

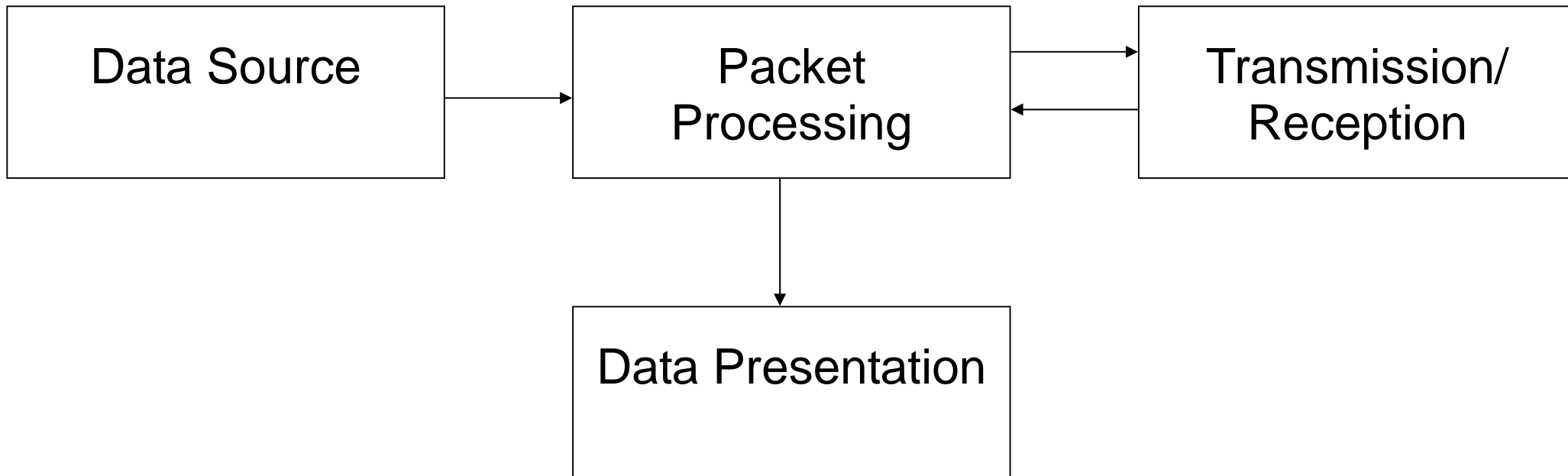
# **A**utomatic **P**osition **R**eporting **S**ystem

What?.....How?.....Why?

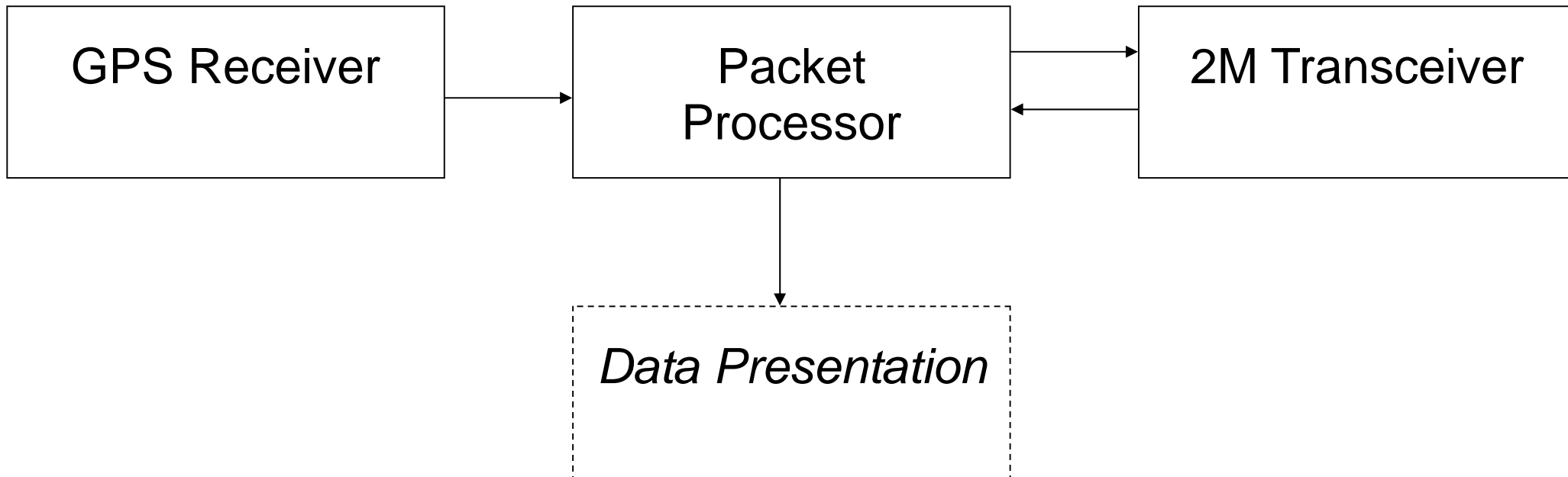
## APRS—What is it?

- A system for digital tactical data communication
- Introduced in 1992
- Developed by Bob Bruninga, WB4APR
- Uses the AX.25 packet protocol
- Special APRS packets embedded in AX.25 packets
- Operates in un-connected mode
- Mainly on 144 mhz (144.800 in Europe)

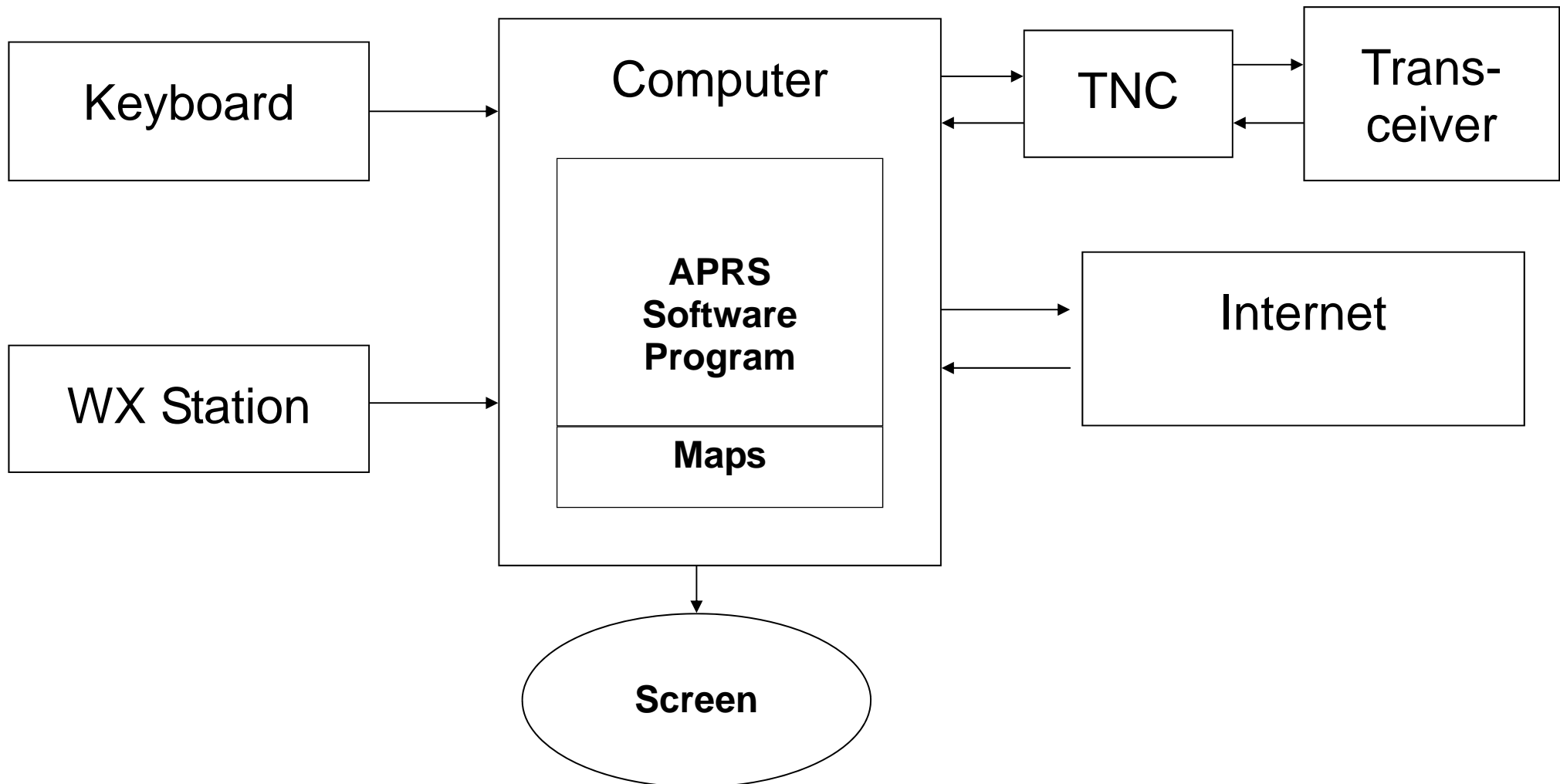
## Generalised Model of APRS Station



## Typical Mobile APRS Station

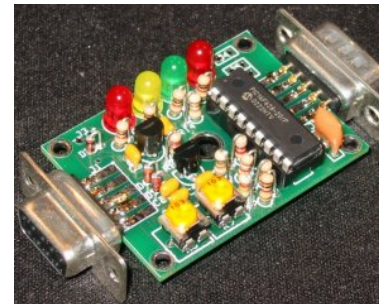


# Typical Fixed APRS Station



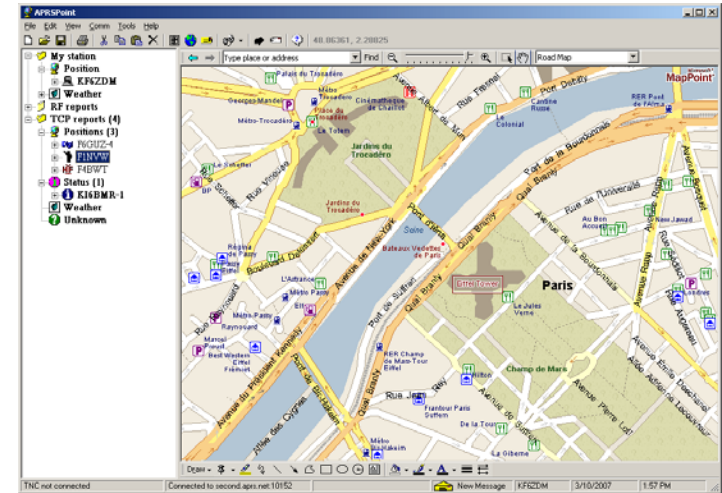
## Mobile APRS Station—How

- GPS Receiver—with serial output
- Integrated Option
  - Kenwood D700/D710 or
  - TH-D7A
- The other Option
  - Existing Transceiver
  - TinyTrak or Open Tracker



# Fixed APRS Station—How

- Computer (MAC, Windows, Linux)
- APRS Software
- Maps
- TNC
  - Physical (e.g., Kantronics), or
  - Software (AGW-PE)
- Transceiver
- Internet Connection
- WX Station (optional)



## Extending the Range

- Digipeating
- APRS Internet Servers
- IGATES
- APRS Database and Search Sites

## APRS — Why?

- Disseminating WX Info
- Public Service Events
- Tracking mobile stations in emergencies
- Text Messaging
- Email
- We're hams — do we need a reason?