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# Summaries and Notices

## Summaries

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### The Development of Integrated Telecommunications System (IFS): Objectives and Organization

A. Kündig, Berne

The development of Integrated Telecommunications System (IFS) was put on a new basis in 1980/81. The article states the important objectives of this project and the corresponding schedule. The paper also describes the organization required to accomplish these tasks besides several basic comments on the development of complex processor-controlled system.

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### Specification Methods for Logical Sequences in Real-Time Systems

E. W. Vogel, Berne

Specification methods for logical sequences in real-time systems are gaining increasing importance as communication means for documentation, analysis of internal sequences through computer, simulation, verification, etc as well as in the area of design methods. The author attempts to clarify theoretically the real basis of the specification and which methods of formal (ie from computer interpretable) specification are at one's disposal. These methods are explained through examples from references.

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### Decentralization of the French «Téléjournal» Production to Geneva

D. Cupelin, Berne

At first, the author describes the history of the development of the French TV programme «Téléjournal» at Zurich and the transfer of the programme production to the Geneva studio of the Swiss Broadcasting Corporation. Then he outlines the studio equipment, especially the micro-processor-based control and monitoring unit, the method of using the recording set as well as the time encoding device.

## News Items

### Telephone

At the end of 1982 there were **468** (1981: 459) **subscriber lines**, respectively **771** (1981: 751) **telephone stations** per 1,000 inhabitants in Switzerland.

The **Swiss telephone network** was extended by 298,975 wire-pair km of **local subscriber line**, and 28,975 wire-pair km of **junction line** in 1982. Installed **coaxial cable** went up to a conduit run of 3,051 km. More than 15,368 telephone circuits connect Switzerland to foreign countries, of which 1,362 to overseas (cable: 574, satellite: 788).

Last year, the **Swiss microwave telephone network** was extended to 11,912 of wideband channel, or to 5,468,880 km of voice channel.

**Satellite circuits** via **Leuk earth station** last year increased by 79 to 621, connected to 26 extra-European countries. Further, 166 permanent circuits are leased from foreign European earth stations.

### Teleinformatics

In 1982, the **mobile telegram office** was used in 23 occasions during 111 working days. 3,561 press messages were transmitted, ie an average of 32 per each working day.

**Bureaufax service** was extended from 20 to 24 countries and 31,000 A-4 pages were transmitted last year. The **telefax service** has been available to 503 (1981: 353) subscribers with 99 service lines.

**Telex terminals** rose to 537 (1981: 514) per 100,000 inhabitants at the end of last year. In 1982, 6,268 **electronic telex SP 300 sets** were delivered to the telecommunications districts, of which 70 pc has message storage and 21 pc with perforated tape capabilities. Already 10,288

subscribers possess the electronic telex sets. 10,565 or 30.6 pc of telex subscriber lines are connected to the electronic exchanges.

**Automatic message switching system (SAM)** connected 43 customer networks with 3,694 message terminals at the end of last year. This service is offered to the public over the telex network.

**Leased circuits** on trunk routes at the end of 1982 reached 4,039, an increase of 465 over the previous year. These circuits were shared between 79.3 pc telephone circuits and 20.7 pc telex channels. The number of modems in operation increased by about 25 pc to 23,885, of which 63 pc were placed in the leased circuits and 37 pc in the public switched telephone network.

At the end of 1982, 172 (1981: 138) subscribers are connected to the public telephone network for the **pilot videotex trials**. During that year, the information users occupied the system 4,400 hours and the information providers 3,100 hours. Since the beginning of the trials the total occupying duration has been 25,050 hours.

### Radio, Television

**Radio broadcasting receiving licenses** rose to 363 per 1,000 inhabitants and the **television receiving licenses** to 320 per 1,000 inhabitants at the end of the last year.

**Local radiopaging service**, which was opened in Zurich and in Berne on 15 January 1982, has already around 1,150 subscribers.

### Miscellaneous

In 1982, the Swiss PTT ordered **telecommunications equipment** worth around 1,586 million francs, which is 340 million francs more than in 1981.