

The good, bad and ugly

WSTS March 2015

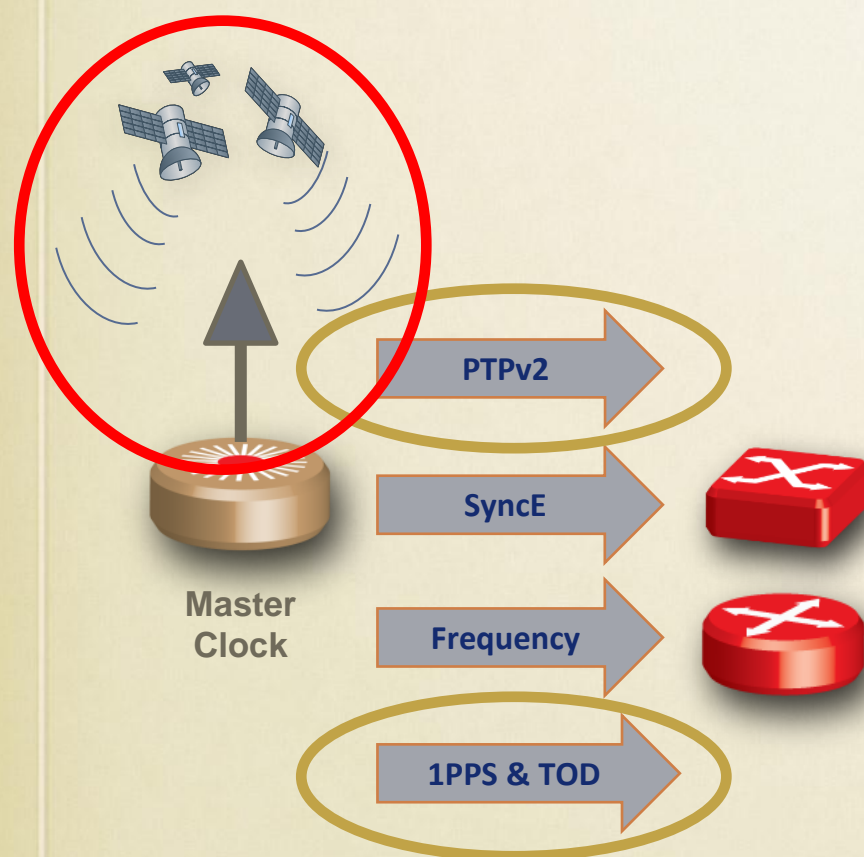
Agenda

- • Why care about the GPS / GNSS sub-system?
- • Satellites & Weather
- • The Chronos Photobook – The good, bad & the ugly
- • Best Practice
- • Diagnosing Issues

Why care about the GPS/GNSS sub-system?

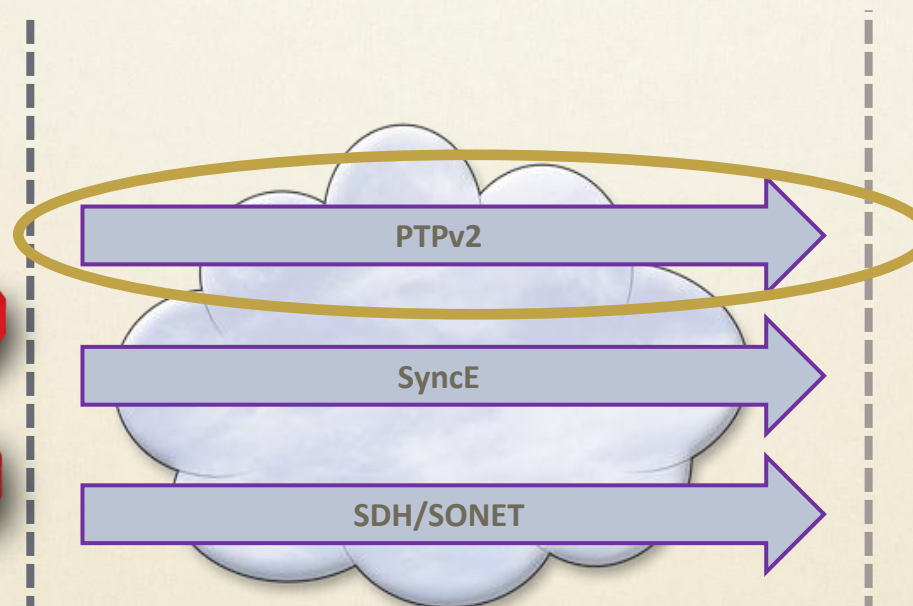
The most common source of time / phase in networks

Sync Source



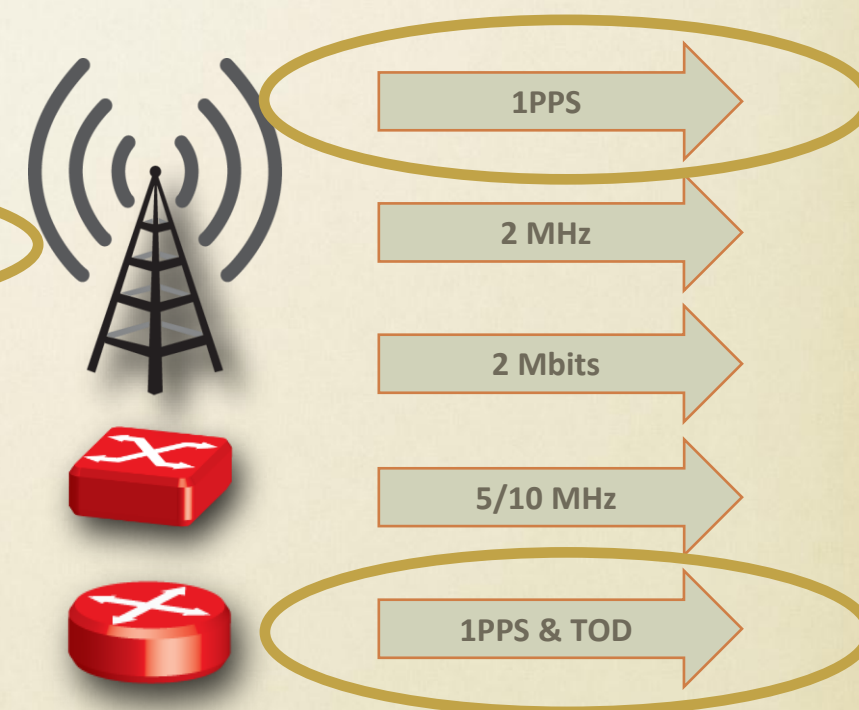
Verify

Sync Transport



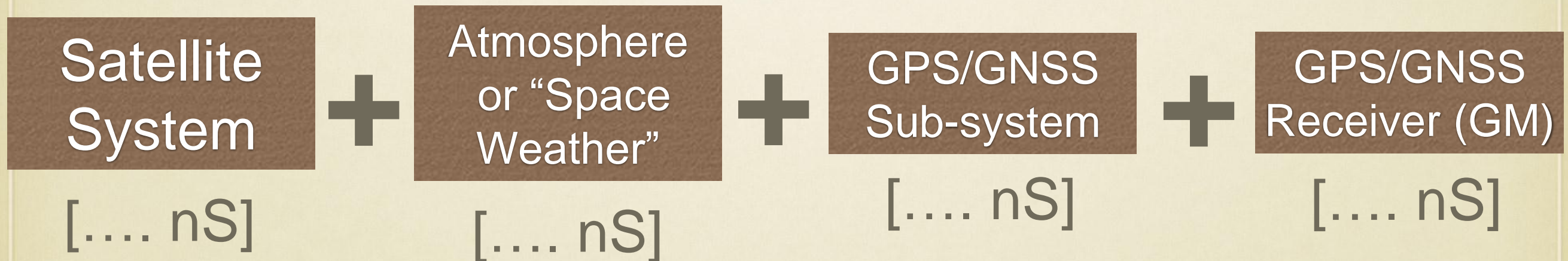
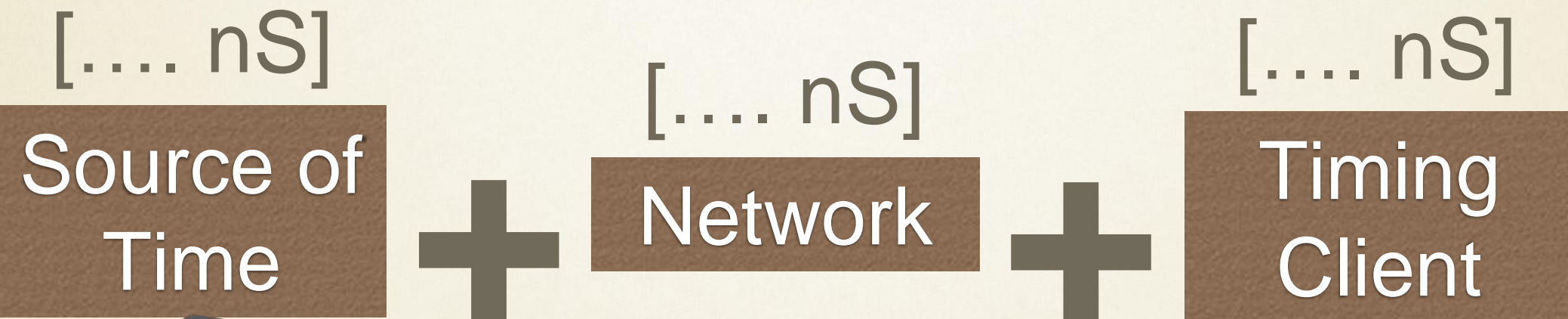
Troubleshoot

Sync Signals



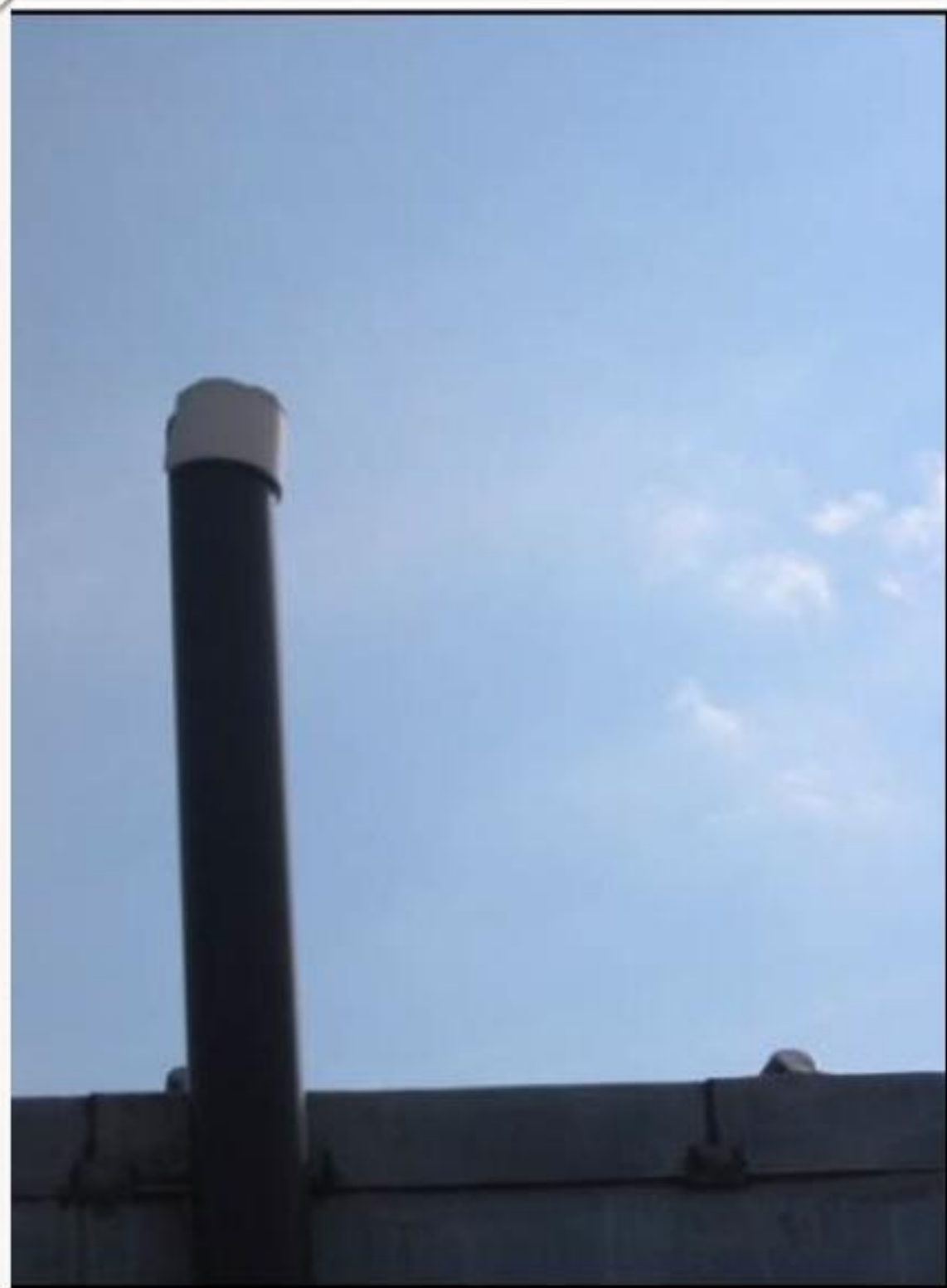
Qualify

Phase budgets



The Chonos Photobook

The good, bad and the ugly













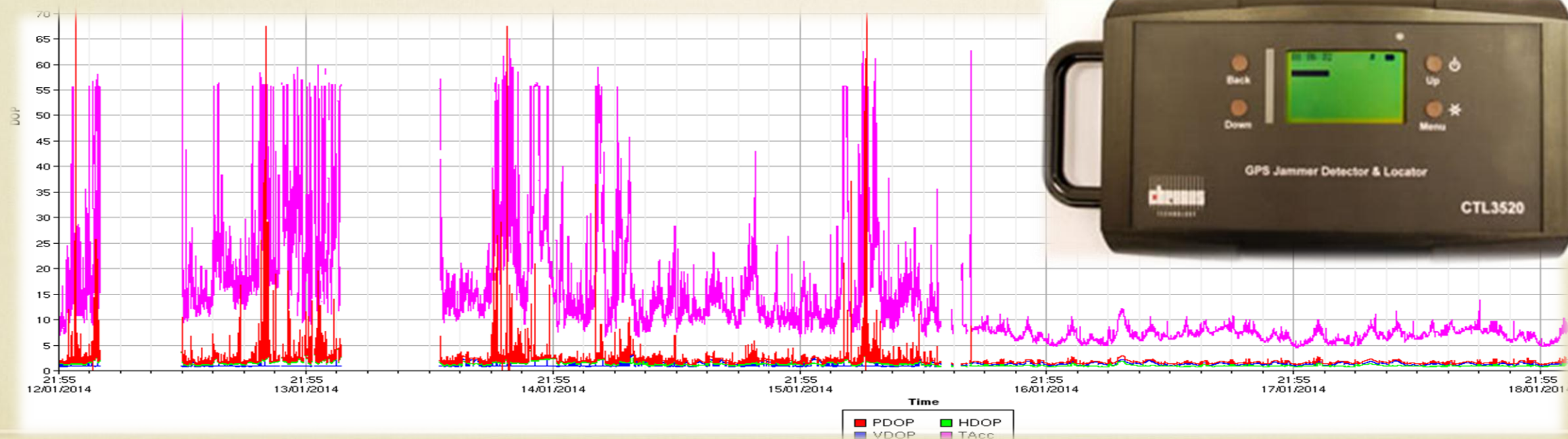




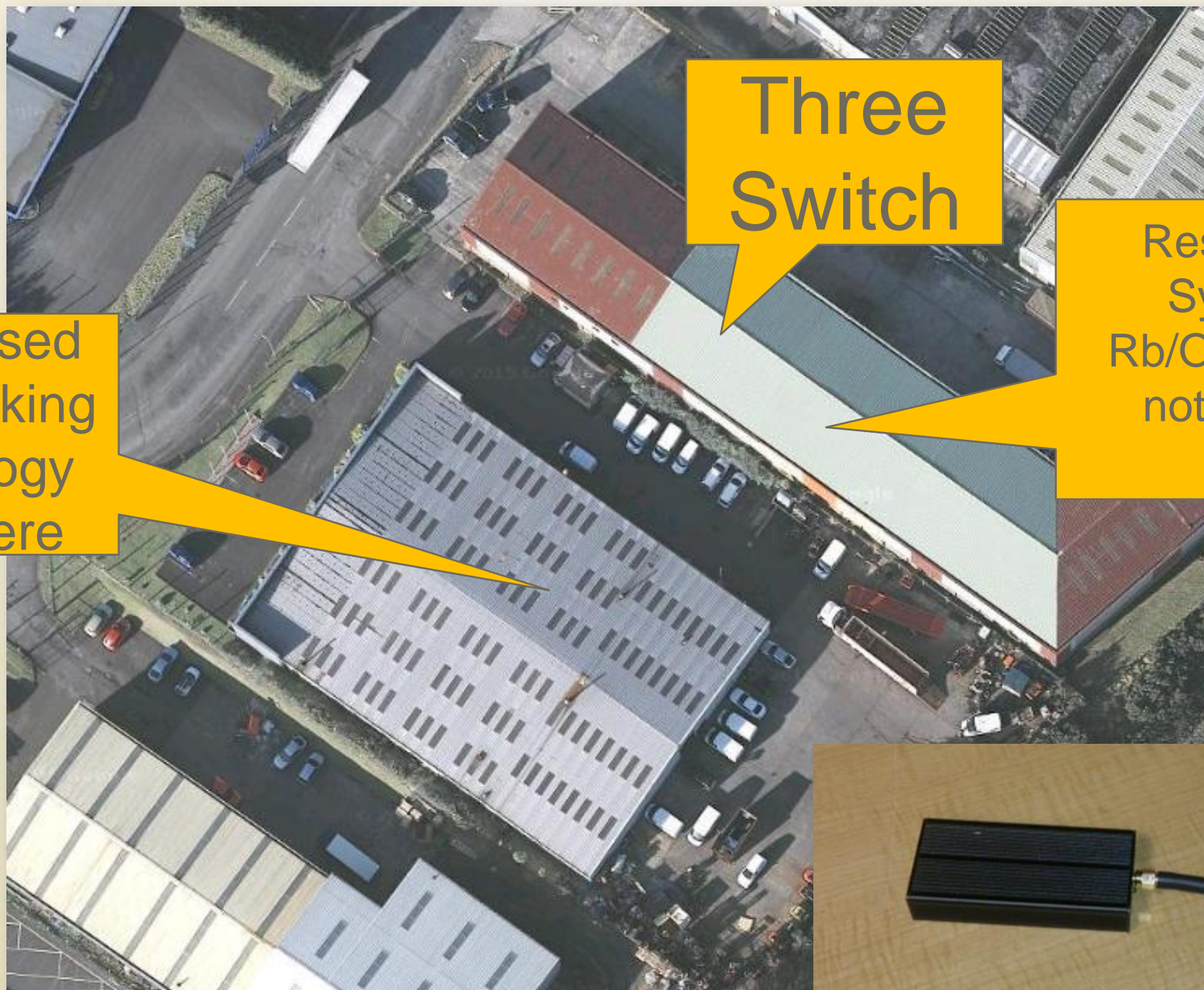
Best Practice

Diagnosing Issues

Example 1



Example 2



Three
Switch

GPS based
fleet tracking
technology
used here

Resilient Timing
System using
Rb/OCXO holdover
not impacted by
jamming





Acknowledgements John Lyons & His Team

Since 1999: 13 Million miles (27 return trips to the moon), +6,000 installs

Thank you for listening

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