

iSAP RF-2180

Smart Collector



HIGHLIGHTS

- ▶ Aggregation and tunneling of monitored network traffic to the iSID Threat Detection System for analysis
- ▶ Seven secure, passive and non-interfering Ethernet ports for incoming traffic
- ▶ Unidirectional transmission of mirrored network traffic through one-way link
- ▶ Compression of industrial protocols at 1:10 ratio
- ▶ Encrypted tunnel over the transport network
- ▶ Fit for harsh industrial environments

SEND ALL DATA TRAFFIC FROM REMOTE SITES TO A CENTRAL ISID THREAT DETECTION SYSTEM WITHOUT TAXING YOUR NETWORK

The iSAP Smart Collector is a cost effective, distributed solution that offers a network-wide view of all connected devices and all network traffic, for threat detection at a central site.

Increasing network coverage by means of passing traffic from remote networks to a central IDS may create network overload problems, due to the large volumes of data sent to the central IDS. Radiflow's iSAP Smart Collector solves this problem. Installed at each remote site, it receives all LAN traffic from the local switch (using port mirroring), and filters out much of the irrelevant traffic data, leaving intact the SCADA traffic (e.g. ModBus data).

iSAP helps reduce costs by requiring only one iSAP device for each remote network site. Each iSAP securely connects to a centrally located iSID Threat Detection server, where corporate-wide network and device activity is analyzed.

To further reduce bandwidth consumption, the iSAP Smart Collector uses Radiflow's patented compression algorithm reaching ratios of up to 1:10. Once received at the central location, the iSID server is able to decompress the sent data packets with no loss of information. The user is able to set the amount of compression applied, if at all, to different data classes.

Radiflow iSAP is a versatile tool that can be deployed in any site, large and small, allowing for completely passive network coverage without modification of your existing infrastructure.

The Radiflow iSAP RF-2180 Smart Collector and the iSEG RF-3180 Secure Ruggedized Gateway are fabricated on identical hardware built by Radiflow and tested to the standards stated in the product specifications herein.



The iSAP Smart Collector is used in conjunction with Radiflow's iSID Industrial Threat Detection System

SPECIFICATIONS

(iSAP's hardware specifications are identical to those of the iSEG RF-3180 Secure Ruggedized Gateway)

INTERFACES

2 x 100/1000 SFP ports
8 x 10/100 Base-T ports

LOCAL OPERATION

RS-232 Console Port
Local USB Port for Emergency Boot

PHYSICAL DESIGN

Mounting: DIN rail (optional wall mount)
Enclosure: Rugged - IP 30 rated, fan-less
Weight: 1.4Kg (DC), 1.8Kg (AC)
Dimensions: (mm) 148h x 72w x 123d

ENVIRONMENTAL PARAMETERS

Operating temperature: -40°C to 75°C
Storage temperature: -40°C to 85°C
Operating Humidity: 5%-90%

STANDARDS

IEC 61850-3 - Electric Utility Substations
IEEE1613 EMI - Electric Utility Substations
EN50121-4 - Vibration and Shock resistance
IEC 61000-4 - Surge Immunity

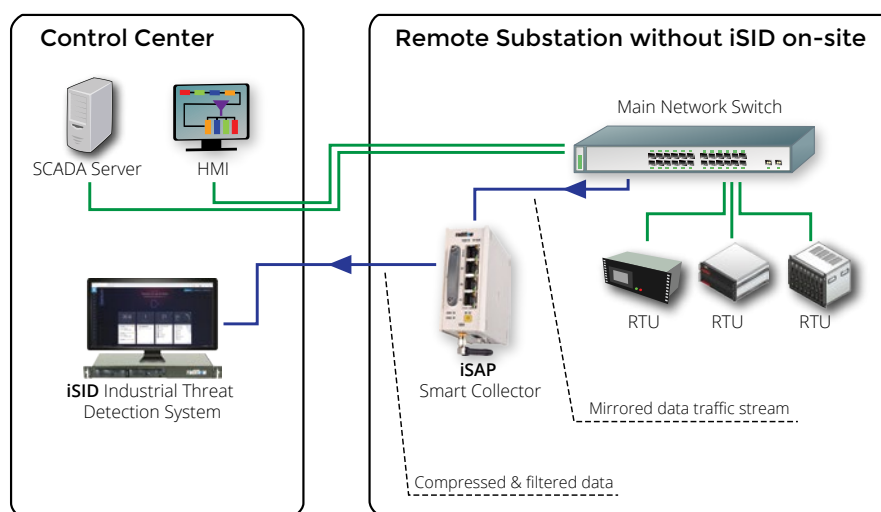
INPUT POWER RANGES

24-24V DC (range: 18-32v DC)
48-48V DC (range: 36-60v DC)
110-230V AC (range: 90-250v AC)

POWER CONSUMPTION

15W w/o PoE
135W with PoE

TYPICAL DEPLOYMENT



Deployment of a central iSID Industrial Threat Detection System using iSAP Smart Collectors at remote sites

ABOUT RADIFLOW

Radiflow develops trusted Industrial Cyber-Security Solutions for Critical Business Operations. Our portfolio of game-changing solutions for ISC/SCADA networks empowers users to maintain visibility and control of their OT networks. Our intelligent Threat Detection and Analysis Platform for industrial cyber-security minimizes potential business interruption and loss within your OT environment.

Radiflow's team consists of professionals from diverse backgrounds, from cyber-experts from elite military units and automation experts from global cyber-security vendors.

Founded in 2009, Radiflow's solutions, are successfully deployed by major industrial enterprises and utilities protecting more than 3,000 critical facilities worldwide. More at www.radiflow.com.