

Staying Connected while Traveling

Ron Brown, Program Coordinator

Silvercom CTC



Princess Cruises



Why stay connected?

- Changing Attitudes
- Security *Location/Help*
- Information Highway
- Financial Investments
- Healthcare
- Social
- Facebook addiction



Challenges of Connecting

- Security
- Cost
- Complexity- Different Countries
- Language Barriers
- Technology Problems



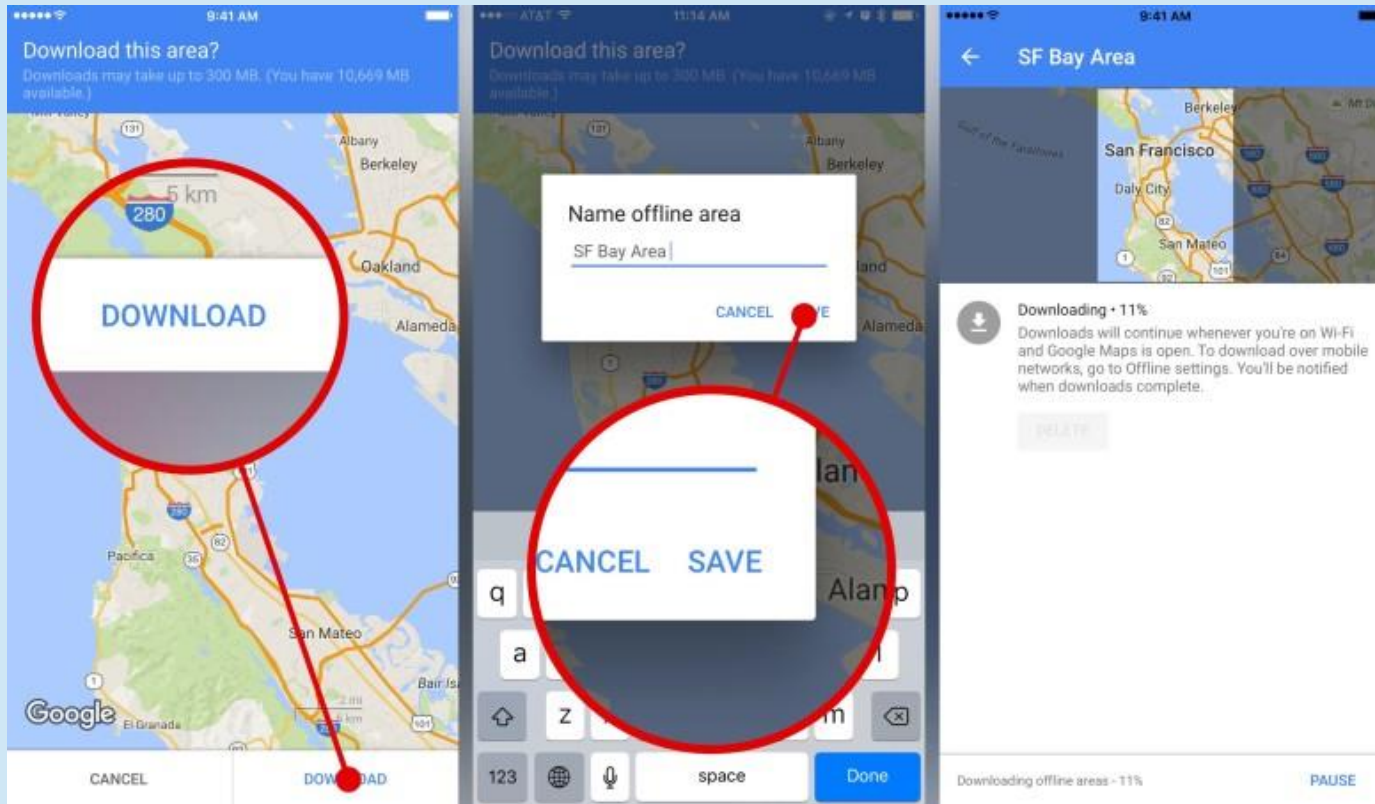
Phone - Type of Signals

- Cell Signal
- WiFi (Not Internet)
- Bluetooth (Turn Off)
- NFC



Google Maps – Essential for Travel

Use Off- Line



Google Maps –
Essential for travel

Road Maps
Trip Planning
Hotel Reservation
Restaurant Selection

Traveling area can be
saved
Internet Connection not
needed
Downloads POI

Understanding Terminology



- Hotspot
- WiFi and cellular
- Data Plans – Data Capping/Tiered/Roaming
- VPN
- Sim Cards
- Roaming



What is a Wifi Hotspot?

- Encrypted secure
- Easy access
- Costly

NEW VERIZON 8800
MiFi



Receive cellular data connection and rebroadcast as a WiFi Signal so other devices can be connected

Unlimited Data Plans often don't allow Hotspots

Ensure it is a feature on your phone

Category 18 Modem (Max 1200 mbps down / 150 mbps up)
4x4 internal MIMO
5 band carrier aggregation
LTE-LAA
2 TS-9 'test ports'
24-hr battery life
15 connected devices supported
Simultaneous 2.4 & 5 GHz
Wi-Fi

Auto VPN

Using your Cell Phone as a Hotspot



Dependent on your carrier service

Not usually available with unlimited data

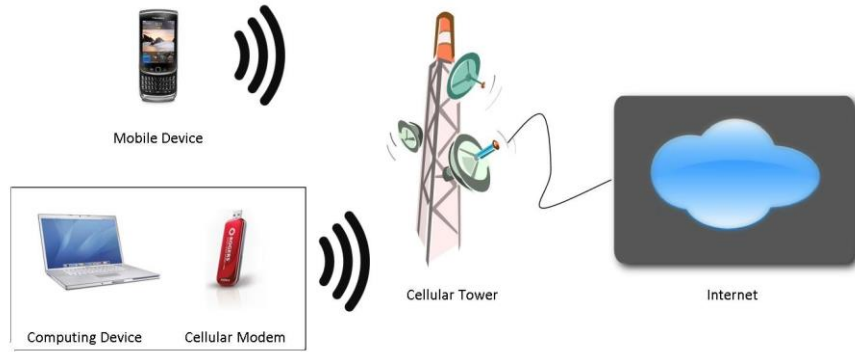
Must be turned on by carrier

Not available on all cell phones

Very Secure- Encrypted Line



Wireless (Cellular) Internet Access

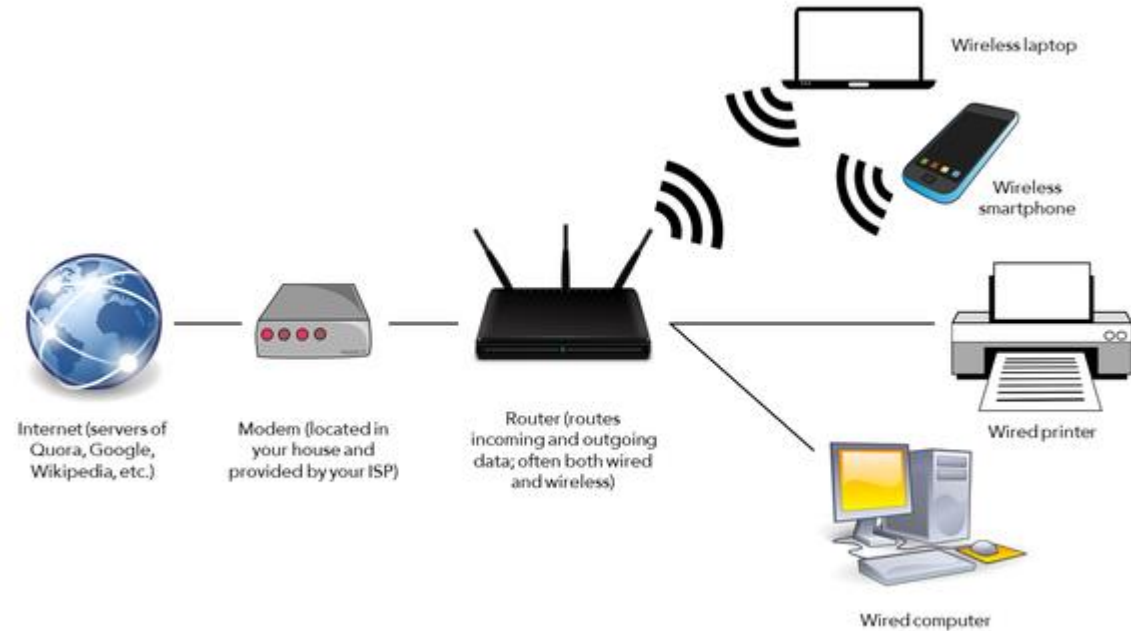


What's the difference?



- WiFi

- Usually Free
- Security Concerns





Wi-Fi and Cellular Settings

John Legere CEO T-Mobile

“ Uncarrier approach “ 2012 No Contracts
Changed Phone Plans to Unlimited Data
Global Unlimited Data 210 countries
Purchased 600 mghz frequency



Unlimited Data Plans

data

Improved ability to deliver high speed

Customer Expectations

streaming

Changing technology Video/Music

5G Emerging

Marketing Tiered Connections





Roaming and Tiered Connections

Home connection with Cox- Lots of Data

Netflix-IOT-Amazon Prime Monthly 20-30 GB

Mobile connections- Unlimited Data (Data Caping)

Tiered to 4G then drops to 2G

Holland America 200/300/500 MB
Unlimited Data for 24 hrs

Roaming Charges

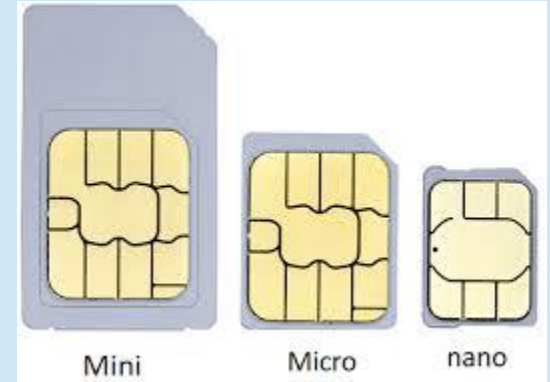
Roaming is when a cellular carrier has agreements with other networks to utilize their towers



Local Sims



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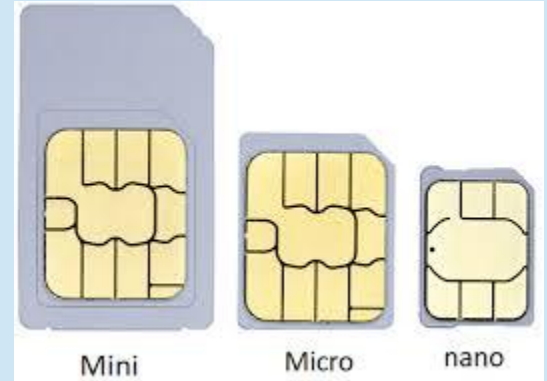


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Local Sims



Using local Sims



Both - ESIM

International plans with your Cell Phone Provider

Local Sims

for "sim card holders"



BlueCraft Slim Nano SIM (Max. 12 Nano SIM Cards) Card Aluminum Holder Case Storage with SIM Card adapters (Silver)

by BlueCraft
 30 customer reviews
 Amazon's Choice for "sim card holders"

Price: **\$9.99** ✓prime

Get \$70 off instantly: Pay \$0.00 upon approval for the Amazon Prime Rewards Visa Card.

Color: **Silver**



- Mobile SIM card holder for Nano SIM cards and eject Pin
- Bundled very useful SIM card adapters and Eject Pin
- Manage messy SIM cards in Business trip, Over sea travel scenes
- Max. 12 pcs capacity and eject pin
- Avoid losing tiny but important SIM cards

Compare with similar items

New (1) from \$9.99 ✓prime

☐ Report incorrect product information.

Get Professional Tire Installation at Home or In-Store



Shop tires eligible



How in-store



Schedule at-home

for "sim card holders"



Samdi Sim Card Adapter Kit Includes Nano Sim Adapter / Micro Sim Adapter / Needle / Storage Sheet(Sim Card Holder) ,Easy To Use And Storage Without Losing Them

by SAMDI
 652 customer reviews | 32 answered questions

Price: **\$4.56** ✓prime

Get \$70 off instantly: Pay \$0.00 upon approval for the Amazon Prime Rewards Visa Card.

Color: **Gold**



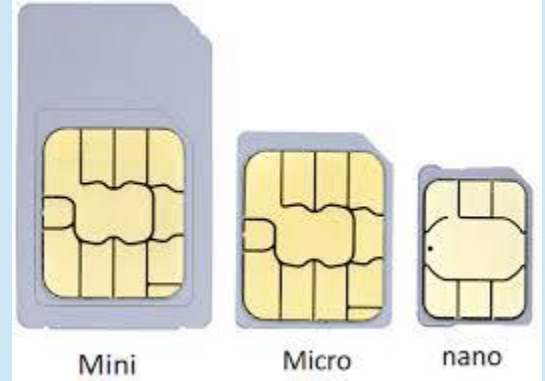
- iPhone USERS need these sim card adapter to convert nano sim to micro/standard sim or micro sim to standard sim and match to other cell phone based on iPhone unique SIM types Meanwhile item is very useful for other brand cell phones to convert micro sim to standard sim card. Such as SAMSUNG SONY LG GOOGLE HUAWEI MI HONOR and so on
- Easy to save easy to use This sim card adapter kit includes 3pcs sim card adapter, 3pcs hard needle, 3pcs PVC soft storage sheet. Because we frequently lost them, so we need this sheet to save sim card and adapter.
- Sim card adapter made of quality PC material, CNC curve, precision size, clear texture, thin basement membrane, durable, support bend over and over again.
- Nano sim can be restored Micro sim or standard sim, then Nano sim will match all of mobile devices. Micro sim can be restored standard sim to match to standard sim mobile devices.
- Notice: Don't Place a Blank SIM card adapter in cell phone, you should use it always with nano sim or micro sim together, it will help to avoid stuck.

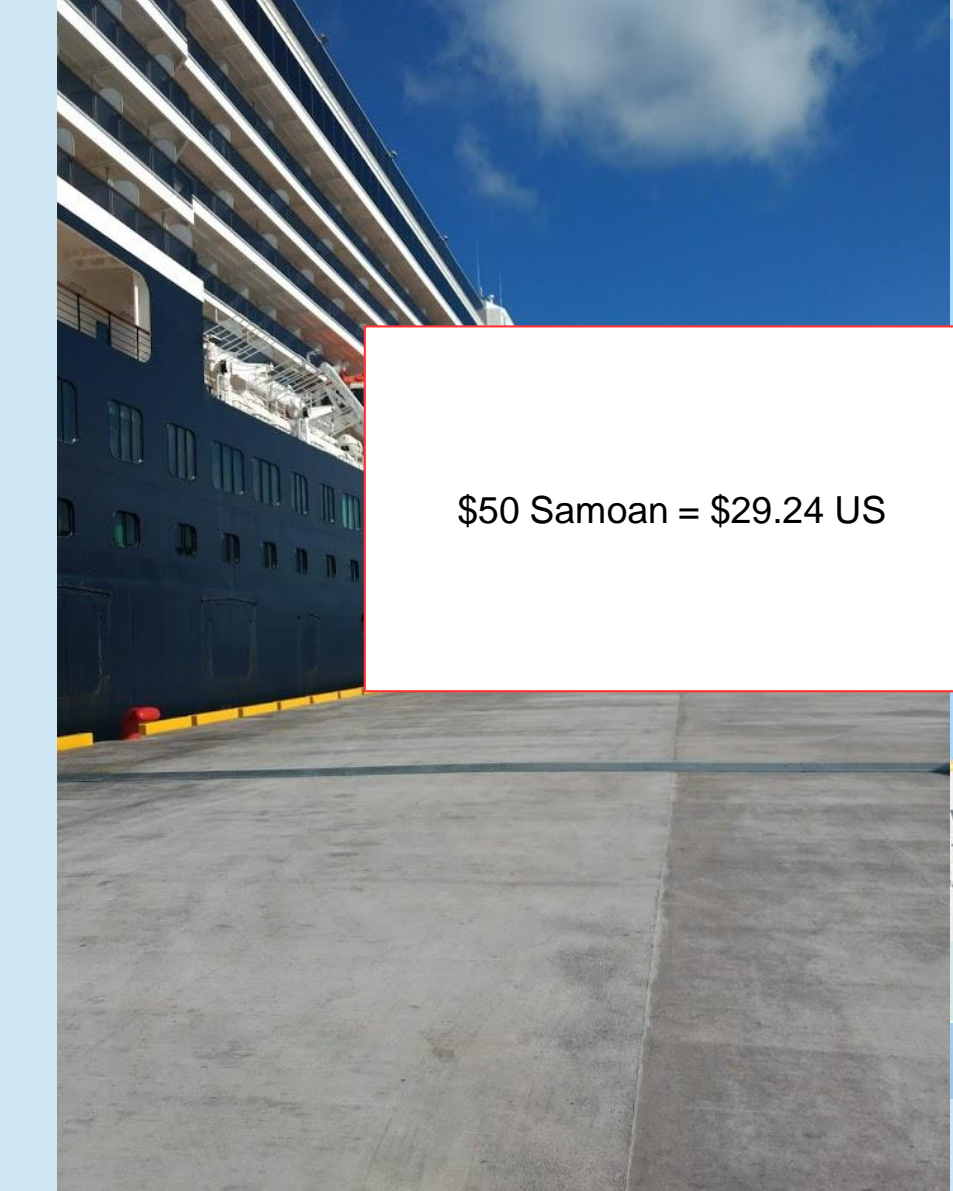
Compare with similar items:

New (4) from \$4.56 ✓prime

☐ Report incorrect product information.

Book plumbing repair services before holiday guests arrive





\$50 Samoan = \$29.24 US

Supa Seki data plans

Opt in now through the My Digicel App
or Dial *123#

OPT IN

▶ 500MB for \$3

valid for
1 day

▶ 1GB for \$5

valid for
3 days

▶ 1.5GB for \$10

valid for
7 days

▶ 4GB for \$20

valid for
15 days

▶ 9GB for \$50

valid for
30 days



Digicel



access online
mydigicel.digicelgroup.com

Terms and Conditions apply. Customers can join the Supa Seki data plans by dialing *123# or visiting My Digicel App. Expiry period on all plans vary. Unused data will only rollover if the same data plan is purchased again before plan expiry. For more information please Call Customer Care on 03 for free from your Digicel mobile or 7232000 from other networks.



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estment?

entertaining. Perfect
ment potential STCA.

cia McKibbin 0411 861 494
cia@mckibbinrealestate.com.au

kibbinrealestate.com.au

Banking on your SmartPhone



Banking with your Cellular Data

Encrypted Data – Bank uses https
No VPN – Security - Speed

Banking with Public WiFi

Bank uses Secure https

Insecure Network – Man in Middle attack

Key Logger – Identity known

Passwords

VPN RECOMMENDED

Banking on YOUR Home WiFi

Bank uses Secure https

Age of Router- Firmware Updates

VPN ??????

Banking on your SmartPhone



Project Fi


Automatic switching between Cellular and WiFi
Google introducing VPN for service.



Wi-Fi Assistant

Wi-Fi Assistant auto-connects you to high-quality public Wi-Fi hotspots and helps secure your connection.

To help protect you on public Wi-Fi, your data is transmitted through a secure Virtual Private Network (VPN) managed by Google.

 appears at the top of your screen when your device starts the VPN session.

[LEARN MORE](#)

[GOT IT](#)

Travel by Land



3 Ways your Smart Phone locates you

Where are you?

GPS Feature

On all Phones

Always on

Disable Apps

One way communication

Don't need to be connected

Tower Triangulation

Cell Towers

Triangulation

Rural Vs Urban

Not GPS

WiFi Position System WPS

WiFi GPS

Promoted by Google

Database

Location service



GPS 3 – L1C Signal
Interoperable

China - Compass

Europe – Galileo

India- IRNSS

Japan- QZSS



SPACEX LAUNCHES US AIR FORCE'S BEST GPS SATELLITE YET, CLOSES LAST LAUNCH IN 2018


SpaceX has successfully launched the US Air Force's most powerful GPS satellite ever built, the GPS III 'Vespucchi' satellite on 23 December.

It's the first in a series and nicknamed 'Vespucchi' after the 15th-century Italian explorer who calculated Earth's circumference to within 50 miles (80 kilometers).





My GPS Coordinates



Latitude (LAT)

33.38848

N 33°23'18.54384"

Longitude (LONG)

-111.65294

W 111°39'10.58328"


Signal accuracy


40 m



[VIEW ON GOOGLE MAPS](#)








My GPS Coordinates

Hot Android Apps

Everyone

4.4 ★ (1,602) • 100 thousand ↓



[UNINSTALL](#)

[OPEN](#)

Contains ads

My GPS Coordinates

Where am I???



Two Way Satellite Messaging



Messaging – any cell phone or email in the world

SOS- 24/7

Tracking- [Link to Google Maps](#)

Checkin

Post to Social Media

Compass and Programmable way Points

Purchase \$249/ Monthly sub.

Google Maps

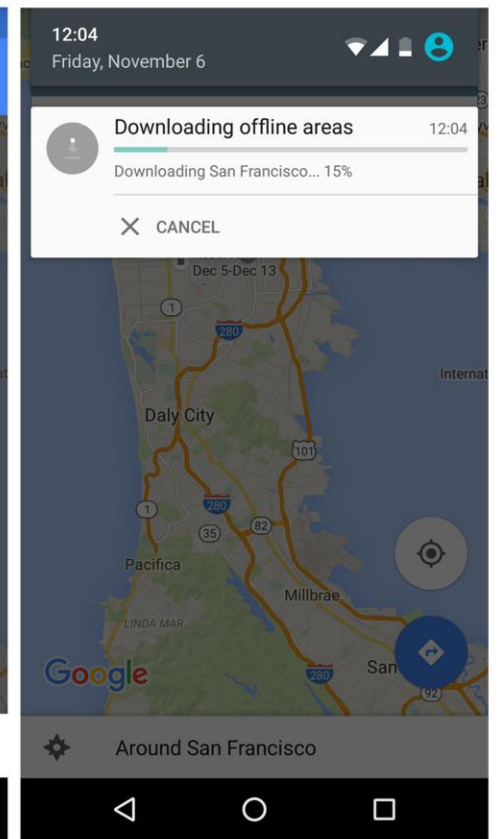
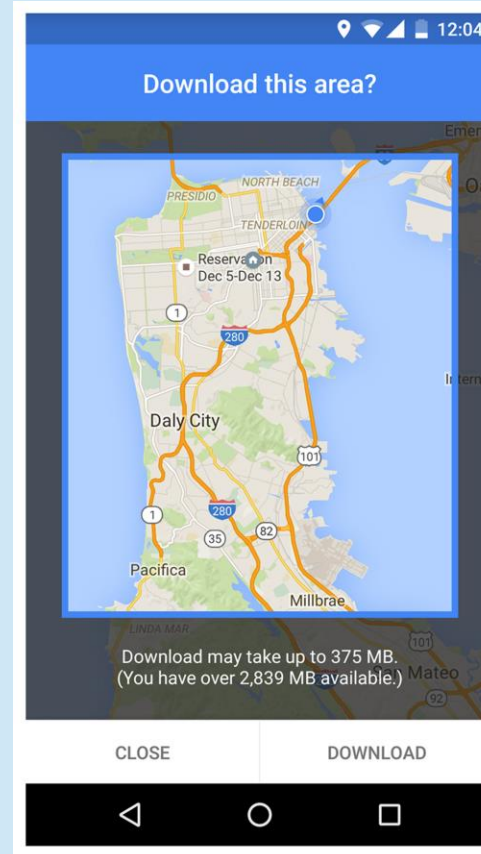



A Must for Traveling

May be used Offline

Choose location to download

Use in car for turn by turn directions





Stay on the
smoothest signal
with 3 powerful
networks

Seamlessly switch to the fastest of
three 4G LTE networks, and get
free access to 1 million secure Wi-
Fi hotspots.

GET FI



International data speeds
10x faster than **before**

Now use your phone to:

- ▶ Stream YouTube videos
- ▶ Video chat
- ▶ Turn-by-turn directions
- ▶ Download email attachments
- ▶ Upload pictures to social media

International Travel - Data Plan

MVNO (Mobile Virtual Network Operator)
Sprint – US Cellular - T-Mobile

+ 170 Countries

\$10 GB until Bill Protection Activates

Maximum \$60/month unlimited data

Free after \$60

No change in speed till 15 GB

Pixel 3 – Black Friday- \$599 plus \$200 Fi
Credit

Motorola Moto G6 \$199

Hot Spot enabled under network settings

Connect to 10 extra devices – No charge for
tethering

Check coverage in your area



[DEALS](#)
[PHONES](#)
[PLANS](#)
[MY T-MOBILE](#)
[Q](#)
[MENU](#)

Unlimited 55+ 2 lines \$70/month.

Customers ages 55 and older can get 2 lines for \$35/line with AutoPay—all with unlimited talk, text, and LTE data on America's Fastest Unlimited Network.

On all T-Mobile plans, during congestion, the small fraction of customers using >50GB/month may notice reduced speeds until next bill cycle due to data prioritization. Not eligible for Netflix offer.

Unlimited talk, text, and data.

All on America's fastest unlimited network.

Stream unlimited entertainment.

Video at DVD-quality, 480p.

T-Mobile Tuesdays.

Get awesome deals every week—just for being a customer.

In-flight texting + 1 hour of data.

On Gogo-enabled flights to, from, or within the U.S.

Taxes & fees included.

No surprise fees on your monthly plan bill.

Unlim

Talk, text, i

Texting & data abroad.

In 210+ countries and destinations.

Mobile

Keep all y

Included in 55+

Unlimited Data in +210 Countries

Hotspot Available

International Data Passes Compared

	T-Mobile	AT&T	Verizon Wireless
COUNTRIES AND DESTINATIONS COVERED	210+	100+	130+
COST \$\$	\$5/day	\$10/day	\$10/day
HIGH-SPEED DATA	512MB/day/LTE	Same as your domestic plan	512MB/day LTE
TEXT	Unlimited	Unlimited	same as your domestic plan
TALK	Unlimited	Unlimited	same as your domestic plan
ROAMING DATA/TEXT COST WITHOUT PASS?	T-Mobile ONE: Unlimited 2G Data/ Text Included	Pay as you go rates	Pay as you go rates

Best Data Plan for Frequent
International Travelers

“Wirecutter” Sept /2018
T-mobile One

512MB Global Pass 4G
\$5/24 hours

Verizon

International services while traveling outside the US.

Verizon keeps you connected with coverage in more than 220 countries around the world

[Add an International Travel Plan](#)



	Mexico & Canada	130+ Countries
Talk, Text & Data*	Domestic plan allowances	
Daily cost per device**	\$5	\$10
Additional benefits	No additional charge with Go, Beyond and Above Unlimited plans	5 TravelPasses included each month with Above Unlimited

*Data speeds are reduced after the first 0.5GB of daily session. You can purchase additional High Speed for the remainder of your session.

**4G LTE World device is required. Must be on a qualifying plan.

*Data speeds are reduced after the first 0.5GB of daily session. You can purchase additional High Speed for the remainder of your session.

Air Travel



Identify Purpose

Entertainment
Business
Social Media
Checking Email

Airplane Communication



Engine Maintenance
MH370 Malaysian Airline

Fuel Management

WiFi - Satellite

In-flight Wi-Fi – Cost Saving



Check Cell Provider – Discounts on In flight WiFi
T-Mobile offers one hour FREE

Pay For WiFi BEFORE Flight

Frequent Flyer Subscription Plans

Credit Card Benefits

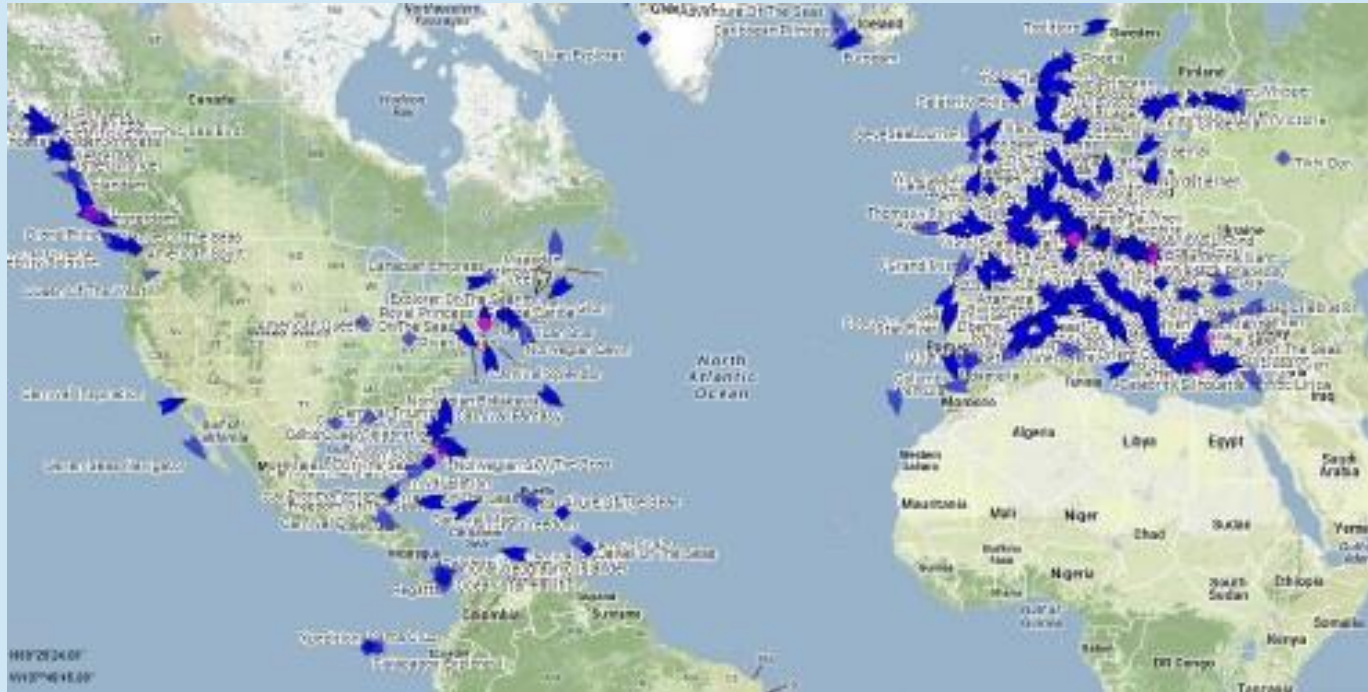
Travel by Sea



Staying Connected at Sea
Big Ocean
Internet by Satellite



Travel by Sea



Passenger ships stay close to land

Most cruises 7-10 days

Frequent Ports

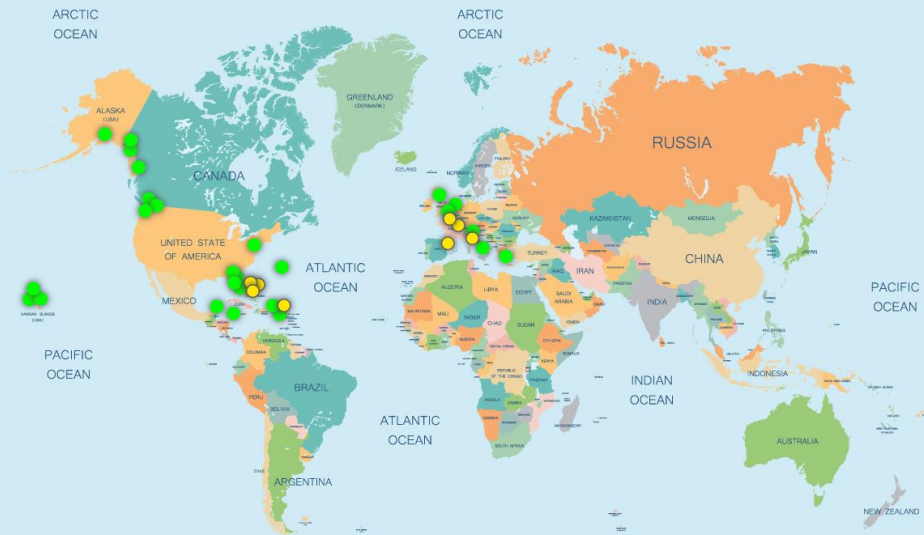
Major Marketing Factor

Increasing Bandwidth
25%/year

Competition and Marketing

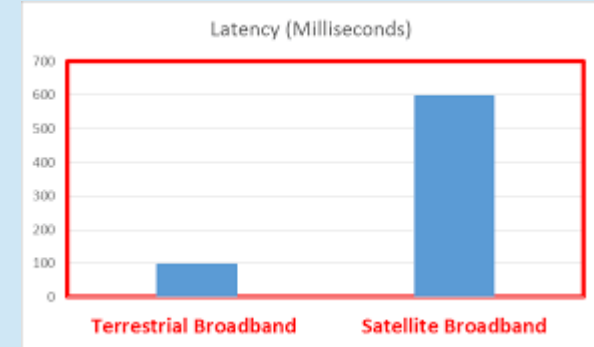
Staying connected





TERRESTRIAL BROADBAND

 PRIVATE
 OPEN



Combination of Terrestrial Broadband and 40 Satellites
 Increasing Bandwidth 25%/year
 Investing heavily in New Technology
 Driven by demand for social media
 60% Internet Content is Video

Take your Smart Phone



HOLLAND AMERICA LINE
NAVIGATOR

LOG OUT

SHIP TIME: 3:47 PM

Internal Communication

Messaging – Communication

Ship Activities

Complementary Web Sites

Shore Excursions

Cellular at Sea

At Sea Pacific Ocean

Current Temperature
83°F | 29°C
OCT 12, 2018



HAPPENING
ON BOARD



EXC TOURS™



PAID
INTERNET



DINING



MY ACCOUNT

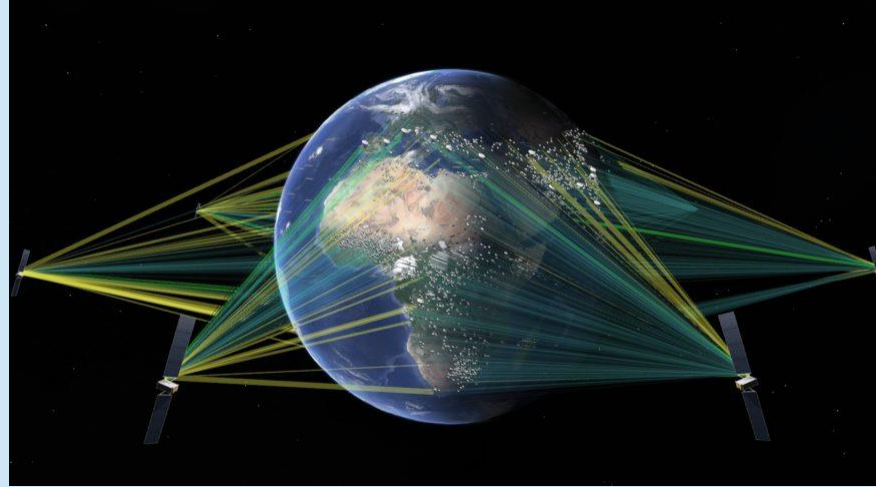


MY ITINERARY

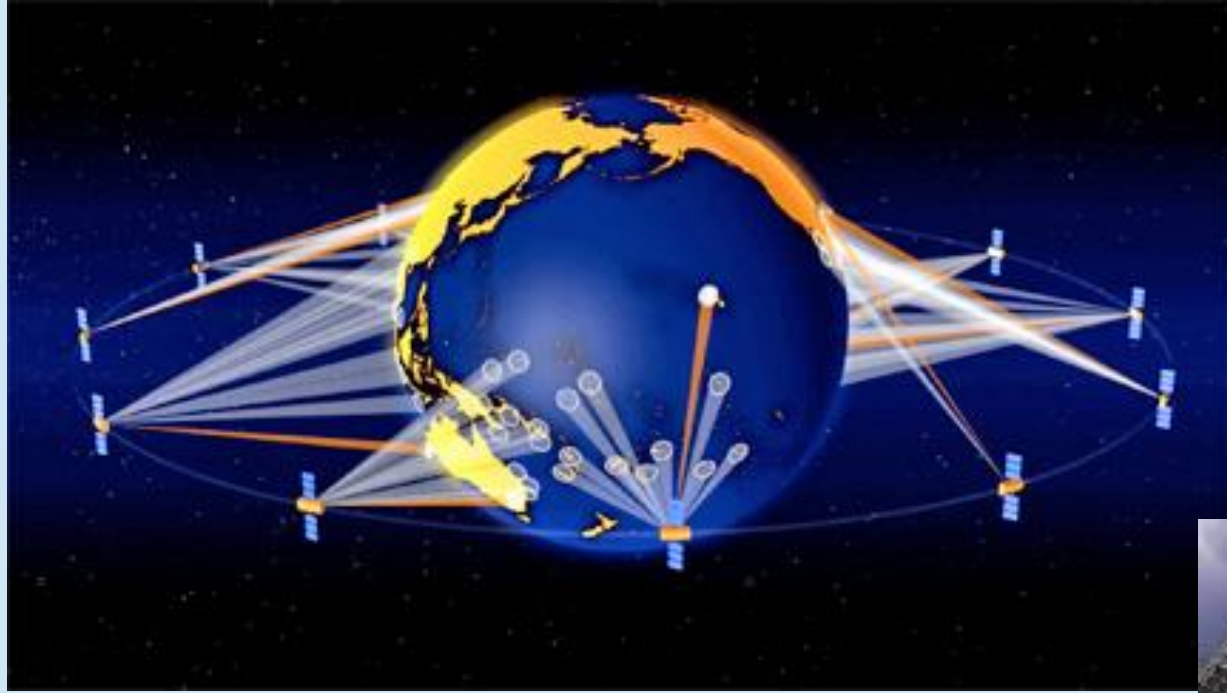


MORE

Ob3 Satellites - Spot Beam



Fleet operator SES placed a seven-satellite order with Boeing Satellite Systems International to build a second generation of O3b satellites that will have more than triple the capacity of 10 Terabytes of data 30,000 spot beams



Thanks for attending

Ron Brown
Program Coordinator
Silvercom CTC

69janeplace (at)
gmail.com

