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The Enterprise Data Bus

- Strategy -
A look at Data Flow in the Airline Industry
Components

External Systems

Internal Local Systems

Data Repositories

Internal Remote Systems
Internal (Local) Systems

- Flight Operations
- Maintenance
- Reservations
- Accounting
- Baggage
- Training
- Scheduling
- Marketing
- Revenue Management
- Yield management
- Executive Dashboard
- Human Resources

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Internal (Remote) Systems

- Aircraft
- Airports (Back Office)
- Airports (Check-In/Gates)
- Self-Service
External Systems

- Aircraft Vendors (Boeing)
- CDN/US Border Security
- Airports (FIDS)
- Airports (Baggage Systems)
- Global Distribution Systems

- Credit Card Authorizations
- Banks
- Engine Maintenance Vendors
Managed

Aircraft

Operations

Scheduling

Reservations

Self-Service

Maintenance

Enterprise Data Bus

Airport (FIDS)

Airport (Baggage)

Other Airlines

Accounting

Revenue/Yield Management

Boeing

GDS

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Enterprise Data Bus

Components
- Messaging Layer
- Data Transformation Layer
- Integration Layer

Functionality
- Messaging Layer
- Data Transformation Layer
- Integration Layer

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Real World Example

Data Transformation to TypeB Message Format and routing to Airport Network

Airport Baggage Sortation System

Airline Check-In System

Bag Message – XML Format

RFID Baggage tracking

Routing to Airline System

Insert into Database Table

Airport Baggage Tracking System

Airline Baggage Mgmt System

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Advantages

• Centralized integration Methodology
• Applications buffered from data transformation issues
• Facilitates tracking of data movement and change
Discussion – Questions?

See the next in our series on the Enterprise Data Bus – Part 2 - Layers