

Project details:

The project was planned by PRODUS S.A., Hirschmann Partner in Poland, which focuses on project management, and high performance integration of advanced computing, telecommunication, automation, and security systems. The state-of-the-art high-availability solutions offered by PRODUS for this project are ideally suited to the industrial sector, and are based on proven products and systems from manufacturers such as Hirschmann. These solutions guarantee absolute flexibility: from integration, through modernization, to system expansion. In this case the customer needed to separate two networks:

- the Masterbus network, which is used to connect all the QCS/DCS process stations.
- the TCP/IP network, which is used to link the other networked devices.

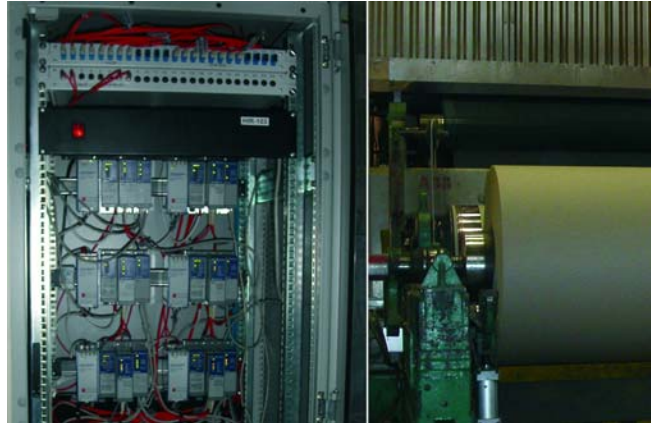
Stora Enso Poland opted for the Hirschmann MICE family, because it facilitates future network expansion, as well as providing flexible hot-swap component replacement and addition without stopping the production process. The complex network structure was built using only five different Hirschmann components. This simplified the installation process, and guarantees minimum operational costs throughout the entire network lifecycle.

Project parameters

- 8 technology island
- Double LAN network
- Copper and Fiber Optic connections
- 100Base-FX Industrial Backbone
- Ethernet TCP/IP standard protocols

Requirements

- Operation in a harsh environment
- Integration of QCS/DCS platforms: Advant - ABB
- Fail-safe reliability
- Ethernet/ Fast Ethernet
- Easy network expansion and component replacement



Cabinet with Hirschmann products in the paper production lines / Paper roll production

Solution

- Double LAN structure,
- 100Base-FX Fast Ethernet HIPER-Ring backbone networks
- Copper star connections to workstations, servers, and ABB drives
- 8 technology island arranged for ease of operation and maintenance
- Network continues to function even when one technology island is powered down for preventive maintenance.
- MICE 2000 and 3000 family:
 - 8 x MS3124-4
 - 4 x MS2108-2
 - 22 x MM3 - 2FXM2/2TX1
 - 27 x MM2-4TX1
 - 21 x RPS 60

Why Hirschmann?

- High reliability
- Equipment works in extreme environmental conditions
- Industrial standard products
- Homogenous product family
- Hot-plug replacement

Germany

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