

Safety Information Monitoring Service (SIMS)

The exchange of information is a fundamental tenet of a safe air transportation system. Appropriate tools, systems and legal frameworks need to be available to enable States and organizations to effectively use shared information. Furthermore, the development of safety initiatives and implementation strategies should be built on the collection, analysis and sharing of information between States and aviation stakeholders.

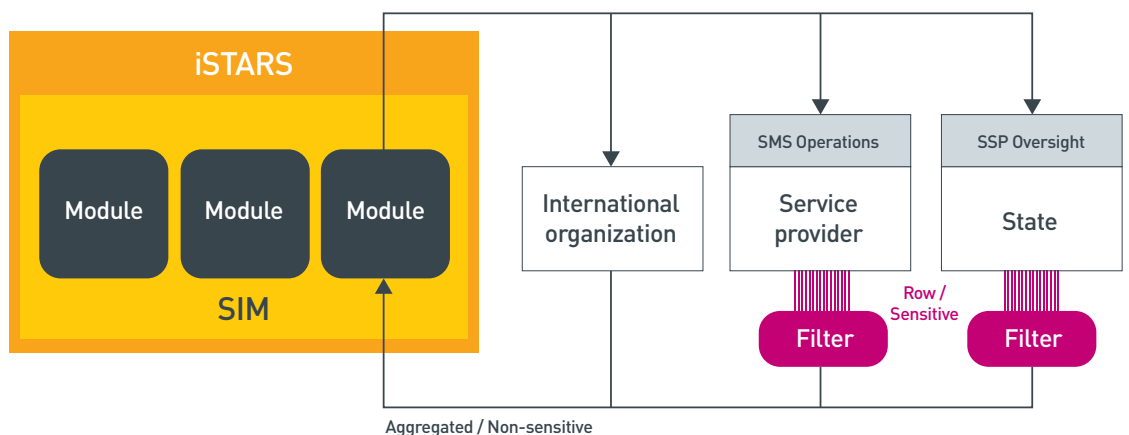
The appropriate processing, analysis and presentation is a challenging process and presently less than 40% of ICAO Member States generate information derived from collected and shared data or information. The 2015 ICAO High-level Safety Conference recommended that ICAO facilitate a phased approach towards the development of the global framework for the exchange of information pertaining to the identification of systemic safety issues and other types of information in the interest of safety.

ICAO Service

ICAO developed a Safety Information Monitoring Service to support States in the process of collecting, analysing and consequently sharing data as part of their State Safety Programme (SSP). This service is task oriented and:

- Supports States in identifying and defining key indicators for their SSP.
- Provides recommendations to prioritize areas with identified safety concerns.
- Supports the States capacity to improve the implementation rate of ICAO SARPs.
- Identifies the economic and social impact of aviation development.

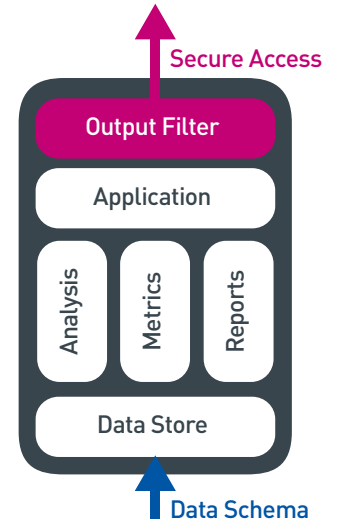
The service has a modular structure to address each State's unique requirements. The modules are complimentary and offer an increasing holistic analytical capability as part of their block building system.:



SIMS Modules

Each module provides analytical services related to a specific function of a State's oversight and monitoring responsibility. The different modules have their own term of use and provide adequate protection for the data inputs and information outputs. Appropriate and unique filters offer enhanced de-identification to meet stringent privacy concerns and legal requirements.

The development of each module is overseen by a working group composed of participating States, international organizations and service providers. The working group advises on the release of new modules and modification, and provides inputs to the terms of use applicable to the respective module.



SIMS Module implementation plan

November 2015	Ramp Inspection module (RI) Sharing of ramp inspection between States in accordance with Doc 8335— <i>Manual of Procedures for Operations Inspection, Certification and Continued Surveillance</i> .
March 2016	Operational Safety Data module (OSD) Sharing of operational data (FDM, ADSB,..) between States and service providers to support SSP and SMS processes.
June 2016	Safety Culture module (SC) Sharing of safety culture results between States and service providers.

How to benefit from SIMS

The Safety Information Monitoring Service is available to ICAO Member States, International Organization and service providers at varying degrees depending on the type of data made available to the service and the modules of interest. To sign up for the service a participant must:

- Choose a module.
- Agree to the terms of use.
- Set up a data connection to the respective SIMS module (manual or automated).
- Use the information in accordance with SSP and SMS processes.

ICAO is encouraging States and service providers to become launch customers for the Safety Information Monitoring Service. Early participation will guarantee maximum results in defining a key performance indicator for SSP and SMS.



ICAO

For more information on iSTARS/SPACE services and activities, please visit:

www.icao.int/safety/sims

Or contact ICAO's Integrated Aviation Analysis (IAA) Section via:

IAA@icao.int