

GLOBALinkSM Live Text News

ARINC has launched a Live Text News (LTN) product which delivers passengers the latest breaking news and sports, right to their very seat. Headlines, business, sports, entertainment, weather and even the Airline's own news and special offers are sent to the aircraft every hour ensuring that even if you are traveling at 35,000 feet, you are still in touch with the world below.

LTN was developed in conjunction with leading suppliers in the In-Flight Entertainment (IFE) Industry; In-Flight Productions (IFP) responsible for content management, Sky News providing Live News Content, and eFlyte responsible for the aircraft application software and interfacing with the Panasonic IFE system.

LTN was designed with incredible flexibility and intelligence to maximize processes on the ground. Airlines can determine the amount of news stories that are sent to the aircraft to effectively manage their LTN content budget. Graphics and frequently used data are cached within the LTN application onboard the aircraft to ensure that only essential content is transmitted over satellite.

Content Management

News stories are sent to In-Flight Productions via IP in an XML format with a unique story ID. This format is a common industry standard and ensures that LTN is flexible enough to support news stories from most major news providers such as BBC, CNN and Reuters. News stories received at IFP are logged with a time and date stamp and filtered through the data management tool. This wraps the text into the airlines' specific format. This process is also used to filter content and identify stories that the airline specifies as sensitive and should not be distributed to their passengers; e.g., aircraft incidents. On detection the story is automatically removed and an email/SMS alert is sent to the content management group for review. News stories are given a specific Time To Live (TTL), set by the airline, which determines the length of time that a story is displayed on the aircraft. When the TTL expires the story is removed from the LTN application and deleted from the IFE system.

Airline News

Airlines can enter their own breaking news through a secure, designated web portal, allowing them to

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communicate directly to their passengers whilst they are in flight. This provides them with an effective way to promote their services and inform passengers with the latest company news, promotions and special offers. Access to the web portal is password protected and usage is monitored and logged through the individuals' user ID.

Content Delivery

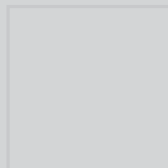
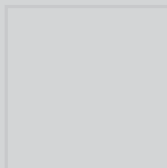
News from multiple providers is consolidated, encrypted and sent securely via IP to the Communications Server within the ARINC Ground Network for onward delivery via satellite. On receipt of the news stories the ground system verifies news is in the correct format, adds compression techniques, which can achieve up to 70% compression and automatically sends the news stories via Inmarsat



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satellite to the IFE system onboard each aircraft. The news service is flexible enough to allow the airline to designate the frequency of the news updates or even determine route specific content for aircraft.

Aircraft Alerts

News transmission to the aircraft is closely monitored and records of each aircraft satellite log on and news delivery are maintained. The ARINC ground server has the intelligence built in to record each time an aircraft logs onto the ARINC satellite network and has received an LTN update. In either of these circumstances an email alert is sent to a user group, which can include airline personnel, at a frequency determined by the airline. This is an incredibly effective way of proactively finding and resolving potential aircraft problems.

LTN Web Portal

The LTN service can be monitored from the ground via a secure web portal. This contains every news story sent to the aircraft within a day, week, month and even year. The news stories are archived after a set period of time and stored in a central database. The portal provides easy access for aircraft monitoring. It is possible to view aircraft logged onto the news service at any given time or track the last time they received a news update.

Upgradeability

As greater bandwidth becomes more readily available through Inmarsat Swift 64 and SwiftBroadband, LTN can be easily upgraded to support content rich news. Successful trials have already been undertaken of live audio transmission and video news bulletins. Once SwiftBroadband is available on aircraft, ARINC will ensure you cannot only read the latest news and sports, you can even see it.

ARINC, a portfolio company of The Carlyle Group, provides communications, engineering and integration solutions for commercial, defense and government customers worldwide. Headquartered in Annapolis, Maryland with regional offices in London and Singapore, ARINC is ISO 9001:2008 certified.

To learn more log onto arinc.com/globalink or email globalink@arinc.com

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Air/Ground Voice Communications

VHF
HF
Inmarsat
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Airport Operations Voice & Data Communications

450 Mhz Business Radio
800 Mhz Business Radio
Gatelink
Airport Remote Radio Access Service (ARRAS)
In-Range VHF

GLOBALink In-Flight Applications

Flight Crew Applications

CrewPass
Cockpit Access Security System

Flight Deck Applications

OpCenter
Digital Automatic Terminal Information Service
Centralized Flight Management Computer Waypoint Reporting System
Centralized Automatic Dependent Surveillance
CNS/ATM Gateway - Communications, Navigation, Surveillance/Air Traffic Management Gateway

Graphic/Text Weather Service

Aircraft Position Applications

Web Aircraft Situation Display
Airline Operations Center Network

Cabin Applications

Onboard Internet
In-Flight Services Portal
Live Text News
Seatback Messaging

GLOBALink Radio Installation & Maintenance

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Integrated Air/Ground & LMR Ground System Implementation