AirVision Asset Tracking – Executive Summary of Capabilities and 2022 Development Plans

Introduction

AirVision offers an optional Asset Tracking and Work Items tracking module, currently licensed and used by 9 state and 6 county/municipal programs.   The module is designed to integrate with AirVision's existing site/parameter details, tasks scheduler, as well as AirVision's Electronic Logbook system (updated several years ago to align with EPA guidance on electronic logbooks).

Overview of Capabilities – Asset Tracking

The asset tracking system allows users to create asset entities for instruments, calibrators, data loggers, gas bottles, and any other type of equipment the agency wishes to track.

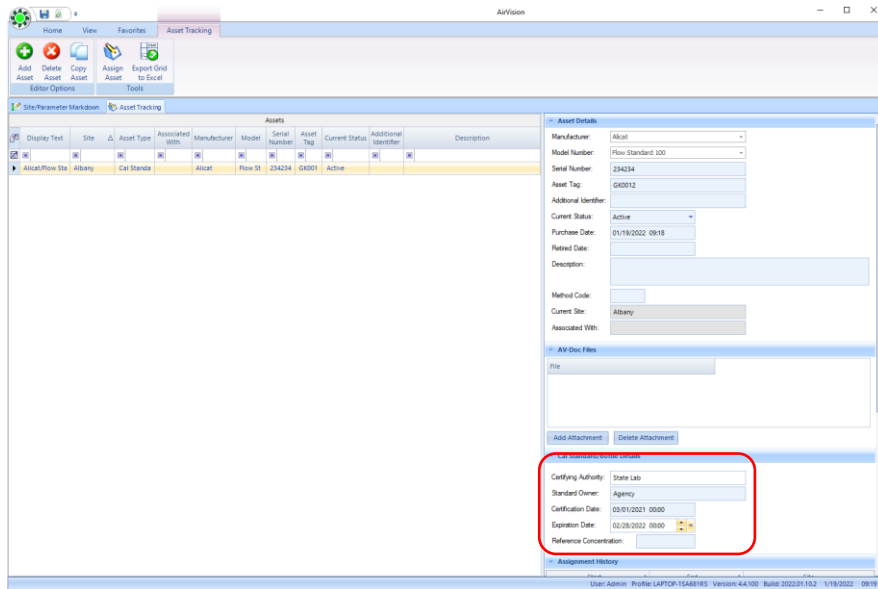Assets are given one of the following categories and associations within AirVision:

- Analyzer (associated with a monitored parameter, e.g., ozone, SO2)
- Instrument (associated with a Direct Polled instrument, like a PM monitor, small sensor like Purple Air 2, etc)
- Data Logger
- Calibrator/Standard (associated with a calibrator, primary standard, gas bottle, etc)
- Zero Air Generator
- Other (can be anything associated with a Site, e.g., fencing, towers, racks, enclosure, tools, etc).

All assets have the following minimum properties associated with them:

- Manufacturer
- Model Number
- Serial Number
- Asset Tag
- Additional Identifier
- Current Status (active, retired, etc)
- Purchase Date
- Retired Date
- Description
- Method Code (for auto-filling method codes when moved to a new site)
- Current and historical site/parameter association.

The asset tracking system can then track any asset as it is moved from one site to another, in and out of repair facilities, retired, etc.   The historical record can be viewed in a number of reports, such as from the perspective of the asset ("where and when has this analyzer been over its life") or from the perspective of the pollutant ("what different analyzers have been used to monitor ozone at Site X?"). Other reports can provide a current site inventory of all Assets.
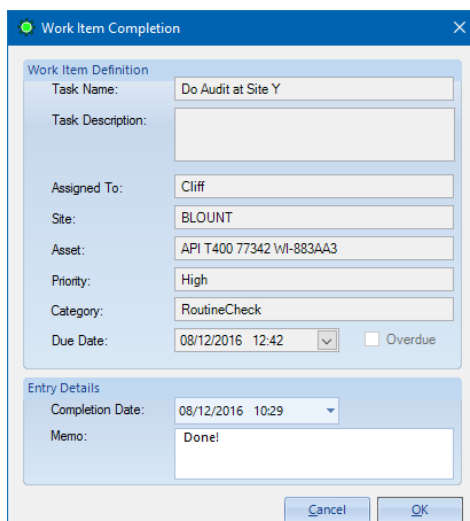
Additional properties exist for Calibration/Reference type assets.   They can be set with a certification date and expiration date for the certification, and track and report the history of those certifications.

The system can be set to automatically create Electronic Logbook entries whenever an Asset is moved.

Overview of Capabilities – Work Items

Users can create Work Items as one-shot tasks (e.g., "repair analyzer X at site Y") or as repeating work items (e.g., filter replacements, audits, etc).   Repeating items can be set to reschedule based on completion time or last due date, and can be filtered to only reschedule on work days or even certain days of the week.   Work Items can be associated with an Asset, but do not have to be.   Users are notified of upcoming and overdue work items via email, and the same notification task can also notify users of upcoming or overdue expiration of calibration / reference Assets.

When a user completes a Work Item, AirVision can also create an Electronic Logbook entry. This function can be set for each Work Item (e.g., you can choose which work items create logbook entries, if some don't need to be logged).

Document Integration

Both Assets and Work Items can be integrated with the AV-Doc system, which allows the user to upload static documents (e.g., photos, scanned PDFs) or dynamic forms (e.g., Excel spreadsheets, Word Docs) and associate them with any asset or Work Item.   These could include original asset purchase documents, manuals, audit forms, photos related to a weather or wildlife event, etc.

Add AV-Doc File Attachment Wizard

Import Attachment from Local Disk
Browse for the file to import and attach and select next

Details

Browse for File to Attach

File Name: man_200eh-em.pdf
File Association: .pdf
Destination Library Path:
File Description: API 200 Manual

File Information
Created By: LAPTOP-1SA681RS\sdre   Created On: 10/20/2021 20:22
Last Modified By: LAPTOP-1SA681RS\sdre   Modified On:

Original File Size (KB): _____7238
Compressed File Size (KB): _____6669

< Back   Next >   Cancel

Upcoming Late 2022 Development

In preparation for upcoming EPA guidance (see October 12, 2022 memo), Agilaire plans to proactively add additional fields and reports to the Asset Tracking / Work Item system:

- Owner (if different from the agency)
- Purchase (Acquisition) Cost
- Planned Retirement Date
- Condition (different from status), .e.g, new, good, fair, bad, broken, trashed)

In addition, Agilaire will also be adding a Repair History report that leverages the existing "Repair" category Work Items and their association with assets (e.g., show the date, time, and status of all Repair tasks associated with Asset X).   Other reports (e.g., focusing on status, upcoming retirement dates, etc) can be developed based on upcoming EPA guidance.

Agilaire would be happy to participate in any trials/testing, as mentioned in the 2022 NAMC presentation.