

# Summaries and notices

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## Summaries

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### Evaluation of Subjective Assessment for Medium Frequency Reception from Vertical Radiators

Walter Fenner, Berne

Important information was missing for the evaluation of medium frequency reception. Therefore, test signals were transmitted alternately at 1566 kHz over Sarnen and Monte Ceneri-Cima transmitting stations. Tape recordings were made at seven places within the broadcasting area of German and Raetoromansh languages. A test tape was prepared and played for subjective evaluation to listeners invited from all parts of German speaking Switzerland. The result of the evaluation confirms previous test campaigns. The transmission from Ceneri-Cima is better than from Sarnen in the commentary section of the radio programme. No clear difference of quality can be noticed between the two stations in music and entertainment programmes.

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### Opening the International Connections of the Swiss Telepac Network

Bernard Aeby, Berne

As standard of interconnection between the packet-switched data networks, the provision of the CCITT Recommendation X.75 has greatly contributed to the extension of the offered service to the users. Today, one may say the user has the world at his finger tips. This is equally true of Telepac, the Swiss packet-switched network. The author presents the principles of interconnection of packet networks as well as the different technical aspects of practical tests in view of offering high quality of service to all users of the Telepac network.

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### Trends in the Magnetic Recording Technique for Audio and Video Signals

Werner Grau, Ludwigshafen

The first magnetic tape appeared 50 years ago. Today, it is almost indispensable in recording and reproduction of sound, picture and data. New types of tape were developed and their application area was greatly extended. Further development will lead to still greater economy, longer play duration, higher

frequency response or higher storage density. The particles to be magnetized, the so-called magnetic pigments, play an important role in providing the required low noise and the condition of higher magnetic moment. Thus, new application forms such as, for example, 8 mm video

or digital storage in signal processing pose new tasks for development and require new manufacturing techniques. The author thinks these possible new recording techniques may reach maturity and take their share of the market only in the 1990s if at all.

## News Items

### Telephone

The PTT signed contracts for **one digital telephone subscriber exchange for the integrated telecommunication system** with each of the following firms, Siemens Albis Co, Standard Telephone and Radio Co and Hasler Co.

The PTT placed an order for **416,000 telephone sets of the new generation model 85** at the joint venture Tritel (Autophon Co, Gfeller Co, Zellweger Uster Co). Delivery to the subscribers is expected from mid-1985 onwards.

The **Leuk 1 antenna** was redesigned and expanded for the **Indian Ocean Region**. It will gradually take up traffic.

A **56 kbit/s data network** was opened between **Berne and New York** in April 1984.

In the first quarter of 1984, **24,989 new telephone subscriber lines** were procured by extension and new equipment.

Within the past three months, **43 PABX** were put into operation.

### Teleinformatics

For the first time, the PTT placed a contract for a **digital communications system** Hasler SL-1N. Further such systems are planned and the general introduction is foreseen for 1985.

### Radio, Television

On 3 May 1984, the **Swiss Pay TV** started operation over ECS-1 satellite. The feeder link at Zurich-Herdern earth station was procured by the PTT for the Pay Sat Co, which is an operational entity of the Swiss carrier for Pay TV (STA). Now it can offer its services to other cable networks besides the cable network of Rediffusion's "Teleclub" of the Zurich region. First, the Pay TV service can be offered to German speaking Switzerland and later also to foreign subscribers.

Last year, the PTT district offices dealt with 6466 (1982: 9396) **notifications on interference of radio and TV receivers**. However, 50 pc of these were due to faulty installation of the receiving equipment.

At the end of 1983, **radio transmitting licenses** rose by 21 pc to 78 276 and **licensed transceivers** went up by 14 pc to 188,012. There are around 5000 licenses and 15,000 sets for the private radio telephone systems in the 27 MHz band.

### Miscellaneous

The PTT's **1983 account** closed with a cost coverage index of 101 pc (100 is equal to net cost covered) overall. The indices of individual services are: telecommunication services 116 pc and postal services 81 pc. The detailed breakdown of the telecommunication services is as follows: telephone 115 pc, teleinformatics 119 pc, wire broadcasting 85 pc, radio broadcasting 112 pc and television 121 pc.