







#### 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 ★ Bandwidth, Security, and Access all controlled through Policies at Router Edge and at Local AP





#### ON-BOARD TRANSIT WIFI WITH PUBLIC BACKHAUL



operational requirements.

★★ Still limited by weakest device assocciated per train car.





#### 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.

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

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## TRANSIT WIFI OPERATION & MAINTENANCE BENEFITS

#### FROM PRIVATE NETWORK





WIFI RAIL NETWORKS IN A TRANSIT ENVIRONMENT





### WiFi Rail Patented Network Architecture



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

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