

Zeitschrift: Technische Mitteilungen / Schweizerische Post-, Telefon- und Telegrafienbetriebe = Bulletin technique / Entreprise des postes, téléphones et télégraphes suisses = Bollettino tecnico / Azienda delle poste, dei telefoni e dei telegrafi svizzeri

Herausgeber: Schweizerische Post-, Telefon- und Telegrafienbetriebe

Band: 58 (1980)

Heft: 11

Rubrik: Summaries and notices

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Summaries

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Multiprocessor-Controlled Siemens-Albis A64S Trunk Selector System

A. Schnorf, H. Matzinger and R. Fornara, Zurich

There exists a need in the trunk selector system to distribute the controlling functions of a large processor into several separate processors due to reasons of security and dynamics. A hierarchical system of up to 60 microcomputers takes over the controlling tasks of the Siemens-Albis A64S trunk selector system, which for the first time came into operation at the Zurich-Herdern at the end of 1979. The present article lays down the assumptions, system architecture as well as software and hardware aspects of the multiprocessor-controlled trunk selector system.

p. 413...422

Automatic Message Switching System (SAM)

W. Glur and R. Hostettler, Berne

With the procurement of the front-end computer for the line-switched telegram of the public telephone network the basis of the automatic message switching was founded. This article describes the design and the important characteristics of the new service. The greater part of the software was developed by the PTT staff. The initial operational experience and the possible further development are briefly treated.

p. 423...426

Models to Ease Estimation of Traffic Flow between Local Exchanges

L. Praz, Berne

The author explains how the distribution of traffic between different exchanges of an interconnected network can be defined or put into simplified equations. These problems arise at the time of each change of the network structure. The present study discusses the different problems and provides a few guidelines on these questions with the help of empirical methods.

News Items

Telephone

Customers on the **3-month plus waiting list** were only **4823** in Switzerland at the end of June, of which 49 pc were due to occupied lines and 32 pc due to lack of installation at the subscribers.

Schreckhorn mountain hut (2490 m) was connected recently to the public network by a wireless telephone with solar cell batteries.

Without any interruption the traffic flowed through the earth station Leuk in the first half of this year in spite of the construction and the integration of the second antenna which became operational in February.

The following **new international circuits** from and to Switzerland were opened in the months of August and September: Montreal (6), Karachi (2), Tripoli (14), Sri Lanka (2), Japan (12).

Teleinformatics

Switzerland's 30 000th telex terminal became operational on 26 August 1980 in Arzo (Ticino).

Since 1 October **automatic telex service** to 20 further extra-European countries has been available. This relieves existing manual exchange lines in Zurich by about 50 pc and at Berne by about 25 pc.

Public facsimile service was extended to **Kuwait** on 1 August and to **Japan** on 1 September. Thus, 14 extra-European countries including Argentina, Australia, Bahrain, Bermuda, Canada, Guam, Hong Kong, Japan, Kuwait, the Philippines, Puerto Rico, Singapore, Taiwan and the USA are now connected to this service.

The **first official telefax directory** is published in October. It contains all the PTT customers and the (known) owners of private facsimile sets which meet the standard of the CCITT group 2 in Switzerland.

For the **extension of the automatic message switching system (SAM)** the PTT has ordered for November 1981 another U-3760 facility. This service was opened to the public on March 1979, but the capacity of the first installation is almost loaded up at present. After comple-

tion of lengthy tests **Zurich packet node switching centre for the Euronet** of the European Economic Community became operational on 29 October.

The **contract** to supply, install and put into operation the **pilot network** for the electronic data dialling with **packet switching (EDWP)** was given to Zellweger Co with the subcontract for switching equipment to Northern Telecom (Canada). The switching centres at Geneva, Berne and Zurich will be ready for operation in autumn 1981.

Radio, Television

The **tunnel communications system** for the newly opened 17 km long Gottard road tunnel not only serves the cantons of Uri and Ticino for their needs of safety and entertainment but the PTT as well for services such as FM radio programmes, car radiophones and later car radiopaging. The FM programme can also when needed transmit information from the traffic control centre.

In mid-May 1980 the **new regulation on protection against electromagnetic interference** came into force replacing that of the year 1966. The regulation provides the basic measures to be taken when electrical equipment and apparatus interfere with radio transmission equipment which is licensed or approved by the PTT.

Miscellaneous

The **volume of the PTT business** continued to grow in the first half of 1980. Compared with the same period of last year, postal service increased by 4 pc, telecommunications service by 4.8 pc, outgoing international telephone calls above 10 pc. National trunk calls and telegrams as well as outgoing international telex traffic were up between 5 and 10 pc.

An **invited delegation of the Swiss telecommunications industry** held conferences and exhibitions in Peking and Shanghai, People's Republic of China, between 5 to 15 September.

Negotiations on worldwide utilization of 900 MHz band, especially for CB radio, took place among the CEPT countries, the USA and Canada. Due to wide variations of operational requirements for the countries of North America and Europe there will always remain some differences.