



Thomas Watson

@wa7son

github.com/watson



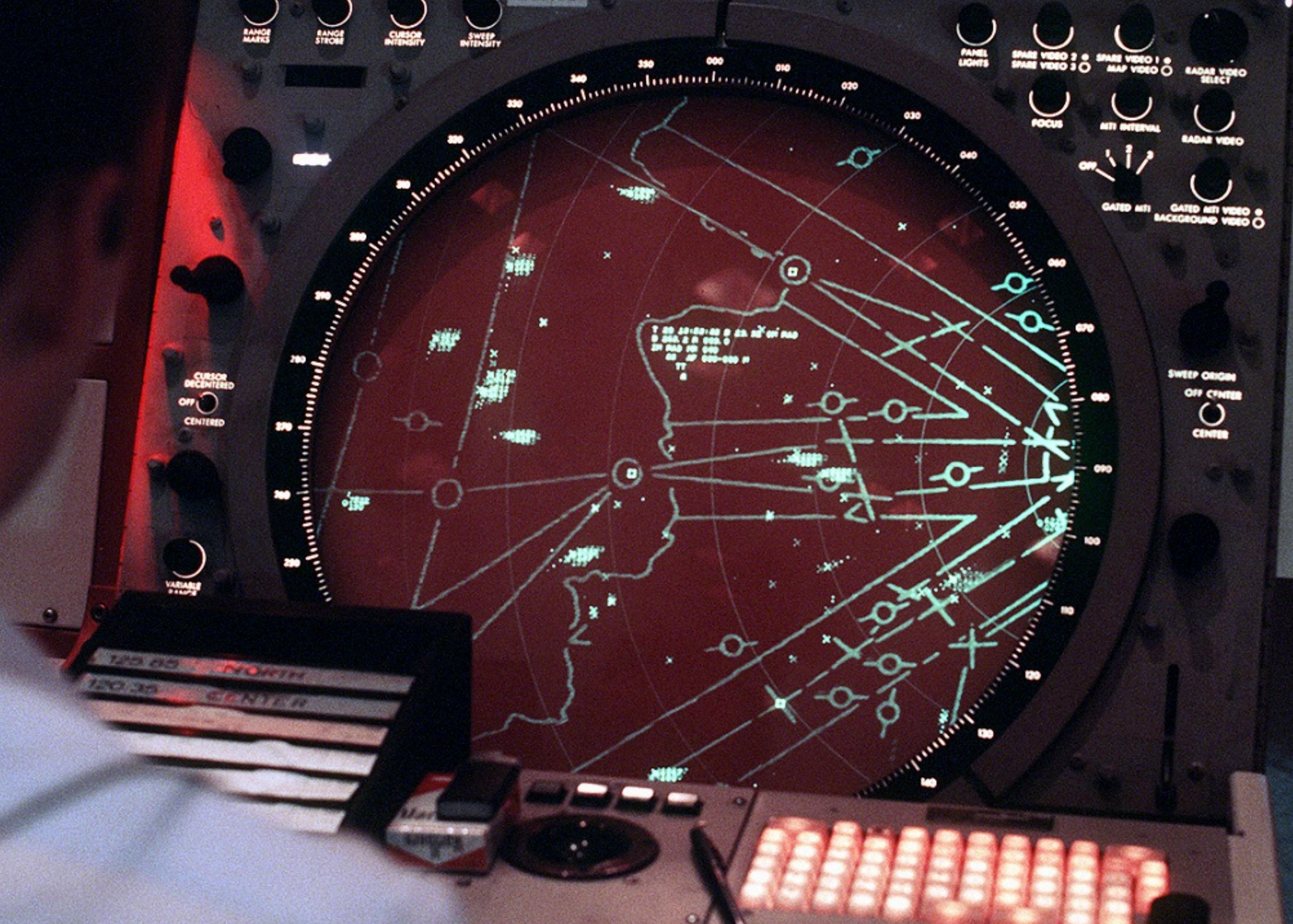
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Getting Data From The Sky



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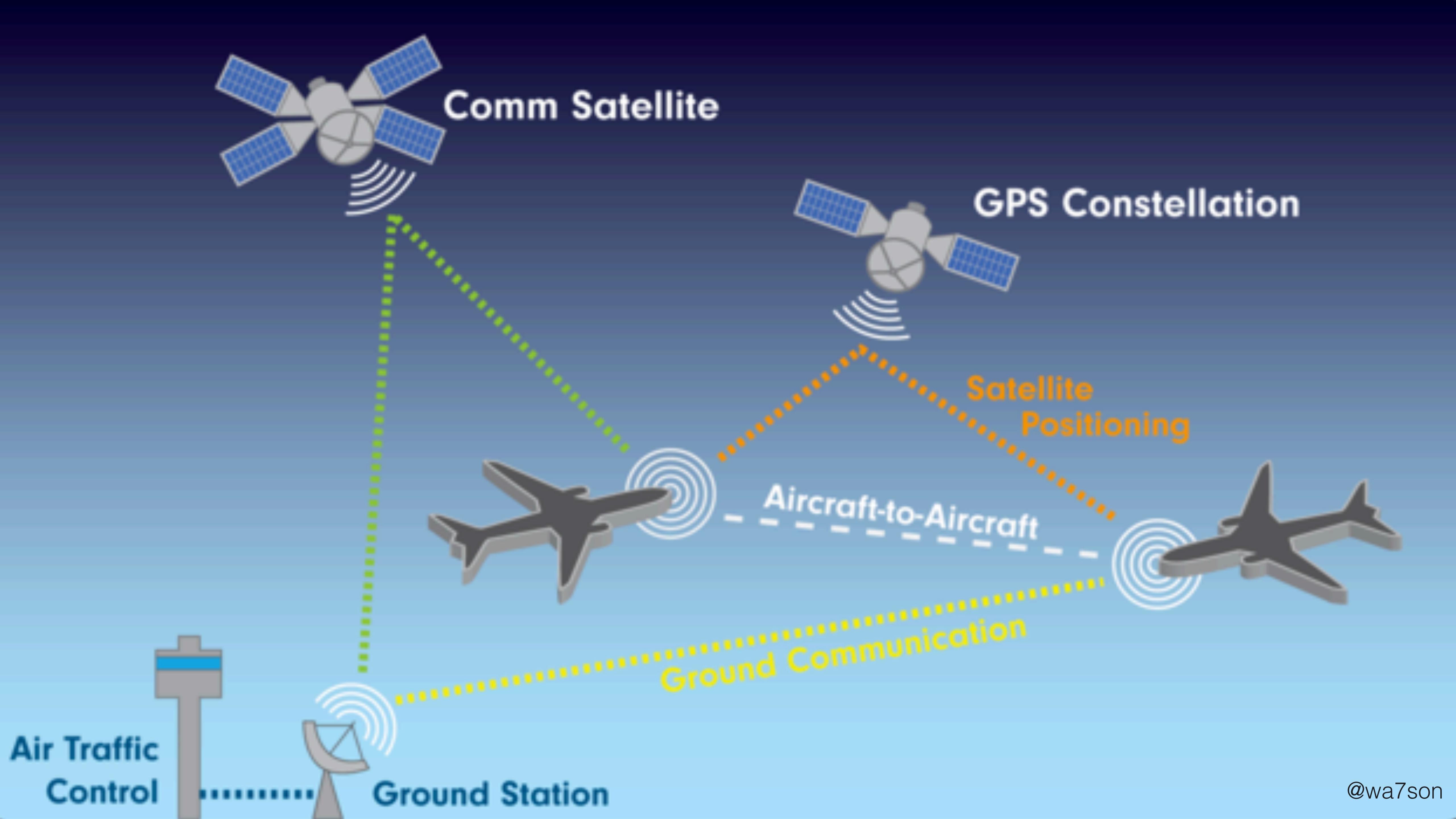


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ADS-B

Automatic Dependent Surveillance – Broadcast



Mode S Acquisition Squitter

8 bit
control

24 bit
A/C address

24 bit
parity

Mode S Extended Squitter (1090 MHz)

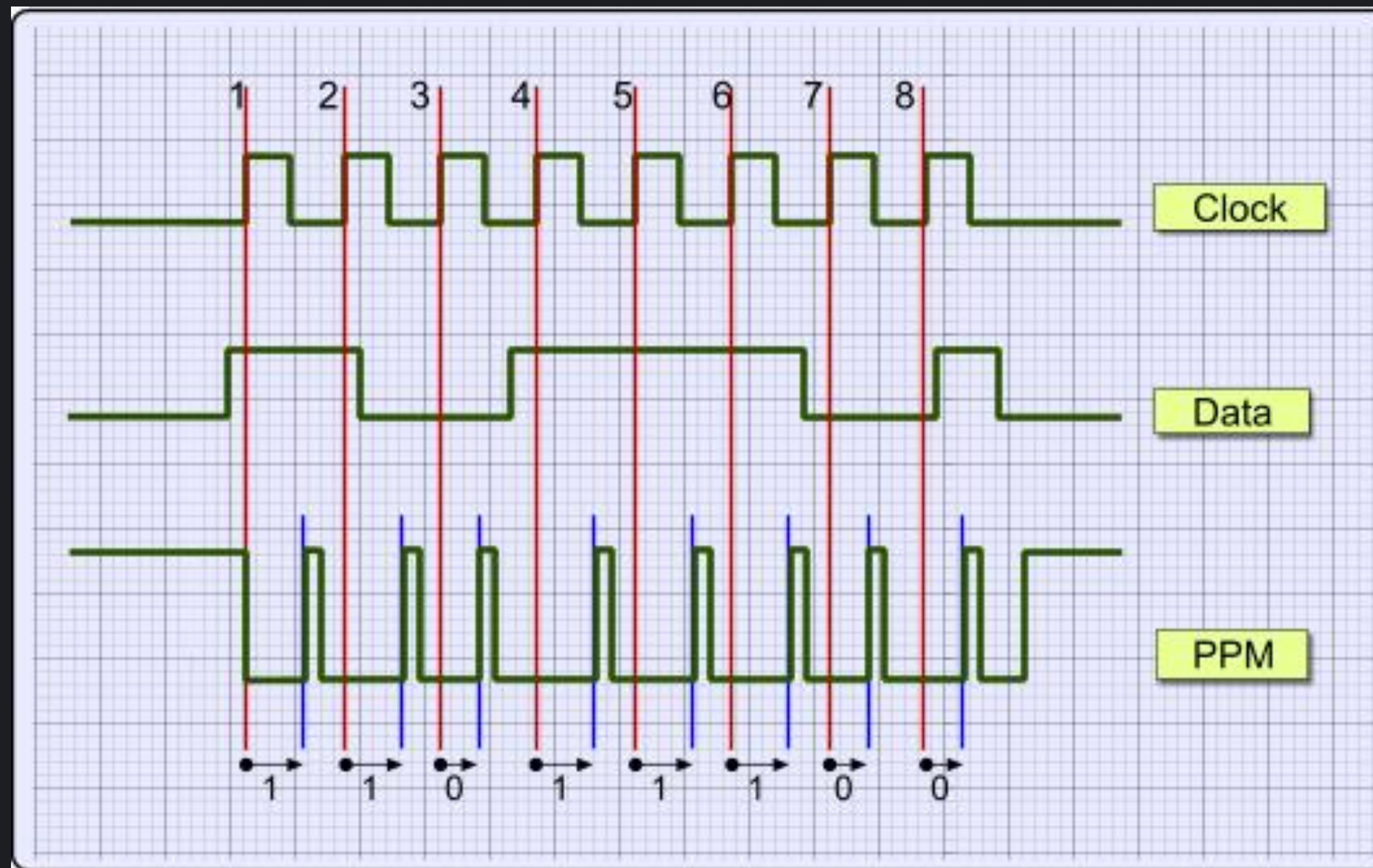
8 bit
control

24 bit
A/C address

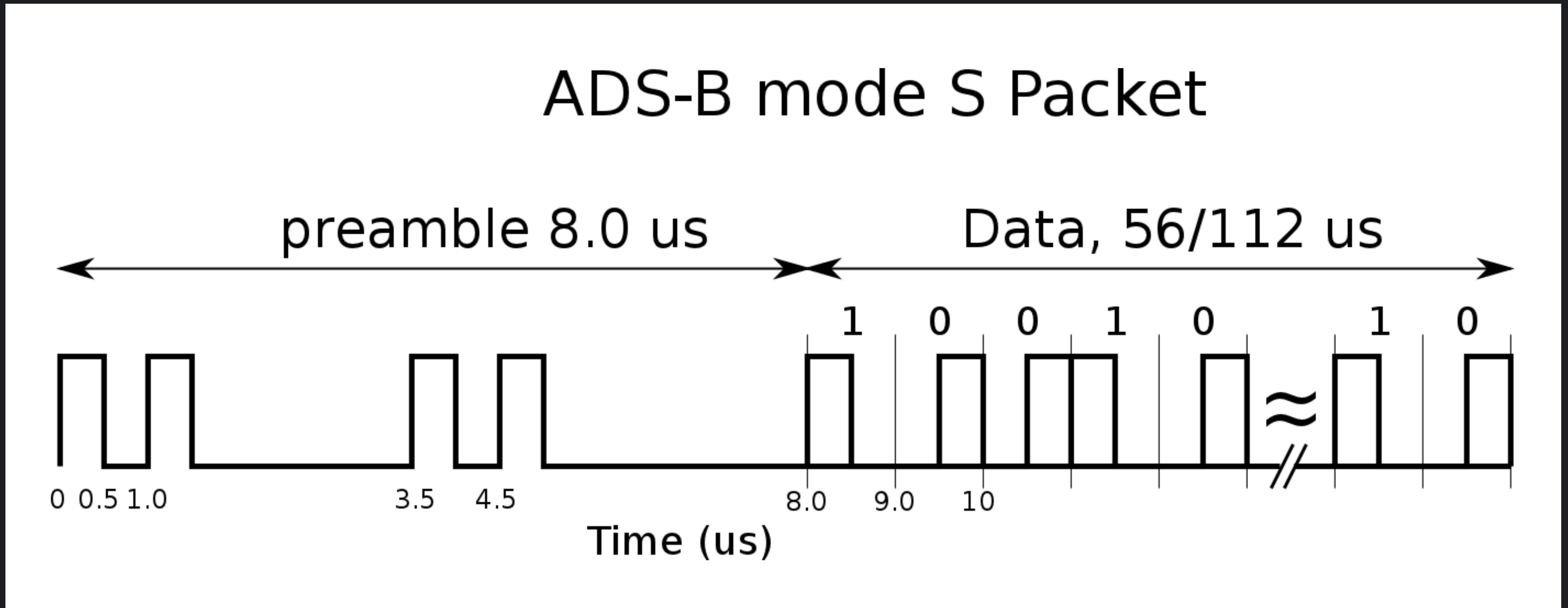
56 bit
ADS message

24 bit
parity

Pulse-Position Modulation

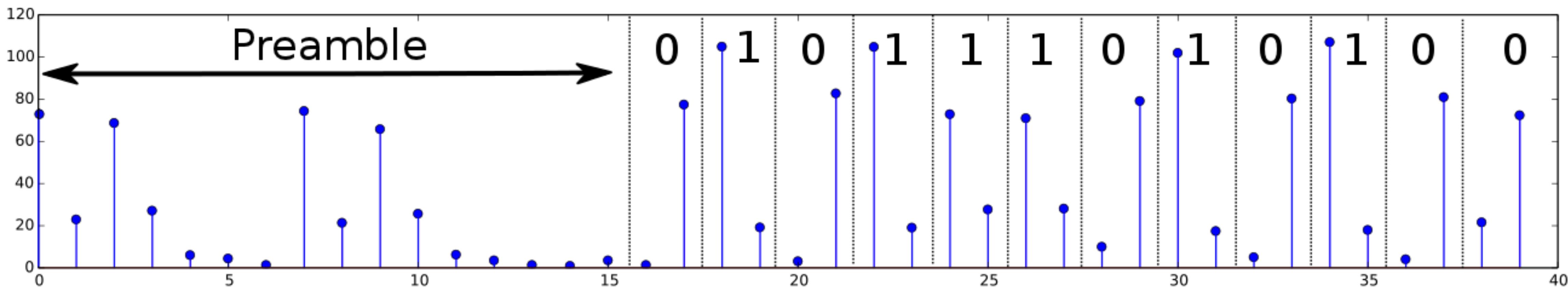


Pulse-Position Modulation



Pulse-Position Modulation

rtl-sdr measured ADS-B mode S packet



Access Granted

RTL2832U chip



Demo



Resources

[github.com / watson / rtl-sdr](https://github.com/watson/rtl-sdr)

[github.com / watson / mode-s-decoder](https://github.com/watson/mode-s-decoder)

([github.com / watson / planespotter](https://github.com/watson/planespotter))

[greatscottgadgets.com / sdr](http://greatscottgadgets.com/sdr)

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Merci

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