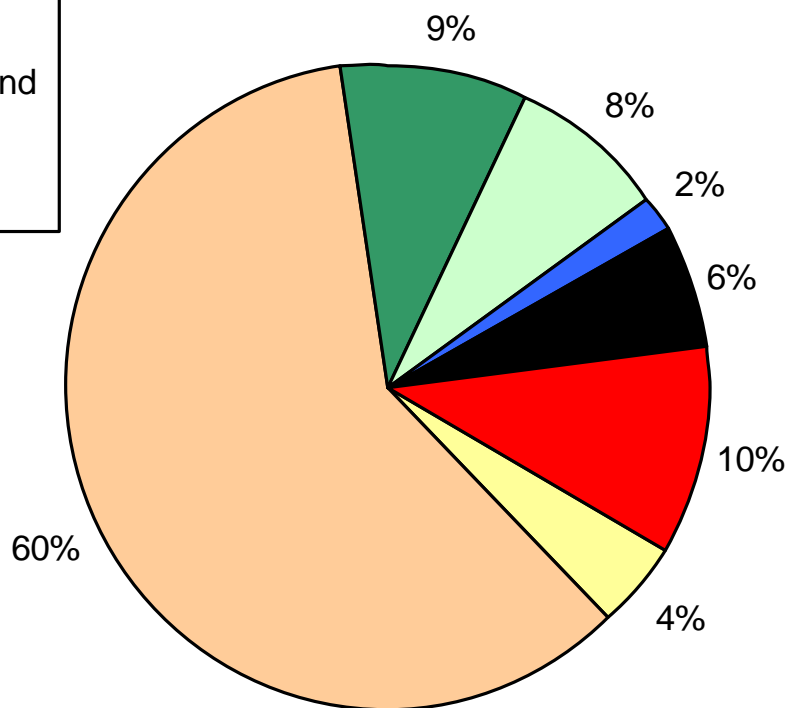
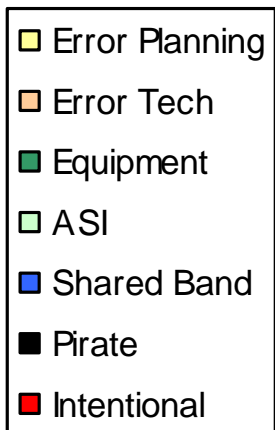
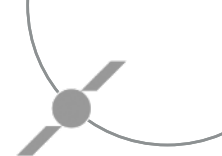


Mark RAWLINS – Eutelsat
Director of Service Operations

ASBU Satellite Interference Forum Carrier ID

Tunis 6th – 7th October 2013

Interference to Satellite Services



Accidental Sources

- Human Error
- Adjacent Satellite
- Equipment failure

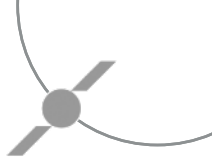
Deliberate Sources

- Jamming
- Pirating

Other Sources (Shared bands)

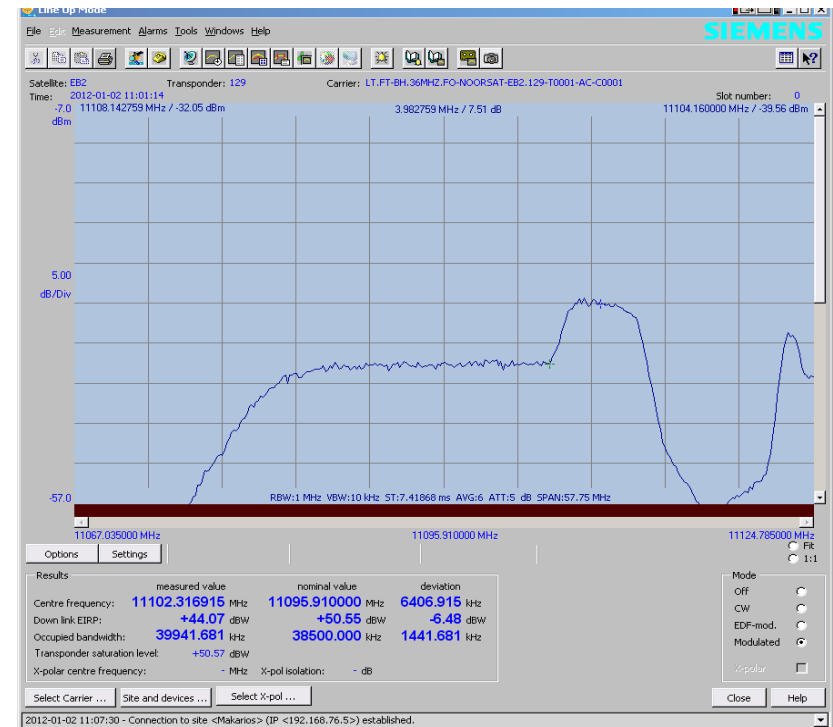
- Radar
- Wimax

Where Can Carrier ID help?

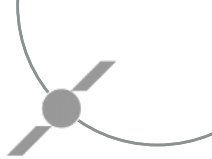


- **Human Error – 77% of interferences are due to the following reasons:**

- Wrong time slot
- Wrong Satellite
- Wrong frequency
- Wrong or bad polarisation setting
- Incorrectly pointed antenna



What are satellite operator expectations?



- **A good percentage 10 – 20% of interferences possibly being resolved faster. (Globally there are 100's of interferences each month...)**
- **The process today:**
 1. Is the interference a traffic carrying carrier, is it DVB?
 2. Is it an obvious source – i.e. bad polarisation?
 3. Issue interference report to users on same satellite.
 4. Demodulate if radio or TV - identify content
 5. Geolocalise
 6. Search for carriers sharing same parameters
 7. Contact likely sources
- **With Carrier ID on an interfering carrier we will be able to skip directly to contacting the source.**

- **Acting as a secure information exchange**

- Host the Carrier ID database – Allows operators to search for a Carrier ID reference that is unknown to them, lets them get in contact with another satellite operator where the code is registered.