ACARS

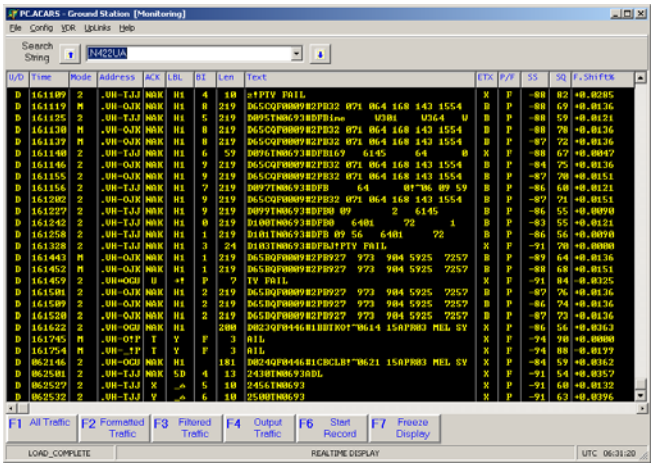
Airtel ATN is an independent supplier of data communication software for the ATN (Aeronautical Telecommunication Network). Airtel ATN has been active in ATN and the aviation industry since 1993 and is an international leader in the development of ATN communications software.

Airtel ATN's solutions focus on standards compliance, performance, quality and certification in line with best industrial practices. Airtel ATN provides software products, engineering services and solutions to aerospace users and industries all over the world. Airtel ATN's **ACARS** solutions comprise the following:

PC.ACARS software

This is supplied as either an AEEC 618 equipped Ground Station (PC.ACARS-G), or Aircraft (PC.ACARS-A). PC.ACARS can be used actively - to participate in communications - or passively for monitoring and logging received data.

- PC.ACARS offers simplified "formatted" display or complete "All traffic" display
- Test session logs can be recalled and displayed in identical format
- Menu driven interface
- API's available
- Win 2K, Win XP, Windows7

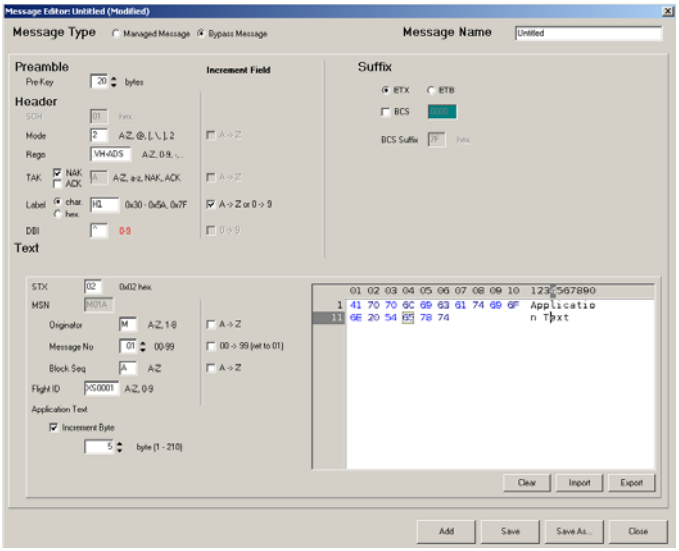


PC.ACARS-EG (Environmental Generator) software

PC.ACARS is used for lab development, workshop and flight-line testing of AEEC 618 ACARS data communications.

The 'EG' version allows ACARS messages to be constructed and sent with customized parameter values in fields such as Mode Character, Aircraft Registration Number, Technical Acknowledgement and Label.

Many of these values can also be made to increment automatically after each successive send. In addition the total number of times a message is to be sent and the interval between them can be set by the user. By defining an environment with many messages and message types, a busy RF condition can be simulated to provide a rigorous test environment for a unit under test.



EG allows the operator to send messages that are:

- Managed messages ('well behaved')
- Bypass messages ('badly behaved')

PC.ACARS hardware

The PC.ACARS hardware is used for lab development and workshop testing of AEEC 618 ACARS data communications at the analogue MSK level. It can:

- Interface with PC via RS-232 serial or USB ports
- Be driven directly by PC.ACARS or by user developed software
- Interface with a suitable VHF transceiver for operation at the RF level

An Ethernet interface is also available for custom licensed applications.