

A satellite with large solar panels is shown in orbit above the Earth. The satellite is emitting a bright beam of light towards the ground. The Earth's surface is visible, showing a mix of green land and blue oceans, with a thin blue atmosphere layer at the top.

# Satellite Monitoring Iridium System

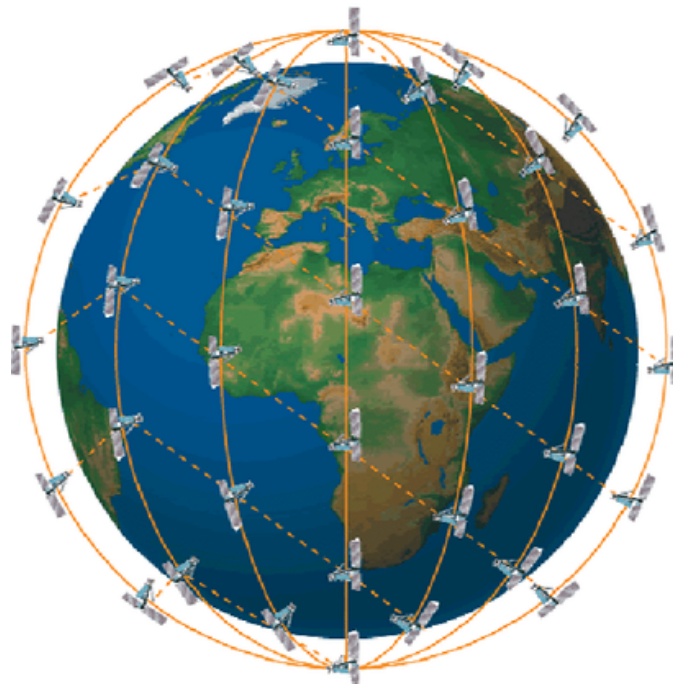
Calypso system is specifically designed to intercept Iridium communication and operates passively, without interfering with Iridium satellite communication.



**XCILON**

Iridium's constellation consists of 66 cross-linked operational satellites, plus six in-orbit spares. The satellites operate in near-circular low-Earth orbits (LEO) about 780 km (483 miles) above the Earth's surface.

There are 11 satellites in each of six orbital planes and their orbits "criss-cross" roughly over the north and south poles. The low-flying satellites travel at approximately 17,000 miles per hour, completing an orbit of the Earth in about 100 minutes.



The Iridium monitoring system provides the agency with the following information once the target has been captured:

- Call content: Voice, SMS, SBD, Data;
- Calling and called phone numbers;
- The IMEI, TMSI, IMSI of the Phone;
- Service type;
- Date and Time of Call;
- GPS position of the Phone.



# System Features and Specifications:

- Independent reception of up to 252 physical channels and up to 64 simultaneous calls;
- Transcoding of Data sessions to PCAP files;
- Transcoding of Voice sessions to WAV files;
- Transcoding of SMS and SBD sessions to TXT files;
- System control and management via Graphic User's Interface;
- Graphic presentation on a map of the position of monitored User's terminals;
- Power requirements AC 220 V 50 Hz /110V 60Hz, 250W;
- Operating temperature: +5<sup>o</sup> to +40<sup>o</sup> C;
- Dimensions – 240 x 350 x 102 mm, Weight 8 kg.

