

Surveillance Data Distribution System (SDDS) for IP-centric Topologies



Sunhillo's Data Distribution System (SDDS-IP).

The world of communications can be a challenging arena. Sunhillo's SDDS-IP (Surveillance Data Distribution System for IP-centric topologies) is a groundbreaking solution designed to level the playing field making the safe interoperability of surveillance data a reality. Sunhillo's Surveillance Data Distribution system (SDDS-IP) is a fully integrated IP system that combines multiple dissimilar radar sources for surveillance distribution and monitoring.

Surveillance Data:

The Brigantine Surveillance Gateway Processor (SGP), running our standard SureLine® Software, is used as the core of the SDDS-IP System. Standard off the shelf

switches provide a front end for the Input/Output LANs to connect to multiple IP Radars. For optional Legacy Serial connected radars, Sunhillo's RIC1, Longport, Ventnor or Asbury are used.

ASTERIX Toolkit:

ASTERIX message processing and validation within SureLine is performed using our ASTERIX Toolkit library, which is part of the SureLine application software. This library is used across our products to decode, modify and validate ASTERIX data.

High Performance Architecture:

Built from deployment-proven surveillance data communication technology, SDDS distributes the detail of a connection to the system into a collection of "endpoints" managed by the

Features

- **ASTERIX Conversions & Validation**
- **Filtering (ASTERIX, Geographic, Aircraft)**
- **Surveillance Data Fusion**
- **Networking and Serial Protocols Supported**
- **Easy to use graphical data flow editor**

Brigantine. Utilizing all rack mountable components, there are two primary categories of endpoints that provide the bulk of the system functionality: IP Endpoints and Serial Endpoints. Each endpoint has the capacity to do a protocol conversion or re-transmit the data from the source.

Supported message protocols include [SureLine](#), SGF, ECGP, ASTERIX, (cat1/2, cat34/48), ASR-9, CD-2, ARSR-4, TPS-70, FPS-117 and MAR.

Surveillance Data Distribution System (DDS)

SDDS-IP Overview

