



Wi-Fi ON CLOUD



CASE STUDY

**Premium Technology
Education Institute**

Customer Profile

Industry:
Education

Established:
2008

A Little About The Institute

It is a group of institutes of higher education in India, focused on core areas of information technology such as Computer Science, Electronics and Communication and their applications in other domains.

The primary objective of establishing this institute was to provide high quality educational opportunities for the aimed rural youth of Andhra Pradesh.

IT Objectives at the Institute

The institute is driven by the objective to take technology and quality education closer to its students. With the same goal, the institute campuses called for a solution that connects the students over Wi-Fi, across the campuses.

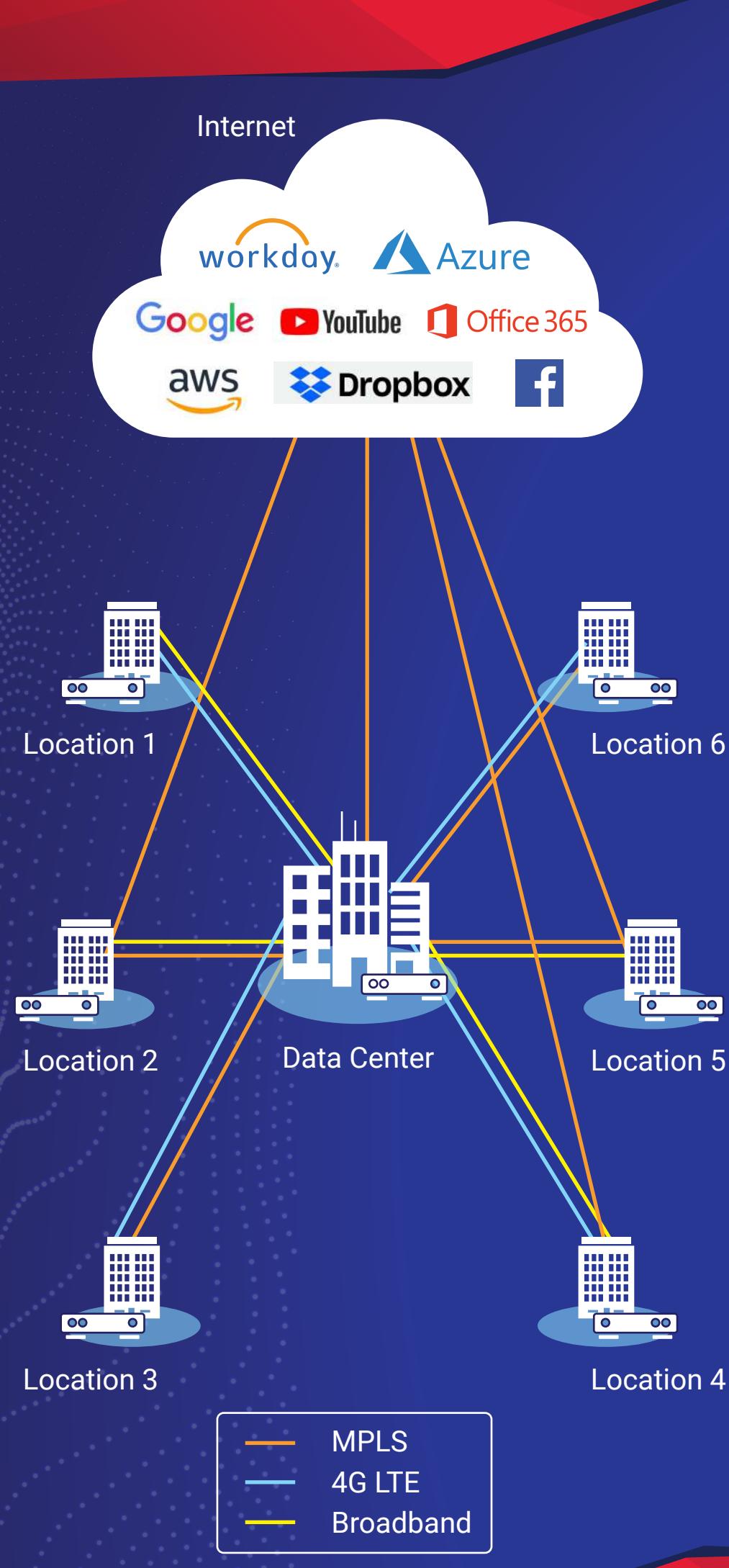
Solutions Deployed by Pi

Wi-Fi on Cloud

Extensive due diligence proved Wi-Fi on Cloud to be the need of the hour and the most suitable solution for the institute. This SDN based cloud-controlled campus-wide network including Wi-Fi provisioning from Pi, is the first of its kind implementation in India.

Challenges (Major)

- » Connectivity between all different locations of the spread across state along with redundancy
- » Application based traffic segregation
- » Support of Latency Sensitive & Bandwidth Intensive applications
- » Solution that requires any transport mechanism along with Load Balancing
- » No Single Point of Failure
- » Remote Sub campus – No road connectivity –Via RF Towers



Challenges (Minor)

- » Large area: multiple buildings, outdoor areas, remote campuses.
- » Planning for coverage, capacity, while minimizing cost
- » Performance monitoring, troubleshooting, analytics.
- » Wi-Fi access for guests

Benefits

- » **Path Selection:**
Path awareness intelligence by automated fail-over and fail-back mechanism
- » **Single pane of glass Management and Security**
Policy Configurations, Access Control, Tenant Provisioning, Remote Diagnostics
- » **Secure WAN**
Secure direct internet access for cloud applications for Latency Sensitive & Bandwidth Intensive applications
- » **Traffic Control**
Improved cloud application performance by prioritizing business critical applications
- » **Threat Prevention**
High performance with cost effective threat prevention capabilities

Pi owned the Supply, Installation & Commissioning of SDN based cloud-controlled campus-wide networking including provisioning of Wi-Fi for the institute's campuses.

The installation included core switches commissioned at admin buildings, with high switching capacity, which are capable of meeting 100G requirements. The Access Switches are installed at the classrooms, hostels and other buildings across the Campus where the internet and intranet facilities are to be provided.

This implementation provided a seamless internet and intranet connectivity to students via Wi-Fi across all buildings in the campus and also across the campuses.

Managed Services

The Wi-Fi on Cloud solution is packaged along with a wide stack of Managed Services from Pi. The Managed Services Stack delivered, includes:



Benefits (contd.)

» Application Control

Provides full control on creating policies to allow, deny, or restrict access to applications or entire categories of applications

» Web filtering

Provides defence against web-based attacks, malicious or hacked websites, trigger downloads of malware, spyware, or risky content

» Sandbox Cloud Service

Provides advanced threat detection solution that performs dynamic analysis to identify previously unknown malware and feed back into preventive controls within your network—disarming the threat.

Benefits Delivered

Ease of Use and Management



Wi-Fi on Cloud radically simplifies WLAN setup and management. Cloud based networking enabled provisioning, monitoring and troubleshooting the entire Wi-Fi network through a single web dashboard or mobile app, making it an easy task for the institute.

Ease of Access



The tedious task of transferring files back and forth between devices, across campuses and/or classrooms, has been significantly simplified with cloud storage. Online cloud storage solutions offered plenty of space for the institutes' data pools at low and affordable prices.

Uncompromised Security



Cloud has proven to be more secure, offering end to end encryption and protection against known exploits, malware and malicious websites using continuous threat intelligence. It also helped the campuses identify and stop threats with powerful intrusion prevention.

Scalability



Universities have the option to scale Up/Down, on demand. If the demand increases, they can easily scale up their cloud capacity without having to invest in any physical infrastructure.

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