs   All   ~ $8/mo
Engin
freephoneline
InPhonex
RingCentral
Sipgate
Vitelity
voip.ms
VOIPo

9

OBi Star Code Features

OBi Star Code Enabled Features Apply to All Voice Services

*05 Redial Last Called Number Until Ring or Answer (Periodically)

*06 Cancel the Last Repeat Dial Request

*07 Redial

*69 Call Return

*81 Block Caller ID (Persistent Mode)

*82 Unblock Caller ID (Persistent Mode)

*67 Block Caller ID (One Time)

*68 Unblock Caller ID (One Time)

*72 Call Forward All (Enter Number + #)

*73 Disable Call Forward All

*60 Call Forward on Busy (Enter Number + #)

*61 Disable Call Forward in Busy

*62 Call Forward on No Answer (Enter Number + #)

*63 Disable Call Forward No Answer

*77 Block Anonymous Calls

*87 Unblock Anonymous Calls

*56 Enable Call Waiting

*57 Disable Call Waiting

*66 Repeat Dial

*86 Disable Repeat Dial

*78 Do Not Disturb - Turn On

*79 Do Not Disturb – Disable

*74 Speed Dial Set-Up (Enter SD No. [1-99] then Tel No. + #) ∞

*75 Speed Dial Read-Back (Enter SD No.)

*76 Clear a Speed Dial (Enter SD No.)

*96 Barge-In

*98 Blind Transfer

*03 Called OBi Will Loopback Media

*04 Called OBi Will Loopback RTP Packets

*4711 Use G711 Only on the Next Outbound Call

*4729 Use G729 Only on the Next Outbound Call

Al Gaskell - gmail

From: Google Voice [voice-noreply@google.com]
Sent: Tuesday, May 31, 2016 5:47 PM
To: gaskellal@gmail.com
Subject: New voicemail from (512) 509-0200 at 5:43 PM

Voicemail from: (512) 509-0200 at 5:43 PM   Google voice

Hello, this is Baler Scott and white calling to confirm an appointment, Karen has a scheduled appointment on Thursday june 2nd with an arrival time of 2:45 p.m.. At round Rock clinic 42 located at 302 University Boulevard and roundrock if you have any questions concerning your appointment. Please call us during normal business hours that 500 12 5920. Thank you. Hello, this is Baler Scott and white calling to confirm an appointment, Karen has a scheduled appointment on Thursday june 2nd with an arrival time of 2:45 p.m.. At round Rock clinic 42 located at 302 University Boulevard and roundrock if you have any questions concerning your appointment. Please call us during normal business hours at 512 509200. Thank you.
Play message
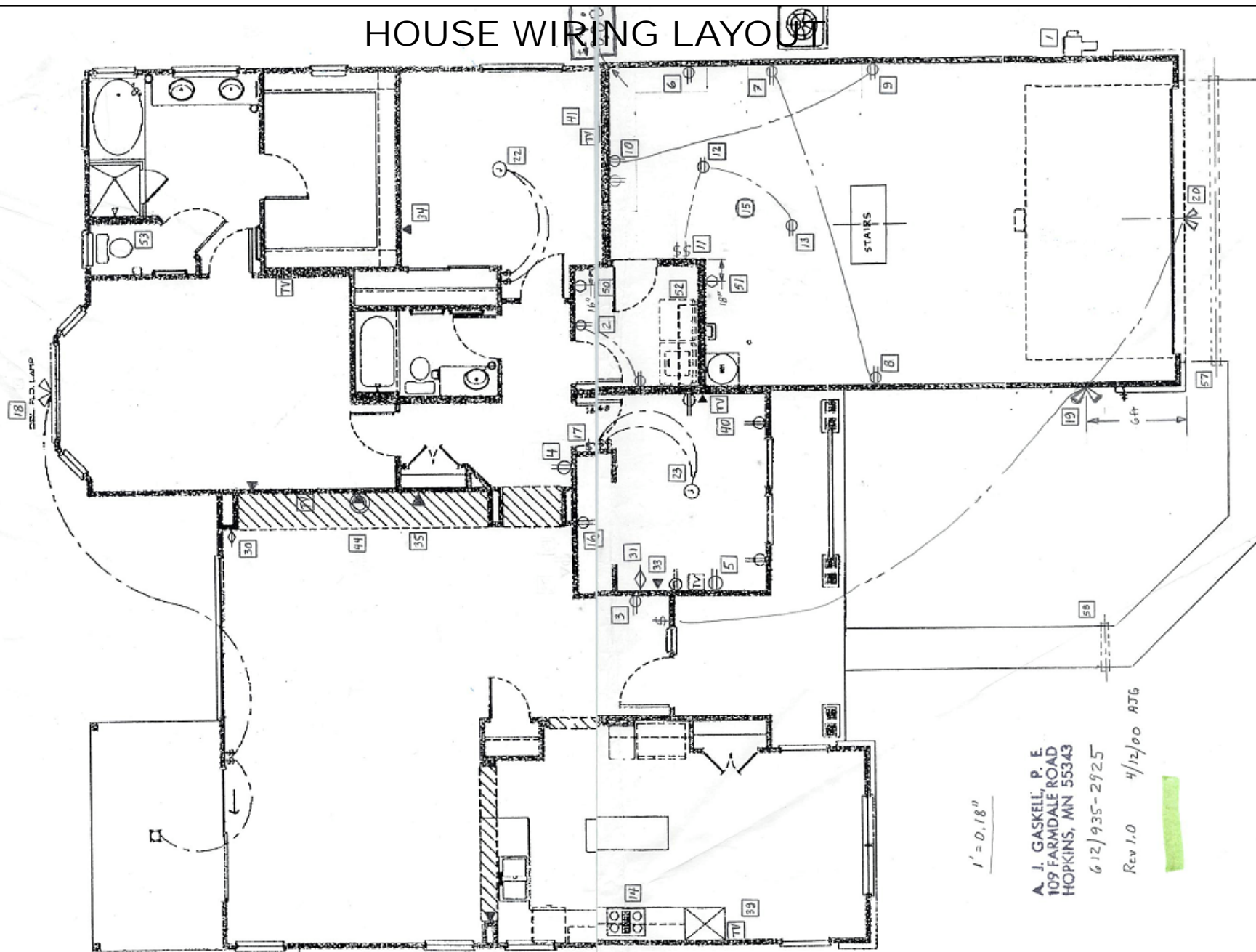
11

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HOUSE WIRING LAYOUT

TELEPHONE JCT BOX

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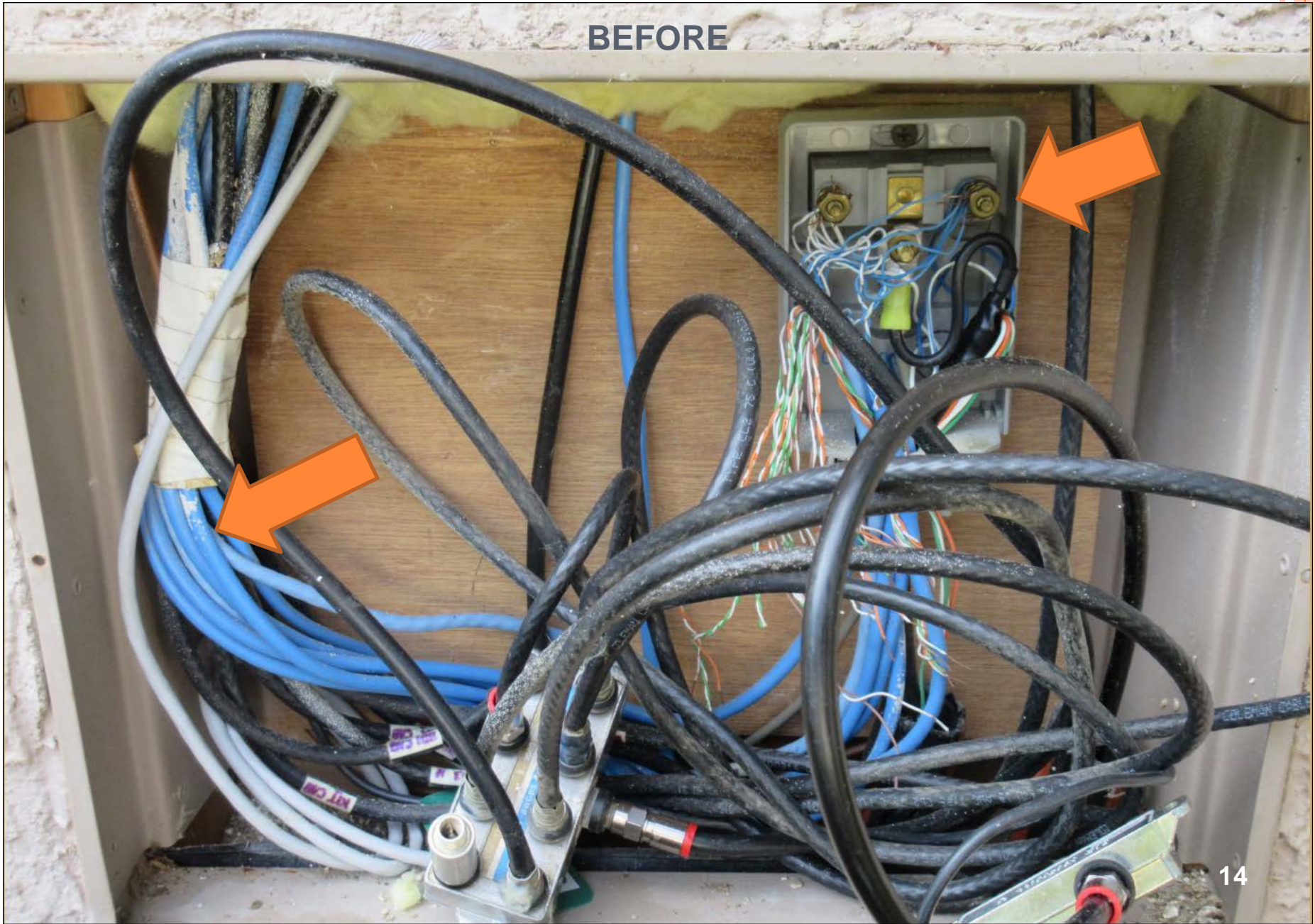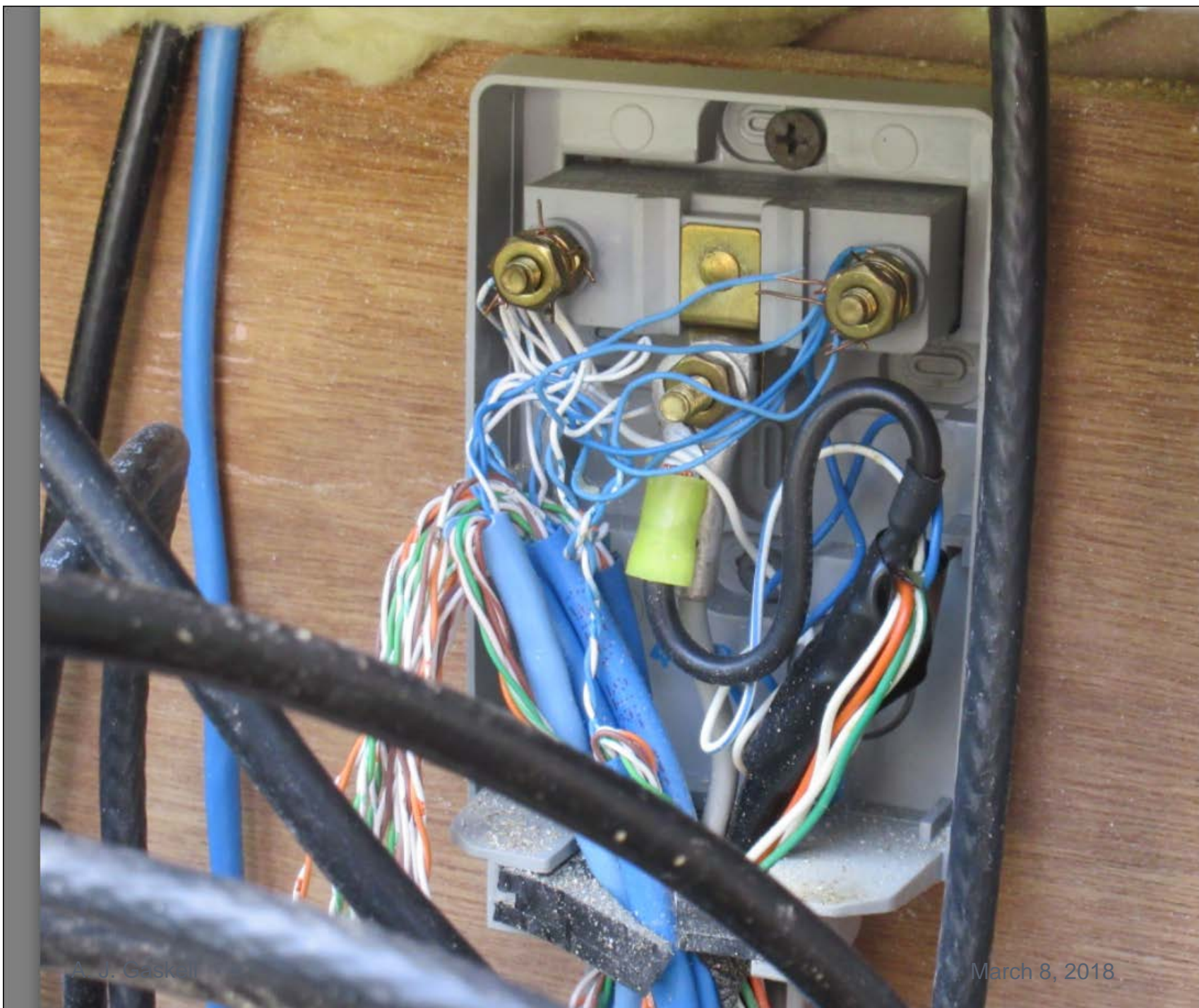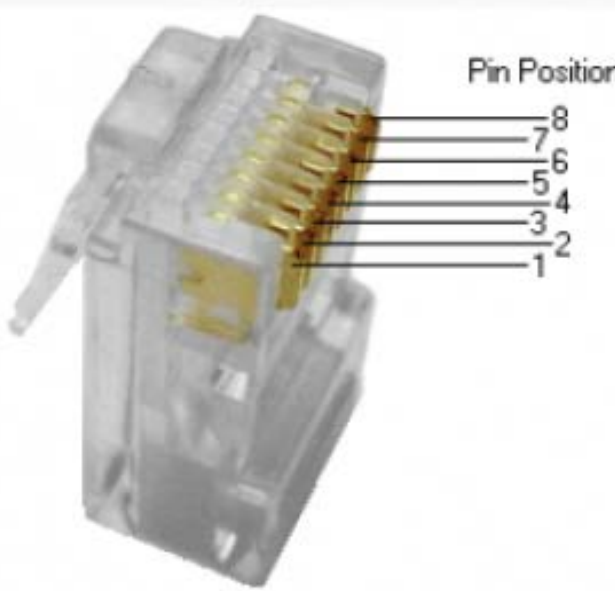
Two pairs crossed, two pairs uncrossed
10BASE-T or 100BASE-TX crossover

Pin	Connection 1: T568A			Connection 2: T568B			Pins on plug face
	signal	pair	color	signal	pair	color	
1	BI_DA+	3	white/green stripe	BI_DB+	2	white/orange stripe	
2	BI_DA-	3	green solid	BI_DB-	2	orange solid	
3	BI_DB+	2	white/orange stripe	BI_DA+	3	white/green stripe	
4		1	blue solid		1	blue solid	
5		1	white/blue stripe		1	white/blue stripe	
6	BI_DB-	2	orange solid	BI_DA-	3	green solid	
7		4	white/brown stripe		4	white/brown stripe	
8		4	brown solid		4	brown solid	

EIA/TIA-568A

EIA/TIA-568B

Pin Position
8
7
6
5
4
3
2
1

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Rj45 Crossover Wiring Diagram Beautiful Affordable Poe Diy

Power over Ethernet, IEEE 802.3af standards A and B

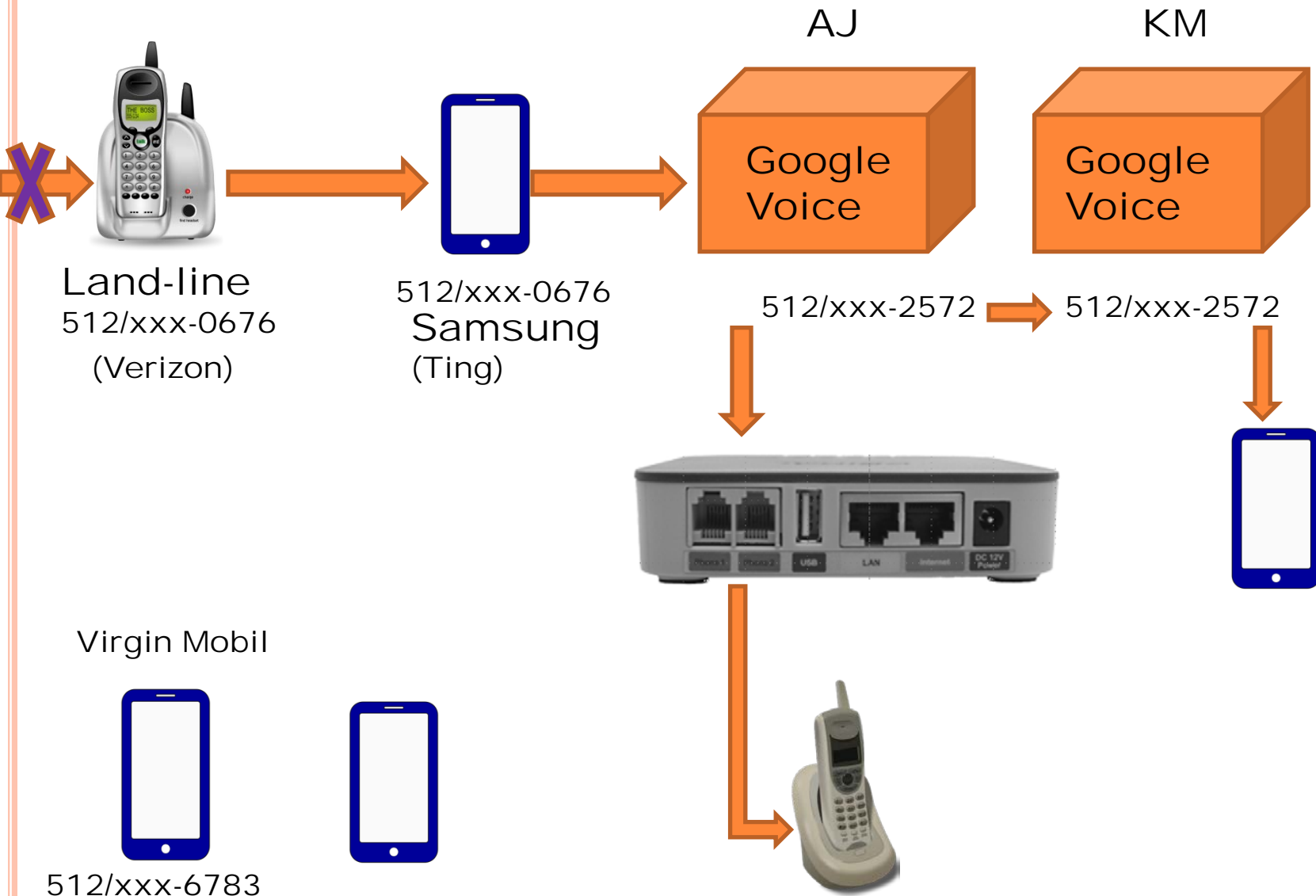| PINS on Switch	T568A Color	T568B Color	10/100 DC on Spares (mode B)	10/100 Mixed DC & Data (mode A)		1000 (1 Gigabit) DC & Bi-Data (mode B)		1000 (1 Gigabit) DC & Bi-Data (mode A)	
Pin 1	white/green stripe	white/orange stripe	Rx +	Rx +	DC +	TxRx A +		TxRx A +	DC +
Pin 2	green solid	orange solid	Rx -	Rx -	DC +	TxRx A -		TxRx A -	DC +
Pin 3	white/orange stripe	white/green stripe	Tx +	Tx +	DC -	TxRx B +		TxRx B +	DC -
Pin 4	blue solid	blue solid	DC +	unused		TxRx C +	DC +	TxRx C +	
Pin 5	white/blue stripe	white/blue stripe	DC +	unused		TxRx C -	DC +	TxRx C -	
Pin 6	orange solid	green solid	Tx -	Tx -	DC -	TxRx B -		TxRx B -	DC -
Pin 7	white/brown stripe	white/brown stripe	DC -	unused		TxRx D +	DC -	TxRx D +	
Pin 8	brown solid	brown solid	DC -	unused		TxRx D -	DC -	TxRx D -	

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17

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PORTING

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KM

Google Voice

Google Voice

Land-line
512/xxx-0676

(Verizon)

512/xxx-0676
Samsung
(Ting)

512/xxx-2572

512/xxx-2572

Virgin Mobil

512/xxx-6783
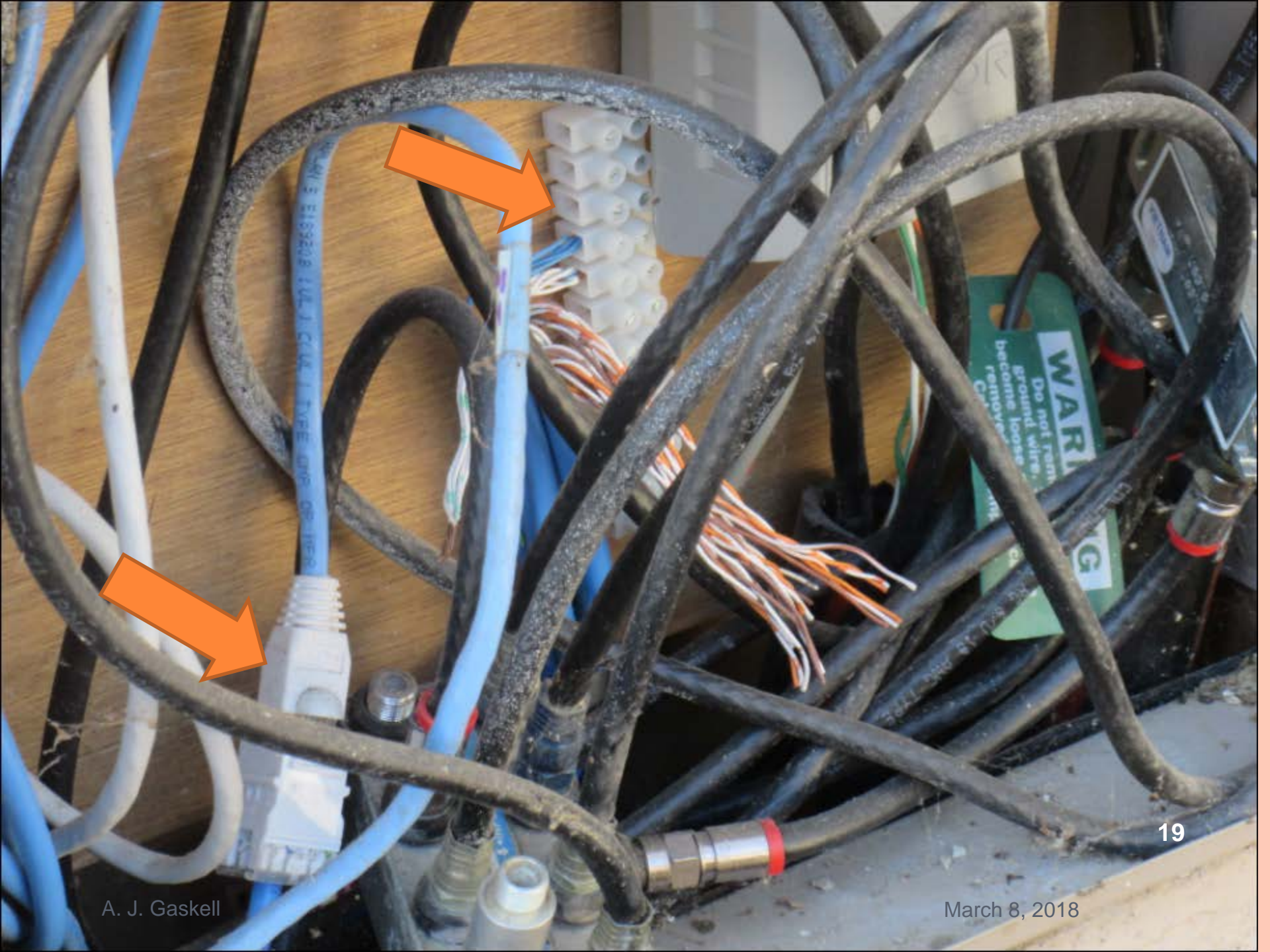
US$

	$			$
cap-obi	75		mo fees	0
porting	40		per call fees	0
			taxes	0
total	115		total	0

international usage fees / minute
0.01-0.05

@ 3 yr mark;
OBI/GoogleVoice = $115 vs. Verizon = $480 ^
Net savings = $365

PROS & CONS

PROS

       QUALITY OF SOUND
       QUALITY OF SERVICE
       COSTS – CAP, MAINTENANCE, USAGE
             NET SAVINGS
       FEATURES

CONS

       NO   911
          e911 available @ $15/yr
       SELF SERVICE.
          experienced one blank out. Had to re-install

LESSONS LEARNED

CONSIDER:

USB WIFI DONGLE PLUS SINGLE BASE
PHONE W/ THREE REMOTES.

*totally eliminates need for house
telephone hard wiring*

DEFINITELY:

MAINTAIN OLD LAND LINE NUMBER.

QUESTIONS?

THANK YOU.

THE END

A. J. Gaskell

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