DISPLAYS.OPERATIONS.REVENUE.

iFIDS

www.ifids.com

Providing class-leading airport management systems and solutions since 2000.

iFIDS is a provider of fully browser-based operational, business and flight information management system solutions that increase airport operational and business efficiency while improving the passenger experience.

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Information Displays

Guide passengers across the airport with real-time updates to flight, check-in, gate, baggage, wayfinding, high-brightness outdoor LED, and touch screen displays

- Support travelers from around the globe with displays in any language

- Help users find their way with kiosk and digital wayfinding screens at key locations

- Provide visual paging to pass on important messages

- Make the most of quiet times with idle page content

- Reach out with hospitality FIDS for hotels or mobile FIDS for taxis and shuttles

Advertising and Multimedia

Quick and easy advertising for any or all screens

- Generate ad revenue and promote airport initiatives

- Impress with full-screen dedicated advertising displays for maximum impact

- Co-locate within FIDS displays for efficient use of resources

- Stream news, entertainment or advertising content to keep passengers engaged

- Manage advertising for all screens from an easy to use web interface
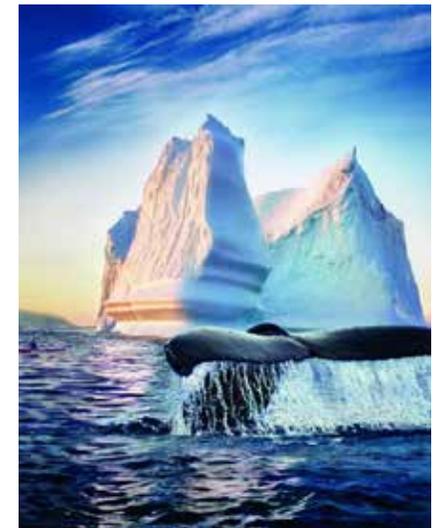
Weather Information

Get the most accurate real-time weather information

- Continuously updated meteorological data for use on flight, gate, check-in, and other kinds of displays

- Content provided by AccuWeather, recognized as the most accurate source of weather forecasts and warnings in the world, and used by more than 180,000 third-party websites

Airport Website Tools

Deliver real-time flight information directly to passengers via simple integration with an airport website

- Cater to all devices and platforms, providing information at the passenger's fingertips

- Allow travelers to access data in their own individually convenient ways, and increase engagement

- Flight data available as a component for easy integration, or as a simple data feed allowing total control of branding and presentation

Flight Status Update Automation

Provide the most comprehensive and accurate real-time flight information

- Skip the hassle of manual flight updates with a fully managed and supported system

- Sit back and relax as screens automatically update with flight status changes

- Leverage timely, accurate and full-coverage data to give passengers the information they need

- Take advantage of data from leading third-party aggregators spanning hundreds of independent sources such as FlightStats, in addition to airline-direct information

Flight	From	Scheduled	Estimated	Gate	Status
3523	Montreal	11:32	12:45	C25	Arrived
3603	Boston	12:38	12:33	B7F	Arrived
656	Calgary	12:44	12:21	B19	Arrived
3525	Montreal	12:47	13:16	A1C	Late
249	Halifax	12:50	12:35	B20	Arrived
428	Edmonton	12:54	12:51	C41	On Time
3409	Quebec	13:15	13:41	C26	Late
700	Vancouver	13:30	13:13	B18	Early
3671	Nashville	13:32	13:37	B7E	Tardy
1207	New York	13:35	13:31	B9	On Time
3216	Thunder Bay	13:48	13:41	A1A	On Time
658	Calgary	13:56	13:41	A2	Early
3469	Ottawa	13:57	13:45	A1B	Early
546	Winnipeg	14:06	13:50	A6	Early
415	St. Johns	14:10	13:58	B17	Early
3419	Moncton	14:16	14:19	A1D	Tardy
704	Vancouver	14:30	14:19	A5	Early
273	Halifax	14:40	14:49	C25	Tardy
3527	Montreal	14:44	14:44		Cancelled
3467	Ottawa	14:57	15:05	B22	Tardy
3651	Nashville	15:07	14:51	B7F	Early

Flight Schedule Load Automation

Schedules for virtually every operating scheduled airline in the world are available for automated load

- Plan months in advance with high-quality airline schedule data

- Reduce hassle and overheads with managed, automatic schedule loads

- Work with confidence using data from leading providers of global flight schedules such as OAG and Innovata

| departure	departure	depar	departure	departureTir	departur	departu	arrivalU	subAirc	groupAi	arrivalC
PVR	MX		PVR	15:40:00	15:40:00	-600	-800	737	737	CA
PVR	MX		PVR	15:40:00	15:40:00	-600	-700	737	737	CA
PVR	MX		PVR	14:40:00	14:40:00	-600	-700	737	737	CA
PVR	MX		PVR	15:40:00	15:40:00	-500	-700	737	737	CA
PVR	MX		PVR	17:00:00	17:00:00	-600	-700	73W	737	CA
PVR	MX		PVR	18:00:00	18:00:00	-600	-800	73W	737	CA
SEA	US	WA	SEA	13:20:00	13:20:00	-700	-700	DH4	DH8	CA
SEA	US	WA	SEA	21:25:00	21:25:00	-800	-800	DH4	DH8	CA
SEA	US	WA	SEA	21:25:00	21:25:00	-800	-800	DH4	DH8	CA
SEA	US	WA	SEA	21:25:00	21:25:00	-800	-800	DH4	DH8	CA
SEA	US	WA	SEA	21:25:00	21:25:00	-800	-800	DH4	DH8	CA
SEA	US	WA	SEA	21:25:00	21:25:00	-800	-800	DH4	DH8	CA
SEA	US	WA	SEA	23:20:00	23:20:00	-700	-700	DH4	DH8	CA
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SEA	US	WA	SEA	23:20:00	23:20:00	-700	-700	DH4	DH8	CA
SEA	US	WA	SEA	14:01:00	14:01:00	-800	-800	DH4	DH8	CA
SEA	US	WA	SEA	9:44:00	9:44:00	-800	-800	DH4	DH8	CA
SEA	US	WA	SEA	9:44:00	9:44:00	-800	-800	DH4	DH8	CA
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SEA	US	WA	SEA	21:25:00	21:25:00	-700	-700	DH4	DH8	CA
SEA	US	WA	SEA	21:25:00	21:25:00	-700	-700	DH4	DH8	CA
SEA	US	WA	SEA	21:25:00	21:25:00	-700	-700	DH4	DH8	CA
SEA	US	WA	SEA	21:25:00	21:25:00	-700	-700	DH4	DH8	CA

Asset Scheduling and Conflict Resolution

Skip the guesswork and prevent delays by planning all asset usage in one place

- Manage gate, apron, podium and baggage belt scheduling with easy-to-use graphical plotting

- Prevent problems before they occur with drag-and-drop resource management

- See updates from automated data sources as they occur in real-time
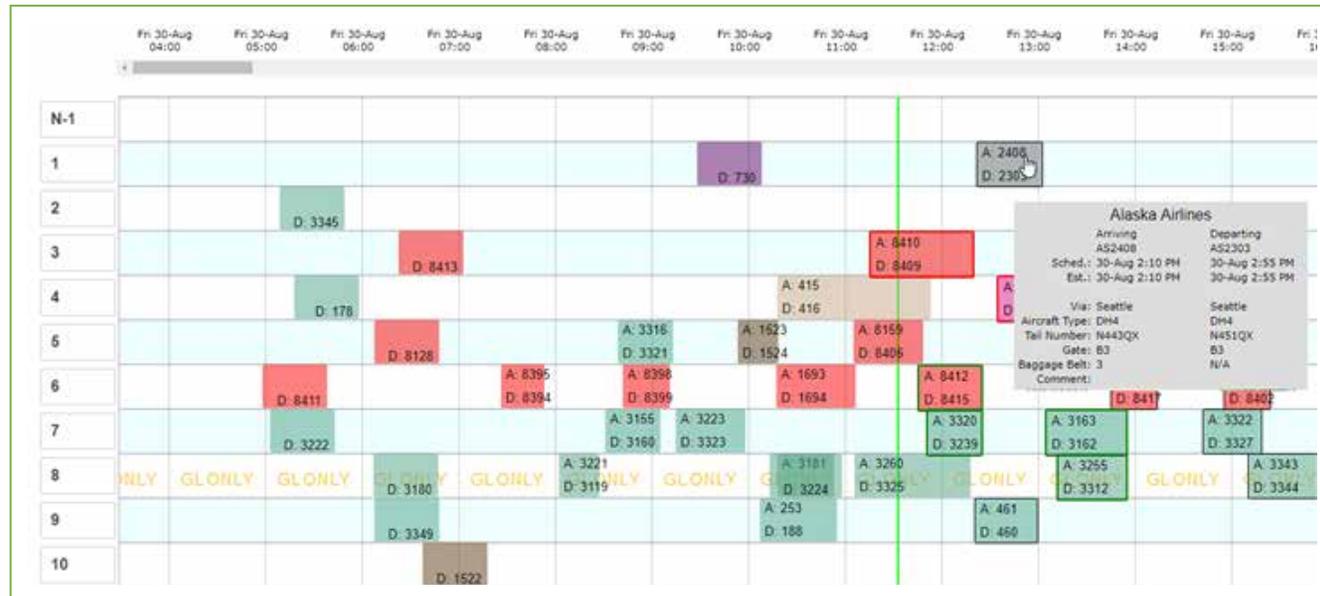
Public Address (PA) System Integration

Share high-importance public address information in real-time

- Automate flight status updates, ad-hoc announcements or ad messages sent from the iFIDS AODB

- Update any or all screens as events occur with messages shared from a PA system

Baggage Belt Assignment

Allow baggage handlers to keep airport screens up-to-date with the latest belt information

- Touch screen input devices enable intuitive belt assignment and first bag / last bag identification

- Rugged, weatherproofed kiosks operate rain, snow or shine

Flight		Origin	Time	ETA	Bags	Status
American Airlines	2412	CHICAGO	11:03	11:03	1	Arrived
American Airlines	1604	MIAMI	11:25	11:25	1	On Time
UNITED	528	PORTLAND	11:33	11:33	3	On Time
American Airlines	2333	MIAMI	12:00	12:00	1	On Time
UNITED	1204	HOUSTON	12:02	12:02	3	On Time
DELTA AIR LINES	2746	COLUMBUS	12:06	12:06	2	On Time
UNITED	1545	HOUSTON	12:20	12:20	3	On Time
American Airlines	2711	DALLAS	13:41	13:41	1	On Time

29-Mar-2019 — ARRIVALS

Check-in Counter Assignment
Make the most of check-in counters with flexible digital signage

- Change logos with the click of a button

- Suitable for both shared and dedicated check-in counters

- Support all different logo types, including priority, bag-drop, customer assistance and more

- Automate logo swapping on shared counters by tying display to real-time flight data

Enterprise User Interface

Take control of display and asset management with any device and any browser

- Update displays with the click of a button

- Automate allocation of gates, check-ins, baggage belts, and more

- Keep on top of potential problems with email notifications

- Audit flight activity with easy-to-use reporting

- Tailor integration of automated feed data to airport needs

- Manage access with fine-grained user, group, and permission management

- Designed to meet IT and operational needs of medium or large airports
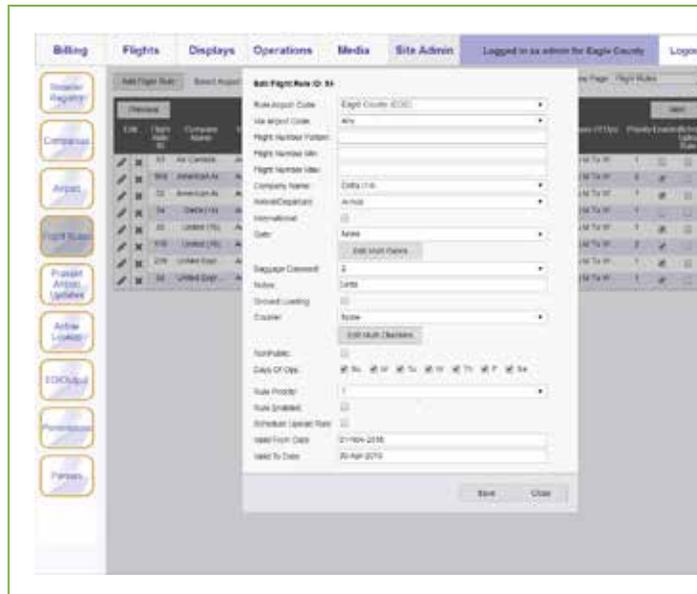
Aircraft Landing and Parking Fees Billing

An industry leader

- Save time with automated import of landings data

- Verify ownership with automated aircraft registration searches

- Streamline billing with automated application of landing, terminal, bridge, apron & parking fees

- Recognize and handle duplicate landings before they're invoiced

- Complete control of miscellaneous charges and credit notes

Tower Aircraft Movement System (TAM) Files

TXT   DBF

Lease / Space / Concession Revenue Management

Simple and effective

- Keep on top of lease expiry and renewal with email notifications

- Manage concession percentages and gross monthly revenues

- Audit trail and site-specific reporting built into the system

- Save time with contract management features and accounting system integration

Simple Turn-Key Deployment

Low-overhead and speedy implementation:

- Zero maintenance, pre-configured display controllers make screen deployment a snap
- Effortless data setup with automated flight status updates and asset pre-allocation
- Simple and free integration with an airport website
- Full provision of all software, screen layouts, graphics, and customizations
- Deployment support from start to finish, and beyond

Cloud Hosted

Eliminate IT overhead and maintenance responsibilities with a proven cloud hosted solution:

- Reliable, certified, and state-of-the-art tier-2 hosting center
- Lower the cost of ownership with a robust and fault-tolerant managed solution
- Keep informed with proactive alarm systems for monitoring system health
- Stay up to date with ongoing software system updates and improvements
- Increase passenger satisfaction and minimize management effort with automatic flight status updates

Browser Based

Manage all your displays from any device with any browser:

- Make changes on the go with any computer, mobile device or smartphone
- 100% browser based interfaces
- Zero-footprint end-user solution with no software to install on client devices
- Allow concurrent access to multiple users across multiple sites
- Keep control with fine-grained permissions and security levels

Configurable and Scalable

Seamlessly integrate and plan for growth:

- Integrate any source of flight information to deliver comprehensive coverage
- Seamlessly blend with existing airport infrastructure
- Customize screen displays, timings, and statuses to taste
- Effortlessly scale the system up and down as needs change
- Respond to last minute change with easy manual overrides of flight data feeds

First Class Support

Service is our greatest strength:

- Worry-free 24/7 support and 99.9%+ up-time
- Receive assistance from experienced and friendly phone-based customer support
- Robust and proactive host and client process monitoring
- Keep up to date with online, on-demand training
- 20 years of know-how providing class-leading airport management systems

Airport Revenue Management

Powerful and easy-to-use tools for all airport-specific invoicing needs:

- Automate billing of aircraft landing fees, leases, concessions and more with ease
- Complete integration with client accounting systems including management of deferred and earned revenues
- Generate and email detailed, customized, and attractive invoices
- Manage multiple airports or companies from a single cloud hosted, browser based interface
- Dozens of reports to assist with audit control and operations/forecasting

iFIDS is a true browser-based solution, allowing users to access the system with any computer, mobile device or smartphone. The application can be installed on a web-server on your network or can be provisioned as a turn-key cloud-hosted service. Because there is nothing to install on individual user computers more individuals will have access to the system and end-user IT maintenance considerations are virtually removed.

iFIDS maintains a certified tier-2 hosting center with 100% redundancy across the server, network, communication and power layers.

- Redundant internet communication via two separate and isolated ISPs

- Cisco routers with active dual WAN ports and firewalls, communicating via two separate ISPs

- Warm-spare Cisco routers with duplicated configurations

- Redundant HP switches with active link aggregation to accommodate server NIC or network cable failure

- Redundant enterprise-class servers with multiple aggregated NICs, dual power supplies and fault-tolerant RAID disk arrays

- Short term power outage or brown-out accommodation via UPS array

- Long term power outage accommodation via diesel generator backup

- Daily customer data backups to Network Attached Storage (NAS)

- Offsite backups via cloned external removal hard disk drives

- Professional IT management services

iFIDS USERS   iFIDS DISPLAYS

Cloud or LAN

IIS Web Servers

MS SQL Server(s)
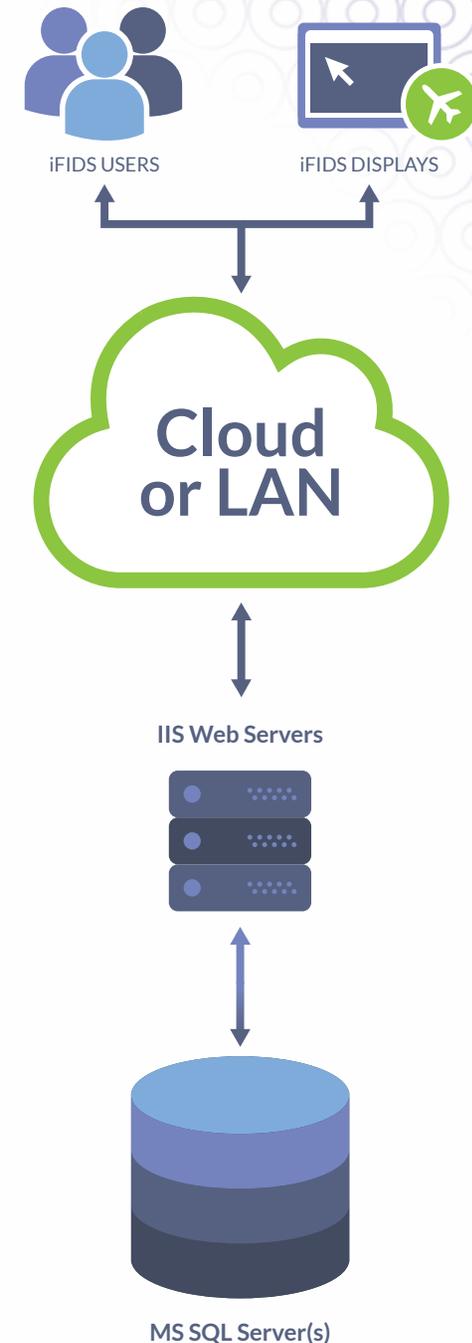
The **iFIDS** Airport Operational Database (AODB) is a central repository of flight information, and a clearinghouse for integration and dissemination of multiple streams of data. In addition, it accommodates configurable business rules for transforming data or triggering event-based change.

Automatic updates to flight information and ancillary data are integrated from multiple real-time and scheduled sources. Manual override of automated flight feed information is supported via well-developed browser based interfaces, but typically required only for last minute operational changes such as late stage gate reassignment. Interfaces allowing manipulation of flight data elements include flight editors, graphical plotting utilities for asset allocation, and check-in counter logo selectors. Other manual inputs include customizations changing the look and feel of flight displays, modification of advertising content or playlists, and configuration of business rules.

iFIDS' AODB context sensitive business rules act on streams of input data as they are integrated. Criteria for rule application can include combinations of carrier, flight number, flight type, day, time, gate, origin, destination and more. As rules are applied they modify elements of flight information or associated settings, with the potential to transform streams of output data. Examples of typical rules include the following:

- Allocation of gates, check-ins, baggage belts and other assets

- Arrival / departure flight linking

- Screen lead and lag times adjustment

- Customized rules based on variable or complex criteria

Output data is disseminated to public flight information screens, operation screens, websites, and user interfaces via a cloud based solution. This delivery method in conjunction with browser based front ends ensures that the system is accessible anywhere and from any device. In addition to outputs intended for screen display, standardized XML feeds are available to enable seamless integration with existing infrastructure. Historical reporting is supported via exports from archive data for easy analysis.

Airline direct feeds
3rd party aggregator data
Schedule data
Weather data
PA system data
Codeshare data
Miscellaneous feed data
Manual user inputs

iFIDS AODB

(Business Rules)

FIDS screens
GIDS screens
BIDS screens
Check-in screens
Wayfinding screens
Operations screens
Advertising screens
Airport website
Mobile devices
XML outputs
PA system data
Reports
User interfaces

External Display Controller

iFIDS recommended external display controller is the Minix Microsoft Windows mini-PC. The Minix has no moving parts and uses semiconductor storage rather than conventional hard disk technology, giving very high access speeds and increased reliability while remaining economical. Desktop experience is delivered in a fraction of the size and weight, allowing for easy attachment to the back of displays, or integration in other areas with limited space. The technology is being used at dozens of airports with great success and confidence.

- Fully configured, complete system with no setup or installation required

- 100% solid state components guarantee longer product life and greater reliability

- Smart thermal design allowing incredibly low operating temperatures

- Seamless, fanless design without a whisper of noise

- Super detailed, crystal-clear 4K imagery

- 3ft HDMI cable included

Internal Display Controller

Many internal Windows controller options can be bundled with screens for a clean and unobtrusive solution, including NEC OPS products.

- Easy and modular installation
- Simple and cable-free usage
- Integrated, clean and complete deployments

Audio Out
Audio In
Display Port
Ethernet
USB
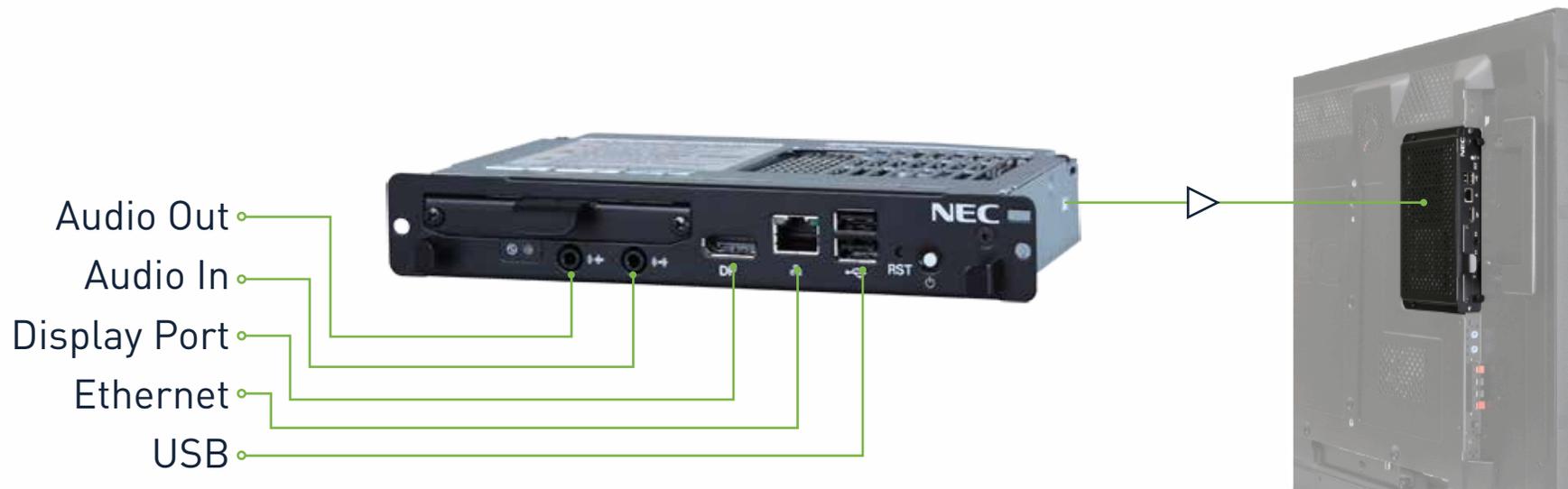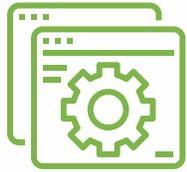
Software Client

iFIDS' software client comes pre-loaded on each display controller, and retrieves relevant display data in addition to reporting operating status to the cloud hosted monitoring system. While display controllers are typically external or internal PCs connected directly to a display, the software client can be installed on a server hosted VM for network distribution of video as well. Rugged and robust in the face of any network interruption, the software client continues to display pertinent flight information while reaching out to multiple servers across multiple routes in the background as connectivity is restored.

- Extremely tolerant of network interruptions

- Automatic restart subsequent to power interruption

- Proactive alarm systems for real-time email notification of events

- Complementary watchdog service for monitoring and restart of hung processes

- Efficient use of bandwidth

- Small system footprint
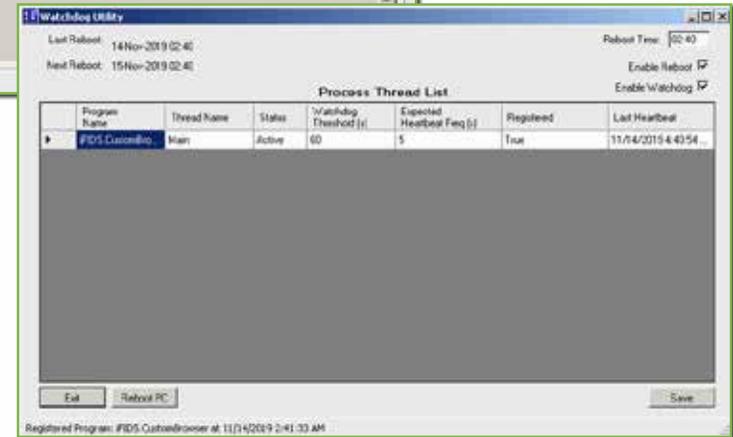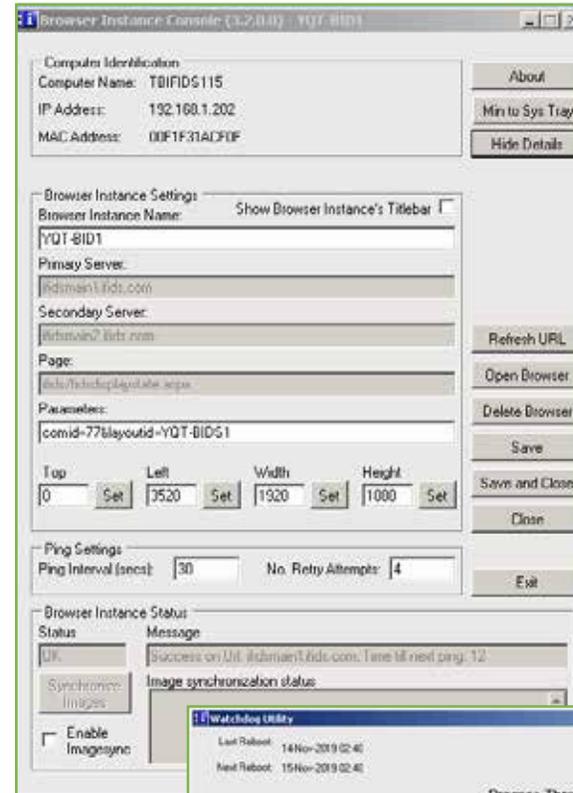
Software

From the cloud to your screen, our hosted Software as a Service (SaaS) is a comprehensive, robust and fault-tolerant digital signage system. iFIDS uses state of the art platforms and development tools to ensure the highest degree of function, implementation, and ongoing development in all of our software. Primary technologies employed include Microsoft SQL Server, Visual Studio, ASP. NET, IIS, and COM+.

- Proven cloud based delivery successful at 80+ hosted customers

- 100% browser based front-ends, accessible anywhere from any device

- Compact and efficient display controller software client for communicating with host servers

- Centralized health monitoring and email notification system

Solution

Everything required for management and display of flight information is included in the solution. Allow the burden of ongoing maintenance, monitoring and security to be shouldered by professional management services that know FIDS best.

- Training available year round

- Continuously updated online documentation and manuals

- Free system update services

- Simple turn-key deployment

- Elimination of IT overhead and maintenance responsibilities

- Top-notch 24/7 support

- Experienced consultation services

Company

Providing class-leading airport management systems and solutions since 2000. iFIDS is a provider of fully browser based operational, business and flight information management system solutions that increase airport operational and business efficiency while improving the passenger experience.

Feature Rich Solutions

iFIDS is a provider of operational, business and flight information management system solutions for the airport industry with a specific focus on delivery of cloud hosted system solutions via a cost effective SaaS subscription model. iFIDS offers tools that increase airport operational and business efficiency while improving the passenger experience.

Diversified

iFIDS is a wholly owned subsidiary of Aviation InterTec Services Inc., an industry leading Canadian aviation product development company with hundreds of customers worldwide. AIS provides its employees with an expanding and challenging environment with a worldwide scope of operations, while offering shareholders the opportunity to participate in a new and high growth economic activity.

Experienced

iFIDS has been providing airport industry software solutions since 2000 in North America, the Caribbean and beyond.

Exceptional Service

Service is our greatest strength! We offer top-notch 24/7 support and maintain 99.9%+ up-time.

Preferred Vendors

Microsoft

WESTJET

CIRIUM

MINIX

AccuWeather

Some Valued Clients

Testimonial

" *The team at iFIDS has been and continues to be resourceful, respectful and diligent in providing a fantastic product at a very reasonable expense. iFIDS has been quick to react to the Duluth Airport's changing needs in graphics and ability to provide accurate data to the operations department during weather events. iFIDS recently completed a mobile device upgrade for the operations team here that has proven vital during snow removal operations. The working relationship between the Duluth Airport and iFIDS is strong. I recommend taking a very strong look at iFIDS and the capabilities they can bring to your organization.*

Blaine A Peterson, C.M.

Operations Director

Duluth International Airport

iFIDS

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