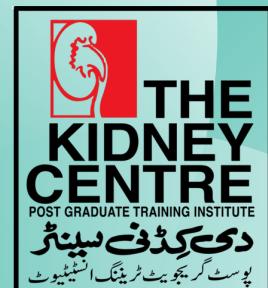# TRANSFORMING CONNECTIVITY AT THE KIDNEY CENTRE WITH HUAWEI E-KIT ENGINE WI-FI SOLUTION

Overview

The Kidney Centre, one of Karachi's leading renal care hospitals, was facing significant connectivity challenges that directly affected patient care and clinical operations. Large parts of the facility were considered *gray areas* with little to no Wi-Fi coverage. Critical systems. Barcode readers to digital reporting and inventory tools were operating manually or inefficiently due to unreliable connectivity.

The hospital relied on home-grade routers, which could not support medical workflows, staff concurrency, or secure clinical applications. Recognizing the need for a healthcare-grade wireless network, The Kidney Centre partnered with Jaffer Business Systems (JBS).

JBS deployed the **Huawei eKitEngine AP361 Wi-Fi solution**, a high-throughput, hardware-based access point designed for maximum coverage. The solution was fully tailored to the hospital's infrastructure needs. With 50 access points deployed across the facility, 180+ staff members now operate on a unified, reliable, high-performance wireless network which transformed clinical efficiency and patient care.

Solution overview

- **Solution partner:** JBS (www.jbs.live)
- **Solution implemented:**
  - **Huawei eKitEngine AP361 Wi-Fi solution**

Challenges

Gray Zones and Unreliable Connectivity	Significant areas within the hospital lacked Wi-Fi coverage, affecting medical devices and digital workflows.
Use of Non-Enterprise Home Routers	Existing consumer-grade routers could not support hospital-wide operations, high concurrency, or stable throughput.
Manual Processes in Clinical and Operational Areas	Bar-code scanning, inventory tracking, and digital patient reporting could not be executed consistently due to unstable connectivity.
Operational Delays and Inefficiency	Slow processes and network drop-offs affected service delivery, patient turnaround, and internal coordination.

The solution provided by JBS

JBS deployed a **custom-designed wireless ecosystem** built on the **Huawei eKitEngine AP361 (Wi-Fi)** platform. Key elements included:

- **Hospital-Wide Coverage with 50 Access Points** – Eliminated gray areas by providing robust, uniform Huawei Wi-Fi access across all clinical and administrative zones.
- **High-Performance Huawei Wi-Fi Network –** AP361 provides a throughput of 1.775 Gbps, enabling high bandwidth, high concurrency, and fast data transmission.
- **Hardware-Based, Enterprise-Ready Deployment** – Tailored by JBS to align with hospital infrastructure, medical workflows, and mobility requirements.
- **Enablement of Critical Healthcare Applications** – Supported Pixera radiology software, barcode-based workflows, vitals monitoring, and real-time reporting.
- **SLA-Backed Support** – Ensured reliable operations and minimized downtime with dedicated JBS and JCS teams (solution designed by Salman; deployed by Waqar and Munif).

How it solved the challenges

Eliminated Connectivity Dead Zones

Hospital-wide Huawei Wi-Fi coverage ensured that all departments operate on a stable, unified network.

Enabled Smart Healthcare Workflows

Barcode scanning, digital reporting, and Pixera diagnostics now work seamlessly.

Improved Operational Speed

Tasks that previously took minutes or required manual checks are now completed instantly.

Real-Time Inventory Monitoring

Stock tracking and forecasting shifted from manual paperwork to real-time digital systems.

Enhanced Staff Productivity

180+ staff members now access medical systems, patient data, and internal tools without interruption.

Why JBS

- A **proven track record** of successful project deliveries with measurable outcomes
- **Expert-level certifications** in cybersecurity, guaranteeing deep technical expertise and best-in-class implementation

Key benefits of the solution

- **Hospital-wide Wi-Fi coverage with 50 enterprise access points**
- **Real-time patient reporting, vitals monitoring, and barcode workflows**
- **Digital inventory forecasting and operational planning**
- **Support for radiology and diagnostic software (Pixera)**
- **Improved staff efficiency with stable high-performance connectivity**
- **SLA-backed performance and network reliability**

Conclusion

By deploying the Huawei eKitEngine AP361 Wi-Fi solution, JBS transformed The Kidney Centre's fragmented and unreliable connectivity into a unified, enterprise-grade wireless infrastructure. Critical medical applications — from Pixera radiology to vitals monitoring — now function seamlessly, while operational processes have shifted from manual to real-time digital execution.

With enhanced accessibility, reliability, and clinical efficiency, The Kidney Centre is now better equipped to deliver uninterrupted, high-quality patient care — powered by intelligent connectivity and JBS's end-to-end implementation expertise.

Contact us

Learn how JBS can help secure your organization with future-ready AI-powered solutions.

🌐 *Visit: www.jbs.live or contact us at marketing@jbs.live*