

How ISMS™ Can Improve Operations Safety

From on board all types of aircraft to which it can be fitted, the ISMS™ basically provides two critical types of information:

- a real time monitoring and analysis of the main on board systems (LiveFDA™), which can download flight data either periodically (scheduled), continuously to Operations on the ground or can be downloaded immediately if an “alert” is detected.
- the capability to track the aircraft continuously, while monitoring its status, health and performance.

From these two main streams of information, the In-flight Safety Monitoring System provides the following benefits for flight operations, in normal flight and also in case of hazardous situations.

1. The ISMS™ significantly captures and monitors, in real time, more information and data than existing on board systems and can give a clearer and immediately usable picture of the systems' health and trends.
2. The flight performance information captured and transmitted by ISMS™ can provide a dynamic view of the overall behavior of the platform at a given time.
3. The data transmission rates used by the ISMS™, are superior to ACARS, so more accurate and relevant data can be transmitted to the ground.
4. All the information is downloaded to the ground either periodically (scheduled), continuously, depending on the phases of the flight as preset by Operations or downloaded immediately if an “alert” situation arises. The control center benefits from having all the information immediately available on the ground.
5. The navigation and data captured and monitored by the ISMS™ from the FMS and GPS, etc. allow the aircraft location to be pinpointed almost instantaneously.

Once fitted the ISMS™ provides adequate and actual data, which can be provided in a clear and immediately workable format to the operations center.

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