Case Study SVEN

Switching System for Video Contribution Network

Customer	**SRG SSR idée suisse (Swiss TV station)** **Media Services, Technical Operations**
Site	**SRG Headquarters,Zurich** **Planning Department, Technical Control Room**

Use

SRG SSR idée suisse (Media Services Technical Operations) together with the Cablecom company realized a new Contribution Network in Switzerland.

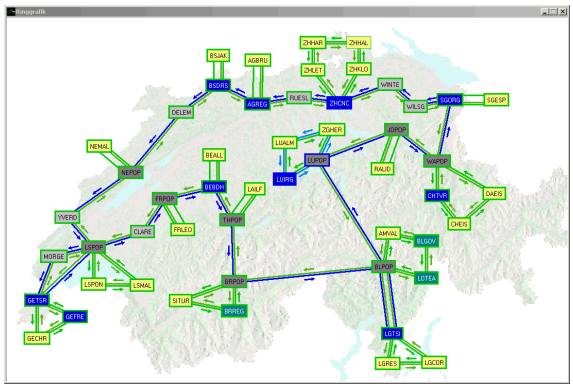
The Network connects more than 35 sites allover Switzerland: All TV studios (SFDRS, TSI, TSR and R/TV Bundeshaus), the CNCT (Centre Nationale de Coordination Technique) in Zurich, the local studios and sports stadiums, as well as further locations of other customers.

The service which Cablecom provides for SRG SSR is realized over a redundant backbone and various local rings. The infrastructure of the network is realized with iLynx components of the Belgium manufacturer BarcoNet.

The uncompressed digital video signal (with embedded audio) is transferred transparently over two joined STM-1 channels. With the STM-16 hierarchy of the Contribution Network parallel broadcasting of 16 SDI-signals is possible.

The contribution network is controlled by the CNCT in Zurich over the Management System Rosa (BarcoNet).

The system SVEN takes care of the scheduling of the whole network and establishes the connections.



Functions

The following services and functions are implemented:

- Network configuration
- Network information and assignment
- Planning and coordination of resources
- Establishing of links (switch & release)
- Conflict recognition, support of conflict removal
- Error handling in case of network alarms
- Maintenance support for the network components.
- Providing of statistical data
- Providing of accounting information
- System restart: Reconciliation of the network processes with the existing database in the Switching System SVEN
- User Administration

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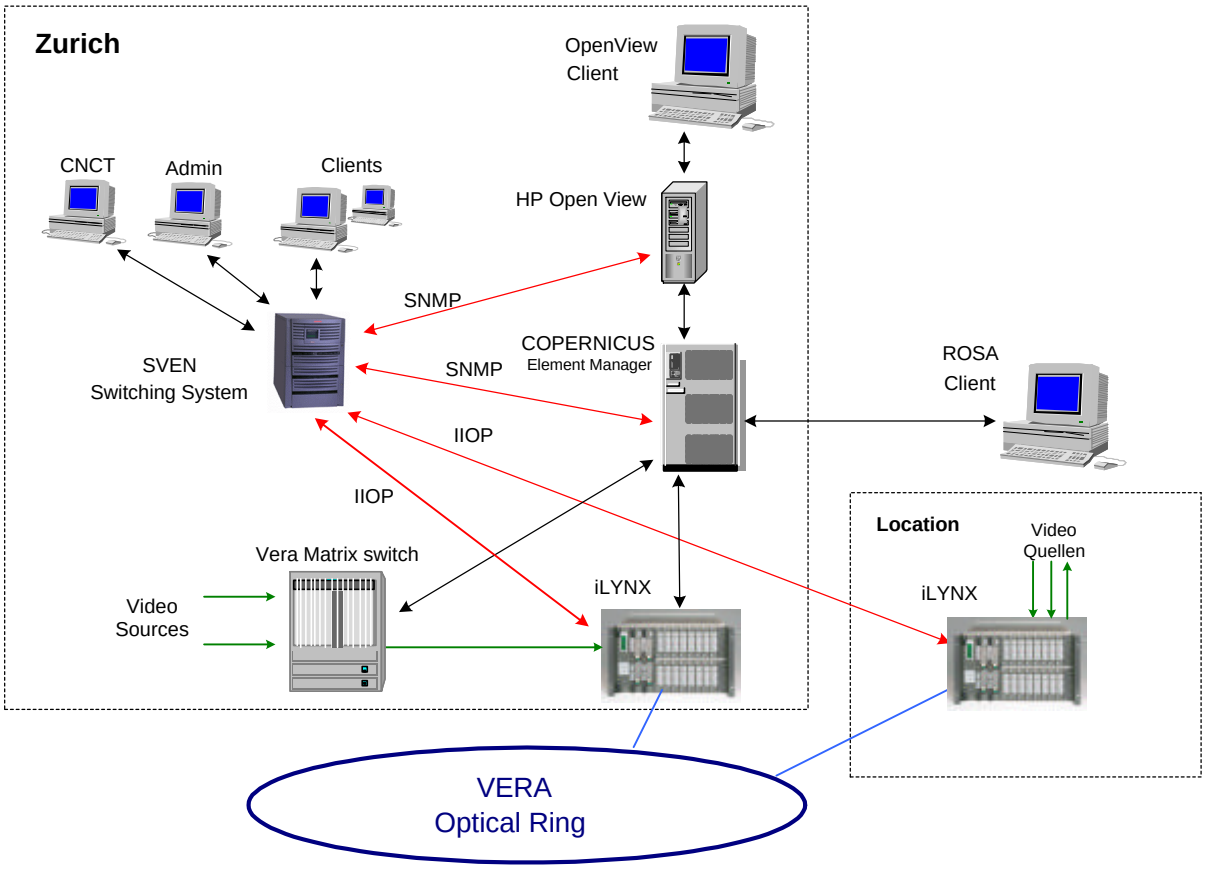
Configuration of the system SVEN



Solution

- The Switching System is designed as **Client – Server** solution. A Compaq-Cluster (AlphaServer) with Unix Tru64 is in operation.
- **Oracle** (version 9i) has been implemented as central data base.
- The user PC's are based on Windows 2000 connected over LAN.
- The client application (User Interface) has been implemented in **Delphi**
- The graphical user interface **GUI** allows the operator a comfortable handling with the Switching System. The usual Windows standards have been implemented.

Dimetis Services

Dimetis realized the software solution for the Switching System SVEN. This covers the following functions:

- Definition of functions and specification
- Realization concept (hardware and software)
- Software development and tests
- Implementation, installation and integration on site in Zurich