# CATS router

| **Date :** 28.04.1998 | **product line :** CATS tool |
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## ROLE

The CATS router is a telecom interface that allows to connect a sensor with one or many position analyzers, local or remote. It is a flexible and inexpensive building block to establish the interconnection of lightning detection networks. CATS router handles the IP and X.25 protocols transparently and avoids using hardware equipment such as X.25 switch, PADs or routers.

## PRINCIPLE

The CATS router acts as a raw data server. When it starts, it establishes an X.25 connection with the sensor and waits for X.25 or IP connections from clients requesting the sensor's raw data. When a message (DFO) is received from the sensor, it is immediately dispatched to all the clients connected to the server. The CATS router offers one bi-directional X25 or IP link (from one client to the sensor) for maintenance purposes, the remaining links are unidirectional (from the sensor to all the clients).

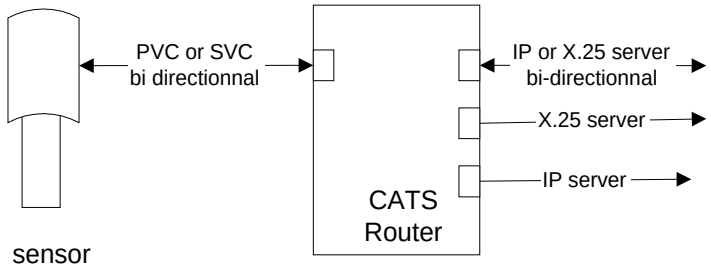
## FUNCTIONS

- Connect one sensor to a position analyzer or another CATS router, using X.25 or IP
- TCP/IP and/or X.25 raw data server.
- convert TCP/IP to/from X.25.
- Manage an X.25 auto-call to reestablish a Switched Virtual Circuit.
- Handle Permanent Virtual Circuits
- Provide statistics.

## PRE-REQUISITE

A workstation equipped with:
- SOLARIS 2.5 and SOLSTICE 9.1
- An X.25 board

## ARCHITECTURE




## SAMPLE CONFIGURATION

Two CATS routers are used to interconnect separate networks: