

The advent of Mobile Hotspots has drastically changed the view of accessing the internet anywhere in the metropolitan areas in India. With an increase in use of personal mobile devices and the reliance on the internet to access information online for entertainment, educational, personal and business purposes, Xi-Fi Networks suggests a unique proposition to enable the internet to the larger users because of its patented extended range, higher bandwidth and superior coverage technologies.

Executive Summary

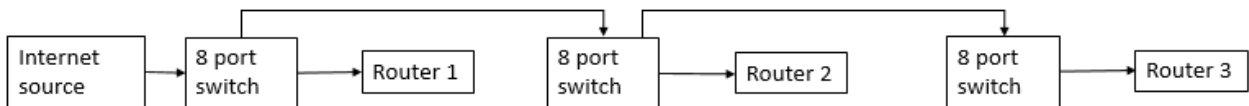
As a Pilot Proof of Concept for providing Public Wi-Fi, a company in Vijayawada YScreens was seeking to differentiate itself by providing a completely unwired environment for themselves. This report explores how the choice of an infrastructure methodology that was a bold departure from that of many peer organizations enabled this company to usher in a new era of connectivity and IT service to its employees.

“It’s pretty clear that the [wireless network] is going to be the only network people care about.”- V.P. YScreens.



Scenario A:

In this scenario we are using three xTends covering a minimum of 100 meters each side in a cluttered environment with a total coverage radius of 200 meters per access point for customers to browse internet services as well as use even high data services like Video streaming browsing (Apps like YouTube, Hotstar etc.). The purpose of this scenario was to show that if one of the routers was switched off or its working was hampered it won't affect the working of other two routers. The routers are wired to each other through switches which ensured that switching off one router won't affect the working of other two routers.



Success Criteria:

- ✓ Seamless Internet Browsing
- ✓ Video Streaming (YouTube), Upload / Download till the edge of 90M Radius.
- ✓ Testing with Apple iOS, Android Handsets & Laptops

Scenario B:

Wireless Bridging with Multiple XTends to cover the entire blocks in a cluttered environment with a wireless bridging radius of 75~100m and beyond to seamlessly roam with Internet throughputs.



Internet connection is given to Router 1 which provides internet access to the users.



Router 2 is wirelessly bridged to Router 1 and provides internet to users



Router 3 is wirelessly bridged to Router 2 and provides internet access to the users

Success Criteria:

- ✓ Seamless Internet Browsing,
- ✓ Video Streaming (YouTube), Upload/Download
- ✓ Testing with Apple iOS, Android Handsets & Laptops.



Solution

“We tested the xTend 3800 on some business customers, and we were able to provide a consistent throughput of 10 Mbps with no issues at all,” said Adesh from PhiMetrics who did the PoC from ISP Leased line connection.

We knew that we were going into a crowded RF environment With lots of noise, but the xTend 3800 punched through it With no problem. The customer had data, voice, and streaming video service in less than one day. This gives us the ability to provide reliable, high speed connectivity on short notice. The large carriers simply cannot do that.”

Results

Test Mode	Type	Operating System	Application Testing				
			Internet Browsing	YouTube	WhatsApp Calling	WhatsApp Message	Hotstar
Walk	Outdoor	Android	✓	✓	✓	✓	✓
Walk	Outdoor	Android	✓	✓	✓	✓	✓
Walk	Outdoor	iOs	✓	✗	✗	✓	✗
NA	Indoor	Windows	✓	✓	✓	✓	✓
NA	Indoor	Windows	✓	✓	✓	✓	✓
Auto Logon	Outdoor	Android	✓	✗	✗	✓	✗
