Modernization of the Data Centre of the National Statistical Institute

The new information infrastructure of National Statistical Institute (NSI) is in line with the requirements of Eurostat and ISO / IEC 27001 standard "Information security management systems", thus increasing the capacity and capabilities of the state hybrid private cloud

NSI's information assets meet the requirements of the standard in terms of server infrastructure provisioning, storage infrastructure, backup and network management software and network components.

Key facts for customer:

Company name: National Statistical Institute

Industry: Government

Solution Key Facts:

Vendor: Minkels, Montair; Legrand

Services: equipment delivery and installation, integration of HVAC, equipment parameters monitoring, fire detection and extinguishing, access control and security systems

Challenges

- Deploying multiple systems on a small area
- Construction works during running data center services without interruption
- Installation of new Accurate Air Conditioning system without deterioration of operating conditions of data centre

Solutions

- Precise implementation plan developed along with the customer
- Staged implementation
- Constant monitoring of the execution and impact on the data center performance
- High work hygiene
- Specialized design documents developed for co-ordination between systems
- Customized Accurate Air Conditioning system for customer needs

Results

- Separating three different areas - server room, staging and technical room.
- Provided Accurate Air Conditioning system with N+1 redundancy
- Provided N+N redundancy
- of the power supply by separating current circuits
- Implementation of monitoring system, including tracking of power parameters.
- Improved server room security via an aspirating smoke detector (ASD)

Story behind the project

The equipment in the existing customer data center was located in two separate halls, with air conditioning not providing precise and effective adjustment of the required humidity and temperature for the operating equipment. Existing electrical installations did not provide the necessary redundancy of the power supply.

The project was carried out in three stages:

Stage One - Server Room

- Reserve all electrical and communication connections to ensure continuous operation of the center.
- Provide additional air conditioning in the room to take over all the equipment during the redevelopment.
- Move the active equipment while rebuilding the new server room.

Stage two - technical room

- The equipment was installed in the mounted Minkels cabinets in the newly-built server room.
- Temporary air conditioning on the server room was provided.
- Installation of MontAir precision air conditioners in the technical room to provide operation of the data center.
- Installation of a new Legrand main electrical switchboard serving data center as well as new switchboards for each power line

Stage three - launch of systems

- Switching on power distribution boards
- Launch of fire and extinguishing systems, access control and security.
- Launch of a precision air conditioning system
- Launch of a monitoring system

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The final result is a separate room with new server cabinets with intelligent PDUs, new power supply lines, new Accurate Air Conditioning system , as well as security and fire safety systems. All maintenance equipment is separated into a specialized technical room with an integrated monitoring system.

Why Telelink?

The National Statistical Institute chose Telelink to modernize the Data Center premises as professionals in delivering complete solutions to our customers. Our experts have been able to take into account all the features of the existing infrastructure and client's requirements and combine them with best practices and standards for data centers.