SSA

ATS 3.x
AFTN TERMINAL/SWITCH

The **ATS 3.x is a family of AFTN (Aeronautical Fixed Telecommunications Network) systems and applications, serving the text messaging and switching needs of Civil Aviation Operators, in accordance with the ICAO Annex 10 recommendations.**

Features

- Flexible architecture allows unlimited connectivity and integration of legacy and current technologies – systems can serve as gateways to old networks
- Multiple supervisor terminals
- Message routing with address stripping
- Pre-Defined Addressee Indicator expansion
- Extensive message search and message repetition facilities
- Full message and action logging
- Integrated Flight Plan (FPL) and NOTAM forms

Standard Equipment

ATS-3x-AFTNTERM	AFTN Terminal System including
	- Desktop computer with LCD screen
	- Serial/network interfaces
	- Uninterruptible Power Supply
	- Heavy-duty 80-column printer
ATS-3x-AFTNSWITCH	AFTN Switch including
	- Rack-mounted server
	- Multi-port serial interface
	- Uninterruptible Power Supply
	- Heavy-duty 80-column printer

Optional Accessories

ATS-SS01-TTY	TTY/TELEX Interface for connection to legacy 2-wire and 4-wire TELEX and TELETYPEWRITER networks (direct and dial-up, A/B signaling)
ATS-3x-OPR	Additional Operator/Supervisor Terminal (for use with either ATS-3x-AFTNTERM or ATS-3x-AFTNSWITCH)
ATS-3x-STBY	Hot Stand-by option for use with ATS-3x-AFTNSWITCH (second server, line switches)

Services

ATS-3x-CUST	ATS-3x CUSTOMIZATION
	- national character sets
	- custom control codes
	- special line interface applications
	- other message handling protocols
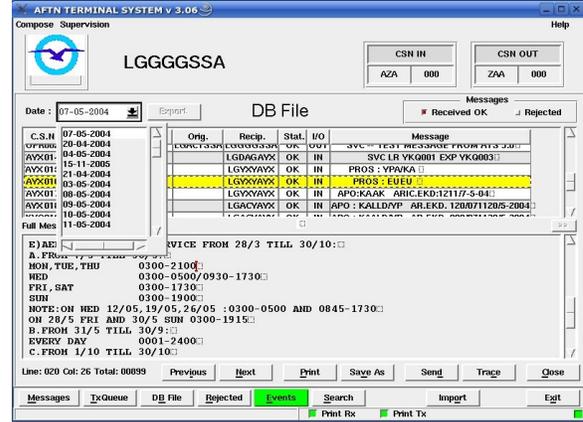
ATS 3.x Application

Application

The ATS 3.x AFTN TERMINAL / SWITCH is a family of products developed in accordance with ICAO Annex 10 recommendations, serving the text messaging needs of Civil Aviation operators.

The AFTN TERMINAL implementation comprises a robust desktop computer, interfaces, printer and software for connecting a Civil Aviation service to the controlling node of the AFTN network, typically a message switch. An open architecture and a large selection of physical interfaces allow the integration of the AFTN terminal to both legacy and future message switching networks.

The AFTN SWITCH implementation takes care of AFTN message dissemination as a node in the global message switching network.

Both implementations can handle a wide range of interfaces: TELETYPEWRITER (leased 2W and 4W lines) and TELEX (2W and 4W A/B signaling) using the optional ATS-SS01 TTY/TELEX interface, leased-line or dial-up baseband and audio MODEM connections, direct serial connections to specialized communication equipment and printers.

In addition to the legacy AFTN protocols, Internet Protocol (IP) encapsulation technologies are used for connections to similarly equipped switch and terminal products (FTP/SFTP, NFS, TCP).

An open network architecture and open text message database format allows even broader connectivity and message post processing options. A concise human-machine interface (HMI/GUI) allows for quick handling and tracking of message traffic through the ATS 3.x TERMINAL / SWITCH. Additional operator terminals may be added for sharing a point-to-poing connection for a terminal configuration or to increase the number of supervisor terminals for a switch configuration.

ATS 3.x AFTN TERMINAL / SWITCH Specifications

Interfaces	Serial/Multi-Serial V.24/V.28: direct connections, voice modems, short-haul baseband modems, TTY/TELEX Ethernet: IP connections (TCP, FTP, HTTP, operator/supervision/maintenance) Centronics Parallel: Local printer
Application	AFTN Terminal Node AFTN Terminal Node with multiple operators AFTN Switch Node with one or more supervisors
Protocols	AFTN protocols according to ICAO Annex 10, including FPL and NOTAM forms
Host	Desktop computer (AFTN Terminal), Rack-mount computer (AFTN Switch) Safety according to EN60950, EN41003 (73/23/EEC, 93/68/EEC) EMC according to EN55022 - CISPR22 Class A, EN50081-1, EN50082-1 (89/336/EEC)
Status Display	For each Interface: Correspondent main indicator, Line status, CI IN, CI OUT Terminal/Switch Alarms: Error Events, Messages Waiting on Operator, Rejected Messages, Queued Messages Local Printer Status
Audible Alarm	Distress messages (SS), Line Cut, Local Printer problem
Archiving	30 to 180 days with automatic deletion of older messages, save/restore of selected date files, import/export of plain message text files
Message Database	Plain text database; separate date files
Message Search criteria	Free text with filters (message header, message text, received, transmitted, service, rejected, all). Search current date messages, search all messages.
Message Lists	CI/CSN, Originator, Recipient, Message Status, Received/Transmitted indication, First line of message. Message window for the selected message. Sorting by field, Selection by Date, Received/Transmitted, Rejected.
Events	System and operator actions, message routing, line status reports
Statistics	Received/Transmitted by priority, volume, histogram (hour)
Configuration	Automatic service message generation (CH, LR_LS, MIS, MSR, RPT) Routing table, PDAI table Serial Interfaces: individual programming of input and output handshake signals
Test facilities	RYRYRY or U*U*U* message generation for line testing
Additional facilities	PLAIN TELEX operation (requires ATS-SS01 TTY/TELEX interface, other units on request)

List of Services Offered

Training	Maintenance Personnel.
Pre-Installation	Application planning, installation study.
Installation	Installation, Setting to work.
Post-Installation	After sales technical support.

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