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## Summaries

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### Communications Planning Directives and Data Communications Concept of the PTT for 1980s

A. Kündig, Berne

The PTT has defined its position in relation to the customer requirements, technology, economy, standards, legal and political aspects within the framework of communications planning directives. In addition, it has outlined the general direction of teleinformatics services within the concept of data communications.

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### Implementation Tests of Telepac: Results and Conclusions

J. Pitteloud and B. Aeby, Berne

This article contains the results and experience gathered during the initial acceptance phase of the Swiss packet network Telepac. This phase was carried out as close as possible to the real operational conditions with the collaboration of the potential users of the network. The conclusions were drawn for the future acceptance procedures of the network as well as lessons to be remembered for future projects of teleinformatics.

p. 59...71

### Determination of the Optimum Replacement Time for Motor Vehicles

W. Steiner and H. Zobrist, Berne

The many factors which influence the determination of the optimum replacement time for service vehicles can be classified into two groups: quantifiable and non-quantifiable values. With the help of dynamic programming or optimization, a typical operations research method, all quantifiable values can be considered corresponding to their functions. Thus, it is possible to accurately calculate the optimum economic replacement time. After describing this method the authors mention also non-quantifiable influences. Finally, it is shown how the cost increases if these influences lead to a shift of the optimum economic replacement time.

## News Items

### Telephone

The PTT ordered 12,000 **telephone sets of Model 85** for operational trial, which should begin with 12 types of sets in 6 colour variations at 8 telecommunication districts in September 1983.

The automatic **alarm-call service** will be available to the **Delsberg exchange** area from 31 January 1983 onwards. Thus, all Swiss subscribers will have individual access to this service over telephone number 150. At present 14 million calls are made yearly.

On 1st January 1983, **100 years** ago, the **city of Lausanne** had its **first telephone service**. In memory of this event an exhibition on different epochs is now shown in that city. In 1880, the city of Zurich was the first to introduce the telephone to Switzerland.

The **international telephone circuits** from and to Switzerland increased by 84 for European countries and by 6 new satellite circuits to Venezuela in December 1982.

### Teleinformatics

A **Telescrit** telephone set, equipped with electroluminescent display and a keyboard typewriter, is now operating also at **Altdorf** for the convenience of customers with hearing problems. These sets

are located at several places in Switzerland.

The Radio Suisse Ltd has developed a **telex and data switching equipment MCS** for 1 to 4 office and 2 to 8 internal connections. This is expected to be offered to the customers from mid-1983 onwards.

### Radio, Television

In 1982, the PTT installed **5 new VHF/FM sound broadcast stations and 16 new transmitters**. The Swiss VHF/FM network now comprises 106 stations with 226 transmitters and transposers.

In 1982, the PTT constructed **8 new TV broadcast stations** and 34 new transmitters. The Swiss TV network has now a total of 415 stations with 1201 transmitters and transposers. It reaches more than 99 pc of the inhabitants with the 1st programme and 96 pc with the 2nd and 3rd programme.

In 1982, **51 VHF/FM transmitters were equipped with car radio information system (ARI)** to serve the main routes of the north-south axis (Basle—Chiasso) and east-west (Geneva—Romanshorn).

Last year, 58 out of 111 **candidates were successful in the technical supervision examination**. They were sent by the licensed radio and television installation firms.