

Civil GPS Service Interface Committee  
Nashville, TN  
9/13/98

Timing Subcommittee Presentation

TELECOMMUNICATIONS CONCERNS WITH GPS

Ed Butterline

Telecom Solutions

Chairman of ANSI committee T1X1.3

Telecommunications Carrier to Carrier Synchronization Interfaces

This is a brief presentation covering why are U.S. telecommunications carriers concerned with GPS, why and what are they doing about it.

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# Telecommunications Industry Concerns With GPS

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# Why Do Telecommunication Carriers Care About GPS?

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- GPS Is The 1st Choice Source For Synchronization Signals
- Some Carriers Use Only GPS
- It Is The Most Economical Source
- It Provides All The Signals Needed

# What Is The Concern With GPS?

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- Meteor Showers
- Spectrum Under Attack
- Signal Jammers
- GPS Appears More Vulnerable Than It Did 10-15 Years Ago

# What Are Carriers Doing About Their Concerns?

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- Considering LORAN As A Backup
- Supporting The Continuation Of LORAN
- Increasing Signal Monitoring
- Doing More Ensembling
- Interleafing Their Synchronization Networks To Minimize The Possibility Of A Single Point Of Failure (Internal)