



FREQUENTIS smartStrips® Flight Data Management

smartStrips is the Frequentis solution for the next generation Tower Flight Data Manager (TFDM). It is a flight data management, processing and display system optimised for tower and approach environments. smartStrips includes workflow management features and improves efficiency through automation and improved situational awareness.

HIGHLIGHTS:	
Flight data Management & processing	<ul style="list-style-type: none"> → Facilitates controller interaction with both IFR and VFR flight data → Improves air traffic controller decision making and performance by optimising the presentation of information → Co-designed and validated by air traffic controllers around the world
Advanced safety	<ul style="list-style-type: none"> → Improves safety & productivity through efficient information sharing, workflow support and reduction of manual voice coordination → Provides safety alerts by correlating tactical flight data with surveillance data
Interoperability	<ul style="list-style-type: none"> → Highly interoperable through compliance with relevant standards → Enables the acquisition and exchange of flight data and related airport data → Fully aligned with the European ATM Master Plan, FAA's NextGen Implementation Plan and the ICAO ASBU initiative → Supports standard AFTN connectivity, flight object interoperability based on ED-133, and legacy interfaces → Connects to a wide range of flight data processing systems and AFTN/AMHS interfaces available on the market (e.g. FAA-validated flight data interface FDIO) → Fully complies with ICAO Doc. 4444 15th edition & Amendment 1 → Transition platform towards SWIM (SESAR-validated SWIM interface) → Datalink-enabled with fully-integrated DCL and CPDLC
Quick deployment	<ul style="list-style-type: none"> → Advanced and quick customisation features → Highly customizable and adaptable to customers' and controllers' needs → Automatic software deployment roll-out
Fail-safe	<ul style="list-style-type: none"> → Stringent software safety assurance according to RTCA DO-278B / EUROCAE ED-109 → Advanced fallback concepts → Fail-safe, highly redundant platform → Proven in use!



One platform for static & dynamic data integration

smartStrips is based on the TAPtools platform: a highly resilient, failsafe platform for ATC-grade IT solutions. The platform supports an extensive range of message sets and interface protocols, including common standards such as ICAO 4444, AFTN, EUROCONTROL ADEX-P, and FAA NAS. It integrates a multitude of flight data processing (FDP) systems, automation solutions, and other information sources to create a unified picture of the flight situation. Each flight is represented as a flight object in the platform, which allows information management in a (System Wide Information Management) SWIM-like environment.

FACTS & FIGURES:

- **Number of working positions:** 1-200+ per site
- **Availability:** Ai = 99.99999%
- **Operating systems:** Linux, Windows, VMware
- **Environmental conditions:** 10 to 35°C, humidity up to 90%, non-condensing, ruggedised version for military usage available on request
- **Capacity:** > 12,000 movements/day

BENEFITS:

- **Safety:** Ensures operational safety in the terminal area through enhanced safety logic functions and integration of information from multiple domains.
- **Integration:** The distribution of flight data vastly enhances data exchange between the en-route, terminal and traffic flow management domains, Airline Operations Centres (AOCs) and airport operators. Decision support tools assist air traffic controllers in the terminal environment.
- **Cost reduction:** Integrated working positions lower maintenance and lifecycle costs for individual systems.
- **Efficiency:** Working with TAPtools® allows more streamlined operations, optimised ground traffic management and faster responses to planned and unplanned events in the terminal area.
- **Configuration:** The human-centric approach in the TAPtools® design lets controllers at individual facilities customise their workflows to their individual needs.

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