



INTEGRATED AUDIO AND VISUAL SOLUTIONS

airport communication systems



STEP 1 - IN

Please place all metal objects in your carry-on baggage.

SECURITY CHECK POINT

In a few moments we will commence boarding American Airlines flight 1548



DEPARTING TO	FLIGHT	AIRLINE	TIME	GATE	STATUS
Atlanta	DL983	Delta	7:56 PM	A19	On Time
Atlanta	DL1950	Delta	8:25 PM	A08	On Time
Baltimore	WN172	Southwest	8:15 PM	F11	Delayed 8:45 PM
Calgary	AC1992	Canadian	6:20 PM	A18	Boarding All Bins
Charlotte	DL963	Delta	6:20 PM	A09	Delayed 7:30 PM
Chicago MDW	WN604	Southwest	7:50 PM	A05	On Time
Chicago ORD	AA1548	American	6:21 PM	A02	Boarding All Groups
Chicago ORD	UA62	United	8:55 PM	F11	On Time
Chicago ORD	UA155	United	9:21 PM	A07	On Time
Denver	AZ372	Allegiant	8:40 PM	A05	Left Boarding
Denver	UA508	United	5:35 PM	A01	Departed
Denver	UA498	United	8:56 PM	A12	On Time
Detroit	AA1908	American	8:00 PM	F12	FINAL CALL
Dallas DAL	WN701	Southwest	5:55 PM	A20	Departed
Dallas DFW	DL1511	Delta	8:25 PM	A26	On Time

FLIGHT: AA 1548 **TIME:** 6:21 **GATE:** A02

DESTINATION: Chicago O'Hare

Boarding all groups and all rows.

FINAL CALL

Welcome to Chicago O'Hare

ARRIVING FLIGHTS	CLAIM
AA 1548 New York Kennedy	C-5
UA 33 San Francisco	C-1
HA 529 Honolulu, Oahu	A-10

5:14 The Curbside Area is for loading and unloading only...



5:15

DEPARTING TO	FLIGHT	AIRLINE	TIME	GATE	STATUS
Atlanta	DL983	Delta	7:56 PM	A19	On Time
Atlanta	DL190	Delta	5:55 PM	A18	Departed
Atlanta	DL555	Delta	5:55 PM	A18	Boarding All Rems
Atlanta	AC199	Southwest	6:20 PM	A18	On Time
Charlotte	DL983	Delta	6:59 PM	A09	Delayed, 7:20 PM
Charlotte	US1004	US AIR	7:00 PM	A16	On Time
Charlotte	US1124	US AIR	5:10 PM	A01	Departed
Chicago ORD	AA1548	American	6:11 PM	A02	On Time
Chicago ORD	UA1162	United	5:40 PM	A25	Early Boarding
Chicago ORD	UA658	United	6:11 PM	A12	On Time
Chicago ORD	AA1322	American	5:00 PM	A17	Departed
Cincinnati	DL518	Delta	7:55 PM	A25	On Time
Columbus OH	AA635	American	6:58 PM	A02	On Time
Dallas DFW	WN701	Southwest	5:25 PM	A26	CANCELLED
Dallas DFW	DL1151	Delta	7:10 PM	A07	On Time

5:29



5:32

DEPARTING TO	FLIGHT	AIRLINE	TIME	GATE	STATUS
Atlanta	DL983	Delta	7:56 PM	A19	On Time
Atlanta	DL190	Delta	8:25 PM	A04	On Time
Atlanta	DL555	Delta	8:15 PM	A11	Delayed, 8:45 PM
Atlanta	AC199	Southwest	6:20 PM	A18	Boarding
Chicago MDW	DL983	Delta	6:20 PM	A09	Delayed, 7:20 PM
Chicago MDW	WN604	Southwest	7:50 PM	A05	On Time
Chicago ORD	AA1548	American	6:11 PM	A02	Boarding Group 1
Chicago ORD	UA162	United	6:50 PM	A11	On Time
Denver	UA888	United	6:55 PM	A01	On Time
Denver	UA155	United	9:21 PM	A07	Early Boarding
Denver	JZ323	Delta	6:50 PM	A55	On Time
Denver	UA658	United	6:11 PM	A12	On Time
Denver	UA498	United	5:56 PM	A12	On Time
Detroit	AA1904	American	7:55 PM	A15	Boarding All Rems
Dallas DFW	WN701	Southwest	6:25 PM	A20	Departed
Dallas DFW	DL1151	Delta	5:25 PM	A26	On Time

ANNOUNCEMENT CONTROL SYSTEM

Technology

Seventy percent of the nation's busiest airports have chosen IED for a reason.

The 500ACS Announcement Control System® provides an unmatched set of communication tools allowing airport personnel to clearly communicate to passengers in any situation. The industry standard 500ACS® feature-set integrates audio and visual communications in a seamless manner, utilizing standard network infrastructure.

The 500ACS® uses dynamic audio routing technology, which assigns, manages and distributes uncompressed real-time digital audio over a Fast Ethernet network, with technology licensed from Cirrus Logic®. By utilizing standard Ethernet network topology for the transport of multi-channel audio and control data, IED allows facility owners the ability to integrate the 500ACS® into their structured premises cabling system, greatly reducing the cost of previously required conduit and cable systems.

Reliability

The field-proven design of the 500ACS® capitalizes on redundancy and reliability. Everything is supervised and tested – not only control paths, but also the audio

From curbside to boarding we provide clear and concise audio and visual information that makes the airport journey easy and enjoyable. Our vast digital library of professionally recorded announcements in multiple languages has no equal.

Our LAN based technology easily integrates with your existing airport infrastructure.



signal. Audio is tested from the microphone input through the loudspeaker output, with test results provided to any computer subscribing to the fault report service.

Redundant CPU's, hard drives, power supplies, and power amplifiers ensure mission-critical reliability.

Security

In addition to being reliable, the 500ACS® also is secure. Microphone Stations, Telephone Interfaces and Computer Workstations are all protected via user ID and password/PIN. The password hierarchy is user configurable on a simple software interface. Additionally, the 500ACS® software logs all

critical usage information including mic station usage, announcement activity, and equipment faults.

Audio System Products:

500ACS Announcement Control System®

FAS Flight Announcement System®
Assembled flight announcements in multiple languages

T-CAS Text-to-Speech Courtesy Announcement System®
Audio visual interface and database system for courtesy announcements.

ACS External Database Link
Open database interface

VIS Visual Information System
ADA compliant visual paging

Titan Series Digital Distribution Products:

Redundant Power Amplifiers
Automatic Backup Switching

Ambient Analysis System
Automatic volume adjustment in real time

Monitor/Test System
Supervision and diagnostics of all audio points



integrated voice/data

MULTIPLE USER FLIGHT INFORMATION DISPLAY SYSTEM

solutions

5:45



6:00



At this time, customers seated in Group 2 are invited to board. Please have



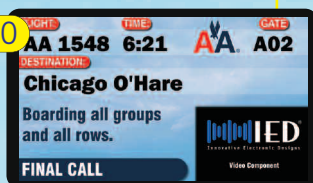
6:02

DEPARTING TO	FLIGHT	AIRLINE	TIME	GATE	STATUS
Atlanta	DL983	Delta	7:56 PM	A19	On Time
Denver	UA990	United	8:55 PM	A04	On Time
Minneapolis	WN112	Northwest	8:15 PM	A21	Delayed, 8:45 PM
Calgary	AC195	Air Canada	6:20 PM	A18	Departing All Rows
Chattanooga	DL925	Delta	6:50 PM	A06	Delayed, 7:22 PM
Chicago MDW	WN654	Northwest	7:50 PM	A06	On Time
Chicago ORD	AA1548	American	6:21 PM	A02	Boarding All Groups
Chicago ORD	UA62	United	8:45 PM	A21	On Time
Chicago ORD	UA152	United	9:21 PM	A02	On Time
Denver	UA322	United	8:50 PM	A03	Early Boarding
Denver	UA509	United	5:55 PM	A01	Departed
Denver	UA876	United	5:50 PM	A12	On Time
Pittsburgh	AA1304	American	9:00 PM	A25	FINAL CALL
Dallas DFW	WN701	Northwest	5:55 PM	A20	Departed
Dallas FTX	DL1181	Delta	5:25 PM	A22	On Time

6:10



6:20



With the current industry trends emphasizing system and product integration, IED significantly enhances the passenger communication process through the integration of audio communications with a robust Multiple User Flight Information Display System (MUFIDS) product.

IED has designed the MUFIDS product from the ground up as a fully comprehensive state-of-the-art system.

This product is scalable and designed to fully support the display and database requirements of airports of various sizes. When integrated with the 500ACS Announcement Control System®, a total communications solution unparalleled in the transportation industry is provided.

Microsoft's .NET development tools were chosen for IED's design and development environment. The combination of Windows Server, SQL Server and .Net 32-bit applications provide the highest performance and reliability available. The software design approach encompasses simplicity, flexibility and performance. A common format (XML) allows for easy integration and communications between all modules of the IED system. It provides a

great deal of flexibility when combined with the selection and filtering of XSL/T.

MUFIDS client provides a simple, yet powerful user interface. It was designed by professionals with more than 30 years of experience in the training and supporting of airline and airport operations. With simple pull down menus, operators easily customize operational screens to complement their particular responsibilities.

The PRIZM System:

PRIZM-Client – the .NET client with a highly secure and feature-rich user interface that provides total control of every element and function of the system.

PRIZM-LINK – the open interface to external hosts.

PRIZM-LIVE – the interface to external WEB sites, allowing users to see live FIDS data from any PC with Internet access.

PRIZM-Present – the module that creates the video display from the database information.

PRIZM-Illustrator – the graphical screen designer system.

PRIZM-Announce – the module that coordinates all the integration functions between our audio and visual systems.

PRIZM-DDC – the software application for dynamic display devices.

IED's integration of audio and visual systems provides the ultimate technology solution for airport passenger and staff communications.



checkpoint ease



SECURITY CHECKPOINT COMMUNICATION SYSTEM



The Realities – All airline passengers and their baggage must be checked thoroughly, resulting in noisy checkpoints with long lines. Also, federal regulations require that airports make periodic checkpoint procedure announcements that passengers must be able to hear and see.

The Challenge – To find a dependable solution for informing passengers at the checkpoint how to prepare their carry-on items to speed-up security inspection.

The Solution – IED’s Security Checkpoint Communication System. This product allows the 500ACS Announcement Control System® to integrate synchronized text messages with visual displays, vertically designed for the security checkpoint process. The detailed graphical displays present specific instructions to the passengers to prepare them for the inspection process. As passengers view the visual displays, the 500ACS Announcement Control System® distributes synchronized voice announcements clearly explaining the instructions for the passengers. Interspersed with the graphical presentation are large font scrolling text messages that reiterate the instructions in a format compliant with ADA regulations.

EXTENDED WARRANTY AND MAINTENANCE PRODUCT

Beginning Fall 2004, IED offers a Comprehensive Extended Warranty and Maintenance product. The core of the product is a fully staffed Help Desk Service which provides on-call support. Packages are available for 24-hour, seven day access. The service provides trained support personnel who have extensive knowledge in all of IED’s hardware and software products. From simple operational questions to complex hardware and software issues, customers can get immediate resolution to their problems. The Help Desk service provides a detailed call resolution process, database tracking, status reports, and escalation process. Additional features include preventive maintenance, on-site visits and software updates via subscription.

World Leader in Audio Communications
 Fully Integrated FIDS
 24 Hour Help Desk Support
 Your complete Airport Communications Provider
 Contact us today

Extended Warranty and Maintenance Products:

- Help Desk
- Pre-Site Inspection
- Extended Hardware and Software Warranty
- Preventive Maintenance and Health Checkups
- Off-site System Back-up Support

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