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Summaries and Notices

Summaries

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Fundamentals of the Integrated Telecommunications System (IFS)

W. Suter, Berne

As the telecommunication system of the future, the IFS shall be capable of accommodating a wide spectrum of services and facilities; besides telephone services, it shall permit data services to be introduced economically as the need arises. It is largely digital in concept, with switching and transmission based on the 64 kbit/s PCM channel. Centrally located stored programmes will control the larger telecommunication regions. The system is so structured that at any time new additions can be made in the latest technology. Besides the boundary conditions imposed on the system, the general network structure, safety precautions, control-information exchange philosophy and call processing are described.

p. 411...419

Telephone Model TS 70 RG with Automatic Dialler for 20 Subscriber's Numbers

B. Nuoffer and A. Scheidegger, Solothurn

Some introductory remarks on the growing demand for additional functions in telephones are followed by a description of the universal store, design, circuitry and operation of the present model. In conclusion, the reasons justifying the incorporation of additional functions into the subscriber's station are given.

p. 420...424

Experience with the V 300 Cable Carrier System Laid out along Railway Lines

U. Blömker, Backnang

The V 300 carrier system on 1.2/4.4 mm coaxial cable has a 300-channel capacity in the 60 to 1300 kHz band. Between the end of 1972 and the beginning of 1974, measurements were made of remote-powered, pilot-regulated intermediate repeaters connected in series on a 96 km test section along a Swiss Federal Railways track in Canton Ticino. The article describes the layout and long-term behaviour of the test line. It is shown that in this environment the existing CCITT recommendations on level stability, noise performance and insensitivity to power-line interference are met with wide margins.

News Items

Telephone

A six-month field trial of 300 **remote-powered 12 kHz charge indicators** of a new design for table and wall mounting has started in Telephone Regions Basle, Biel and Lucerne.

A total of 411,495 calls were made to **No 166, Stock Market Report,** the PTT's latest recorded information service, from its introduction on 15 December 1976 to the end of June 1977. The weekly average was 14,700 calls.

In March and April Switzerland's subscribers used **ISD facilities** on **94.7 pc** of their international calls (52.18 out of 55.05 million charge minutes).

Semi-automatic telephone service has been opened to **Guatemala, Turkey, Senegal, Angola and Mozambique.**

Direct satellite circuits to the Ivory Coast and Taiwan were opened via Pleumeur-Bodou and Raisting respectively at the beginning of August.

On 3 July IBM Switzerland handed over the PTT the **TERCO computer system,** whose first users will be the Regions' directory editing and enquiry offices.

Flooding and landslides caused by July's torrential rain in the **Berne and Thun Telephone Regions** blocked roads and damaged a number of subscriber's cables as well as the Thun-Zweisimmen trunk cable and the Berne–Neuchâtel–France coaxial link. The cost of repairs is estimated at 300,000 francs.

Telegraph, Telex, Leased Circuits

A new system of word counting for international telegrams will become effective on 1 October. It provides for **every ten characters** of a word or code group, etc. to be counted as one chargeable word.

Telegram service to Czechoslovakia now uses joint gentex/telex circuits between Zurich and Prague.

Telex service to Western Samoa was opened in July, and **IXSD to Ecuador, Colombia, Paraguay, Peru and Surinam** became available on 1 September.

On 1 August **Radio-Suisse Ltd** opened their **DATAC database service,** which provides access to American data banks and computer centres.

Radio, Television

Berne Telephone Directorate is trying out a **supervisory system** enabling radio and television stations to be monitored and equipment to be switched as required from the Region's headquarters.

In July **Switzerland's television network** was extended by 14 translators relaying the German (6), French (4) and Italian-language (4) national programmes.

In the first half of 1977, calls made by the some 100 airlines using **Swiss PTT's Radiophone Service with Aircraft** increased by 100 pc over the same period of last year.

Work has started on the antenna support of the new **microwave station** on **Mt-Gibloux** (Ct Fribourg) which will link the **CATV feeder networks** of Switzerland's German and French language regions and enable them to exchange broadcasts from neighbouring countries.

The 25th VHF simplex relay for **radiophone service between fixed and mobile stations** came into operation at Les Ordons multipurpose station in July. It serves parts of northwestern Switzerland.

Miscellaneous

A transitional **Cable Broadcasting Ordinance** for the period up to mid-1981 became effective in Switzerland on 1 August. It specifies the conditions and requirements to be met by licensed CATV operators wishing to broadcast their own, local radio and television programmes on an experimental basis. Advertising of any kind as well as wireless local broadcasts are prohibited.

The **Republic of Chad** has joined **Intelsat** as the 96th member country.

The **Intelsat network** at present comprises **140 earth stations** with 174 antennas in 82 countries and provides more than half the intercontinental telecommunication channels as well as regional and national links for nine countries.