



Success Story

ZyXEL Solution Powers Security System at Kuyumcukent Business Center in Turkey

Overview

Customer Name
Kuyumcukent

Customer Industry
Business Center

Challenges

- Network spread across two city blocks and seven floors-high
- Solution must allow for affordable, ease of upgrade

- Heavy workload requires high-performance, dependable components

Solutions

- Layer 2 Managed Switch
- L3 Switch with 10GbE Uplink

Benefits

- Network able to transmit instant and continuous high-quality images
- Improved security and sense of public order
- Stackable switches enable flexibility and ease of management

Background

In today's world, it is important to be able to take precautions against security violations, whether they occur indoors or out, including the ability to provide photographic evidence to help solve crimes. A strong network infrastructure is needed to access and manage a system of IP cameras and to support the data traffic at large companies and business centers.

The Kuyumcukent area in the Turkish capital of Istanbul is a unique combination of jewelry production, marketing, and sales operations spread across two blocks of streets and seven floors. A gross

construction area of 328,000 m² makes it one of the largest business centers of this type anywhere.

IP cameras are used to monitor activities and provide security, both inside and in the outer sections of the bustling business center. This means a robust, dependable infrastructure capable of delivering secure, uninterrupted operations to the thousands of people that Kuyumcukent services each day is crucial for the area's network administrators.

Challenges

Kuyumcukent is one of the biggest jewelry centers in the world, so to be able to provide a secure environment for all employees, business owners and guests of Kuyumcukent is a major priority. For this reason, monitoring critical points of all floors and buildings continuously and remotely is extremely important for providing complete security, enabling quick response time when necessary, and recording the possible public order violations.

For Kuyumcukent, there was a need to maintain public order and provide security surveillance using IP cameras at one of the world's leading business centers focused on crafting, marketing, and selling jewelry. Once the scope of the project was defined, the goal was to install a solid network infrastructure for all IP cameras to be able to stream high quality images continuously.

Solutions and Benefits

After careful consideration, a solution utilizing ZyXEL Gigabit fiber switches was selected for the Kuyumcukent IP camera project, implemented by ZyXEL business partner Mobese, Inc. The Gigabit fiber transceivers enabled all of the cameras deployed in the business area to be connected through switches. This way, the entire network infrastructure achieved a bandwidth that can support traffic at a high gigabit level, while offering continuous operation thanks to ease of management and the hardware compliance provided by the ZyXEL solution.

ZyXEL's approach allows instant and continuous transmission of high-quality images from the cameras thanks to stackable backbone switches. The XGS4700 Series and GS2200 Series switches used in

the project also offer flexibility for upgrades in the future.

Another benefit is that switches now remain operational even in periods of heavy traffic. High-level management tools offer administrators more power to do their job quicker and more efficiently, and with CPU protection, error ratios have been reduced while uninterrupted operation times have been increased.

With the new ZyXEL solution in place, smooth access has been achieved for all the IP-based security cameras. In addition, the network infrastructure that supports these has become remotely manageable and the 24/7 up-time of the cameras provides the capability to detect possible failures instantly, and make necessary replacements quickly.

Product Used



XGS4700 Series 24/48-port GbE L3 Switch with 10GbE Uplink

- IPv4/IPv6 Routing
- L3 advanced routing protocols, OSPF, DVMRP, VRRP and ECMP
- Optional modular 10 Gigabit Ethernet support
- Multilayer-aware (L2/L3/L4) ACL for security protection and traffic optimization
- Guest VLAN
- IGMP Snooping v1, v2, v3, MVR
- sFlow, CPU protection
- RSTP, MSTP, MRSTP, VRRP
- Removable fan and power modules



GS2200 Series 8HP/24P GbE L2 Switch

- Comprehensive L2 switching features
- Dual-personality (RJ-45/SFP) GbE interface
- Port security and enhanced 802.1X port authentication
- MAC freeze and intrusion lock
- 8 IEEE 802.1p hardware priority queues
- WFQ, WRR and SPQ queuing algorithms

About ZyXEL Communications

ZyXEL Communications Corp., founded in 1989 and headquartered in Taiwan, is the leading provider of complete broadband access solutions. As one of the early modem manufacturers, ZyXEL has gone through transformations in the fast-paced networking industry. Delivering cutting-edge communications innovations to more than 400,000 businesses and more than 100 million consumers throughout the world, today ZyXEL is one of the few companies in the world capable of offering complete networking solutions for Telcos, small to medium-sized businesses, and digital home users for a wide range of deployment scenarios. Telco solutions include Central Office Equipment, Customer Premise Equipment, Wired and Wireless Access Network Devices, and Carrier Switches. SMB and Enterprise solutions include Unified Security Gateways, LAN Switches, WLAN, and IP Telephony. Digital Home solutions include Network Connectivity Devices and Multimedia Solutions.

The company has 1000 employees and distributors in 70 countries, reaching more than 150 regional markets. The ZyXEL Communications Corp. includes 35 subsidiaries and sales offices and two research and development centers worldwide. For more information, visit the company's Website, <http://www.zyxel.com>.

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