

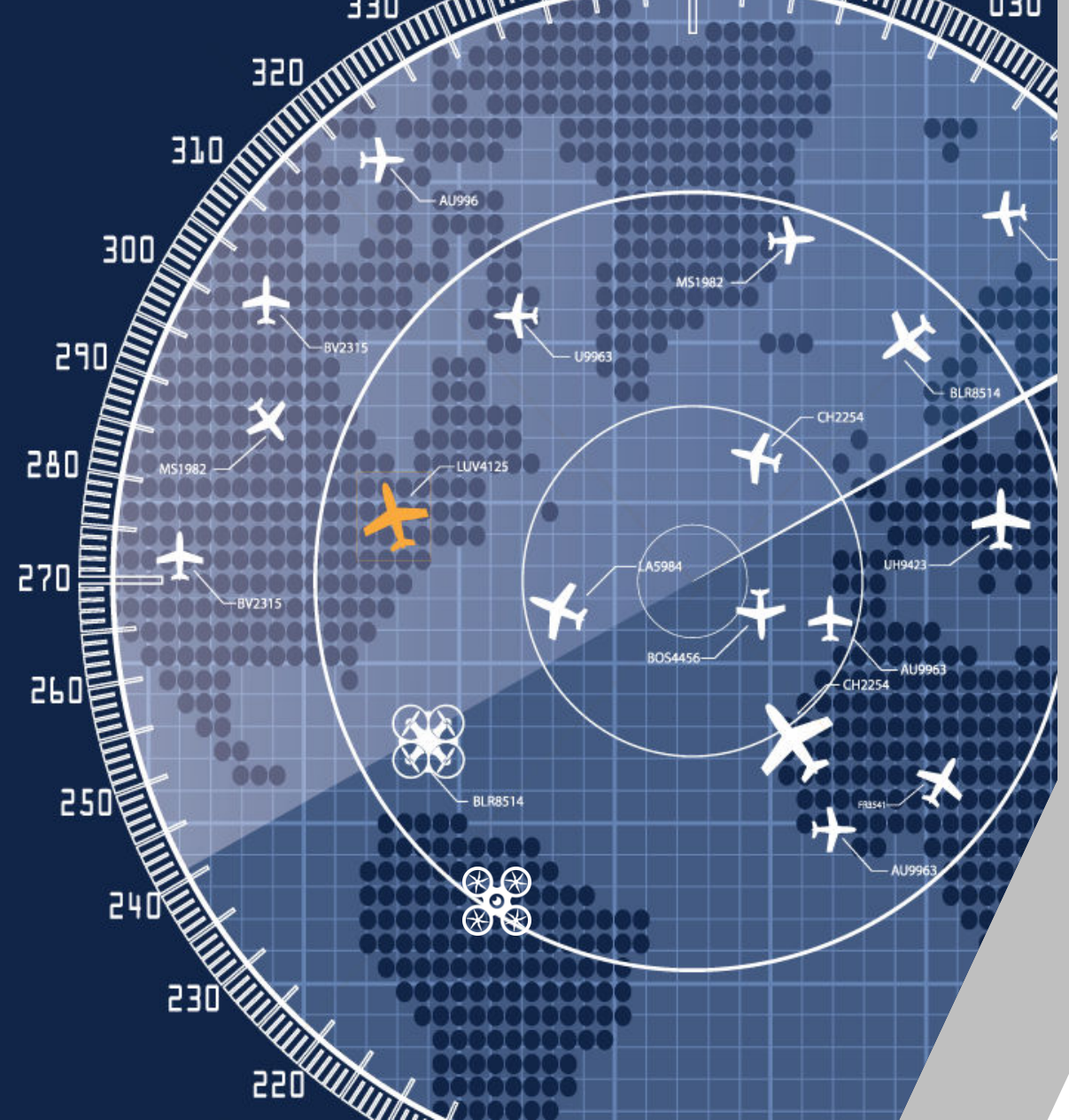


[www.Sunhillo.com](http://www.Sunhillo.com)

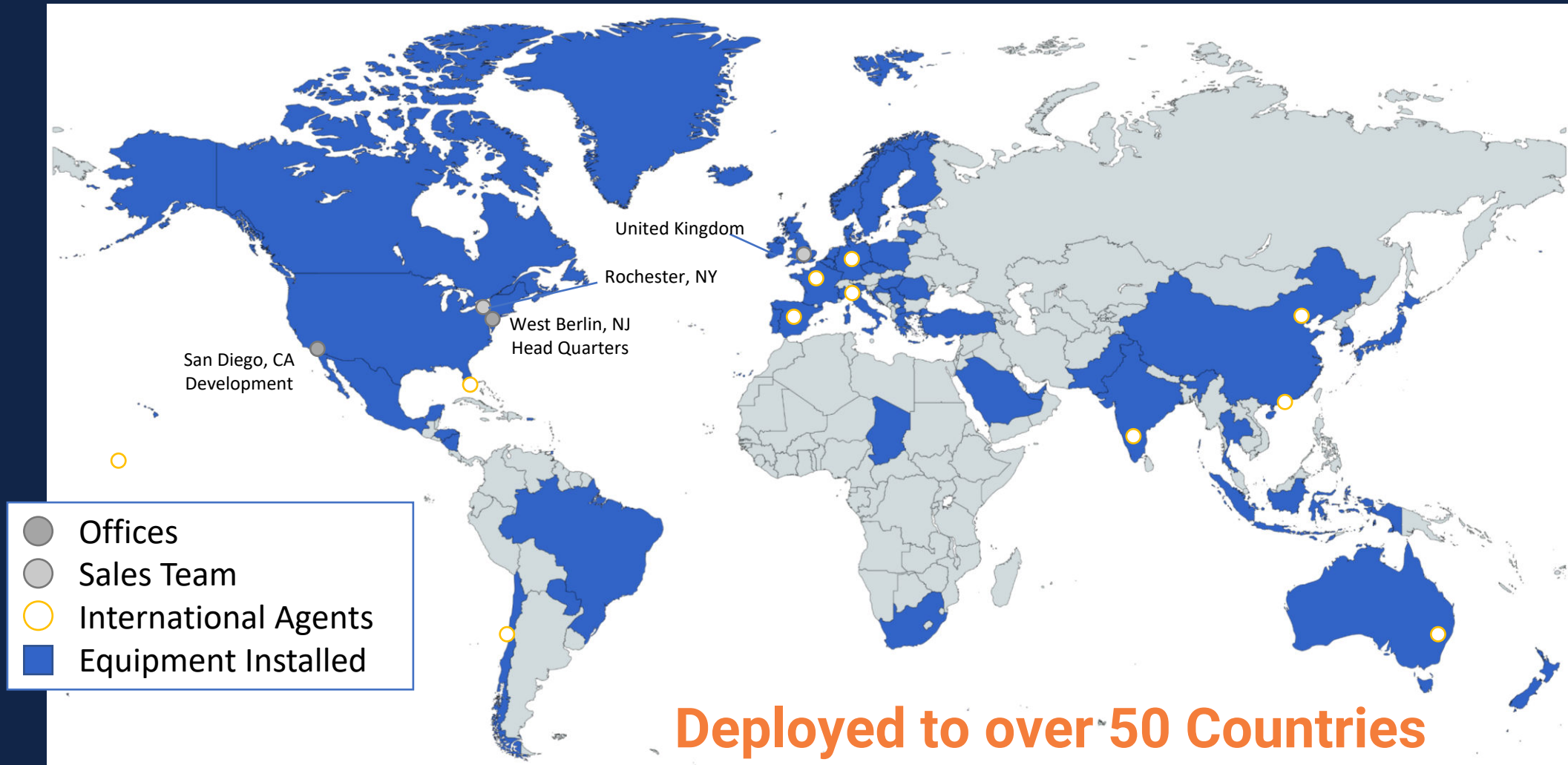
ISO 9001:2015

ISO 27001: 2013

**A Global Leader in Surveillance  
Data Distribution & Conversion  
Systems**



# Sunhillo Corporation Global Presence



# Sunhillo Corporation FAA Presence



**250+ FAA Facilities**



Sunhillo has systems in every  
FAA Tower, TRACON & En-Route Center in the US

**[www.Sunhillo.com](http://www.Sunhillo.com)**

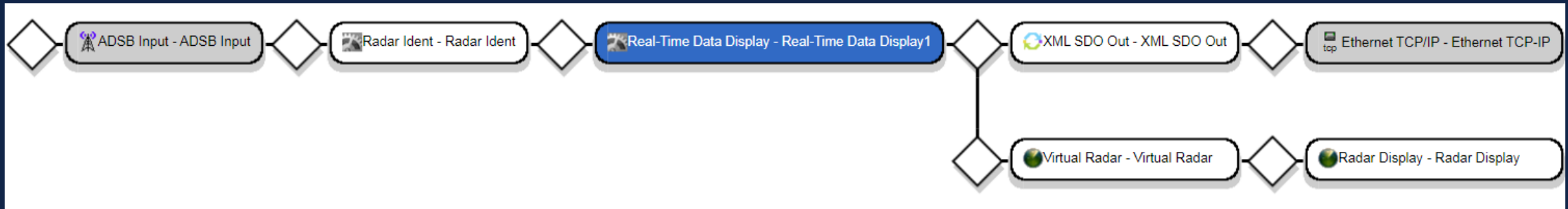
# Sunhillo SureLine® Core Software

A graphic in the top right corner featuring a stylized orange and blue swoosh that curves upwards and to the right, with a small white airplane icon at the top of the curve.

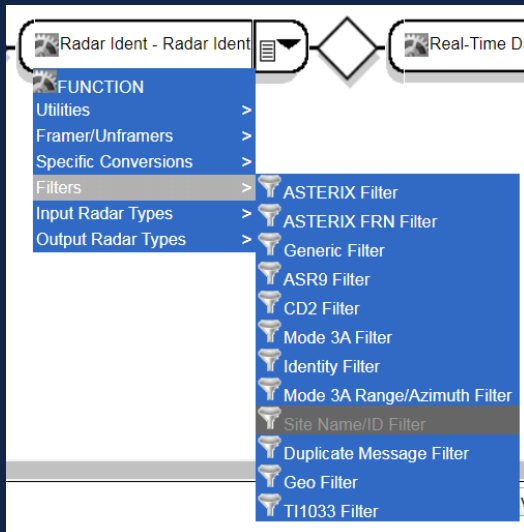
- Sunhillo SureLine software is the backbone of Sunhillo Corporation's surveillance gateway products:
  - (RICI, Longport, Brigantine SGP, Ventnor and Margate II ADS-B)
- SureLine Functionality:
  - Conversion
  - Translation
  - Bridging dissimilar networks
  - Analyzing data
  - Connecting surveillance sources to air-traffic automation systems
  - Surveillance Data Fusion
  - Recording and Playback

# Sunhillo SureLine® Core Software

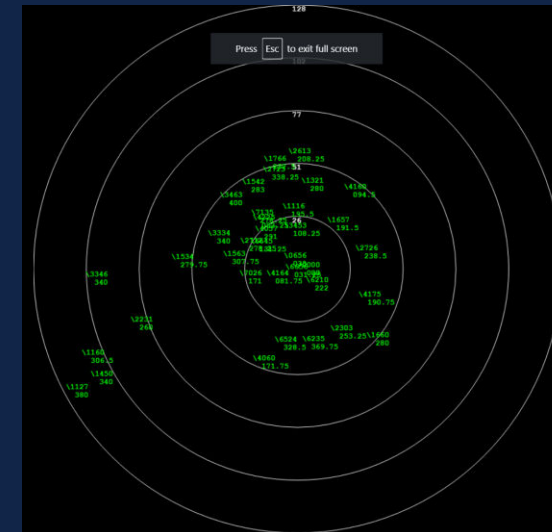
## Sureline ADS-B Data Flow Example



### Filtering Capability



### Built in Radar Display





# Surveillance Data Distribution & Conversion Products



RIC1



Longport



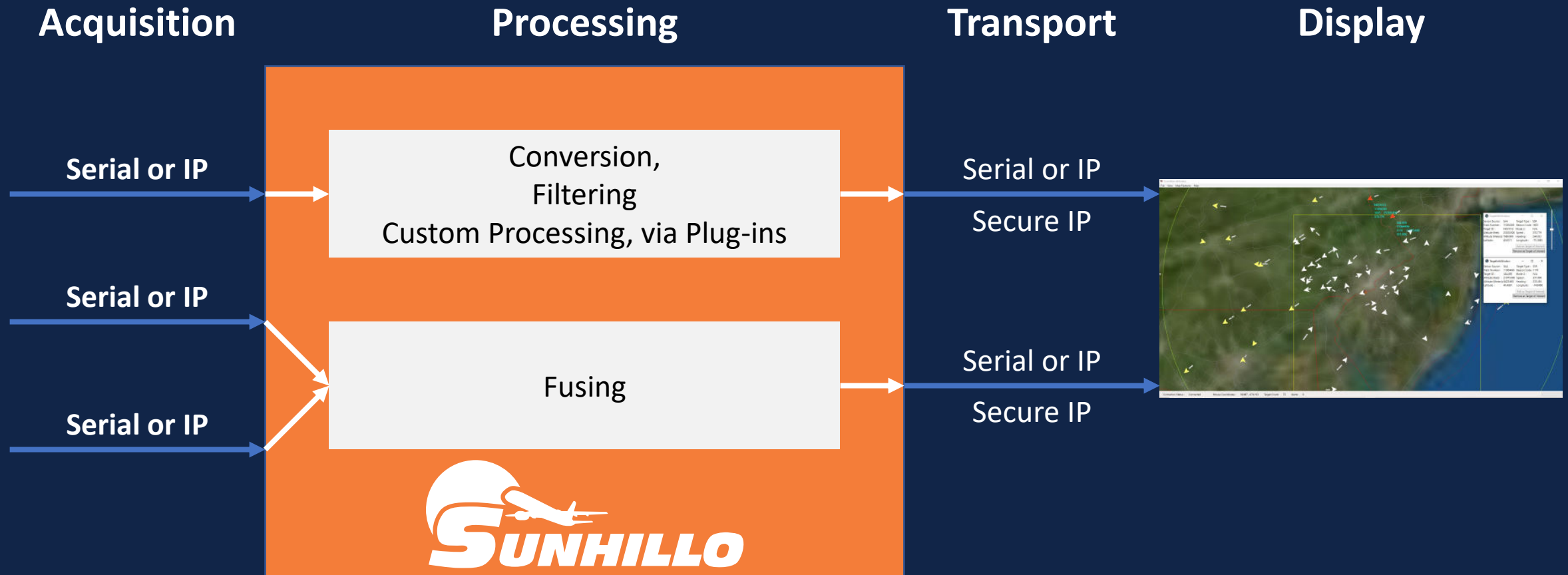
Brigantine SGP



Ventnor

- Powered by Sunhillo SureLine® Software
- Surveillance and sensor data formatting, filtering, and conversions
- TCP/IP, UDP/IP, and Serial to LAN Protocol Conversions
- Gigabit Ethernet
- Rack Mountable

# Surveillance Data Distribution & Conversion Products



# Surveillance Display



- Display Disparate Surveillance Sources including Radar & ADS-B
- Custom Geofencing with Visual and Audible Alerts
- Recording and Playback
- Custom Graphical Overlays
- Moving Map to track target

**Surveillance Monitoring System (SMS)**

**[www.Sunhillo.com](http://www.Sunhillo.com)**



# Sunhillo ADS-B Receivers

- Accepts and decodes 978MHz UAT and 1090MHz ADS-B
- Exceeds DO-260B and DO-282 standards
- Front panel GPS, RF antenna input connections
- Rack mountable or table-top compact design
- Deployed to the US Navy, Army, National Guard, Air Force, & delivered to Marines



# **Surveillance Data Distribution System (SDDS)**



- **IP/IP Surveillance Data Distribution**
- **250,000 individual messages/sec scalable throughput**
- **ASTERIX validation on all messages**
- **All standard ASTERIX messages supported**
  - **New or special categories added via user XML definition files**
- **Instant switchover with no data loss**
- **Duplicate message removal**
- **Flexible Graphical configuration Editor**
- **Features**
  - **Geo filtering**
  - **Conversion among Radar formats**
  - **Realtime Data displays**
  - **Radar recording and Database Connectors**
- **Over 60 optional nodes for filter and output formats**
- **User tool kit for data modification**
- **Web Management and Control**

# ASTERIX Capabilities

## ASTERIX Capabilities

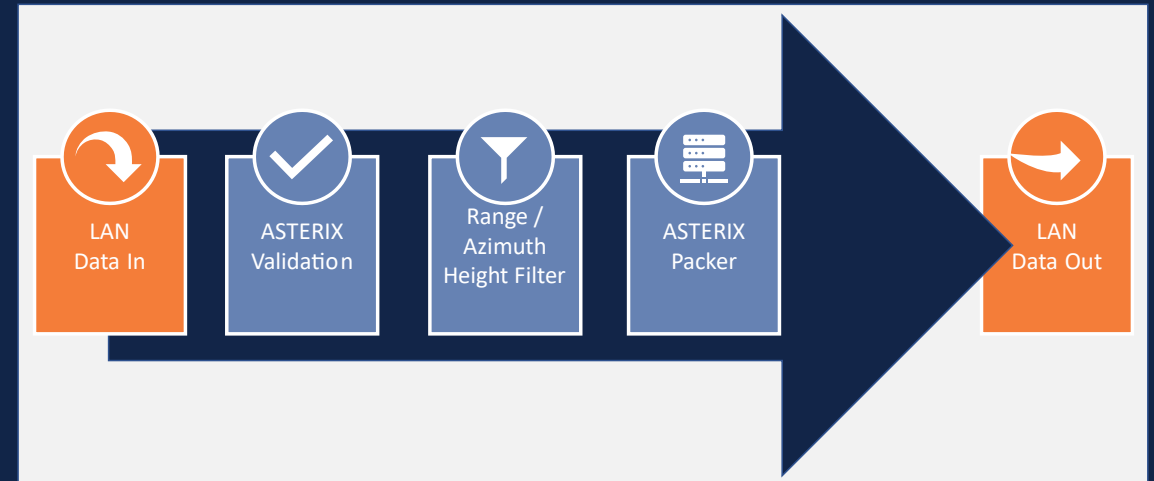
Framer, Packer/Unpacker, SIC/SAC Changer,  
Filters including Geographic

## ASTERIX Validation

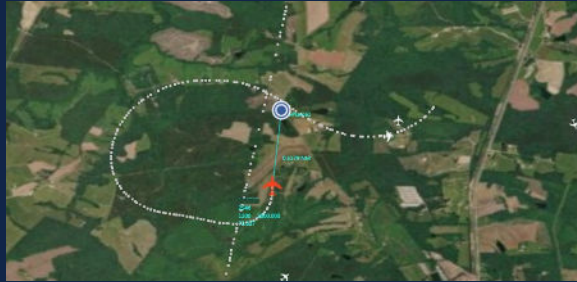
Validate ASTERIX categories and variants,  
User accessible ASTERIX Markup Language

## ASTERIX Data Modifier

Modify the content of outgoing ASTERIX  
messages  
User definable modifier logic



# Sunhillo UAS-Connector (UAS-C)

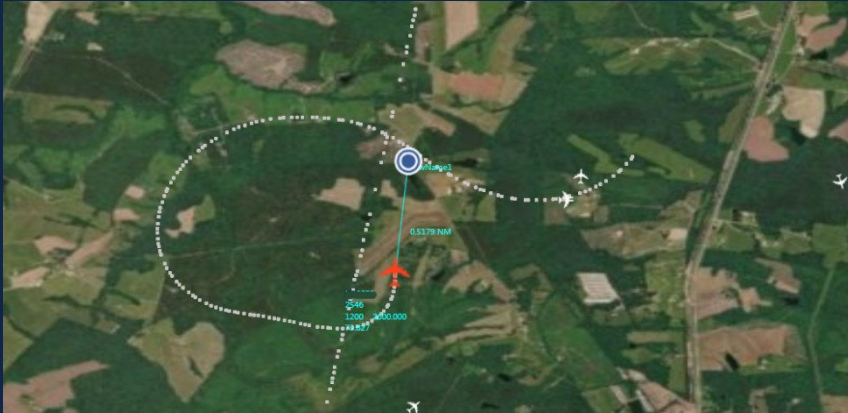


**Provides a system capable of integration into almost any ATC/ATM/UTM for regional situational awareness and Emergency Management arenas**

- Track UAS of any size without Radar or ADS-B
- Provides UAS Pilot See & Avoid display
- Converts & distributes UAS location to ATC in local ATC format (ASTERIX etc)
- Enhanced Situational Awareness of manned and unmanned aircraft for the UAS Pilot and Command Center



# Sunhillo UAS Solutions



**Provides Surveillance Data Track Fusion and Display capable of integration into almost any ATC/ATM/UTM for regional situational awareness and Emergency Management arenas**

- Surveillance Data Track Fusion
- Military deployed Surveillance Display (SMS)
- Converts & distributes UAS location to ATC in local ATC format (ASTERIX etc)
- Enhanced Situational Awareness of crewed and uncrewed aircraft to UTM or Ops Centers
- ADS-B Receivers

# OneSky Future of Flight Partner



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"Sunhillo leverages our 30+ years of Air Traffic Control surveillance systems experience to OneSky's UTM, providing enhanced situational awareness and safety. Combining Sunhillo's surveillance solutions with OneSky's already robust UTM will provide smooth and safe integration into ATC systems worldwide."

Doug Walczak, Director of Marketing, Sunhillo

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- **Sunhillo is the surveillance feed provider for OneSky UTM situational awareness and a proud partner in the Future of Flight Program**

**[www.Sunhillo.com](http://www.Sunhillo.com)**

# Sunhillo Data Diode

- 100% Hardware forced security protocol
- One-way only data flow
- Share secure surveillance data with lower security networks
- Multiple form factors including a stand-alone version and a Brigantine module



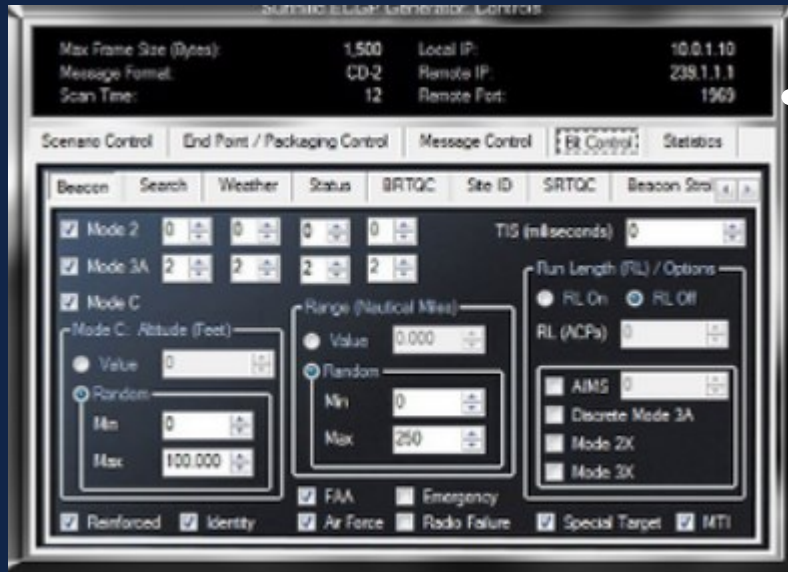
# Sunhillo Asbury: TDM to IP

- Synchronous Serial to IP Adapter
- Full Speed HDLC, Bisync, & raw mode transparent to process data
- Eliminates the need for costly serial and TDM lines
- Available on **DigiKey**



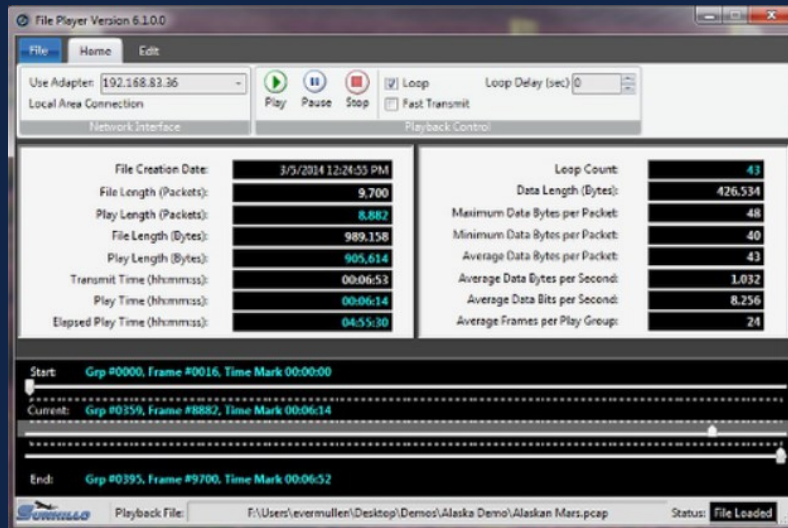


# Surveillance Software Tools



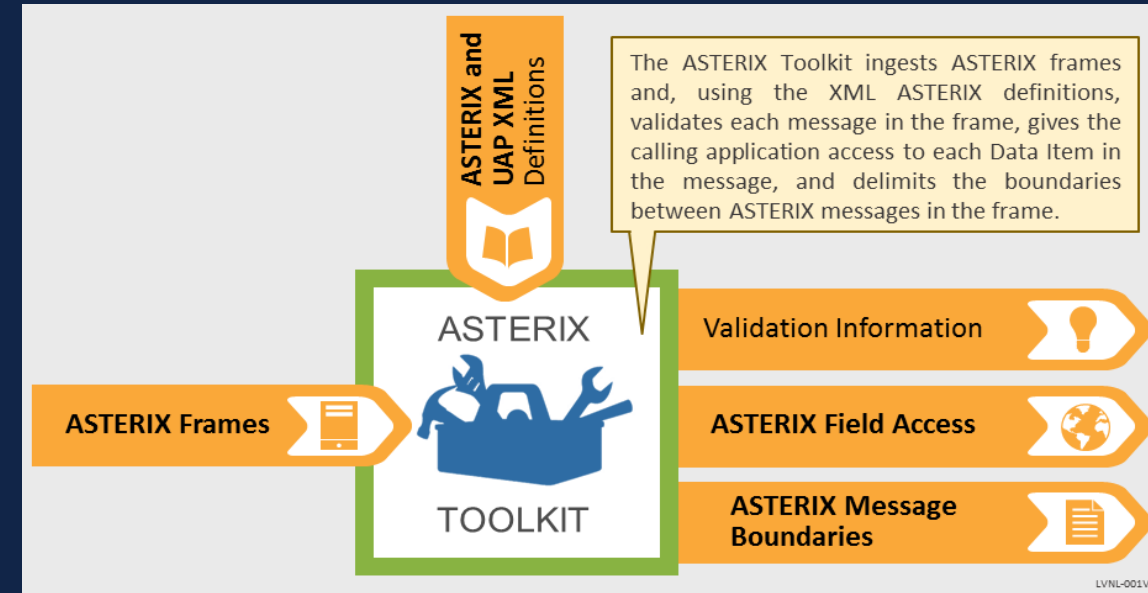
## • ECGP Generator

- Load Generator and Conversion Test Tool
- Generates CD-1, CD-2, ASR-9, MAR, ARSR-3, ARSR-4, and more



## • File Player

- Surveillance Data Playback
- Test systems before they go live with captured data from the incoming network



## • Sunhillo ASTERIX Toolkit

- Captures and decodes State-of-the-art and legacy surveillance radar formats for analysis
- Break out individual fields

[www.Sunhillo.com](http://www.Sunhillo.com)

# Trusted Partner to the US FAA, DoD

## Sunhillo Services:

### Expertise Across All Functional Areas:

- Test & Evaluation
- Training, Testing, Logistics
- Project & Program Management
- Systems, Software, & Hardware Engineering



# Sunhillo Corporate Partners



# Sunhillo's Global Distributors

## Europe

### France

- APLUS System Automation

### Germany / Austria

- systerra computer GmbH

### Ireland

- Synaptic Solutions S.L.

### Italy

- LVD Systems Srl

### Spain

- Synaptic Solutions S.L.

### UK

- UNITRONIX UK

## Asia / Pacific

### Australia

- Unitronix Pty Ltd

### China

- ModernTech Computer & Peripheral Ltd

### Hong Kong

- ModernTech Computer & Peripheral Ltd

### India

- Embed Technoloties Pvt Ltd

## South America

### Brazil / Columbia

- Caribros

### Chile

- WorkHard