ATIS

VOLMET

DATALINK
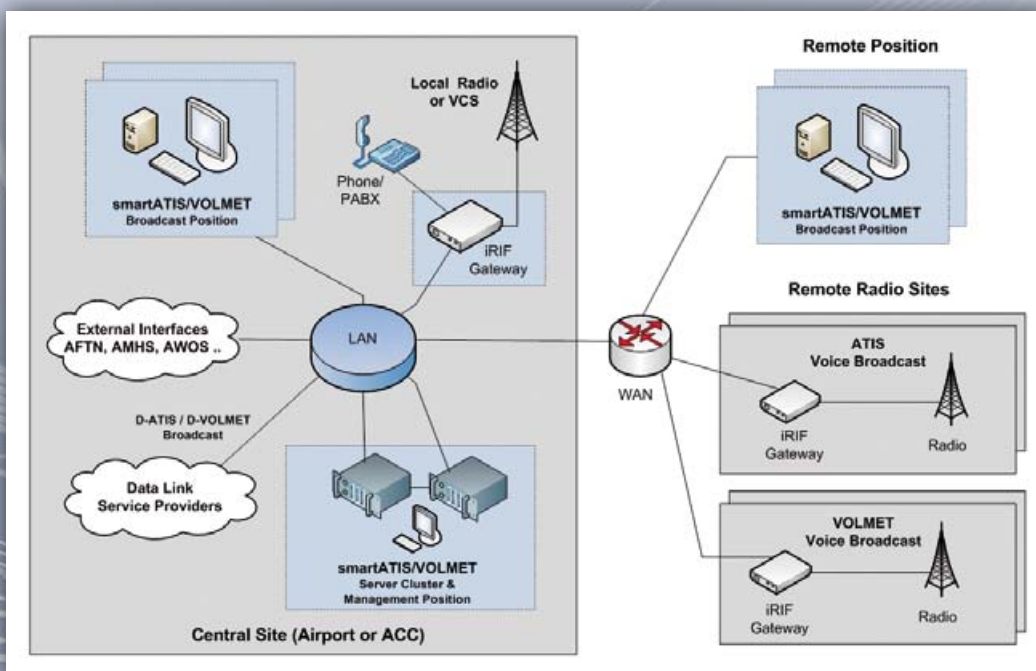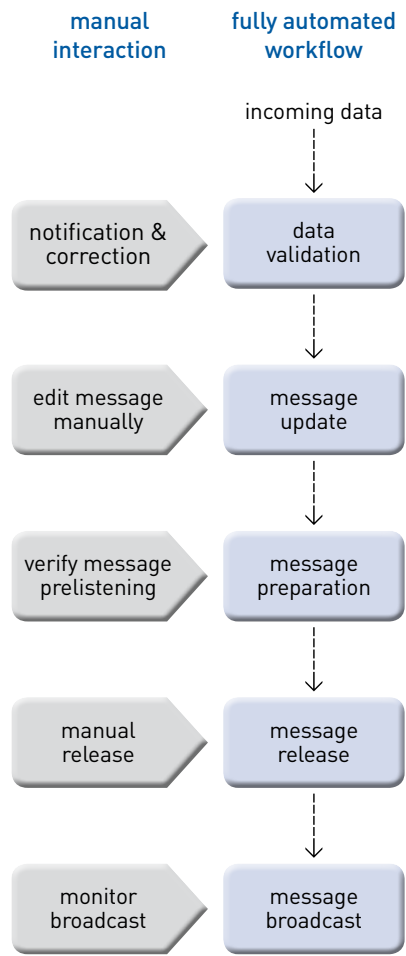
TAPtools®
FREQUENTIS

smartATIS/VOLMET

The smartATIS/VOLMET product is the next generation information service which is fully scalable to meet the demands of airports, ACCs and national ATM facilities, with support for multiple voice and data-link broadcast channels.

Fully Automated	smartATIS/VOLMET follows a fully automated procedure for handling broadcasts and message release. Users may intervene and make individual changes at any time.
Distributed Broadcasting	The Frequentis iRIF allows simple distribution of voice broadcasts over IP networks to remote radio sites. Reliability and availability are improved by decoupling voice broadcasting from other system functions.
Excellent Speech	Voice broadcasting is based on a fast and high quality synthetic text-to-speech engine. There is no need to maintain pre-recorded voice samples.
Advanced Data Link	smartATIS/VOLMET complies with the latest interface standards for integrating data link networks: ARINC 623 and ED89A.
Usability	A clearly-structured and intuitive human-machine interface (HMI) with standardised controls guides users through their tasks. A special graphical editor allows the HMI to be configured according to individual customer requirements.
Inter-Product Functionality	Once installed, the solution is easily expanded to include other components of the TAPtools family (e.g. smartStrips or smartTools) or products of the Frequentis COMMs portfolio.
Safety & Reliability	A highly-redundant, failsafe architecture ensures system availability. Software assurance levels according to ED-109/DO-278B supply the evidence needed to fulfil ESARR 6 requirements.

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manual interaction

fully automated workflow

incoming data

manual interaction	fully automated workflow
notification & correction	data validation
edit message manually	message update
verify message prelistening	message preparation
manual release	message release
monitor broadcast	message broadcast

FEATURE LIST

Broadcast Functions
→ Multiple broadcast channels (ATIS, VOLMET, customised content)
→ Advanced data link support (D–ATIS / D-VOLMET)
→ Synthetic text-to-speech engine (multispeaker, multilanguage)
→ Independent, IP-based voice broadcasting gateway (iRIF)
→ Voice broadcast interface monitoring (based on voice detection)
→ Pre-listening / listening to broadcasts at the working position

Workflow
→ Support for multiple operation modes (manual / semi / auto)
→ Editing of next broadcast message (input validation, field locking)
→ Alternate ATIS messages with predefined or free text
→ Manual correction of invalid incoming data
→ Warning functions and alerts

Customisation
→ Adaptable message content (runway condition, operational report)
→ Configuration of graphical user interface (GUI)

Integration
→ Support for telephone dial-in (also via VoIP)
→ Standard interfaces for AWOS, AFTN, AMHS
→ Shared data model with smartStrips and other smartTools
→ Logging of data for legal purpose

Standards
→ Compliant with ICAO & WMO regulations
→ Maintain future changes (provided in product upgrades)

Safety
→ Software assurance levels according to ED-109 (ESARR 6)
→ Highest availability through special backup mechanisms

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