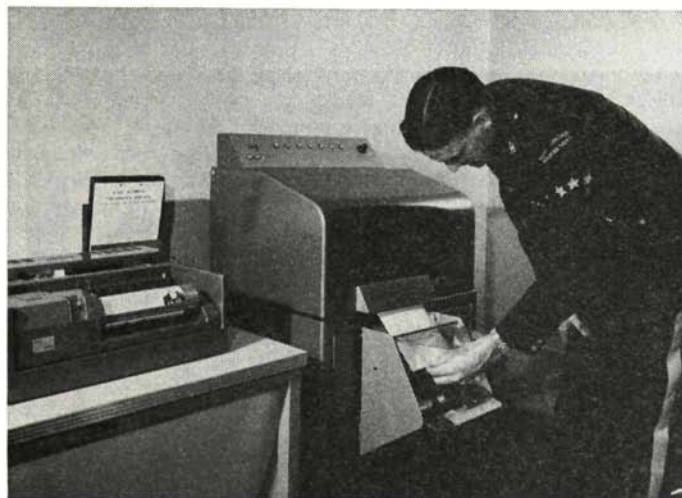


TWX, similar to Telex, is provided by the major Canadian telephone companies. One transmission speed of 100 words a minute is offered on this service, the network of which consists of some 3,000 subscribers in Canada and interconnects with the American Telephone and Telegraph network of 37,000 TWX subscribers and also with the European and world-wide Telex network outside the North American network.

A medium-speed Telex service is offered exclusively by CN-CP Telecommunications, operating in the speed range of up to almost 300 words a minute. The subscriber may own his computer or data sending-receiving equipment or may lease this equipment from CN-CP. This service provides a direct dial interconnection with subscribers anywhere in Canada to achieve a medium-speed range transfer of data from one location to another. The monthly rates to subscribers are the same as the standard-speed Telex service, that is, are based on time-used and distance. A six-level code, an eight-level code, and punched computer cards can operate on the medium-speed service.

**Broadband Exchange Service.**—In 1967, CN-CP Telecommunications introduced an automatic switching system of the most advanced design, known as Broadband Exchange Service, which has moved Canada into a new era of extremely high quality and very rapid communications. It is the first such system to operate in Canada and the second in the world. Broadband has more than tripled the fastest conventional machine-to-machine transmission. Furthermore, it has the capability, upon customer demand, of transmitting computer data at 51,000 words a minute, or more than 50 times faster than the top speed reached by conventional switched networks. The Royal Canadian Mounted Police was the first organization to be tied into this supersonic network, using it for intricate and high-quality transmission of fingerprints, photographs and documents between headquarters at Ottawa and divisional headquarters at Montreal, Toronto, Winnipeg, Edmonton, Regina and Vancouver. In 1968 the network will be extended westward to Victoria and eastward to Fredericton, Halifax and St. John's and, when installation is complete, the facsimile network will embrace an area of over 3,000 miles, probably the longest network of its kind in the world.

Its name, Broadband Exchange Service, is derived from the actual system since subscribers eventually will be able to select various bandwidths, depending upon their communications needs. The broader the bandwidth, the higher the quality and the



An RCMP communications officer receiving a facsimile of a set of fingerprints and photographs through CNT's supersonic network called Broadband Exchange Service, an automatic, switching system of the most advanced design.