# ZyXEL

## Success Story

## ZyXEL Strengthens Communication Network Infrastructure of Turkey's Bucak Public Hospital

## Overview

**Customer Name**
Bucak Public Hospital

**Customer Industry**
Health care

**Challenges**
• Set up a network switch VLAN in public hospital
• Ensure network security and stability

**Solutions**
• 24-port GbE L3 Switch with 10GbE Uplink
• Smart Managed PoE+ Gigabit Ethernet Switch

**Benefits**
• Improved efficiency and continuity within hospital
• Increased customer satisfaction
• Strengthened network security
• Streamlined network management
• Easy backup
• Improved network performance

## Background

Bucak Public Hospital is a health care facility devoted to providing high-quality and modern services to its patients. With new projects being implemented, the facility is making progress toward reaching that goal. The hospital was established in 1985, and at that time housed 50 beds. Today, the institute has over 266 beds. The hospital provides top-quality services to all its guests with a premium placed on patient and employee satisfaction. To achieve this, Bucak Public Hospital has chosen ZyXEL for its network upgrade.

## Challenges

The project called for the installation of a network switch VLAN that would provide a safe and stable network environment for hospital staff and management. The upgrade would allow for the secure transfer of sensitive data within the hospital facilities. After completion, the hospital would be better equipped to handle the increased volume of patients efficiently, improving levels of care and staff productivity.

![ZyXEL]

## Solutions and Benefits

Bucak Public Hospital works hard to provide high quality and modern services to its customers. With project's implementation, the hospital is making progress in reaching that goal. The institution continues to provide high-quality services to all its patients and guests, and places particular value on patient and employee satisfaction, which is what cemented the decision to work with ZyXEL on this network upgrade.

The network infrastructure of the two client rooms within the hospital were upgraded with the installation of two ZyXEL XGS Series 24-port GbE L3 Switch with 10GbE Uplink to maximize business continuity and performance. Also, a cabin-based VLAN was implemented using manageable GS1910 Series Smart Managed PoE+ Gigabit Ethernet Switch. Security and management features of the network computers were established by defining broadcast control, security, flexibility and static VLAN across the network

infrastructure. Between the side switch in the current cabinets, as well as the network infrastructure and switch, a Cat6 F/O cable was used to increase the link aggregation performance while providing an option for back-up.

The implementation of the upgrade created an effective communication network based around ZyXEL switching products that feature the latest technologies. The project, which was supported by solution partner Adanet Bilgi Teknolojileri, enhanced data security in critical areas of the hospital. The installation of the VLAN increased business continuity and performance across the network.

## Product Used

### XGS-4528F 24-port GbE L3 Switch with 10GbE Uplink

- Fully managed Layer 3 switching solution
- High performance switching with 10GbE uplink connectivity
- Resilient networking with RSTP, MSTP, MRSTP, ECMP and VRRP support
- RIP, RIPv2, DVMRP and OSPF for advanced routing applications
- Advanced security with multilayer (L2/L3/L4) ACL, Guest VLAN and CPU protection
- CoS, DSCP, IGMP snooping v1, v2, v3 and MVR for convergence Future-proofed with IPv6 support

### GS1910 Series
### Smart Managed PoE+ Gigabit Ethernet Switch

- Advanced Smart GbE L2 ACL switching features
- 48/ 104 Gbps non-blocking switch fabric
- IEEE 802.3at Power over Ethernet Plus Supports IPv6