SAFTE-FAST

REAL TIME INTEGRATION

Leon SOFTWARE
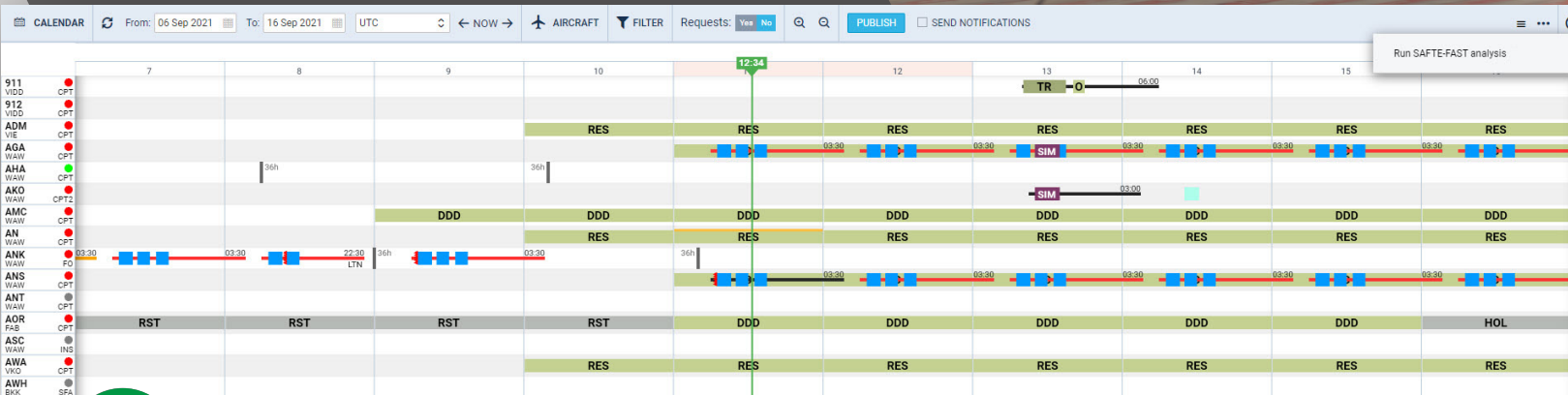

SAFTE-FAST REAL TIME

Results You Can Trust

With over twenty years of research and operational experience behind it, SAFTE-FAST is the world's leading bio-mathematical model. It evolved from research conducted by the US Army on sleep deprivation and performance at the Walter Reed Army Institute of Research. The model has been peer-reviewed, extensively tested and validated by the US Federal Aviation Administration.

Validation of the model has demonstrated it can predict changes in the speed of performance against the psychomotor vigilance test (PVT). It can also predict the likelihood and severity of accidents as well as risk and fatigue.

Fatigue Risk Management Solutions

Easily Identify Fatigue

The SAFTE-FAST Real Time integration in Leon makes it easy to identify fatigue hazards for either a single crewmember or all crewmembers.

Fatigue hazard metrics are highlighted by way of different color coding and can be viewed in the SAFTE-FAST results table, or on the Crew Timeline.

Leon users will be able to view SAFTE-FAST metrics for Departure, Arrival and Flight.

www.saftefast.com
info@saftefast.com

The Science of Performance at Work

SAFTE-FAST Effectiveness

Effectiveness is an objective measurement which has been validated by the FAA. It represents the speed of performance on the Psychomotor Vigilance Test (PVT), scaled as a percent of a fully rested person's normal best performance. It is highly sensitive to fatigue, corresponds to the speed of cognitive performance and correlated with many other cognitive performance metrics.

Effectiveness correlates to:

- Continuous Hours of Wakefulness
- Reaction Time
- Lapse Likelihood
- Mean Cognitive Throughput
- Blood Alcohol Concentration
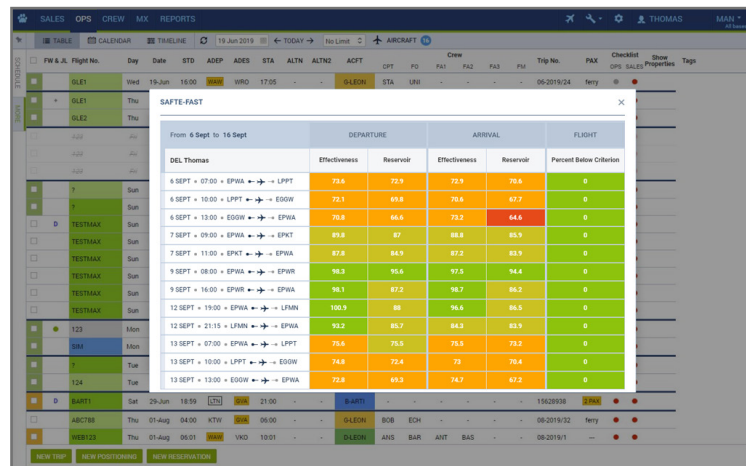
SAFTE-FAST Reservoir

The Sleep Reservoir in SAFTE-FAST represents the current level of the sleep reservoir expressed as a percent of the full capacity. The cumulative number of hours of sleep that have been missed since the Sleep Reservoir was last at full capacity is represented in SAFTE-FAST as Sleep Debt. In SAFTE-FAST, a 75% Sleep Reservoir is the equivalence of missing a full night sleep (assumed eight hours).

SAFTE-FAST Percent Below Criterion

The percent below criterion metric depicts the percentage of time where the Effectiveness of a crewmember has fallen below 77% (Criterion) during flight.
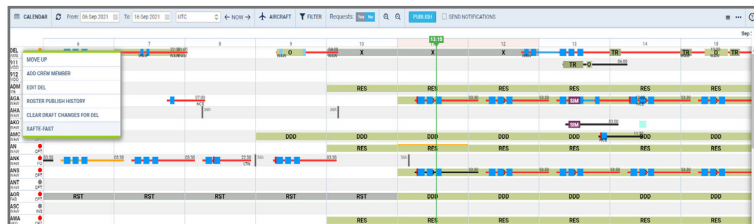
SAFTE-FAST Real Time

Using the SAFTE-FAST metrics in Leon, you can:

- Screen for low performance during departure and arrival.
- Screen for low reservoir during departure and arrival.
- Screen for low performance enroute.

Perform real-time risk assessments and identify whether fatigue in your schedules is due to circadian interactions or excessive sleep debt.

Free Trial

SAFTE-FAST Real Time is available for a free limited period to any Leon customer. For more information on how to integrate contact us at info@saftefast.com.

About Leon Software

Leon Software (www.leonsoftware.com) excels in delivering an advanced cloud-based solution for the aviation business, including scheduled and cargo operators, business aviation, trip support companies and brokers. From flight OPS and crew management to charter sales, Leon provides a versatile platform design in a digital ecosystem of an aviation organization.

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