



CITY OF SUNNYVALE

AUGUST 29, 2022

Casper Proposal for Addition of ADSB Exchange Subscription



Sunnyvale

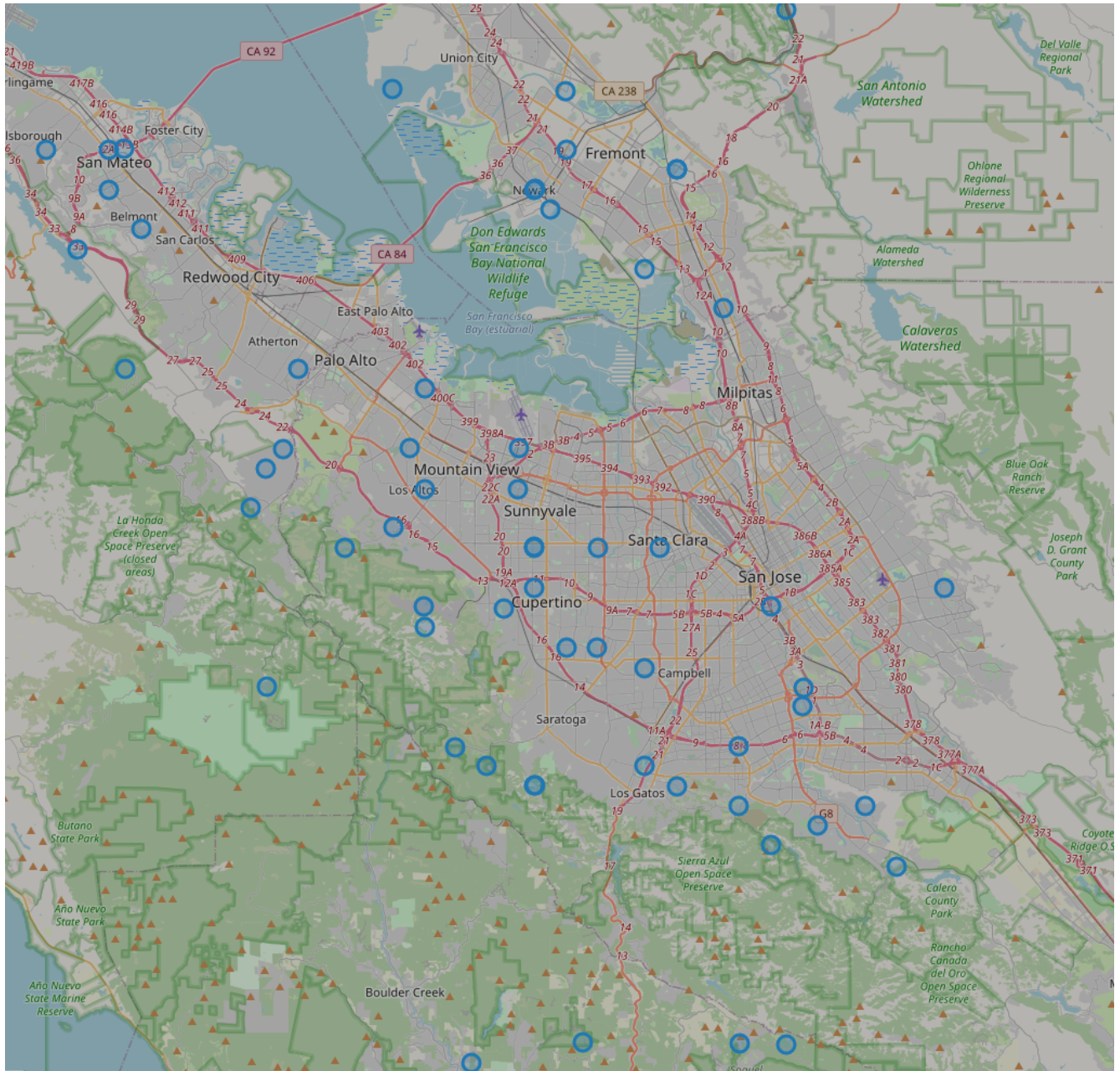
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Proposal Summary

To be able to increase the insight into the actual air traffic situation (including departure & arrival times) at various locations around The City of Sunnyvale and as such to improve logistic operations, The City of Sunnyvale has requested Casper Airport Solutions Inc. to quote for the installation of an ADSB Exchange.

We propose to integrate ADSB Exchange into the current web-base Casper Noise solution used by the City of Sunnyvale in lieu of an antenna and ADSB Receiver for the following reasons. ADSB Exchange utilizes all receivers around the City of Sunnyvale, thus providing more accurate coverage and data to the Casper Noise system. Also, by using this subscription service the install time is significantly less, without needing to worry about hardware installation, Casper can have the software running and integrated with the Casper Noise software in just a couple of days. Finally, the subscription service in lieu of the physical antenna negates the risk of any hardware damages that could require replacement in the future and would result in data downtime while under construction. By choosing the ADSB Exchange subscription, The City of Sunnyvale still has the option to install an antenna in the future should that be of interest to The City. If that is decided then the coverage by the City's antenna will be added to the Exchange server. After reviewing the coverage map which you will see in Attachment A, it is our opinion that this is not necessary.



Attachment A: ADSB Exchange Coverage Map

This solution enables the effective presentation of complete flight tracks in the vicinity of Sunnyvale and will provide a near real-time presentation of all movements of aircraft equipped with an ADS-B transmitter. Currently all coverage in the Casper Noise system used by The City is pulled from FAA SWIM data and Flightaware which are both reliable sources of information however, there are some flight tracks that are not in those systems which will be picked up on ADSB Exchange. Pursuant to 14 CFR Part 91 subsection C, ADSB Out transponder is a requirement for almost all airspace in and around Sunnyvale.

The ADS-B system to be installed is a software solution, requiring no hardware installation. It will provide the complete information of all aircraft equipped with the proper transponder not already captured by our currently available systems. This data will be provided to Sunnyvale in almost real-time. In addition this information will be incorporated into our North American wide flight tracking system which uses FAA SWIM data as well as Flightaware.

The user of the system will have access to the web application using a standard web browser. Access to the system is realized via a username and password.

Should there be questions regarding any parts or aspects of our proposal, please contact us.

Sincerely,



Heleen Erkamp – Chief Executive Officer

Casper Airport Solutions Inc.
1055 Westlakes Drive, Suite 300, Berwyn, PA 19312
heleen@casper.aero/ (323) 984-8787
Visit us at: www.casper.aero

Project Schedule

Project Timeline

As Casper Noise is a serviced solution that is already active in the City of Sunnyvale, little time is needed to install and configure the ADS-B Exchange. The following steps need to be taken:

- ✓ Subscription purchase and back-end installation.
- ✓ Casper Noise needs to be connected to the identified ADS-B data feed.

Cost Proposal

Description	Monthly Price	Comment
ADSB Exchange Subscription	\$140	-
3 Year Term Total Cost	\$5,040	-

- All prices are in USD, excluding any applicable sales taxes.
- All invoices should be paid within 30 days.

Conditions

General Conditions

The following conditions apply:

- ✓ Casper shall provide the ADS-B Exchange and integration with Casper Noise.
- ✓ This contract term will coincide with the current contract agreement between Casper and Sunnyvale.
- ✓ Monthly fee is subject to an annual price indexation.
- ✓ After the addendum is signed the City of Sunnyvale and Casper will mutually agree on the determination of T0 (the start) of the project.

Validity of Proposal

This proposal has a validity of 30 days.