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Typical Interference Causes

- Due to poor equipment or
- Due to the User
 - Transmitting on the wrong Polarization
 - Transmitting on the wrong Frequency
 - Transmitting with too high Power level
 - Transmitting on the wrong Satellite

Above, due to poor training or just human error

Carrier ID as a solution

- Is the best solution when interferer can't be readily identified
- Takes time as it is reactive

A Proactive Approach

- The MSS operators such as Inmarsat do not have these types of interference
- Why?

Proactive solution

- MSS systems are typically
 - Centrally controlled
 - Closed loop
 - Individual terminal control
 - Using only Type Approved equipment

Centrally Controlled equipment

- Should not be subject to Carrier ID requirements
 - System doesn't transmit until satellite is identified
 - Received commands control the frequency, power level, polarization and timing of the transmissions

The Proof

- In the MSS world, using centrally controlled approved systems
 - Many hundreds of thousands of terminals are currently in use
 - 38 years of experience
 - Accidental Interference issues are extremely rare