



The All Wireless Residential Area: Shipra Sun City, Indirapuram Case Study

Using WLAN, Mobile Devices and Innovative IT to Serve our Area

- Approved by: Sudhir Singh, Secretary, Housing Society

Executive Summary

As a Pilot Proof of Concept for providing Public Wi-Fi, one of the clusters in Indirapuram, a residential society Shipra Sun City residing over 400 residents 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 residential complex to usher in a new era of Connectivity and IT service to its residents.



Scenario A:



Single xTend 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.)

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 75~100 m and beyond for the customer to seamlessly roam with Internet throughputs.

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 Rahul 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	✓	✗	✗	✓	✗

“We would like to thank XiFi Networks for implementing the complete Wi-Fi solution for Public Hotspot in our Block. Their prompt, dedicated and responsive support team during the implementation of the project was very well addressed to our needs.” says Kapil Sharma, Indirapuram RWA President