Radisson Blu Leogrand Hotel Chisinau

Information System Upgrade and Data-Transmission Network Construction of Radisson Blu Leogrand Hotel, Chisinau for IPTV OTRUM Enterprise Smart and VoIP AVAYA.

PROJECT

As part of this project S & T Mold, as the system integrator, was tasked to develop and implement a comprehensive data-transmission system for the hotel complex. Among the basic requirements of the client to the system, which have been taken into account in the development of the project, it was also particularly noteworthy the following:

1. Safety and efficiency
2. Scalability and controllability
3. Consistency with the transmission protocols of streamed video and voice.

IMPLEMENTATION

The following decision was implemented after a detailed analysis of the terms of reference and close cooperation with the customer.

Since the hotel was located in a multistore building, and the equipment was distributed by the floors, and there was a dedicated control room, the horizontal and vertical scheme of cabling infrastructure wiring was approved. FTPCat6 twisted pair cable was used to establish horizontal links on the floors, while vertical links were established with high-speed, high-density optical cable, which was duplicated with a classic star schema with a common aggregation vertex in the control room.

The latest HP Office Connect 1950c24 Switch Series and 48-Port Gigabit Switches were proposed as access equipment. 10GbE ports available even in the base models which allow bundling multiple switches in the stack and using them as uplinks are a distinctive feature of these series.

The network core was built on Aruba 5406zl modular switch. The choice of this model was determined by its following benefits: ability to backup all switch components (power sources, control modules, and expansion cards), full compliance with the standards and requirements of the manufacturers of the implemented IPTV and VoIP systems, high performance and safety, availability of a wide range of expansion modules for this switch.

IPTV streaming servers and digital PBX were connected directly to the line cards of the core network switch. All links were duplicated and aggregated into logical channels for capacity growth.

Radisson Blu Leogrand Hotel, Chisinau (formaly Leogrand Hotel & Convention Center) is the only 5-star hotel in Moldova, affiliated with Radisson Blu international hotel chain.

This fact guarantees the highest quality and perfection of services that the hotel offers its guests and partners.

In addition to 143 rooms and suits, the hotel infrastructure also includes Convention Center, six rooms for various meetings and events, four restaurants, casino, SPA center and other options.

Availability of data-transmission network central management has significantly simplified the process of its monitoring and adjustment, which significantly reduced the time spent on maintenance of the entire network infrastructure as a whole; moreover it became possible for administrator to carry out these actions remotely in 24/7 mode. Traffic prioritization protocols (QoS) were configured and priority classes were created for administrative, IPTV, VoIP and other traffic.
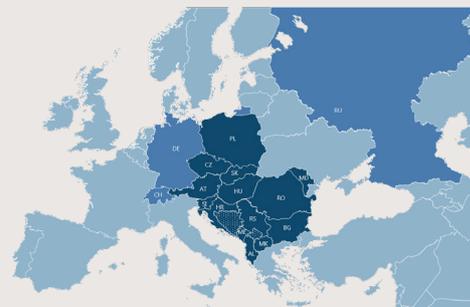
Protocol stack and IGMP hardware tools were involved for continuous and quality IPTV work. Various traffics on Vlan level and access policies were separated. Security mechanisms such as DHCP, DNS, IGMP Snooping, Port Security, Storm Control, etc. were utilized.

Located on the floors wireless access points for the hotel guests were connected from each of the rooms to the access switches in addition to IPTV-receivers and local network ports.

OUTCOMES

It became possible to optimize the used network equipment without compromising the quality of services provided by applying VLAN technology for separation of various purpose networks together with customized access policies.

In conclusion, it is worth noting that HPE LifeTime guarantee, which is valid for all installed equipment allows the customer to address for support not only to the S & TMold service center, but also to the manufacturer directly for the early elimination of the encountered problems when they occur. The manufacturer also provides a lifetime warranty on the replacement of malfunctioning equipment.

S&T was established in Moldova in 1995, as a company representing the Austrian company S&T System Integration&Technology Distribution AG.

Today S&T Mold is a leading provider of IT solutions and services on the Moldovan IT market, as part of the S&T international group of companies that also operates in the Central and Eastern Europe and in the CIS.

S&T Mold provides customers with comprehensive high-end solutions, including those provided by our strategic partners - leading corporations, such as Hewlett-Packard, Cisco Systems, Microsoft, Oracle, VMware, EMC, Barracuda, Check Point, and APC.

We provide system integration services, including:
• consulting;
• development and project management;
• solutions implementation and commissioning;
• user training;
• warranty and post-warranty service.

We have years of experience and a balanced product portfolio, and can therefore come up with the best IT solutions for financial and communications companies, public agencies, industrial companies and retail networks.