

# Summaries and notices

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## Summaries

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### Evaluation of Cleaning Substances and Processes for Relay Contacts

Th. Gerber and M. Wiedmer, Berne

This investigation conducted during several years serves to clarify the maintenance measures for telephone relay contacts using contact cleaning substances more efficiently. With a carefully chosen substance in combination with appropriate mechanical cleaning the new increase of contact resistance can be considerably deferred.

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### Modernization of Local Exchanges

H. Krebs and F. Weber, Berne

Prior to the implementation of the integrated telecommunications system (IFS) no further new intermediate system will be introduced. The existing local exchange has to be updated through modernization to meet the requirements of IFS and the potential of today's electronics and computer technology. This article describes the basis, objectives, performance characteristics, as well as the technical realization and expected dates of modernization of local exchanges of the Standard Telephone and Radio Co, Hasler Co and Siemens-Albis Co.

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### Telepac Pilot Network

M. Schaeren, Berne

The Swiss PTT is currently constructing a national switched data network of packet switching technique designated as Telepac. The first step will be a pilot network which includes three switching nodes and an operational center for gaining the necessary knowledge and experience. A number of usual transmission media allows the connection with data terminals from all parts of Switzerland. The offered interfaces and services correspond to the proposed recommendations of the CCITT and they meet today's real needs of interactive data transmission. Already in the near future worldwide uniform standards for interconnecting switched data networks are expected to be realized. The creation of the switched data network allows the telecommunication administrations to gain again more footing in an increasingly important area

of communications which was left so far largely to the private manufacturers of data processing equipment.

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### Automatic Telephone Traffic with Foreign Countries

J. Muri, Berne

In June 1982, the implementation of international direct dialling from Switzerland was completed. The author explains the reasons that led about 25 years ago to the corresponding decision as well as the resulting consequences of technology and personnel.

In the third quarter of 1982, **14 new exchanges** were opened and 37 exchanges were extended, whereby 23 760 new main lines became available to telephone subscribers.

The equipment for **crew mobilization SMT 75** have been extended to two different types: **small equipment** and **autonomous equipment**. The small equipment can mobilize upto 895 subscribers of an exchange. Whereas the autonomous SMT, employed in medium and large exchanges, can call-up members of mobilization crews of a telephone exchange independent of the remaining SMT equipment.

Additional **satellite circuits** to and from Switzerland via Leuk were established in October 1982: **Kenya** (2) and **Kuwait** (3).

## News Items

### Telephone

On 11 November 1982, the **3 millionth subscriber** was connected to the Swiss public telephone network.

For the first time in Switzerland a **TASI-System** (Time-Assignment Speech Interpolation) is implemented at Zurich-Herdern switching centre for the USA. This will almost double the traffic flow by switching an additional user during the speech pause. When the system is completed, it can handle a maximum of 240 telephone circuits instead of 120.

Switzerland's first **565 Mbit/s transmission system** will come into operation between Zurich and Winterthur in the middle of 1985. It will allow to transmit 7680 telephone channels or an equivalent amount of digital data channels. Recently, the Philips Co in Zurich was selected to supply the system.

The **optical glass fibre cable** is completed between Lausanne and Morges consisting of two operational systems and one spare, each of 8 Mbit/s capacity. It can transmit 240 telephone or a corresponding number of data channels.

All Swiss **telephone directories** have now a page with **emergency call numbers** and one with **First-Aid** instructions.

### Teleinformatics

The **Ateco-System** (automatic telegram switching with computer) which was implemented on 10 May 1971 completed 100 000 operational hours at the beginning of October 1982. The system availability amounts to above 99.943 pc.

The Swiss federal government decreed the **change of telegram ordinance** which states the telefax and public facsimile as well as the message switching services to be the PTT public services from 1 January 1983.

The **automatic telex service to Bangladesh, Belize and Dominican Republic** was opened on 1 November 1982.

The PTT took into operation two customer **automatic message switching networks for ITU** at Geneva in the month of October 1982. One network serves to distribute circular messages to 122 addressees and the other network serves for distribution of messages of the «technical cooperation» to 83 addressees.

### Radio, Television

From 1 January 1983, the PTT will **reduce the tariffs** for distribution of **foreign TV programmes** through its radio-relay links for CATV operators.