Ar-Com

Ar-Com
ACARS ground solution system

Ar-Com is a product of B. Rekencentra NV

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# The ultimate air/ground communication server

The concept

As a revolutionary concept in air/ground communication, Ar-Com is a fully open and customizable ACARS messaging system. Messages can be recognized, interpreted, reformatted and routed to other subsystems for further processing.
The user or administrator decides how the information should be extracted and manipulated, and how it should be presented to the user.
The 'no-experience-needed' administration tool offers full control over the configuration of the system.
Ar-Com is designed to support air carriers of any capacity; even small carriers can benefit from the impact of Ar-Com, at an affordable price.

Architecture

The component based architecture of Ar-Com allows quick configuration and implementation enabling communication with different network service providers.
System settings, configuration data and messages are stored in a relational database.
Ar-Com is independent of different avionics capabilities (Honeywell, Rockwell Collins etc.) or aircraft type and can easily handle avionics updates.

Air to ground, ground to air, ground to ground

Ar-Com provides ground-to-air, air-to-ground and ground-to-ground data communication from anywhere in the world!
Using a web-browser, you can securely run an entire ACARS messaging system, using the Intranet or worldwide-secured Internet tunnels.

AES
SATCOM
VHF
HFDL
GES
Arinc Sita
Datalink Server
Ar-Com Server
Ar-Com Workstations
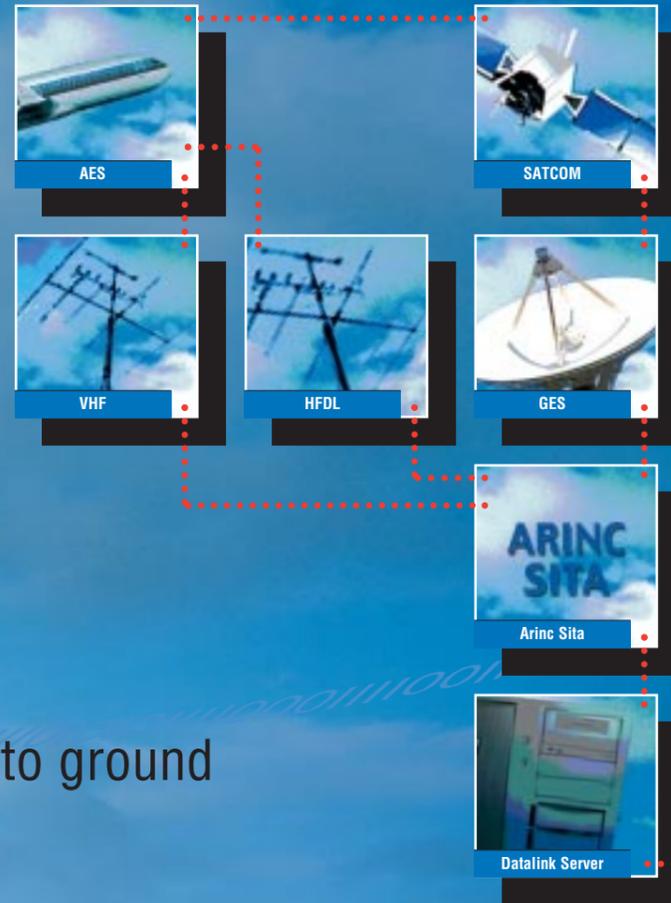
Message recognition and interpretation

- Priority based message recognition
- Recognition and interpretation based on relative or absolute character position, identifiers (sequences + position)
- Interpretation supports repeating groups
- Formula support and translation
- Implementation of recognition and interpretation rules needs no programming knowledge.
- Visual control of message recognition and interpretation rules with live examples.
- Assembly of multi-part messages.
- Message decryption
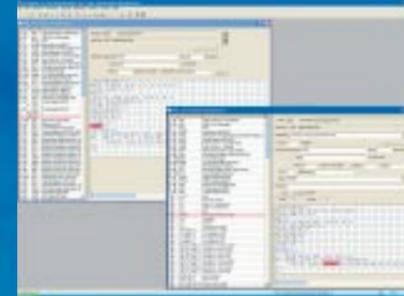
Message transmission

- Password protected, controlled uplink rights
- Uplink messages can be formatted in structured templates.
- Free and form-based parameter entry
- Automatic CRC calculation (when needed)
- Automatic message sequence generation
- Transmission with high, normal or low priority
- Uplink delivery confirmation (Message assurance)
- Message transmission with limited lifetime
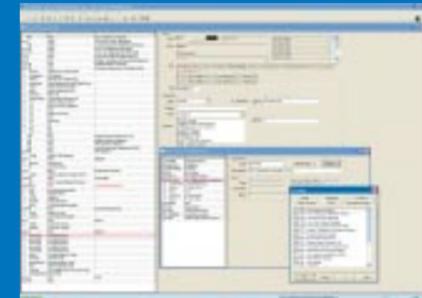
Routing

This is easily the most powerful feature of Ar-Com.
Since it is impossible to foresee every conceivable messaging endpoint, we have implemented a message routing facility that is capable of distributing messages through e-mail, a 3rd party message processor, databases, FTP file transfer, MQSeries, Type-B etc.
This can be easily integrated into your IT infrastructure.
Thanks to this powerful architecture, our customers can update ground applications with OOOI (Out-Off-On-In) delay and ETA data, they can auto respond to weather and flight plan requests, feed aircraft plotting systems, generate trend data, alert supervisors by e-mail, send aircraft to aircraft data, re-format and distribute messages.
The routing editor integrated in ArComAdm (Ar-Com's administration tool) is a full featured VBScript editor which provides the user with ultimate freedom.

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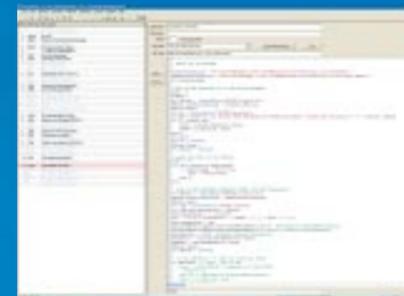
More than just a mailbox

More than just a mailbox
In addition to the mailbox functionality, we provide
a whole range of standard and optional tools for
data processing, extraction and reporting.

- File extraction
- General statistics
- Engine trend monitoring
- Network monitoring
- Aircraft performance monitoring
- Alert reporter
- Security administration
- Auto-responders
- Quality assurance
- Re-processing
- Backup

Multi-user, multi-airline

The advanced Ar-Com security policy allows for each user's
privileges to be fully tailored in the application.
In a multi-airline environment, Ar-Com can fully and securely
separate each airline's data, but still use common
infrastructure and gateway providers.

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Information

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