



Delivering powerful, real time operational data



## Your Challenge

Aircraft operations generate large and ever expanding volumes of ACARS and ground handling data. In many cases this is not effectively utilised and the relevant data can be difficult to identify, extract, interpret and action. However, contained within this data is a vast array of valuable and time sensitive information - information that can provide the means to ensure the management of aircraft operation is at the peak of efficiency. The challenge is to effectively orchestrate data streams, then identify, extract and interpret what's relevant to deliver actionable information.

## The Archimedes Advantage

**Archimedes** captures, analyses and presents valuable, real time data in a clear, precise and flexible format. The **Archimedes AirBoard™** provides a visual display and alarm system allowing rapid operator interpretation.

**Archimedes** delivers swift message decoding via the **Archimedes AirServer™** - a powerful, real time decoder.

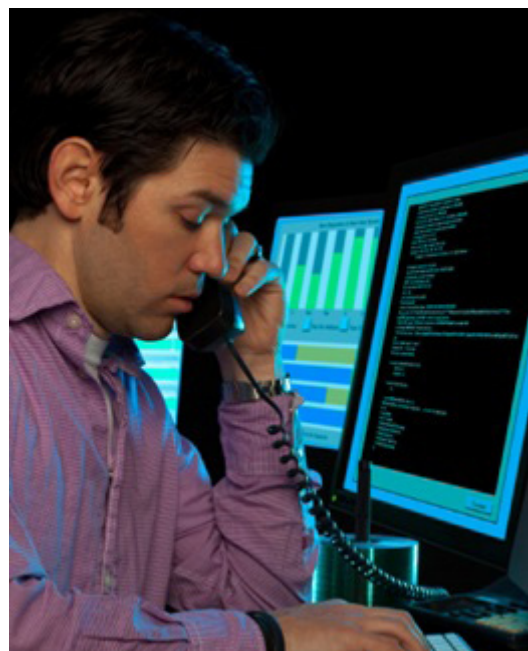
**Archimedes** provides the platform for efficient information distribution. Get the right message to the right people at the right time. For example, a single message from an aircraft can be distributed by Archimedes simultaneously to multiple destinations and formats such as telex, email and SMS.

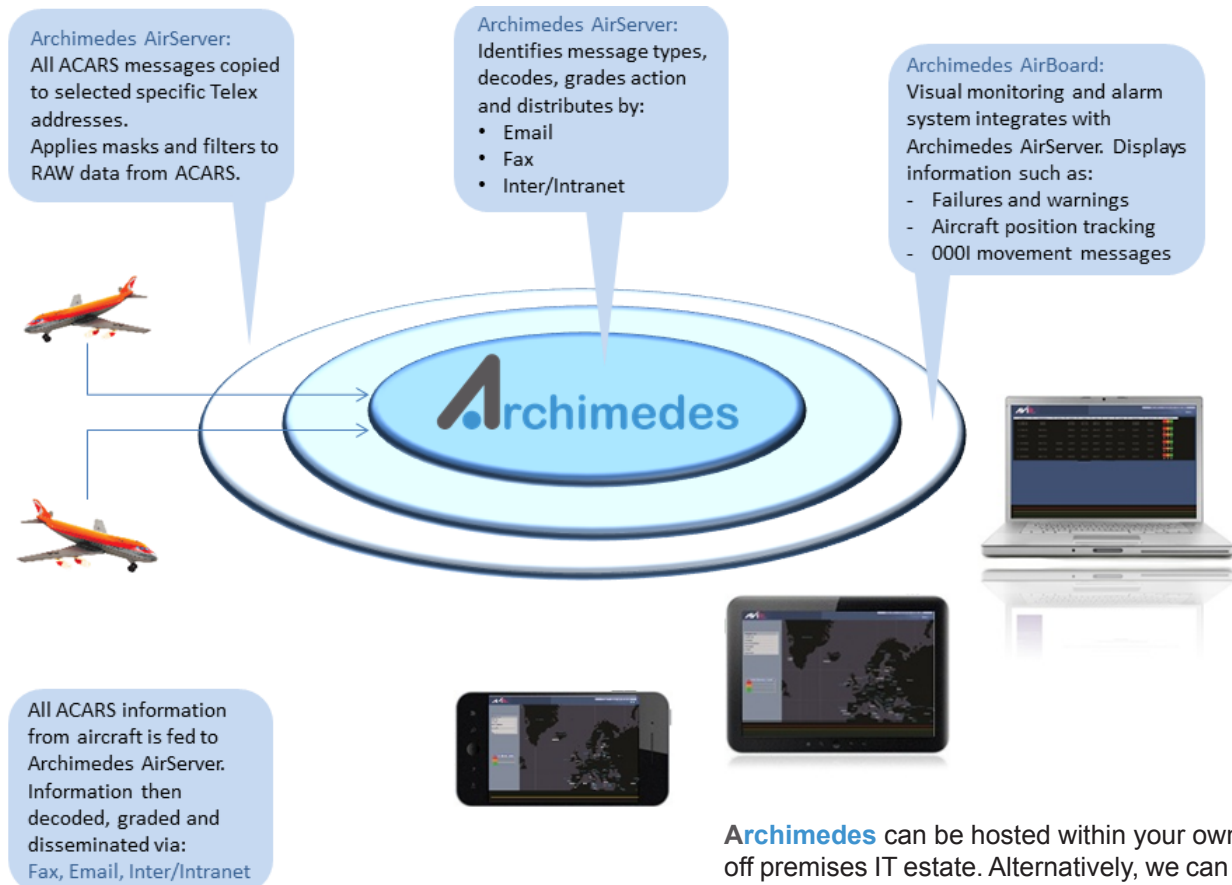
**Archimedes** greatly simplifies the integration and management of ACARS and ground handling data streams.

**Archimedes'** use of data uplink allows ground staff to query the aircraft and crew without the need for voice-based communications, minimising flight crew workload.

**Archimedes** utilises real time and historical data to highlight performance trends. This visual representation of such data makes it easier for engineers to identify trends that could lead to failure conditions.

**Archimedes** orchestrates the capture, analysis and presentation of aircraft status and fault monitoring information, with alerts where appropriate, which can lead to improved aircraft safety, extended operational life, enhanced productivity and tangible operational cost reductions.





**Archimedes** can be hosted within your own on/off premises IT estate. Alternatively, we can host your **Archimedes** system within one of our own high performance data centres in Europe and the USA.

## Archimedes Benefits

- ✓ Increase Operational Safety – Focuses on highlighting key Real-time data to maintenance & Engineering personnel
- ✓ Reduces Human Error – Automates data capture, analysis and makes it easy to identify, understand and action ACARS messages for departments such as Ground Operations and Maintenance Control
- ✓ Extended Maintenance Intervals – By using precise data such as flight/block timings, maintenance schedules can be optimised
- ✓ Simplifies Information Presentation – Monitors 100% of operational ACARS messages and presents important information on a range of display options in simple, concise and readable format
- ✓ Gets Right Information to Right People – provides a powerful means of ensuring relevant information is distributed in timely manner to the right recipients.

- ✓ Automates Monitoring & Tracking – Provides real time Monitoring and tracking of status and fault messages with configurable alarm and alert notification for airline fleets and aircraft ACARS data
- ✓ Highlights Trends – Provides a view of trending within data as well as absolute values, helps to predict a shift towards conditions requiring corrective intervention
- ✓ Improves Information Access and Communication - Enable Distribution of ACARS information via eMail, SMS and internet/intranet portals
- ✓ Integrates Seamlessly with Existing IT Infrastructure – Utilises standards based COTS technology providing easy integration and helping to future proof your information systems
- ✓ Provides Quantifiable ROI - Delivers productivity enhancements and operational cost reductions that are measurable and directly impact P&L.



Archimedes is a product of AviIT, a specialist software and services provider that is focused on improving productivity and reducing costs associated with business process and information problems in the Aviation Sector. Delivering innovative, cost effective solutions that utilize the latest technologies, we enable clients to optimise the management, control and delivery of business critical information. Our approach means that clients can quickly achieve quantifiable business value and long term benefits while protecting existing infrastructure investments.

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