

# INTERNATIONAL TELECOMMUNICATION UNION

## ITU-T RECOMMENDATION SUMMARY

**Rec. No. :** V.17

**Title :** A 2-wire modem for facsimile applications with rates up to 14 400 bit/s

**Study Group :** XVII - Data Transmission over the Telephone Network

**Version :** New

**Date of adoption :** 1991

Notes :

Recommendation V.17 defines the modulation methods and operating sequences for a modem intended only for use in high speed facsimile applications.

Appropriate T-Series Recommendations should be consulted regarding operating procedures and other features employed in facsimile transmission applications, as these differ from those recommended for high speed modems for general applications.

The modem has the following principal characteristics:

- a) Provision for half duplex operation at data signalling rates of:
  - 14 400 bit/s synchronous,
  - 12 000 bit/s synchronous,
  - 9600 bit/s synchronous,
  - 7200 bit/s synchronous;
- b) Quadrature amplitude modulation with synchronous line transmission at 2400 symbols per second.
- c) Inclusion of data scramblers, adaptive equalizers and eight-state trellis coding.
- d) Two sequences for training and synchronization: long train and resync.

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