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# Summaries and Notices

## Summaries

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### Concept of ISDN and Involvement in Switzerland with Swissnet

F. Zbinden, Berne

Swissnet began operational experimenting in October 1988. About three years were necessary to set up the required plans to carry out the development, to test the installations and to make it operational. A really short time if one takes into consideration the complexity and the extent of the whole project. The present article characterizes, on the one hand, ISDN in the technical functional respect and, on the other hand, describes the first phase of the introduction of Swissnet 1.

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### Development of the Public Radio Communication Mobile

R. Klingler, Berne

The research and development department of the PTT organized a colloquium on the public radio communication mobile. The development of the system known in Switzerland under the name of Natel (national auto telephone) is outlined in this report from the beginning to the present day. The development of a prospective mobile radio network throughout Europe in the future is also briefly commented on.

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### The International Competition in Telecommunications

#### Development of Markets, Globalisation, Influences on the Economy and Society

M. Nagel, Zürich

After fundamental remarks on communication and telecommunication, the author makes a few observations about the markets and the products as well as about the importance and the necessity of international norms. The author closes with the questions of deregulation and of competition between the suppliers as well as with a short prognosis of possible future development.

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### The Electronic Information Services X.400 are becoming consolidated

J. Pitteloud, Berne

This article summarizes the position of the standards of the electronic information services at the end of the current CCITT study period. After a review of the elements for the consolidation of the recommendations of 1984, the most important expansions of 1988 are described (the technical recommendations are described in the series X.400 and the service aspects in the series F.400). Then an overall view is given about the present technical course of action. The article closes with a listing of areas which are still to be intensively worked on.

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### Processing of Quality Data using a Telephone Station as an Example

P. Glättli, Berne

In this report the present processing possibilities of operating and repair data are described using a telephone station from the TS 85 series as an example. The emphasis lies on the side of the practical informatics rather than on that of the mathematics after the processing is done. Prospects for possible solutions for the future are subsequently developed from the conclusions.

## News Items

### Telephone

The new PTT-Modem Type PFM 2402 which works according to the CCITT V.21, V.22, V.22+ and V.23 will be offered to customer from Autumn 1989 onwards. It has options according to V.25+ (synchronous and asynchronous) and AT standard. It adjusts automatically to the speed of the apparatus called. It has an error correction MNP 2-5 and it is with v.22+ compatible with the PMD 9600.

In the Atlantic glass fibre ocean cable TAT-8 the following lines or 2 Mbit/s groups have been connected: 60 lines (2x2 Mbit/s) with AT&T New York; 2 DCMS (multi-line system), whereby with AT&T a total of 300 lines can be operated; 30 lines (1x2 Mbit/s) as Bearer Group for Switzerland and Austria with Canada, Australia and New Zealand, also with DCMS by which 90-110 lines for Switzerland and 60-80 lines for Austria were connected.

Within the framework of the Natel C phase 3 the following nine base stations were put into operation in June in the East sector: **Andelfingen, Au, Castione, Domat/Ems, Feuerthalen, Marthalen, Neuhausen, Oberriet and Sils.**

### Teleinformatics

For the **Business Communication**, the following new data connections were made: 1 connection with the **USA** via the satellite ground station Zürich/Herdern 3 (IBS/Intelsat 335.5°) with a transmission capacity of 2048 Mbit/s as well as 1 connection with **Austria** via the Zürich/Herdern 2 station (SMS/Eutelsat 7°) with a capacity of 64 kbit/s.

As a result of an examination of the **situation in the telex network** it was decided to build a new telex office in St Gall which should be put into operation the middle 1990. Thus it will be possible to replace one of the oldest of such offices in Zürich and to use the freed space in another way.

The first **2 Mbit/s lease line in the new glass fibre cable TAT-8** was put into operation between Geneva and New York.

On May 16 a **64 kbit/s lease line** London - Zürich was put into operation for a customer in the stock exchange business. It terminates on a talk/data multiplexer made available by the PTT.

In the past month, three 64 kbit/s lines London-Geneva were put into operation for the **QUICK-10E information network** in the West of Switzerland and 20 customer end apparatuses were installed.

A **video conference studio** is now available in the administrations building of the St Gall telecommunications office. The first taxed connection was established with Australia.

The city of Lucerne should also have its **own videotex programme** after the communications model municipality of Sursee. A limited company will be set up for this purpose. The actual go-ahead for this is planned for the end of November on the occasion of the Lucerne Christmas Exhibition.

The **Swissnet Concentrators Basle-Wall Street, Geneva-Grand Saconnex, Vevey and Zürich-Riedtli** which were used in the pilot plant Swissnet 1 are now fully integrated in the network. They were switched over from the model station Geneva-Grand Saconnex to the originally planned IFS stations without difficulty. As all the IFS stations Swissnet-1+ planned for Swissnet are already suitable, all the requirements for the commercial introduction of Swissnet 1+ have now been filled.

### **Radio, Television and Radio Communications**

A **FM transmitter for DRS 3** was put into operation on June 1 in Langnau i. E. It serves the regions of Signau, Langnau, Emmenmatt, Langerswil and Steinen on the 104.9 MHz frequency.

The **television sport chain** has been equipped with VPS (Video Programme System) in all language regions since May 25.

A further radio telephone network was put into operation for the **Post bus service** of the schedule group **Martigny-Le Châble**. It consists of three wire controlled fixed stations with five control apparatuses, 19 mobile stations and four hand mobile stations.

### **Miscellaneous**

An **obligatory information and instruction course** for all A-, B-, C licencees and electro-engineer offices took place on June 1 in Emmen/Lucerne. The participants were particularly informed of changes in the installation technics of the subscribers' telephone installations and the apparatus programme.

The PTT research and development department carried out a full day's seminar for the **RACE research programme** (Research in Advanced Communications Technologies in Europe) which conveyed an over all view of the programme and defining of position with emphasis on the projects with Swiss participation. Our country actively participates in 11 of the 94 projects from the first two inquiries.

The **16th International Television Symposium** with a technical exhibition took place from 17 to 22 June in Montreux. The symposium was devoted to production, diffusion over radio and cable, etc. The theme 'High Definition TV' (HDTV) was given particular attention. 350 firms from 30 countries took part at the technical exhibition.

A colloquium took place under the title '**The public radio communication mobile** - development, present, future' which pointed out the history of the development of the 'Autotelephone' in Switzerland and abroad and introduced the Pan-European mobile telephone system GMS (Groupe Spécial Mobile) of the future.