

Virtual Technology Conference 2020 August 15

Saving Your Life with Wearable Technology (Part 2)

By Ronald T. Brown M.D.



Aging in Place

Goals of this presentation

To identify the risks Seniors face with independent living

How can Smart Living be a solution

The challenges of home Automation

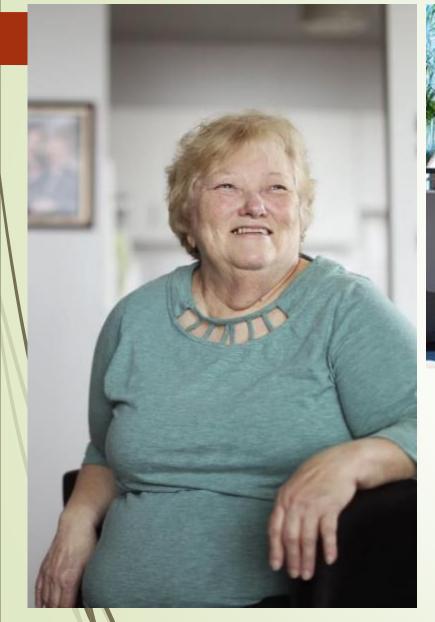
Internet Services

Your Home Network

Amazon vs Google

Social Communication

My recommendation for our fictitious senior, Mary





MARY IS 74, WIDOWED AND LIVES FULL TIME @ SILVERIDGE RV RESORT



Mary

Mary has lived at Silveridge for 7 years and has won the hearts of all the residents

She lives by herself in a Park Model with Arizona Room and has a very good friend across the street who she walks with @ 9AM every morning.

Alice and Mary walk around the Silveridge perimeter and then have a cup of tea

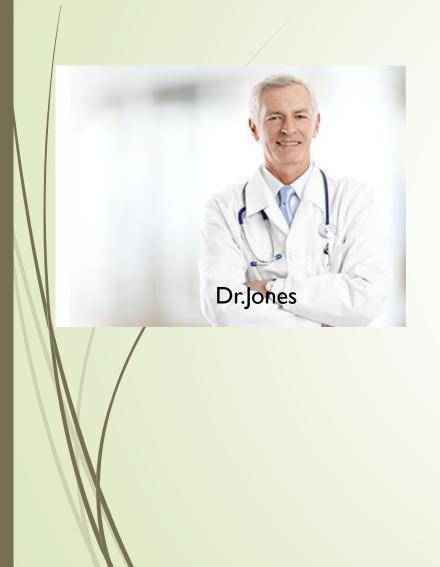
Mary is very active and is a member of the Pickle Ball club

Her highlight of the year is Monday morning meetings @ SilvercomCTC

Mary has been widowed for 12 years
Her daughter (Meg) is an accountant and lives in Palm
Desert but comes to visit once a month
Mary has pretty good computer skills and Skypes
frequently with Meg
Mary doesn't drive any more and uses Uber for
transportation



Alice



Mary's Health

Mary likes Dr. Jones who has been her Family Physician for the past 12 years

Mary sees him twice a year at his office by Fry's on Ellsworth Avenue

Mary is overweight and on a mild BP Pill

On her last physical exam Dr.Jones found her to be in excellent health And noted her BP as 146/86 with a pulse of 88 and regular.

Mary told Dr. Jones about her daily walks with Alice and would try to get in an extra game of Pickle Ball to lose weight





John

On July 2 Mary is walking home from the mail room and feels a bit "Light Headed"

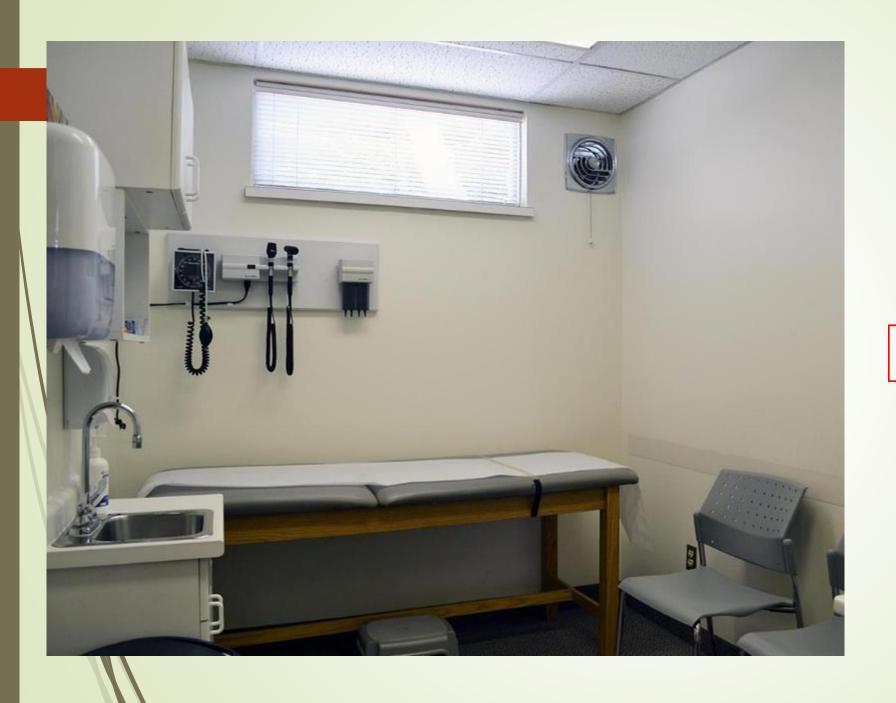
She has no Chest Pain or Palpitations but sits down on the grass.

John comes by in his golf cart and asks if she is ok.

She gets up and feels fine but he insists on taking her home in the golf cart.

The "Light Headed" feeling is gone and John phones later to make sure she is fine

Meg calls and Mary promises to see Dr. Jones tomorrow



Dr.Jones sees Mary the next day.

Her symptoms have gone and she feels fine.

Her exam was normal

BP 142/86 Pulse 86 &R

Both decided no investigations were needed

On Monday, July 17 Mary was cooking supper and felt a similar "Light Headed" feeling lasting for 30 minutes.

She had no chest pain or palpitations and the sympts went away while she rested in her Lazy Boy Chair.

She saw Dr.Jones who again found nothing wrong but did an ECG which was normal.

Because this was Mary's second episode they decided to do some investigations which would include Blood Work and a Cardiac Holter Monitor for 24 hours.

Mary had Meg coming on Friday so wanted to do the test the next week.



On Wednesday @ 2:30 AM Mary got out of Bed to Void.

While getting up off the toilet she got another "Attack" and fell to the floor and heard a "Crack" in her right hip. She was in terrible pain and wedged between the toilet and shower.

She couldn't move and called for help but no one came.

Alice found Mary @ 9 AM when she came for a walk

When EMS arrived Mary was Hypothermic, with a pulse of 46 and BP 80/60







On arrival to Banner Hospital she had a temporary pacemaker inserted in the ER.

She was transferred to ICU where she was stabilized and had a permanent pacemaker.

Her Hip was repaired and to the delight of very one Mary had an uneventful recovery

She is back doing her daily walks with Alice but has given up Pickle Ball.

What was Mary's Diagnosis?
What could Mary have done to be better prepared for a Medical Emergency
What were clues in her history that could be expanded on.

WHAT COULD MARY HAVE DONE TO BE BETTER PREPARED FOR A MEDICAL EMERGENCY





Plan for a Medical Emergency



WHAT WERE CLUES IN HER HISTORY THAT COULD BE EXPANDED ON.

- Lived in a resort that was seasonal
- Isolation
- Has Internet and some computer skills
- Has a caring daughter who visits regularly
- ■Good Medical support



WHAT WAS MARY'S DIAGNOSIS?

- ► Heart Problem Requiring a Pacemaker
- Fall at night while going to the bathroom
- Fall resulted in a fractured hip
- Hypothermia and shock almost a fatal event.

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Smart Living Solution

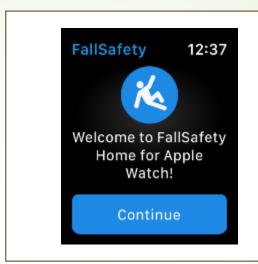
Personal Monitor – Health, Location, Notification

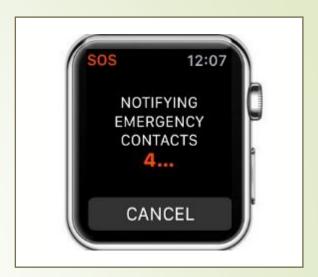
IOT devices – Home Automation safety,communication,mobility,thermostats

Peripheral Home Security door locks, alarm system, cameras

Social communication

Fall Detection and Emergency Notification









Fall Detection and Emergency Notification

Fall detection. Apple Watch Series 5 can detect that you've fallen. When an incident like this occurs a hard fall alert is delivered, and you can easily initiate a call to emergency services or dismiss the alert. If you're unresponsive after 60 seconds, the emergency call will be placed automatically. Your emergency contacts will then be notified and sent your location.



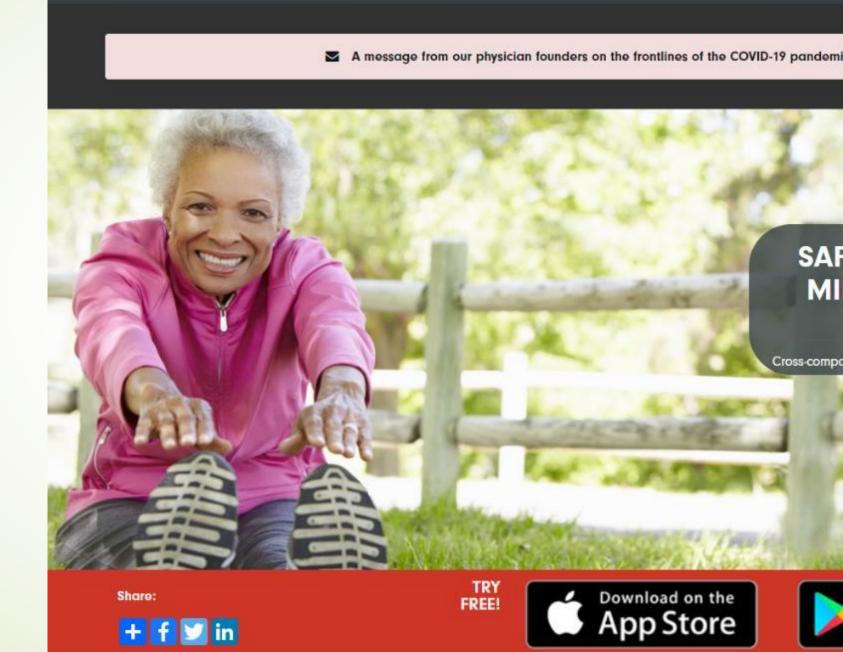
International Emergency

International emergency calling. You can complete a call to emergency services when travelling abroad. Just press and hold the side button on Apple Watch Series 5 with cellular and you'll be connected with the help you need. It even works if you're nowhere near your iPhone

FallCallLite

Medical Alert Apps

This free app provides up to five caregivers with Elder GPS location, heart rate information, battery status, pairing, and central monitoring subscription status updates



Smart Features of watches for Seniors

Level 2 Medical Device

FDA Approval

Pulse / Atrial Fibrillation

- Available now on Apple Watch Series 4 and 5
- Approved by FDA for Samsung Watch 3 8.7.2020 Not available yet

Blood Pressure Recording

Samsung only

- South Korea
- Not on Apple Watch

Fall Detection

Emergency Notification

- Apple Watch
- Samsung Watch

Blood Sugar-Diabetes

Samsung Galaxy Watch 3 - Aug-5



Apple Watch Series 5 vs Galaxy Watch

- FDA Cleared ECG and Fall Detection on Galaxy Watch not active as of 8.7.2020
- Galaxy Watch 3 runs Tizen OS and works with most Android and Apple Phones
- Apple watch is only compatible with an I-Phone
- Galaxy watch is round and Apple Watch is square
- Two Sizes Galaxy 41/45 mm Apple 40/44mm
- Galaxy watch will record Blood Pressure- Level 2 Device approved South Korea



Samsung fails to act on promises of ECG/fall detection for Active 2 Watch



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Medical Alert systems and fall detection

Medical alert systems kick into action in an emergency, calling medical personnel automatically. Most emergency alert systems offer monitoring whether your loved one is in or out of their home, too.

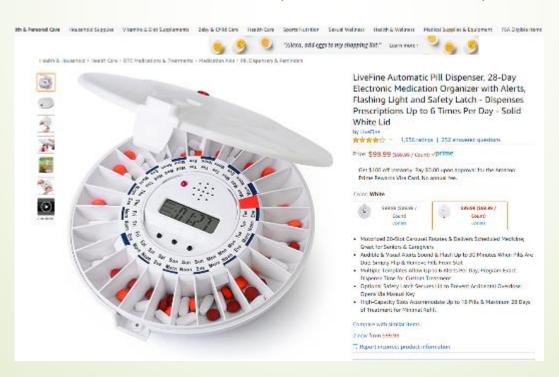


Many different options



Automatic pill dispensers

Pill dispensers no longer look like the ones you remember your grandparents using when you were a kid. These pill caddies have gotten a high-tech upgrade, and the automatic ones can even meter out the right doses and communicate with smartphones and computers.



Smart Phone Reminder

- Large Pill Organizer
- 7 to 14 days
- ► BPA Free
- Portable Containers
- Free APP



Sagely Smart XL Weekly Pill Organizer - Sleek AM/PM Twice a Day Pill Box with Free Smartphone Reminder App and 7 Day Travel Containers (Large Enough to Fit Fish Oil and Vitamin D Supplements)

by Sagely 会会会会 981 ratings | 90 answered quastions Amazon's Choice for "magnetic pill organizer"

Price: \$34.99 prime Overnight by 8AM

Get 560 off Instantly: Pay \$0.00 \$34.99 upon approval for the Amazon Prime Store Card. No annual fee.

Color: Blue/Green



- LARGE PILL ORGANIZER Dimensions: 12.5 x 5.8 x 1.5 inches. 7 day pill box on a magnetized base that fits large pills like Fish Oil, Vitamin D, Calcium, and Nulti-Vitamin supplements. Perfect for those who need an extra large pill organizer to fit all of their medications and vitamins. Please note- Turmeric can stain your lids.
- VERSATILE PILL ORGANIZER FOR 7 DAYS OR 14 DAYS Use as a 7 day
 weekly pill box for AM/PM pills twice a day or use as a 14 day pill box if
 you only take your pills once a day. With our fun & easy to use PushThrough design, use your finger to push the pills from the lid into the
 container to improve loading accuracy. The flexible lids are easy to
 open and perfect for people with arthritis and other manual dexterity

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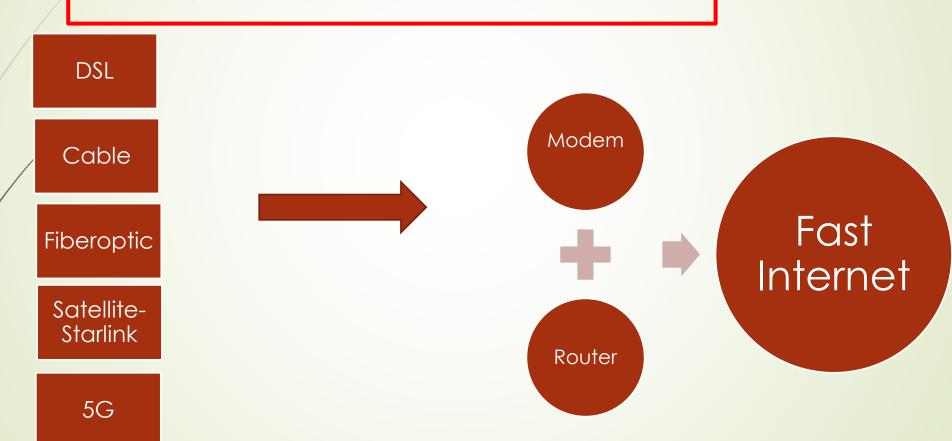
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My recommendation for our fictitious senior, Mary

You must have Fast Internet

A Hot Spot with your phone will not work



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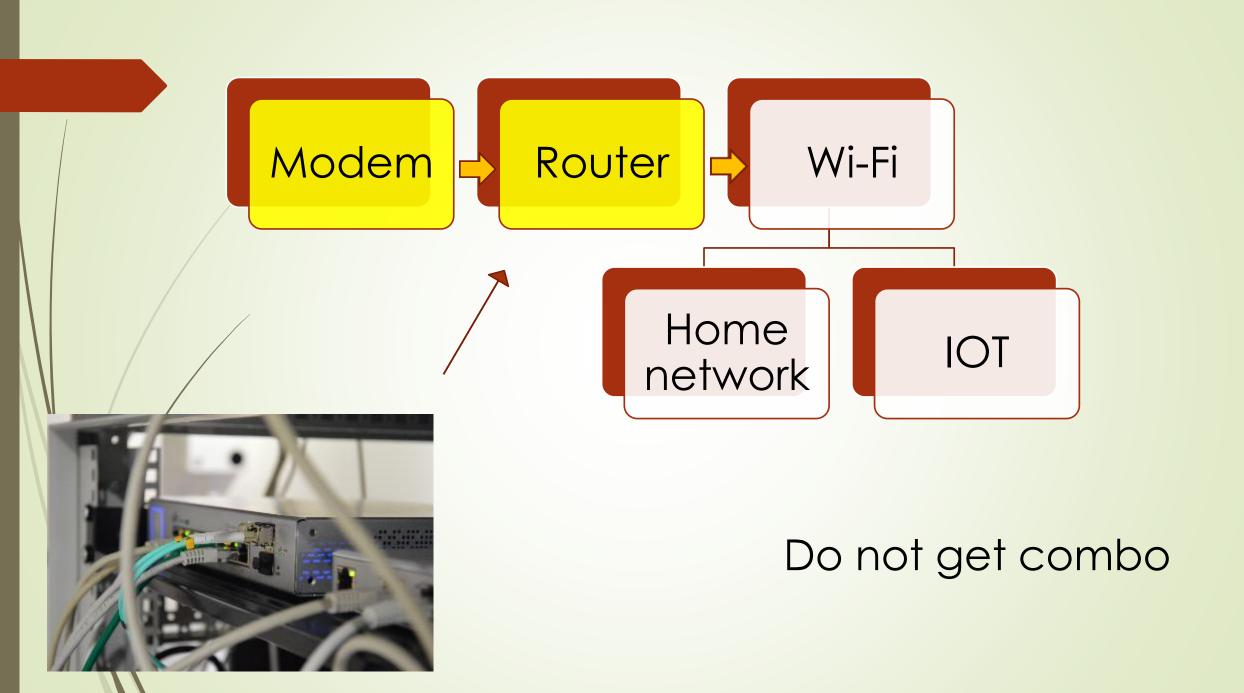
Dual Band Router

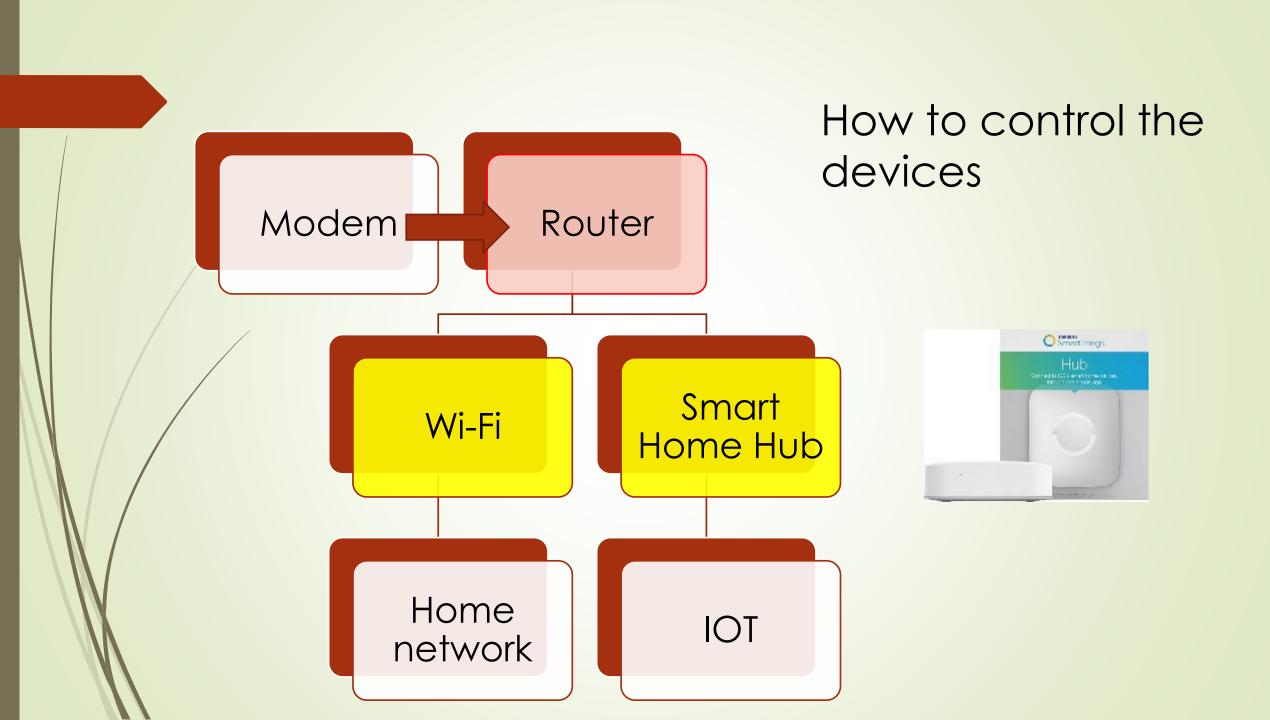


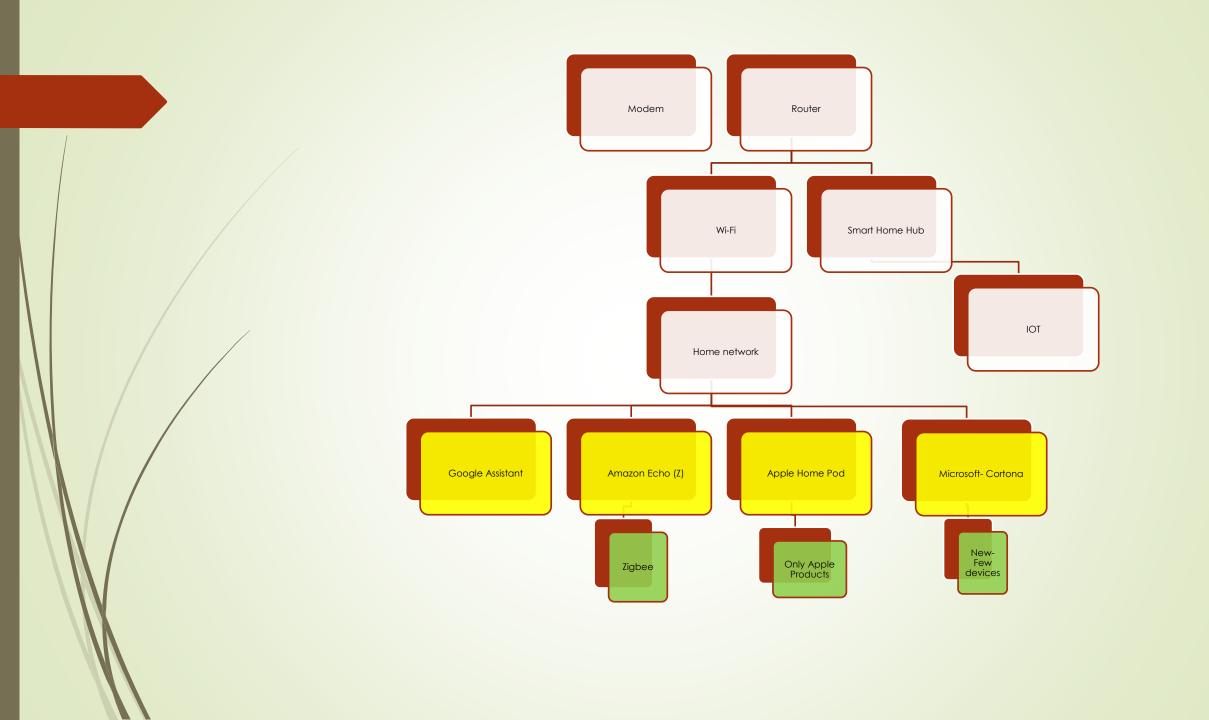
IOT devices can use both frequencies

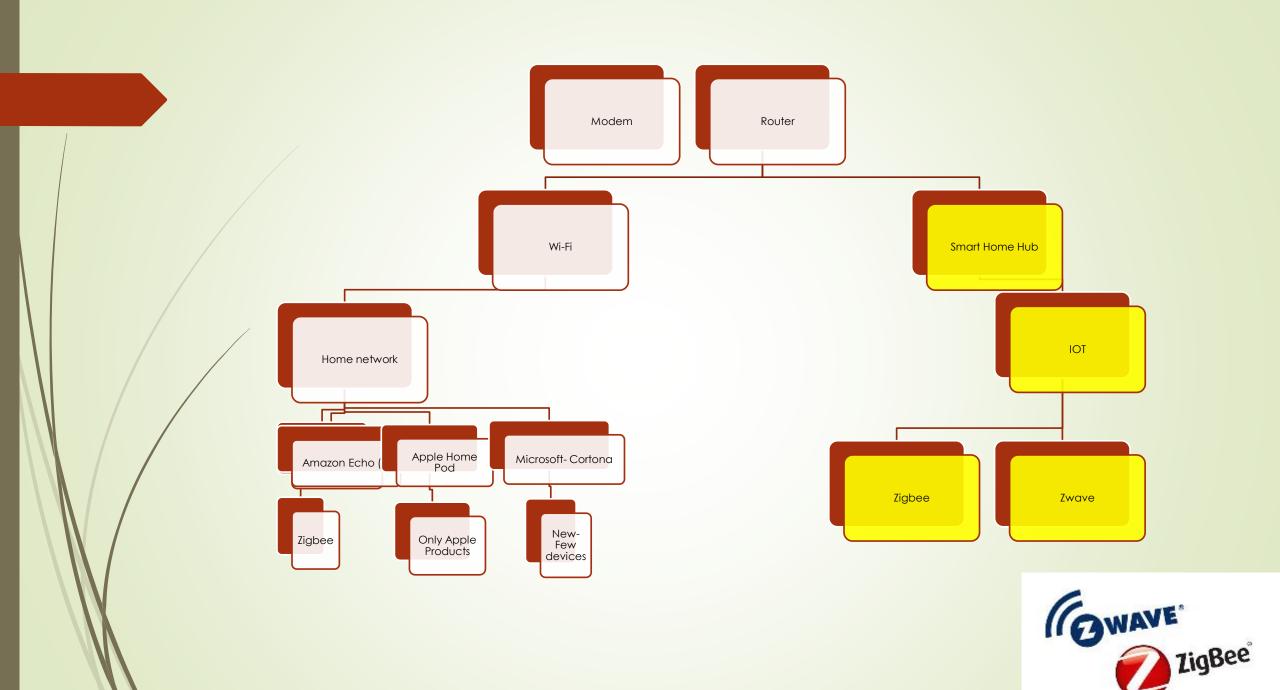


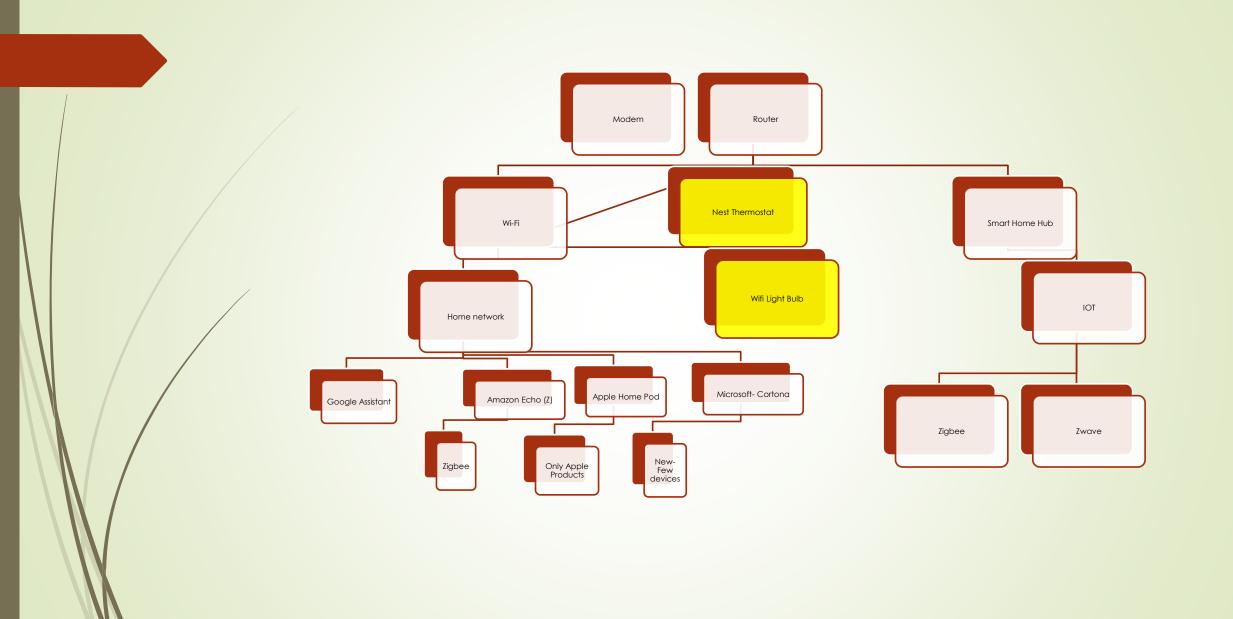
You will want find out how many devices it can connect to

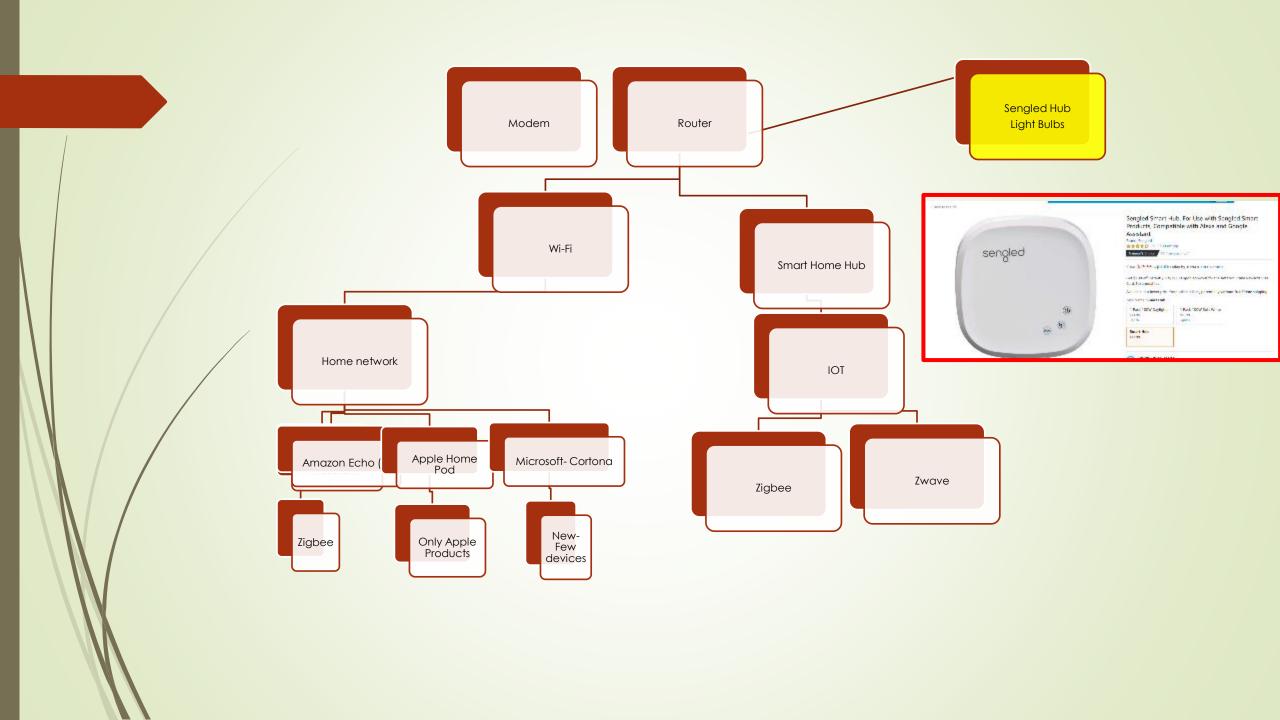












Connect up to 60 Lightbulbs



Sengled Smart light Bulb Starter Kit, Smart Bulbs that Work with Alexa & Google Home, Smart LED Light Bulb A19 Daylight (5000K), 9W (60W Equivalent), 2 Smart Bulbs & 1 Smart Hub

Brand: Sengled 会会会会会 ~ 1,934 ratings Amazon's Choice for "sengled smart hub" List Price: \$39.99 Price: \$35.99 \rime FREE One-Day & FREE Returns You Save: \$4.00 (10%) Coupon Save an extra 5% when you apply this coupon. Details Get \$100 off instantly: Pay \$0.00 upon approval for the Amazon Prime Rewards Visa Card. No annual fee. Available at a lower price from other sellers, potentially without free Prime shipping. Size Name: 2 Pack Starter Kit 2 Pack Starter Kit 1 Pack 4 Pack \$9.99 (\$2.50 / oz) \$35.99 \$38.99 (\$9.75 / Item) √prime √prime √ prime

Senaled Smart Hub Supports 2 4G & 5G 1 Connect smart light hulb to Senaled

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Amazon's Impressive lineup



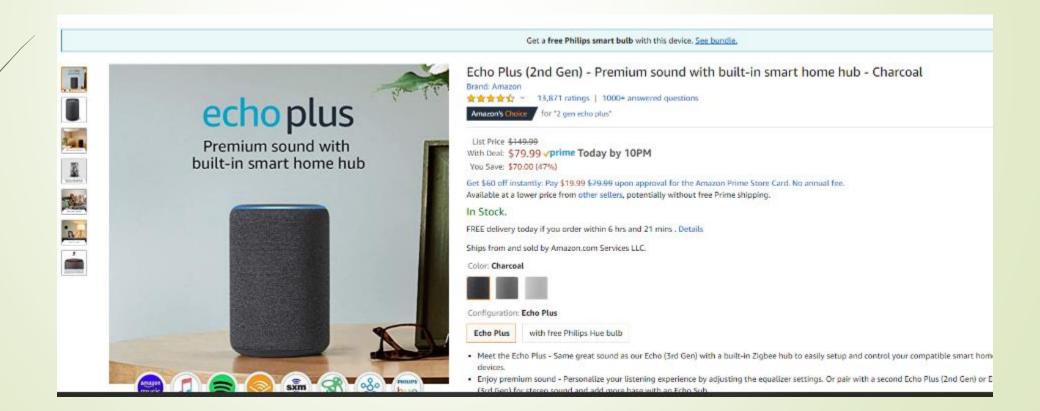






My Amazon Devices

Alexa-enabled devices like the Amazon Echo, Echo Plus, Echo Show, and Echo Spot come equipped with the built-in Zigbee hub



Echo's Drop in Feature

edited from "Tech with Brett" 16.07.2019



Google Home Products





Google Home, now known as Google Nest

- The emergency capabilities of your Google Nest include:
- Calling 911 if you're a Google Nest Aware subscribers
- Automatically connecting to the nearest 911 call center if your loved one is out and about (for a quicker response)

Choose your plan

Based on your current subscription, you'll save \$36 per year and get more history for all your devices in the same home. How is the new plan different

You'll get a refund for the time left on your current plan.

Recommended

Nest Aware

First Month Free

30 days of event video history

Intelligent Alerts Sound detection Emergency calling

\$6/month
or
\$60/year
Save \$12 annually

Nest Aware Plus

First Month Free

60 days of event video history

+ 10 days of 24/7 video history Intelligent Alerts Sound detection Emergency calling

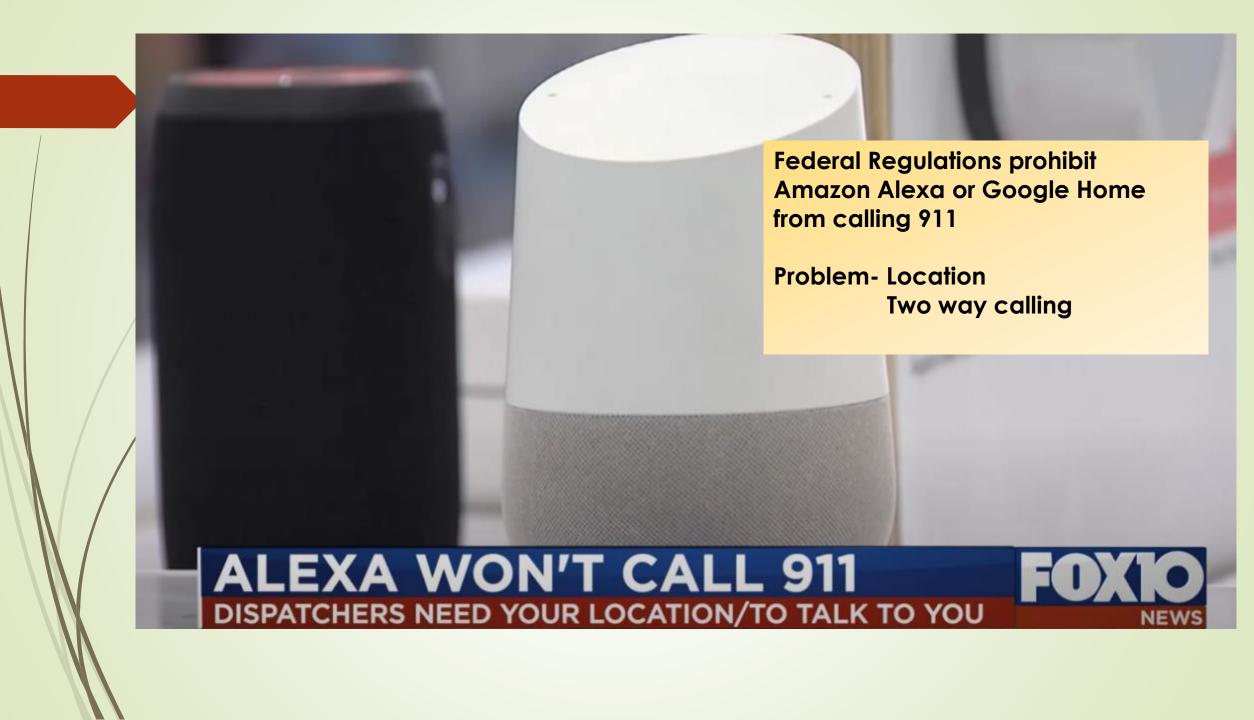
\$12/month
or
\$120/year
Save \$24 annually



The Nest - Grandpa Teleporter

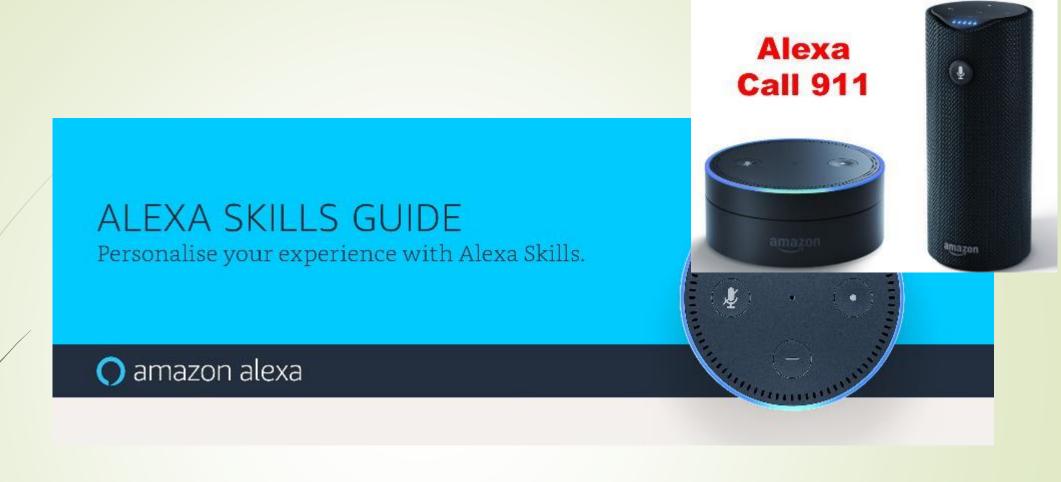
Apple HomePod





You can't use Alexa to call 911 using Alexa Calling. ... With the Echo Connect, you can dial 911 because the address information from your phone line will be transmitted to 911 when you call.





Set up "Skill "to make designated friend to make that call for you.

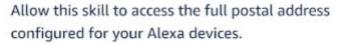
" Ask my Buddy App" – Alexa Skill

Account Permissions

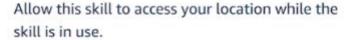


Ask My Buddy is requesting the following permissions. If you grant these permissions, this skill can use this information for all users of your devices.

Device Address

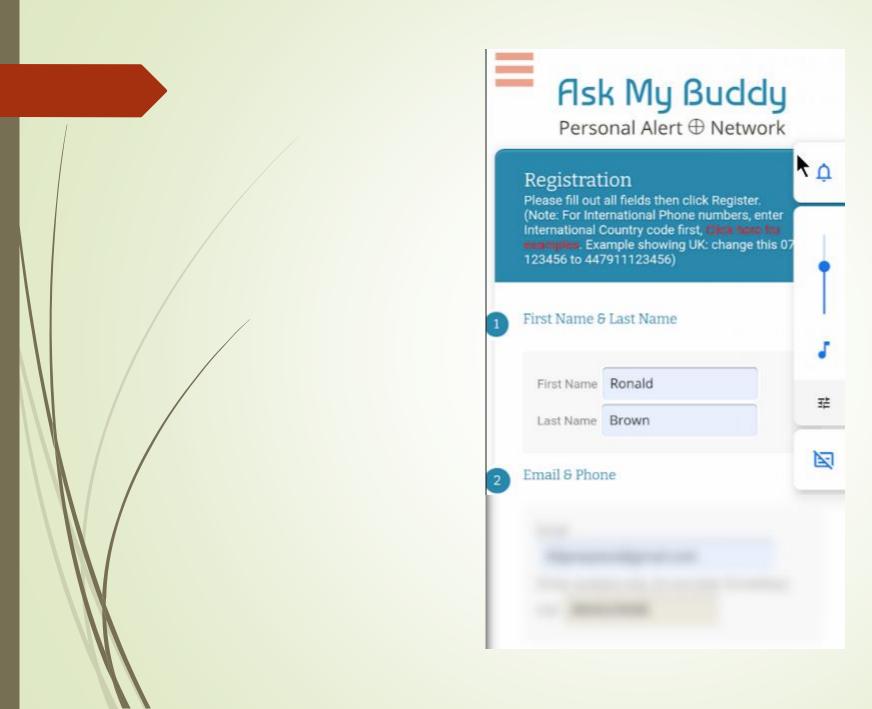


Location Services



Some devices may not support dynamic location.

SAVE PERMISSIONS





AskMyBuddy

Personal Alert Network

Welcome

Dear Ronald Brown,

Thank you for registering with AskMyBuddy.net Personal Alert

Network. Ask My Buddy is a Skill or Application that works with a variety of devices that support either Amazon Alexa, Google Home Assistant or Microsoft Cortana voice platforms. When you speak to these devices, Google, Cortana or Alexa will translate what it heard to text and passes along to a skill or application like ours. Once you have completed the setup you will be able to send alert messages by means of voice call, text message, and email just using your voice. Like: 'Alexa, Ask My Buddy To Alert Bob'. You can alert all of your contacts by saying 'Hey Google, Ask My Buddy To Send Help' or 'Hey Cortana, Ask My Buddy To Alert Everyone'.

Free Plan

Free

- 1) 10 *Alert Messages per month.
- 2) 5 Contacts
- 3) English only alerts

To continue using this option click on the Contacts menu above.



Basic Plan

\$3.66 per month

\$43.92 annually

Only 12 cents per day!

- 1) 120 *Alert Messages per month.
- 2) 5 Additional Contacts for a total of 10
- Disable Alert All. This checkbox located at the bottom of the Settings Page, Use this if Alexa misunderstands you and defaults to Alert All. Send Help and Alert Everyone will still work.
- Multi lingual Alerts: Spanish, French, Swedish, German, Portuguese and Italian. Need more, let us know.

Option 1: \$3.66 USD - monthly 💌





Premium Plan

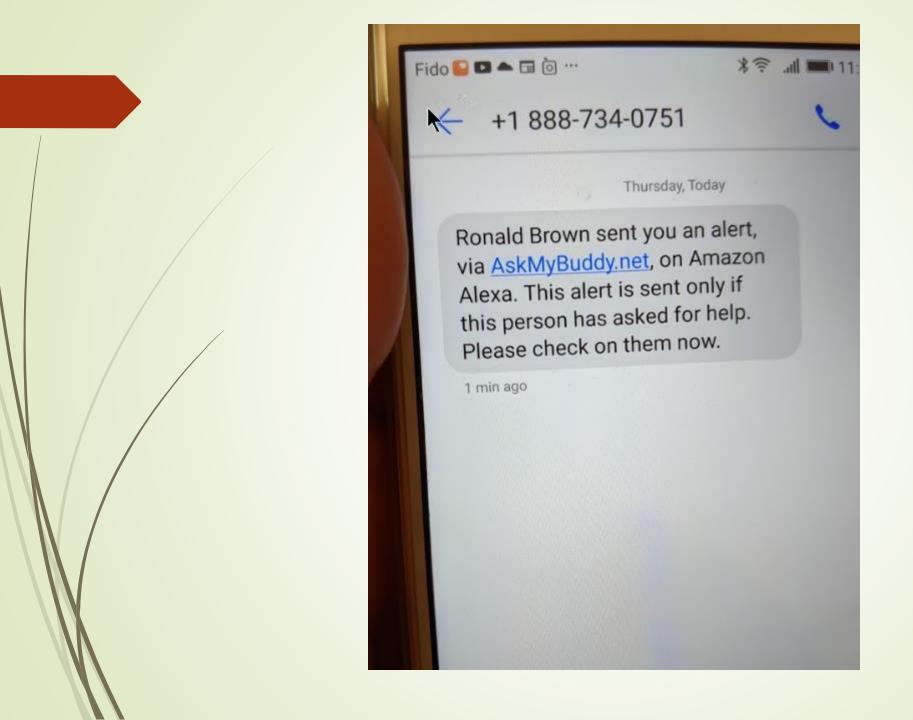
\$5.99 per month

\$71.88 annually

Only 20 cents per day!

- 1) 400 *Alert Messages per month.
- 5 Additional Contacts for a total of 10
- Disable Alert All. This checkbox located at the bottom of the Settings Page, Use this if Alexa misunderstands you and defaults to Alert All. Send Help and Alert Everyone will still work.
- Multi lingual Alerts: Spanish, French, Swedish, German, Portuguese and Italian. Need more, let us know.
- Find My Phone, places a voice call to the Cell Phone listed in your account settings. just say; 'Alexa, Ask My Buddy to alert my cell phone'.
- 6) Enhanced Send Help with reason.

 Premium users can let all their Contacts know what type of help they may need just by saying a few more words after the Send Help command. Contacts will receive the added information in each text message.



Home security system



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Devices

Information

Adaptive to needs

Socialization

Safety

Entertaining

Humor

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- ■Purchase a Cell Phone (Meg?)
- Personal Monitoring device-Watch
- Echo Show in Arizona Room (Drop-In enabled)
- ► Meg should have an Echo Show
- Echo Dots in all other Rooms
- Ring Door Bell
- ecurity Lights and Peripheral Cameras



Purchase a Cell Phone - (Meg?)

Personal Monitoring device-Watch

Echo Show in Arizona Room (Drop-In enabled)

Echo Dots in all other Rooms

Ring Door Bell



Purchase a Cell Phone - (Meg?)

Personal Monitoring device-Watch

Echo Show in Arizona Room (Drop-In enabled)

■Echo Dot**s** in all other Rooms

Ring **p**oor Bell



Purchase a Cell Phone - (Meg?)

Personal Monitoring device-Watch

Echo Show in Arizona Room = Drop-In enabled

■Echo Dots in all other Rooms

Ring **p**oor Bell



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Questions?

Saving your life with wearable technology (Part 2)

Ron Brown -- SilvercomCTC

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Thanks for coming

Questions

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www.techforsenior.com



Thank you Ron Brown



Saturday Night Live