

ATIS

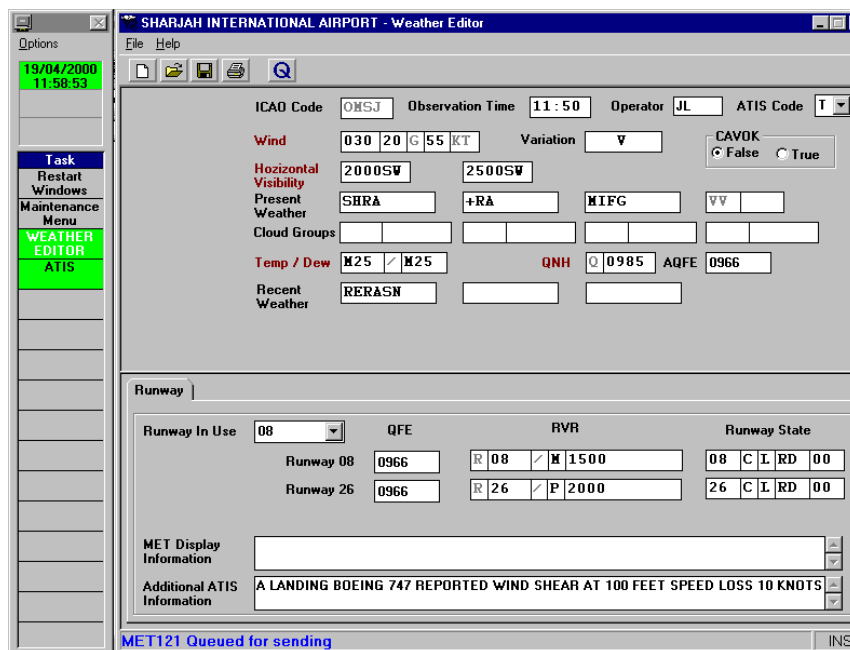
Copperchase Automatic Terminal Information Service – ATIS

The Copperchase ATIS is an Aeronautical Flight Information Service that automatically merges the current Meteorological and Air Traffic Control information on an airfield and converts it in to audible, human spoken signal. This audio signal is then made available for distribution via radio transmitter or any other audio device. Aircrew can tune in to the correct radio frequency to hear the ATIS transmission, thus reducing the Controller-Pilot radio chatter on initial contact. The textual version of this ATIS broadcast may also be distributed on the AFTN network.

The ATIS broadcast message is made up of weather information, runway serviceability and any other information considered necessary to maintain a safe ATC environment at an airport. The content of the message is updated every half-hour and new messages are made available at 20 minutes past and 50 minutes past the hour.

The outgoing ATIS broadcast plays continuously. Many existing ATIS services use continuous loop tape equipment to record and playback the messages, but the Copperchase ATIS service utilises digitised human speech in the form of .WAV files played through a PC sound card.

The Copperchase ATIS is made up of two standard network connected PC's with interface units for the Headset/Microphone and the radio transmission equipment (not supplied). The ATIS software uses the Copperchase AFTERM as its communications and messaging engine, this means that in addition to the ATIS facilities the standard AFTN message handling features of the AFTERM are provided.



ATIS Weather Editor Window

PC-based Automatic Terminal Information Service with text to voice conversion

STANDARD FEATURES

Runs under Windows 95 or NT

Text message preparation, edit & print

Text to voice conversion
Voice input and text phrase dictionary

Automatic METAR decoding

Automatic ATIS Code generation Archive and Weather Log generation (AFTN Terminal)

AFTN Message Handling feature of AFTERM

Message archive and retrieval

INCLUDES

2 industry standard PCs with network and sound cards fitted (ATIS workstation and Transmission PC)

Headphone set and microphone with impedance matching unit

Transmission keying and impedance matching unit

AFTERM software including router

ATIS software

OPTIONS

Telephone interface for public access to the ATIS transmission via the PSTN

Available in a dual-redundant hardware configuration

Direct digitised ACARS transmission

INTERFACES

The Copperchase ATIS provides interfaces to:

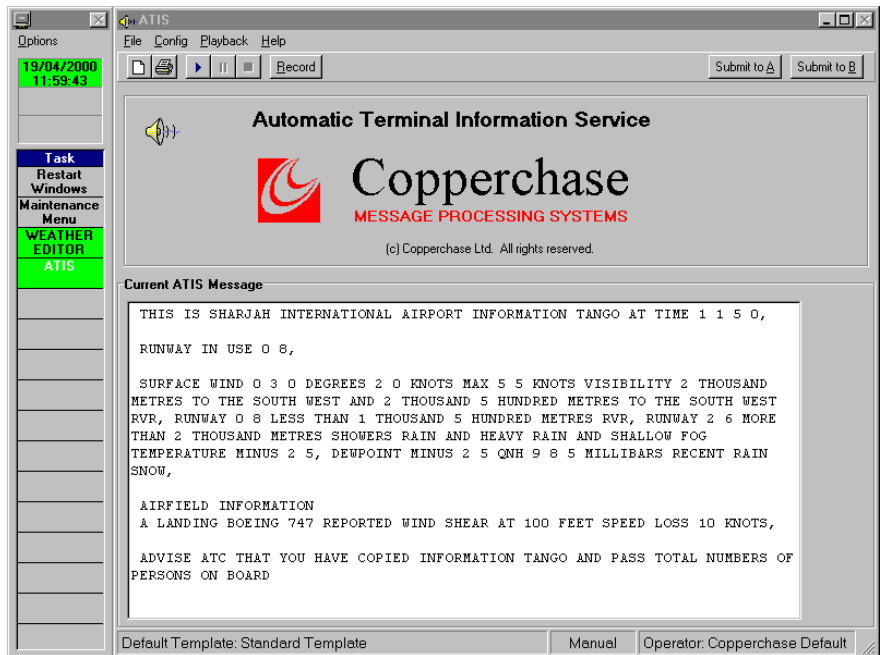
Microphone for the input of broadcast messages and maintenance of a Text/Phrase Dictionary.

VHF, UHF or HF radio transmitter for the transmission of broadcasts on an assigned ATIS frequency.

Audio Monitoring equipment for the off-line monitoring of new messages for ATIS broadcast transmission.

The outgoing message plays continuously until a new message is ready.

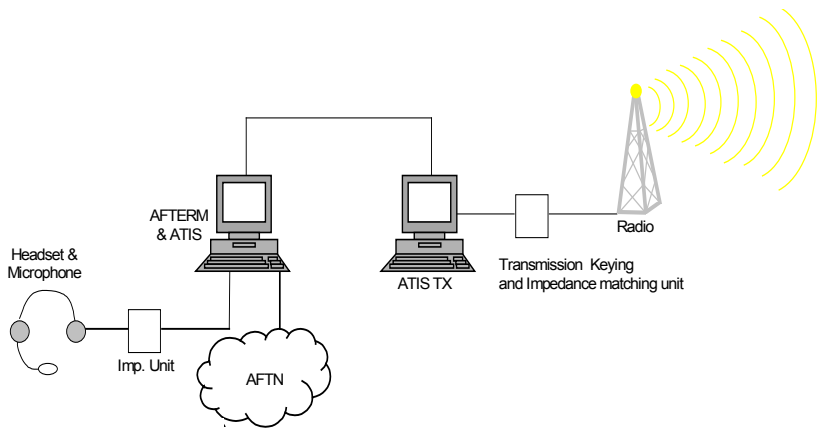
The Copperchase ATIS service utilises recorded speech in the form of .WAV files and a PC sound card. The phrases are concatenated to produce high quality broadcast speech.



ATIS Main Display / User Interface Window



Datasheet Reference: DS3 02/02/01



ATIS Configuration