STRATUX Daily Digest

# Overview

Daily processing of the STRATUX sqlite3 database files to extract interesting information. Examples of desired data:

* Highest speed
* Slowest speed ( greater than 25 kts)
* Highest altitude
* Lowest altitude ( greater than 0 )
* Most contact events
* Fewest contact events
* Closest contact
* Furthest contact
* Squawk counts (see section on special Squawk codes)
* Emergency Squawk events
* Flyover events (less than 1nm range)

# Specifications

## Operation

Application is provided path to a STRAUX generated sqlite3 database file.

If file does not exist, signal a fatal error and exit.

If file is compressed (expected gzip compression) decompress

Check file for type of sqlite3 database; flag fatal error if it is not.

Verify database contains expected schema; flag fatal error if it is not.

Search required tables for the metric requested. Default is –all metrics.

## Data Records

Minimum record requirements will contain the following basic aircraft information:

* ICO25 code
* Callsign ( -- n/a – if not detected)
* Tail Number ( ---- if not detected )
* First contact time (UTC)
* Last contact time (UTC)
* Remarkable aspect (e.g. speed, altitude, selection criteria)

Optional record fields, if available via other database sources

* Aircraft manufacture
* Aircraft model (e.g. 737-8)
* Operator / owner (e.g. American Airlines)
* Image of aircraft
* Military / Civilian / Unknown (aliens??)

# Components

List of project components, such as .jar files, images, configurations etc.

## Container library:

yyyyyy.jar

## Support libraries:

wwww.jar

zzzz.jar

## Launcher

qqqqq.cmd

# Operation

Operational aspects.

## Data Services

Data intake / output descriptions

## Data Transport

Any type of transport

# Installation

## System Requirements

**Operating System**

OS requirements

**Java Runtime (JRE)**

Application version / stack component requires (Java Specific)

## Configuration

Configuration information

## Database Permissions

Database permissions / actions

# Data Storage

## Database Schemas

# Special Squawk Codes

* **7700** - Emergency, this will be an indication on the controller's screen that your aircraft has experienced an emergency
* **7600** - Radio Failure, this code is not used very often because we have both Text and Voice communications.
* **7777** - Military Interceptor Operations
* **7500** – Hijack