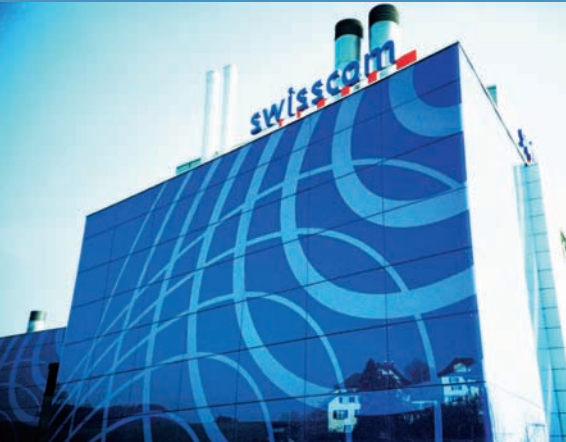


Swisscom integral building management system

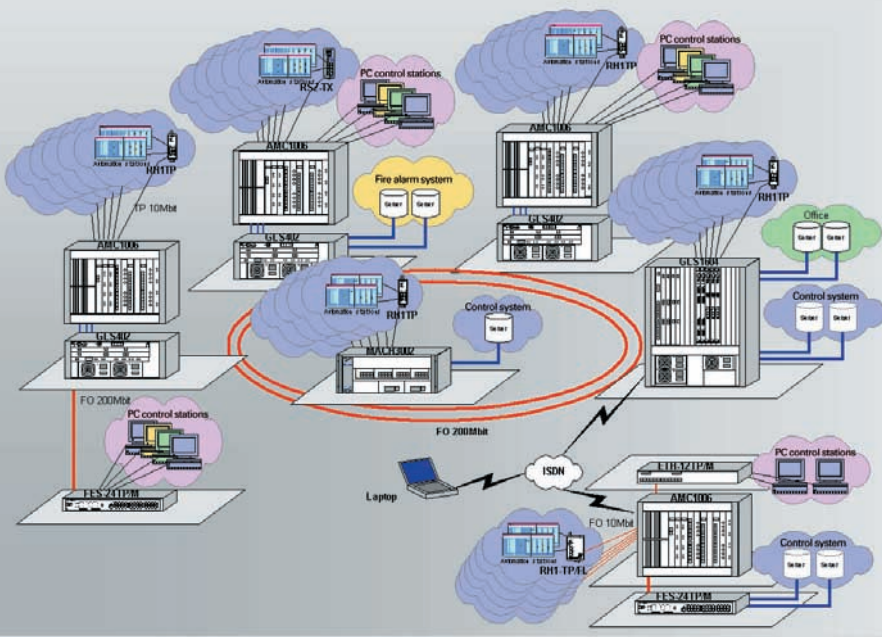


Technical centre Ostermundigen



Communication is no accident. For data to be able to flow in a computer centre like the technical centre at Swisscom in Ostermundigen, more than just power from a socket on the wall is required. A failure in the computer centre will affect the nervous system of a company, and as such results in high downtime costs. The corresponding requirement on the reliability and availability of the infrastructure systems for IT-based factories is enormous.

Network diagram



Key products



INDUSTRIAL
ETHERNET
Rail Switch
RS2-FX/FX



INDUSTRIAL
ETHERNET
Rail Switch
RS2-TX/TX

Multiprotocol
Router
X4000



HiPerformance
Modular Gigabit
ETHERNET Switch
MACH 3000



Building Automation





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Project description

Leicom offers suitable automation and data processing systems for this type of requirements on building services. As IT professionals, we understand the customer needs of organisations operating systems in this environment.

With redundant servers, communication networks and firewalls, we offer professional solutions for the infrastructure.

The integration of all key building services equipment in one user interface facilitates intuitive process control in different businesses. System transparency and the central data management for all system components on primary and redundant servers enable our customers to safely intervene. Remote access via ISDN facilitates safe and convenient access for the person on duty. There are various generations of automation equipment in the system.







Project parameters

- 76 automation stations in the technical centre, Ostermundigen
- 19 automation stations outside the technical centre, Ostermundigen
- 2 primary control computers with 2 redundant systems
- 2 island control computers
- Energy measurement as the basis for energy billing

Requirements

- Full coverage network based on ETHERNET
- Central optical fibre backbone (100BASE-FX)
- External buildings connected via FrameRelay / ISDN
- Remote access via ISDN
- Network access for notebooks at the automation stations

Other Hirschmann application notes:

-  **Connectivity**
-  **Enterprise Networking**
-  **Automation Networking**
-  **Factory Automation**
-  **Process Automation**
-  **Transport Automation**

Solution

- Modular switches with optical fibre and twisted pair
- Optical fibre for longer connections
- Full coverage 100 MBit/s switched
- Router with FrameRelay WAN protocol and ISDN for remote access
- Linux server operating system
- HiVision network management
- Apröl control system software for:
 - Communication with the automation stations
 - Information display and alarms
 - Control
 - Energy data acquisition
- Operation via PC and X-terminals
- Export functions for energy data
- Features:
 - 6 building automation control computers
 - 2 fire alarm system control computers
 - 3 office environment servers
 - 20 PC workstations
 - 95 automation stations with a total of 122,000 data points
 - 1 MACH3002 / 1 GLS 1604 / 3 AMC1006
 - 1 AMC 502 / 1 ETS12 / 1 FEH24 / 1 FES24
 - 2 ASGE / 2 Rail Switches RS1-TX
 - 17 Rail Hubs RH1-TP/FL
 - 64 Rail Hubs RH1-TP

Why Hirschmann?

- Availability (MBTF)
- Common product family
- Scalability
- Industrial standard products
- Manageable components

References

- Payserv, Zurich
- Canton hospital, Basel
- Main railway station SBB Zurich

Your Hirschmann representative

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