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# Summaries and Notices

## Summaries

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### Integrated Services Digital Networks – ISDNs

H.-K. Pfyffer, Berne

This article conveys succinctly an overview of essential characteristics of ISDN and points out the future development possibilities. The ISDN concept is explained and the important associated principles are outlined. The paper refers to later development possibilities such as the wideband super-ISDN. Besides, it states the functional elements of ISDN such as terminals at customer premises for a number of services that may be realized within a few years. The status of international standardization work in the CCITT and the CEPT is delineated as well as the situation of the ISDN activities in other countries. The first planned ISDN customer access of Swiss PTT is described.

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### Digital PABXs GFX1 and GFX1A

R. Barth, Berne

The first all digital PABXs GFX1 and GFX1A are now available in a wide application range from 32 to 760 subscriber lines. Due to advanced technology a simple, transparent and modular system configuration is achieved. This has a positive impact on the planning and the operation. An extensive range of performance characteristics can be offered. Also, the future requirements can be met by continued further development.

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### The new store and forward switching service for telex subscribers – Memo-Telex

F. Burkhalter and U. Zysset, Berne

The PTT has been offering a new store and forward switching service for automatic telex line since 11 august 1983. This service was developed in cooperation with Radio Suisse Ltd. This Memo-Telex is specially suited for messages that are very difficult to deliver due to an often occupied partner line or a destination country difficult to reach. The message is handed over to the Memo-Telex system by a tax-free number for further transmission. The system then takes care to call the party and to finally transmit the stored message. At present, more than 120 countries can be reached by Memo-

Telex service. This service will be soon extended worldwide comprising all countries with existing direct dialling telex system.

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### Measuring receiver set at 40 GHz to 60 GHz

J. Siegenthaler, Berne

A sensitive measuring receiver set at 40 GHz to 60 GHz was built to extend the

frequency range of spectrum analysers, especially to measure the upper harmonics of small radar equipment. The development of a mechanically tunable Gunn oscillator and of a new Gunn diode casing with extremely small parasitic element enables a large RF tunable range. It has reached a sensitivity of  $-115$  dBm within 100 kHz measurement bandwidth in the total frequency band. This corresponds to a receiver noise figure of 10 dB.

## News Items

### Telephone

Connecting with **Malaysia, Pakistan, Togo, China** and **Canada**, 7 permanent additional telephone circuits were brought into service over the Leuk earth station.

On 1 January 1985, new reimbursement rate for **international settlement of accounts on telephone traffic** came into force **between telecommunication administrations of Europe and North Africa**. It is based on the fairness principle to cover the service cost.

The PTT paid around 25 million Swiss francs to foreign organizations and administrations for **utilization of circuits and space segments**. It received around 4 million Swiss francs from foreign countries for the use of transit circuits.

### Teleinformatics

At the end of November 1984, **160 155 music telegrams** had been delivered since the date of introduction of this service in February 1984.

The **Press network of the Swiss political correspondence (SPK)** was switched over to 300 baud and all subscriber terminals were equipped with electronic typewriters.

With the availability of **floppy disc** to the **telex SP 300**, the subscribers have access to a further supplementary set. Besides additional storage capability, the floppy disc extends the capability of the telex station to a text processing system with automatic dialling and transmission, call repeat as well as programmable time for message transmission and logbook.

Since the end of 1984, the **telepac network** has been serving all subscribers who were connected till then to the **Euronet** and the **Data-Link**.

Switzerland had already transmitted 20 000 messages through the **Memo-telex** service which is available to all countries worldwide except to Andorra and Bahrain.

### Radio, Television

The **CATV operators** installed **48 small communications satellite earth stations for the reception of TV programmes from Eutelsat 1 F-1** till 6 december 1984. The PTT approved 69 requests.

After two further **VHF simplex relay stations** came into operation for **radiophone service** between fixed and mobile stations, there were 64 similar stations available to 5600 subscribers at the end of 1984.

The **national car radiophone network (Natel)** consisted of 298 speech and 74 call channels at 69 sites in Switzerland at the end of last year.

For the **Swiss Postal coach service**, about **550 mobile sets** connected to **37 networks** were employed at the end of 1984.

### Miscellaneous

The **performance objectives** in the **telecommunication area for 1985** are as follows: net telephone stations (+82 000), net telex stations (+1200), telephone traffic (+5.3 pc), telex traffic (+5.7 pc) radio receiver licences (+29 000), television receiver licences (+32 000). All these increases correspond to a performance rise of 4.7 pc.