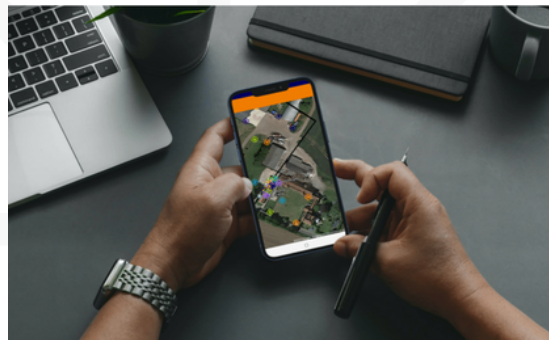# SALUS

Astute's SALUS (Serviceable Asset Location & Utilisation System) solution is a world-leading technology for asset location reporting and data services. A really good starting point to find out more about the SALUS solution is to watch the video on Astute's website which can be seen by scanning the QR code here.
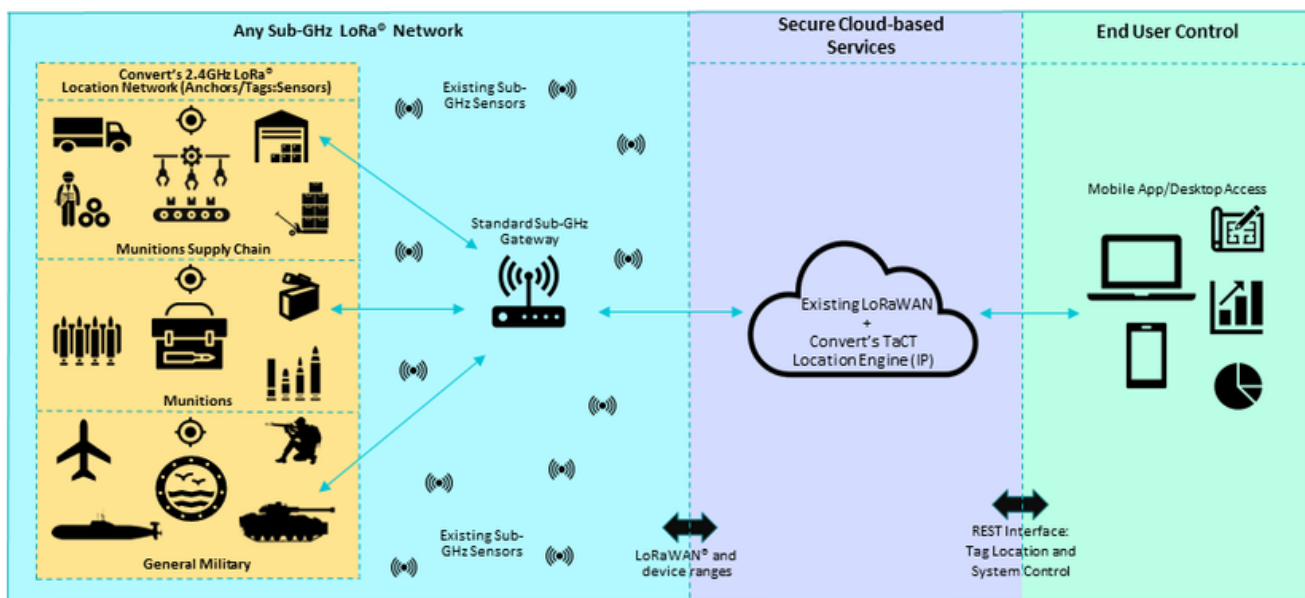
Astute's SALUS Solution

- SALUS (Serviceable Asset Location & Utilisation System) is the world-leading technology for location reporting and data services.
- Patented platform, functioning as a unified 'dual frequency network,' optimises and leverages the value already invested in existing Sub-GHz infrastructure.
- Assets can be tracked both indoors & outdoors, across multiple floors, buildings and sites on the same network.
- Intelligent asset tags can send and receive condition and status information via SALUS's data channel.
- Long-life battery operation makes installation and management quick and easy.
- Flexible and scalable solution allows trade off between battery life, accuracy and cost.
- Flexible technology licensing supports cost-effective adoption, either as White label solution or IP sale.

SALUS
AN ASTUTE SOLUTION

SALUS SYSTEM ARCHITECTURE

SALUS Specification

Location:
- Can achieve <2 Metres accuracy.
- Works across multiple floors (3D) in difficult indoor environments.

Anchor Density:
- In general 1-2 anchors required per room to increase precision.
- Max. anchor line of sight range <200m outdoors.

Ease of Use:
- Easy to install, setup and configure via mobile app.
- Current installations 1 to 2 days.
- Including training personnel.
- Low power, supports battery operation.

Convert's LoRa® solution delivers on all major market drivers:
Low Power : Low Cost : Accurate : Flexible

Solution Overview

- Fixed location anchors define the tracking area, indoors and outdoors.
- Active tags moving through the network are ranged to the anchors.
- Astute's sophisticated application software processes the tag-anchor distances and generates a latitude, longitude, altitude position for the tag, which is stored in its location database.
- A REST API supplies the location to an Android app where it is displayed in a user-friendly way.

PILOT SYSTEMS

A 'standard' Pilot System contains the following equipment:

- LoRa® 2.4GHz to IP gateway, including 4 x SX1280 radios, GPS, 100Base ethernet port and 802.11bgn wireless.
- Ranging server application (Cloud-based service).
- Suitable number of Anchors, each containing an SX1280 radio, powered via an internal battery, and with wall or pole mounts included, (indoor and/or outdoor anchors available).
- Suitable number of Tags suitable for wearing on a person, each containing an SX1280 radio, powered using an internal coin cell battery (not supplied).
- Access to user control app.
- Pilot System review.
- Quarterly system report.

SUGGESTED USE CASES

- MILITARY & AEROSPACE
- RAIL
- HEAVY INDUSTRIAL
- WAREHOUSE LOGISTICS
- OIL & GAS
- CONSTRUCTION

Tags can report on location, status and condition of any asset, both indoors and outdoors, on the same network.