

ATN2002 EXHIBITION

A delegate-only exhibition of Data Link related products and services will take place in parallel with the conference during refreshment and lunch breaks. The following companies are committed to exhibiting. This event provides a unique opportunity for companies to promote their

services and products to a senior level audience. To find out more about the exhibition package available, please contact Susan Whyman on +44 (0)273 735634.

Organisations supporting ATN2002

Sponsors



ACI Ltd (Aeronaustical Communication International) is a joint venture of Airbus, Safran, Thales Air Traffic management, and Thales Alenia. ACI was formed in 1997 to develop and support key aeronautical data communications products and services associated with the Aeronautical Telecommunications Network (ATN). These products and services are explicitly designed for both airborne and ground applications. Developed to the rigorous standards of RTCA DO-220B Level C for essential aviation applications to ensure high quality, robust products.

The individual partners in the joint venture bring their significant experience in both airborne and ground-based aeronautical products and services to the ACI venture, offering unparalleled expertise in this area. Website: www.aci-ltd.com

In association with



IATA aims to promote safe, regular and economical air transport for the benefit of the peoples of the world, to foster air commerce and to provide the means for collaboration among the air transport enterprises. IATA supports ATN2002 as it will improve awareness and understanding of CNS/DO, a concept that should bring sustained benefits from increased efficiency in Air Traffic Services to the aviation community.



SITA is the world's leading provider of global information and telecommunications solutions to the air transport industry. The SITA AFS AIRCOM service enables AFS providers implementing DataLink applications to connect them to the AIRCOM DataLink network, offering access to aircraft. The majority of the world's AFS providers using AFS Data Link have connected their application systems to SITA. SITA's AIRCOM service is continually upgraded to ensure compliance with performance requirements defined by the RTCA and EUROCAE. The target for an AFS provider is for their DataLink applications and the network under which they operate to comply with ICAO AFS SARP. SITA participates in many industry initiatives to support ATN development. Having demonstrated already that the Satellite AIRCOM network complies with AFS requirements, SITA is now upgrading the VHF AIRCOM network to provide VDL Mode 2 service. SITA is committed to providing the AIRCOM customer airlines with the ATN services they will need to access the CNS/DO. The IATA is implementing CPDLC for the domestic US airspace as are the AFS providers in Europe participating in the EUROCONTROL Link 2000 programme. For further information please visit www.sita.net

Media partner



Zee's Airport Review is the leading airport business magazine with a dedicated monthly air high fly content section covering all the latest developments within the marketplace. Zee's also publishes the yearbook Zee's Air Traffic Control. This one stop guide contains full details of over 1200 different ATC systems, hardware and software applications, for airports and ATC authorities. In addition Zee's organises the ATC Asia-Pacific conference in Singapore on 10-12th October.

Exhibitors include



In Europe's top 5 space company and an industry world leader, Airbus's activities cover space systems, civil and military Earth observation, communications and ground systems, satellite navigation, launch vehicles and orbital infrastructure. The company is expanding to play a major role in Galileo, Europe's satellite navigation system, and is actively promoting the use of satellite navigation in Air Traffic Management.



Operational in 167 countries and providing integrated Communication, Navigation and Surveillance solutions for the world's airspace, Pads Air Systems is uniquely positioned to fulfil complete ATC system needs.

Pads Air Systems products include FBE (surface to air radar systems covering voice, VDL-2 and VDL-1), GDSX voice communication control systems, NORMARC landing systems and NOVA approach and airport surveillance systems.



QinetiQ is a world leader in the creation and application of technology and offers an unparalleled mix of skills to implement CNS solutions for civil aviation. Key capabilities include applications, communications technology assessment (e.g. wide-band technologies - GPR, TETRA and GPRS and satellite), secure communications, architecture and network design. QinetiQ, a UK government owned company, has over 8000 staff with a turnover of about £600M.



A world leader in the development and production of advanced communication and aviation electronics for the air transport, regional, business and military markets. The company provides industry-leading avionics and in-flight entertainment systems to aircraft manufacturers and airlines worldwide, as well as avionics and communications systems to a major share of the world's military forces. Raytheon Collins is actively participating in advanced ATN programmes that demonstrate the capability of Data Link systems.



SITA is an international prime provider of ATC DataLink and voice solutions in preparation clearance/legislation clearance (FDC/DC), and ATIS/VOLMET. Recent DataLink FDC/DCI projects are in South Korea, Denmark, Sweden and Hong Kong. SITA also delivers Information Support Systems that increase situation awareness for controllers. Within DataLink VDL Mode 4, they are providing ADS-B ground stations for the NUTTS project.

Pre-Conference Tutorial Monday 23 September

This optional pre-conference tutorial is designed for delegates who are not familiar with the technologies discussed at the main conference. It will bring them up-to-speed on the key issues and provide a grounding on the ATN rationale, principles, technology, and current status.

09:30 Introduction

- The Growth in Air Traffic
- ICAD CNG/ATM
- The Current Communications Environment
- The Future Communications Environment
- The Benefits of Improved Communications

10:00 CNS/ATM Data Link Applications

An overview of the Operational Requirements for the data link based ATIS service as defined by ICAD. In addition to the generic operational requirements applicable to all future data link applications, this session presents requirements specific to:

- Data Link Initiation Capability (DLIC)
 - Automatic Dependent Surveillance (ADS)
 - Controller Pilot Data Link Communications (CPDLC)
 - Digital Flight Information Services (DFIS)
 - Automatic Dependent Surveillance-Broadcast (ADS-B)
- Including a refreshment break at 10:45

12:30 Lunch

13:45 The ICAD ATN

- The ATN Concept
 - Components of the ATN Infrastructure
 - ATN Protocols
 - Candidate Air/Ground Data Links
 - Airborne Architecture
 - ATN Product Families
- Including a refreshment break at 14:45

15:15 A Primer on Secure Communications

- Threats and Countermeasures
- Encryption and Authentication
- Key Management
- ATN Security Mechanisms

15:45 Refreshment break

16:00 The ICAD VHF Digital Link

- Aeronautical VHF Band
- Current Services in VHF band
- VHF Data Communications
- VDL Modes 1, 2, 3 and 4

17:00 Close

Institution of Electrical Engineers (IEE)
Savoy Place London WC2R 0EX
September 23 to 25 2002

ATN2002 The ATC Data Link Conference

This is where
the **Global ATC
Data Link
Community**

meets

2002 KEY TOPICS

Current Status of ATC Data Link Deployment

What was the impact of September 11 on data link? How is the FAA Build 2 and 3A Program progressing? What benefits will airlines derive from ATC data link? Get the answers to these questions and more ...

FANS 1/A Operations

New reports on FANS 1/A Operations today and the conclusions of the technical working group investigating how 2nd generation FANS 1/A might can be accommodated in the ATN environment being developed for continental airspace.

Data Link Security

With security a major issue, find out about the Security Framework being developed for the ATN, securing ACAS communications, and the use of data link for security.

Choice of Data Link

- Industry is developing VDL Mode 2 for ACAS replacement
- IATA is developing VDL Mode 3 for voice/data communications
- VDL Mode 4 is being developed in Europe

Enhance your understanding of a complex area with papers from expert speakers representing industry and regulators. A panel discussion will debate the way forward.

Technology Developments

Learn more about several current developments including 3P and ATN integration, Broadband A/C communications, cockpit systems integration, developments in satellite communications and the future of ATN standardisation.

www.atnconference.com

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