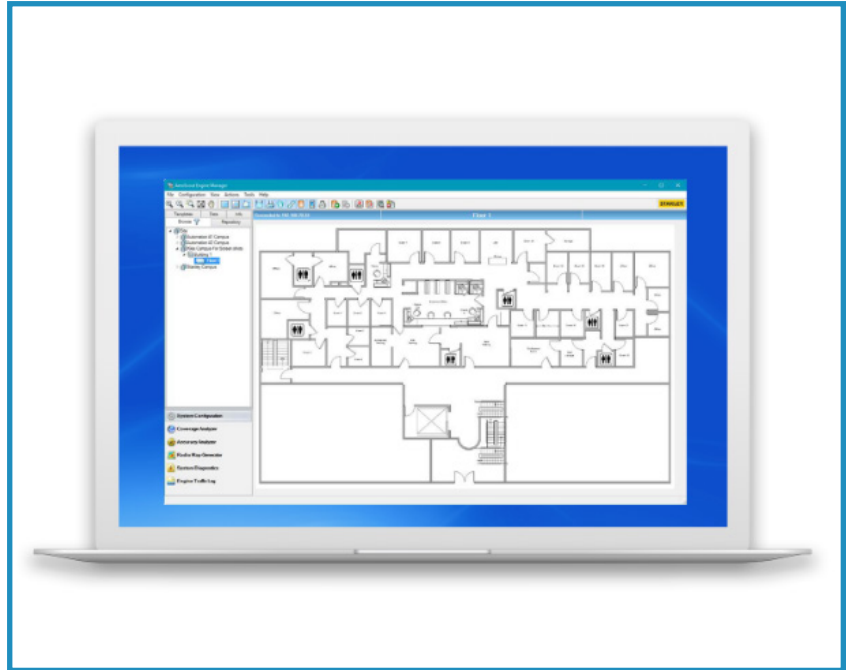


DATA SHEET

AeroScout Location Engine

Location and visibility for accurate and reliable asset information



Product Highlights

AeroScout Location Engine provides:

- RSSI-Based Location Reporting
- Egress Point Detection
- Accurate, Reliable Wi-Fi and BLE-Based Active RFID
- Automatic Calibration
- Enhanced Ultrasound Location Accuracy
- Enhanced Infant Protection Capabilities

Description

AeroScout® Location Engine (ALE) is an integral component of MobileView® RTLS, Arial® Wi-Fi, and WanderGaurd® Blue platforms, providing accurate and reliable location data for assets and people by calculating and delivering the location of tags, badges, bracelets, pendants and call stations.

The AeroScout Location Engine receives information from Wi-Fi and BLE (Bluetooth Low Energy) -based Active RFID (Radio-Frequency Identification) Tags and standard Wi-Fi and BLE networking devices and applies multiple complex algorithms to produce highly accurate and reliable location and status data.

The sophisticated processing abilities, multiple visibility modes, and WLAN compatibility of the AeroScout Location Engine make it a key component of the most complete and scalable visibility solution on the market.

Key Benefits

Real-Time location and status:

The AeroScout Location Engine uniquely processes multiple forms of wireless location and status data over a single, unified infrastructure: accurate real-time location indoors and outdoors, presence detection, egress-point visibility, sensor capabilities, and more.

Architecture:

The AeroScout Location Engine can run on either a physical or virtual machine, or hosted on a cloud environment. Location Engine also supports a high-availability failover mechanism.

Standard Wi-Fi and BLE infrastructure:

The AeroScout system utilizes standard wireless networks, keeping costs low and enabling enterprises to gain more benefit from their existing WLAN. Through integration between the AeroScout Location Engine and all major WLAN vendors, customers can use standard Wi-Fi and BLE infrastructure as Active RFID readers to determine location and status – no additional hardware is required.

Location for Tags and Devices

The AeroScout Location Engine's advanced algorithms offers accurate location of tags and devices. Small, battery-powered AeroScout Tags can be used to track staff, patients, infants, and a variety of assets and equipment. Standard Wi-Fi and BLE client devices such as laptops and tablets can be located as well.

Integrated sensor and telemetry capability:

The AeroScout Location Engine processes sensor data received wirelessly from AeroScout tags. Built-in options include motion, temperature, humidity and contact sensors. Wired sensor telemetry capabilities also exist, using a tag interface, extending wireless communication of status information to devices without inbuilt wireless functionality.

MobileView:

The AeroScout Location Engine interfaces directly with the MobileView application platform for delivering and integrating enterprise-class visibility applications.

Accurate, reliable indoor and outdoor location:

AeroScout uniquely provides real-time location based on the Received Signal Strength Indication (RSSI) method. This enables accurate location determination in indoor environments, such as Healthcare facilities and industrial environments.

Advanced visibility capabilities:

In addition to Wi-Fi and BLE based real-time location, the AeroScout Location Engine can process a variety of other location and visibility data. This includes immediate egress point detection using Exciters. These capabilities enable a wide range of applications to meet specific industry and customer needs.

Key Functionality

Location Determination

- Processing and analysis of signal strength received from standard Wi-Fi/BLE Access Points
- Patented dynamic online synchronization scheme to ensure accuracy
- Patented multi-path reduction algorithms that significantly reduce errors from signal reflections.
- Floor separation capability for multi-floor installations
- Industry's leading proven Wi-Fi/BLE location accuracy, typically 3-5 meters, depending on the environment
- Fully integrated and tested with all major enterprise WLAN systems, with no proprietary upgrades required
- Automatic calibration functionality delivers constantly improving location accuracy as well as providing real-time adjustment to physical changes in the monitored zone

Management

- Centralized management and configuration of all infrastructure Devices - Exciters, Door Controllers, and Gateways.
- On-demand location request processing for client applications
- Intuitive graphical user interface for locating tags or devices on a map
- Map import and setup functions.
- Centralized wireless firmware upgrades to infrastructure devices

Additional Features

- AeroScout Analyzer sophisticated software tool for analysis of location accuracy, Wi-Fi/BLE coverage, and system diagnosis
- Ability to process sensors, telemetry and other advanced data retrieved, and transmitted by tags
- Repository for Access Points and Devices that can be imported to the configuration
- Configuration templates that can be easily assigned to devices
- Ability to remotely trigger tag identification (making LED blink, etc.)
- High-availability failover mechanism

AeroScout Engine Manager

AeroScout Location Engine brings together System Manager and System Analyzer into a single user interface.

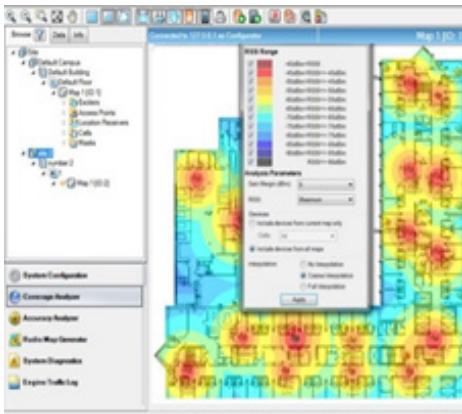
The interface includes intuitive menu commands quickly accessed via the 'Browse Tree'. The Browse Tree allows a quick view of the system architecture and status.

System Configuration

The main administration and configuration tasks are centralized in this module. Site maps are imported and managed through this module. Other management tasks include setting up the system topology, importing Devices, and Access Points, and configuring remote infrastructure. Administration functions include recording location data, event management and site monitoring.

Coverage Analyzer

This is an analysis module providing Received Signal Strength, Synchronization Source, and Coverage Density analysis based on recording files.



Accuracy Analyzer

This is an analysis module providing Accuracy Map, Tracking, and Map Separation analysis based on recording files.

Radio Map Generator

This module enables you to generate, adjust and analyze Radio Maps. Radio Map analysis options are Radio Map Ambiguity and Radio Map Visualization analysis.

System Diagnostics

This module is designed to analyze configurations and recordings, and pinpoint errors that are otherwise difficult to detect.

Engine Traffic Log

This module enables you to display the data contained in the recording files. The Engine Traffic Log displays the data stored in the file across readable fields, allowing analysis of the information.



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