

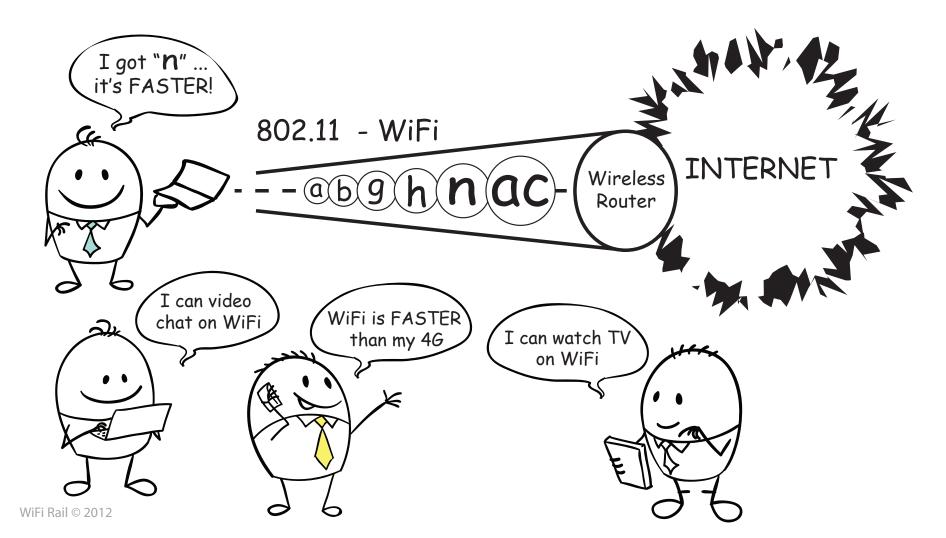


When most people hear WiFi, what do they think?



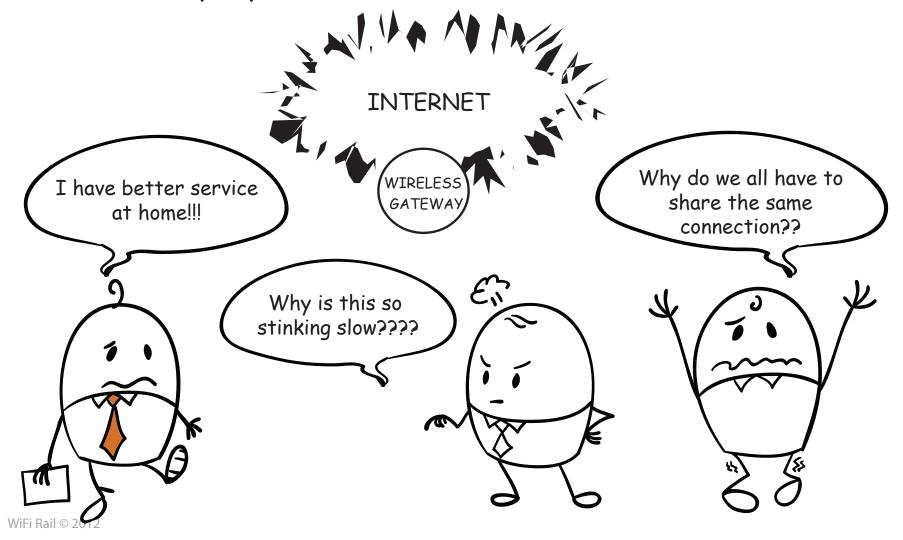


What do most people understand about the speed of WiFi?



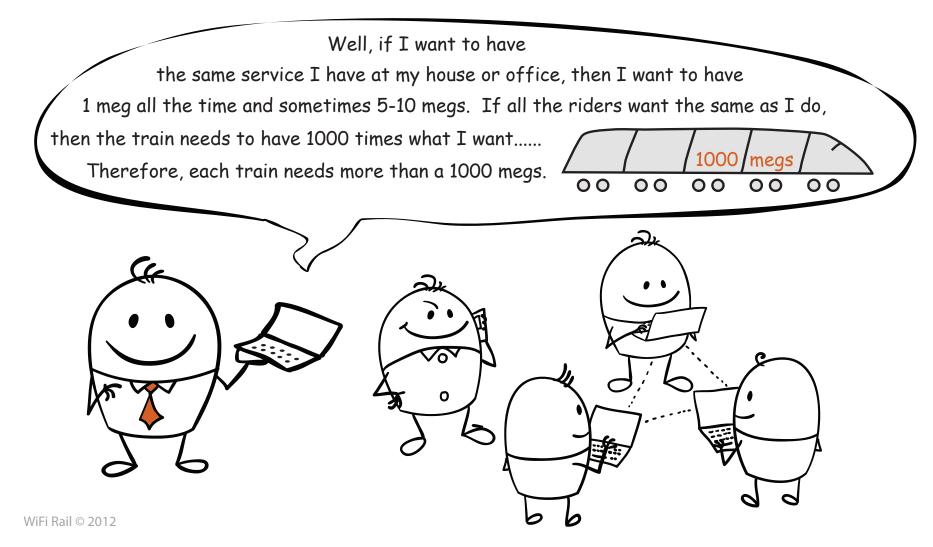


What most people don't understand about Transit WiFi



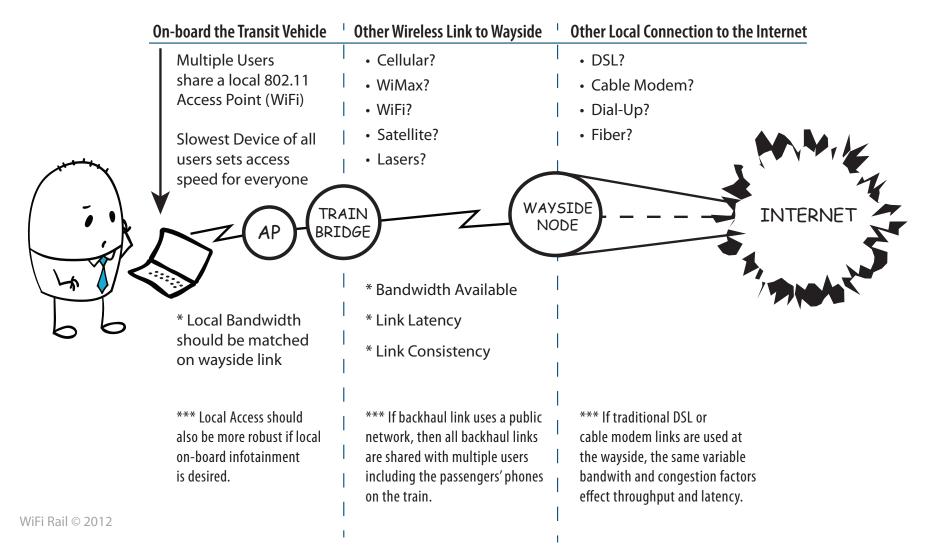


What do people expect out of WiFi service today?





HowTransit WiFi Systems Work





What the future of Transit WiFi demands look like . . .

LOCAL DEMAND	LOCAL BANDWIDTH NEEDS	WAYSIDE WIRELESS LINKS	WAYSIDE BACKHAUL
Public WiFi Users desire 1 mbps minimum w/5-10 bursts	Train : +/- 500 Riders Bus : +/- 70 Riders	500-5000 Mbps @ 1 Mbps-10 Mbps / rider = 70-700 Mbps	
On-board Operational	Train : +/- 3 Employees	2 Mpbs per Employee = 6 Mbps	
Purposes	Bus : +/- 1 Employee	500 Kbps per bus	
Telemtry, Train Control,	Train : +/- 10 Train Cars	2 Mbps per car = 20 Mbps	
and other M2M	Bus : +/- 1 Bus	500 Kbps per bus	
CCTV - Live or Synced to	Train : +/- 4 Cameras per Car = 40 Cameras	1 Mbps each = 40 Mbps	
Wayside	Bus : +/- 10-12 Cameras	1 Mbps each = 10-12 Mbps	



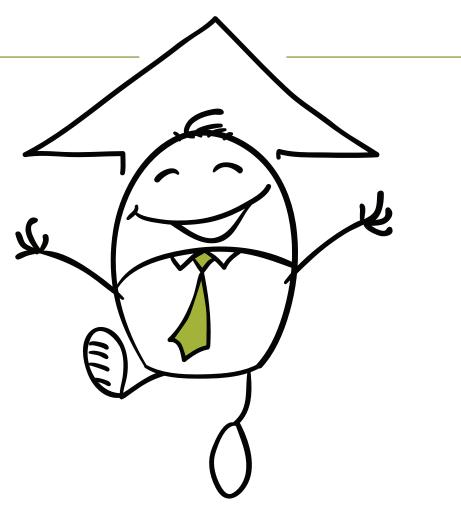
How to Meet Today and Tomorrow's Transit WiFi Demands





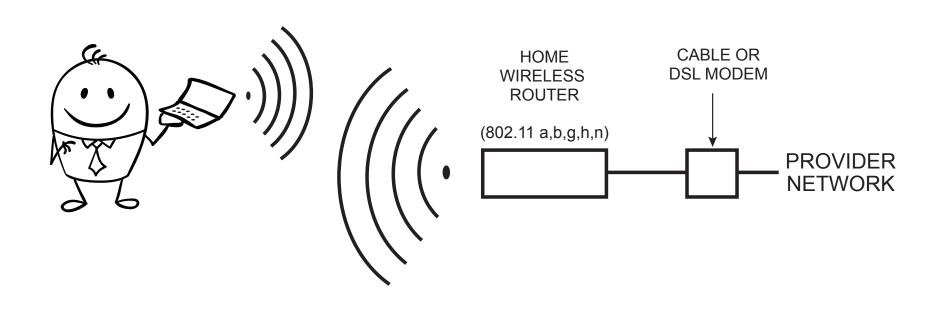
Wi-Fi 101 :

How This Stuff Works (or doesn't) in Different Environments





BASIC HOME WI-FI NETWORK

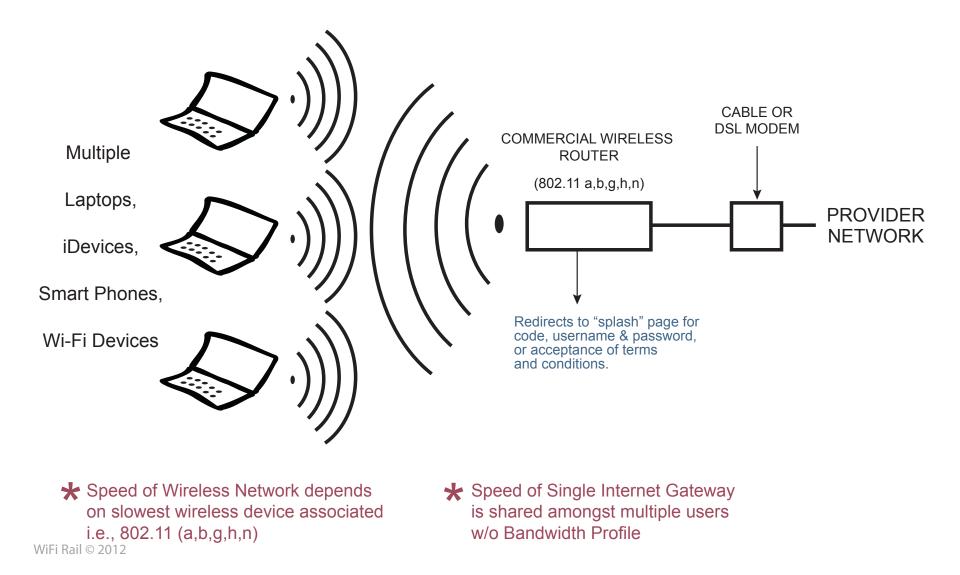


* Speed of Wireless Network and Local Devices

* Speed of Internet Gateway from Provider

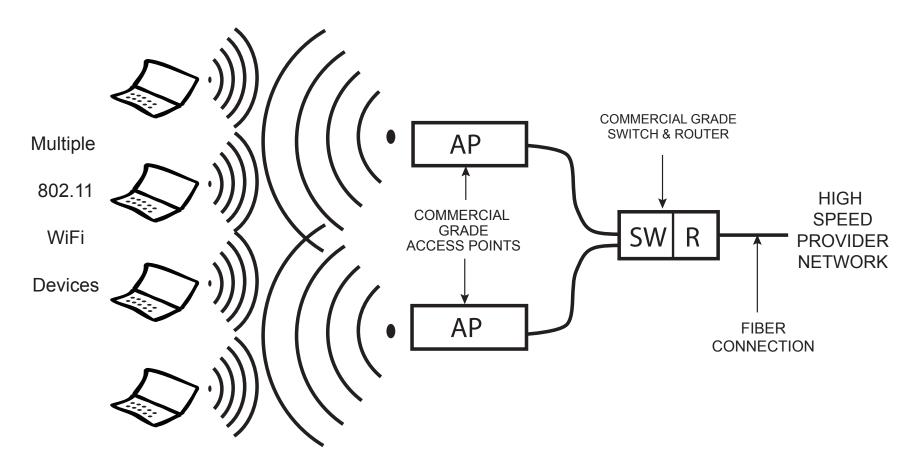


BASIC "HOTSPOT" WI-FI NETWORK





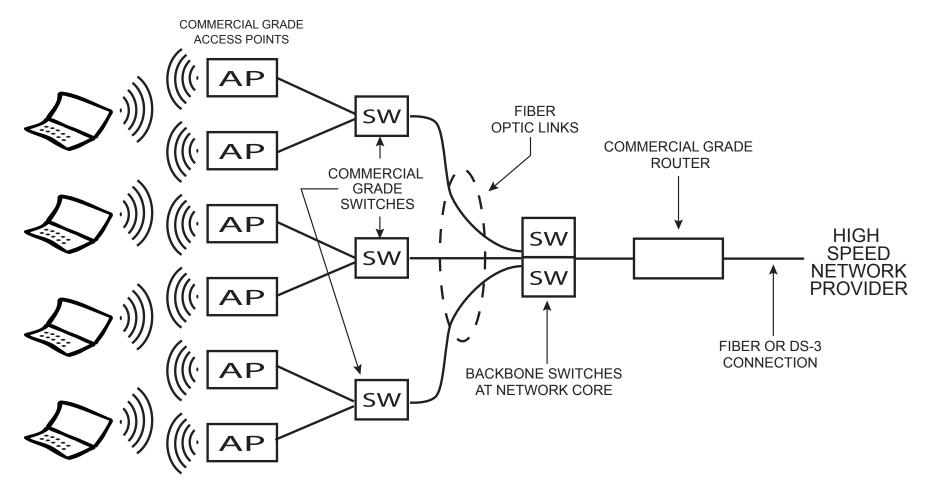
HIGH SPEED WI-FI NETWORK



✤ Speed of Wireless Network managed by Access Points ★ Speed to Internet on Fiber is faster than all Wireless Links & Clients



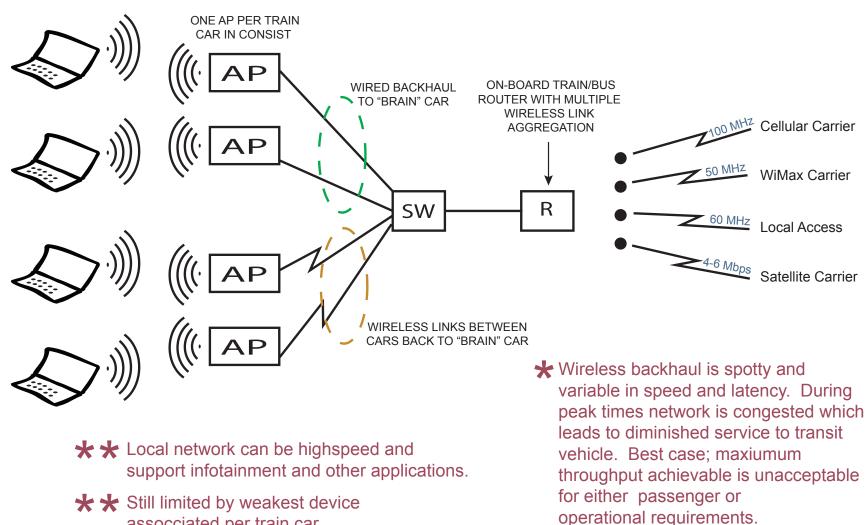
CAMPUS WIDE WI-FI NETWORK



 Multiple Wireless Devices on Multiple Access Points across
 Multiple Different Locations
 WiFi Rail © 2012 ★ Bandwidth, Security, and Access all controlled through Policies at Router Edge and at Local AP



ON-BOARD TRANSIT WIFI WITH PUBLIC BACKHAUL



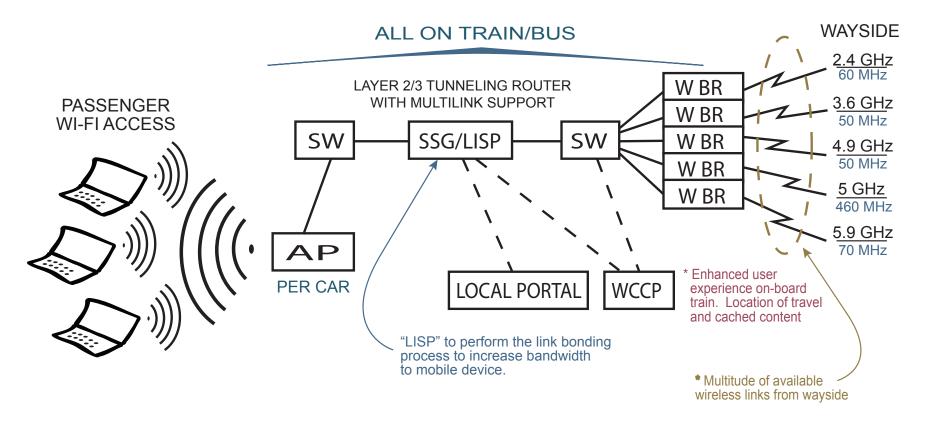
assocciated per train car.

WiFi Rail © 2012



ON-BOARD TRANSIT WI-FI WITH PRIVATE BACKHAUL

* WiFi Rail Deployments



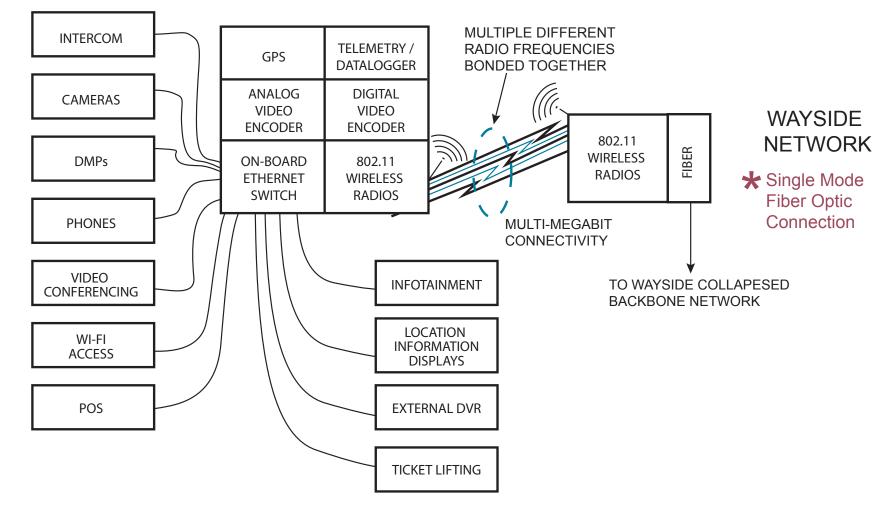
All devices will maintain IP address whether acquired on train, in station or in the lounge.
WiFi Bail © 2012

★ Multiple wayside frequencies can be used to bond a much larger pipe than can be achieved with any single frequency.



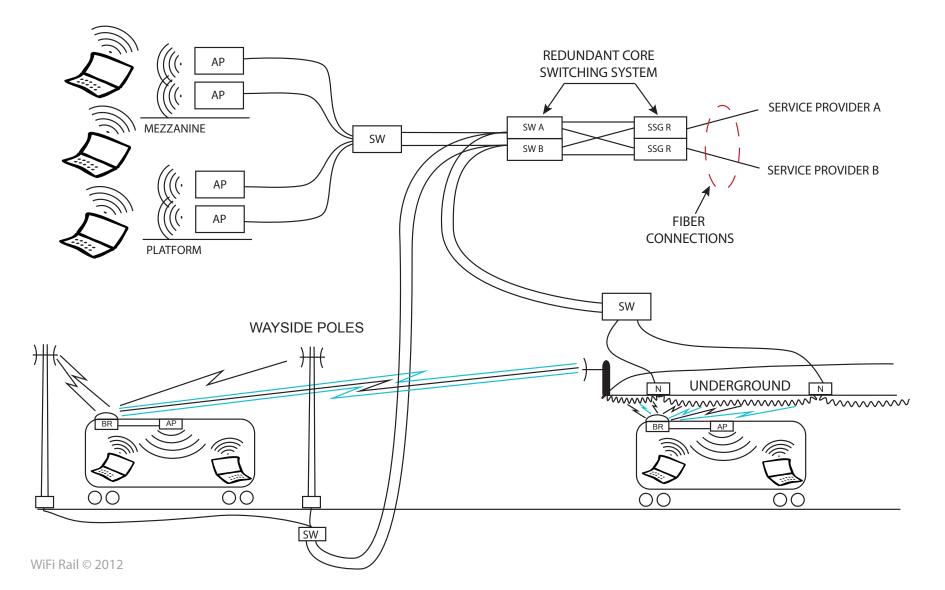
TRANSIT WIFI OPERATION & MAINTENANCE BENEFITS

FROM PRIVATE NETWORK



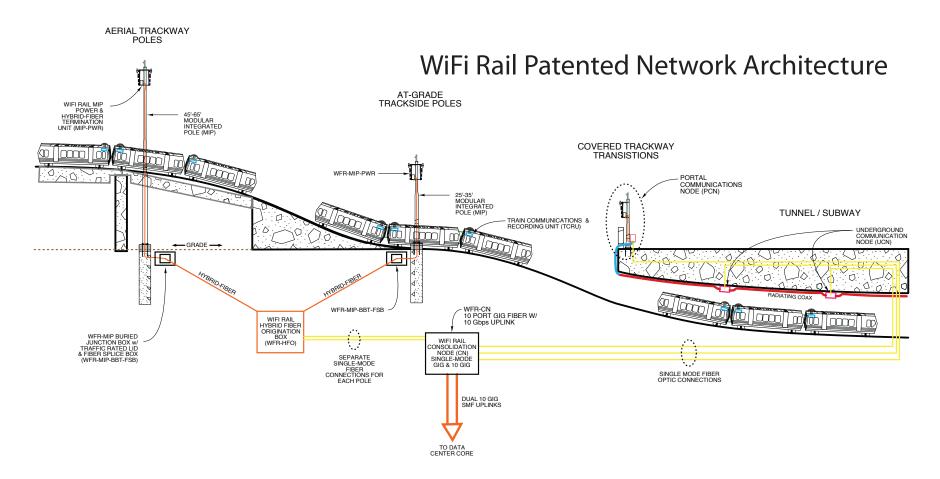


WIFI RAIL NETWORKS IN A TRANSIT ENVIRONMENT





How to Meet Today and Tomorrow Transit WiFi Demands ...



Patent #7,768,952 #7,916,080 #7,787,402 : System and method of wirelessly communication with mobile devices. WiFi Rail © 2012