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Summaries

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Synchronous Data Transmission over the Digital Trunk Network: General Aspects

R. Vallotton, Berne

The digital public telephone network, built and further extended by the PTT, is also well suited for the transmission of data. To this purpose the 64 kbit/s digital channel is often divided into 2.4, 4.8 and 9.6 kbit/s data signalling rates. The data terminal equipment is connected to the network via simple baseband interface modems V.24/V.28. For the user of the remote data processing the digital trunk network clearly shows an advantage over the analogue trunk network.

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Data Transmission for the Bitrates of 2.4, 4.8 and 9.6 kbit/s

J. Hürzeler, Berne

The PTT has developed new digital transmission equipment in order to meet the requirements of the customers utilizing data terminals of the middle user class (2.4, 4.8 and 9.6 kbit/s). The equipment is connected to the existing digital trunk network which will provide complete digital service with higher transmission quality and availability to the data terminal user.

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Control Data Flow within the Analogue Concentrator of the IFS

M. Wizgall and W. Kraemer, Stuttgart

This paper presents a study on the control data flow within the microprocessor controlled analogue concentrator of the future integrated communications system (IFS). After a short description of the structure and the operating mode of the concentrator two models are presented, one for simulation and the other for calculation. The evaluation procedures and their results are discussed in detail. This leads to interesting insights into the traffic pattern of the controlled concentrator taking account of the network structure into which the concentrator is embedded.

News Items

Telephone

In the **Europe—Japan pool 4 cable and 13 satellite circuits** have been added during the 11th accounting period (October 1979 to March 1981). Thus, it increased to 100, of which 33 cable and 67 satellite circuits. In 1980 the average growth rate of telephone traffic was 24.3 pc (1979: 22.7 pc) and the automation level extended from 44.9 pc to 47.8 pc.

Additional satellite circuits to and from Switzerland were opened in March and April: New York (1) via Leuk and Hongkong (1) via Raisting for Radio-Suisse Ltd, as well as Lagos (4) and Pittsburgh (6) via Leuk for the PTT. In the **transatlantic submarine cable** 8 circuits to and from Switzerland to New York came also into operation during the same period. Switzerland along with Denmark and Italy is using the CCITT R2 signalling system for 29 telephone circuits.

Complete automatic telephone service to Djibouti and Madagascar has been available since 1 May.

Teleinformatics

Since 1 April **Gentex to Italy** is out of service because a permanent connection for telegram has been established between computerized exchange centres of

Italy (Italcable) and Switzerland (Ateco) along with 20 other transit countries.

In March **Telefax service** was supplied to 188 subscribers and 65 service lines. A new Telefax directory will soon be issued for Switzerland and the Principality of Liechtenstein.

From 1 June the **Telex service** has been automated with the following countries: Ethiopia, Antigua, Chile, Gibraltar, Grenada, Guam, Haiti, Saint Vincent, Saipan, Svalbard (Spitsbergen) and Tortola. Almost all European (100 pc) and extra-European (98 pc) countries are currently provided with automated telex service.

Telepac is the new designation for packet communications network (until now EDWP) in the data service of the Swiss PTT.

Miscellaneous

The **demand for the telephone, telex as well as leased circuits** is still increasing in 1981. Compared with the same first quarter of last year, the telephone lines and stations went up by 21 886 (3.1 pc) to 2 861 347 and 40 529 (1.7 pc) to 4 652 911, respectively. The telex lines went up by 605 to 31 631 (of which 361 for the Principality of Liechtenstein) and the number of leased circuits by 117 (of which 104 in Switzerland, 11 within Europe and 2 in overseas) to 3190. Whereas, the number of wire broadcasting receivers dropped by 2104 to 405 462.