

WBAT

A WEB BASED APPLICATION TOOL

For
Safety Programs

WBAT Project

- A collaboration between individual Airlines/ Operators and UTRS, Inc.
 - Airline/Operator provides aviation operations and safety expertise.
 - UTRS provides information technology and data analysis expertise.

WBAT Project

- Partnership is funded by FAA to assist Airlines/ Operators in maximizing the effectiveness of their ASAP and Safety Programs.
- This in turn promotes safety.

WBAT Project

- NO Cost to Airlines
- The WBAT Project provides Airlines/ Operators with the computer resources necessary to successfully facilitate an ASAP program, Internal reporting and Safety Assurance

Becoming a WBAT Participant

*To become a WBAT Participant the Carrier/
Operator must

have at least one accepted MOU

OR

be part of an SMS program.

WBAT Function

- An open source, secure, web-based software system
- It supports ***submission, management*** and ***analysis*** of both ASAP/ Safety Incident and Safety Assurance Reports.
- System incorporates all employee groups:
Pilot: Maintenance: Dispatch: Cabin Crew:
Ground Crew

WBAT Hosting Options

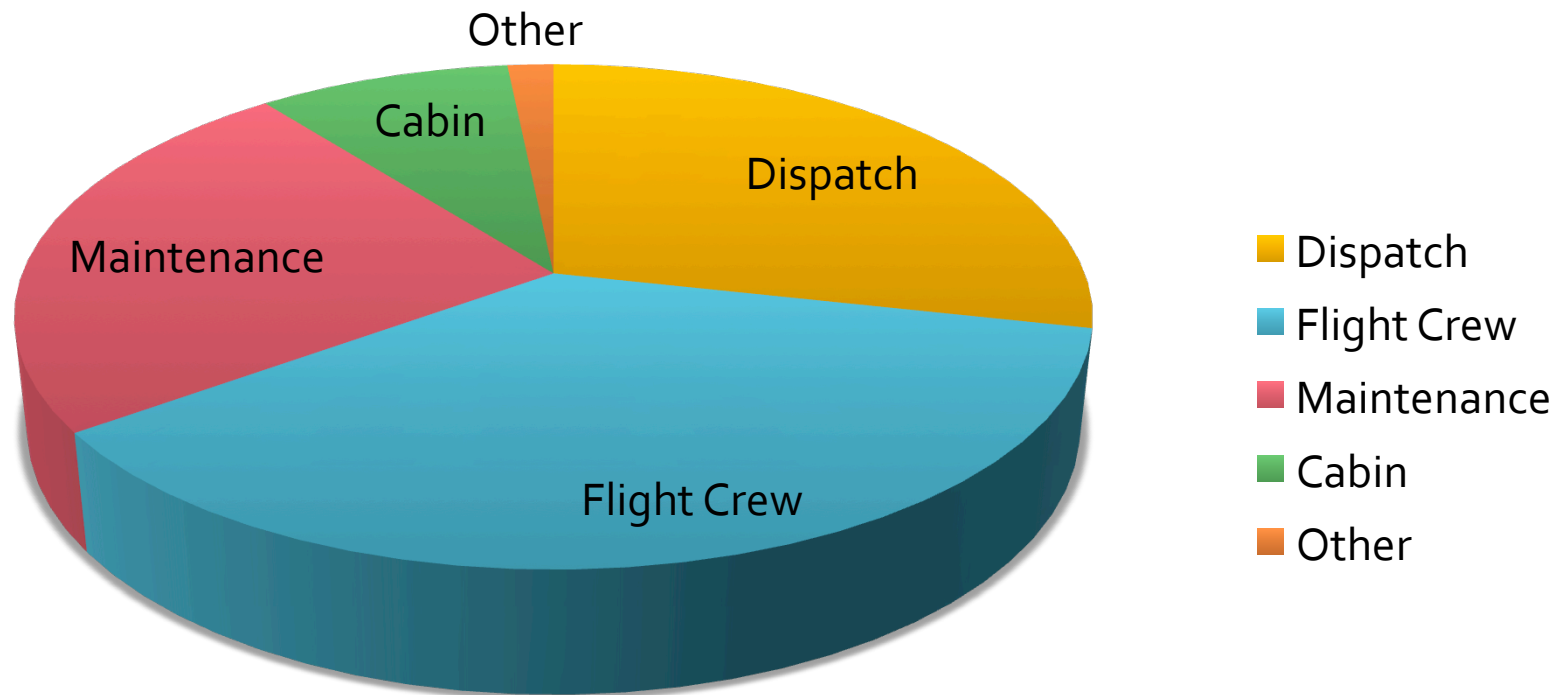
- UTRS hosts system – upgrades/system maintenance/backups/tech support are all provided by UTRS.
- Host system at carrier: Your IT department becomes responsible.
- Move to carrier at a later time
Operator will keep servers as long as they are running an ASAP program

WBAT – Where we are today

- WBAT started with the 121 Air Carrier Pilot ASAP Program in May 2005 with 1 initial carrier, and by the end of 2005 there were 6 carriers on board.
- Today, it has grown to include 121,135/91(k) operators, Helicopter EMS and spans across multiple employee groups.
- Current WBAT users are in excess of 65 carrier/operators.

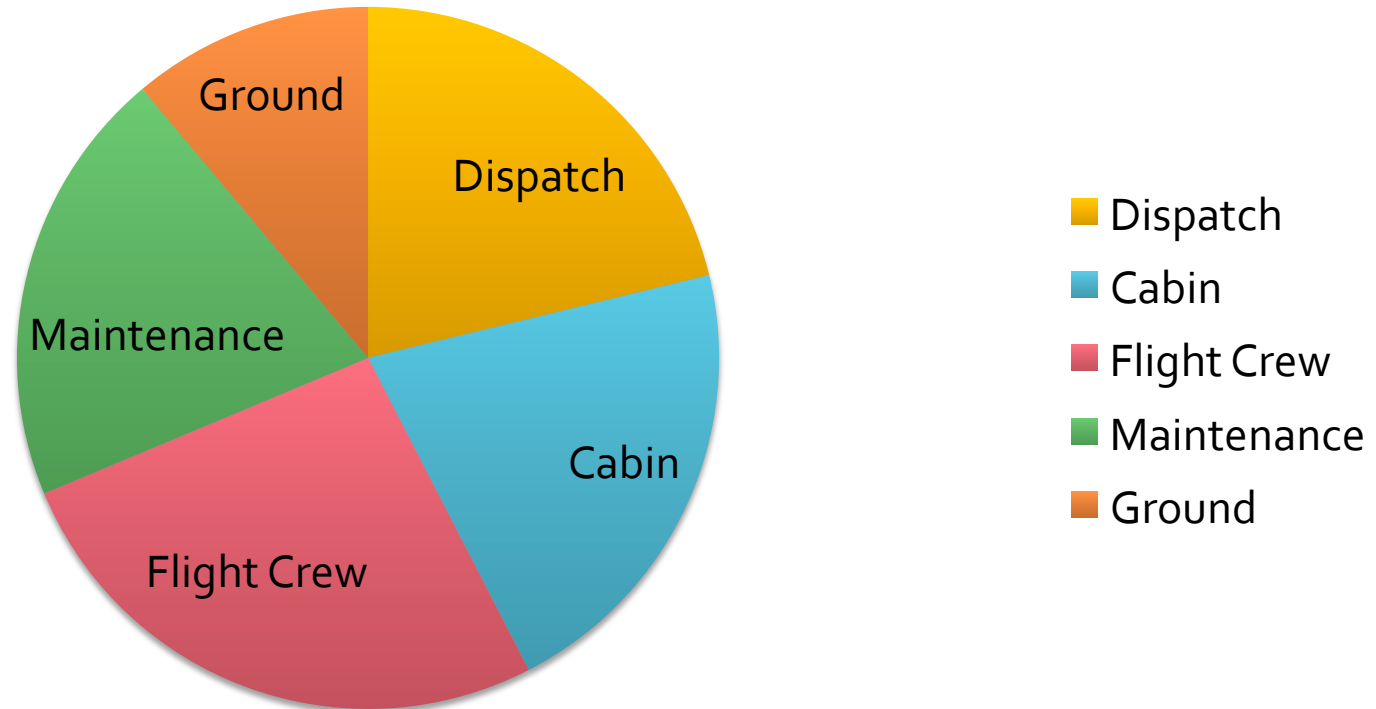
WBAT for ASAP by Employee Group

WBAT USERS for ASAP



WBAT for Incident Reporting by Employee Group

WBAT Incident Users



WBAT Enhancements

- System is being extended to include support for additional Voluntary Safety Programs:

Safety Management System

- Internal Evaluation Program
- Audits/Investigations/
Evaluations and Risk Mitigation
Plans

WBAT Operation

- Users need only a browser
- Access to system is strictly controlled by Username and Password
- Username, Password and all data are encrypted when transferred from a browser to the web server and vice versa.

DATA Confidentiality

- Data stored in WBAT remains the property of each Operator.
- UTRS has entered into a non-disclosure agreement with each of the WBAT carriers that prevent it from sharing any of its data.

Data Sharing

System design supports data sharing

- WBAT supports NASA ASRS submission and participation in ASIAs from an ASAP/Incident report: Carriers would sign an addendum to the NDA for ASRS and/or ASIAs Participation.
- Use of WBAT does not require Operators to share data.

WBAT Capabilities

Collecting Resourceful Data:

- Existing taxonomy covers five employee groups. {Flight Crew, Maintenance, Dispatch, Cabin, Ground}
- Taxonomy can be modified and each Operator's submission forms can be customized.
- Link reports from an employee group with like data (2 Crew members reporting on the same event).

Cont'd

- Understanding your “DATA”: by tracking, trending, queries and analysis.
- Improving Safety – Safety Plans, Corrective Actions, ERC tools and Risk assessment.
- Information Distribution – Messaging, Tracking and Read Only Users (ex: ERC Members)
- Managing Actions – Corrective Actions and messages have features that allow for assignment, follow up and tracking of actions.

WBAT Process - Safety

- Collect information about an event
- Identify events by risk, frequency, type
- Identify the causal factors
- Propose a corrective action
- Determine if corrective action was effective
- Monitor recurrence of the issue.

SMS Defined in WBAT

WBAT's approach to Safety Management System is to add software modules incrementally and bring it to SMS.

SMS in WBAT

ASAP/
Incident
Reporting

Safety
Assurance/
IEP

SMS

Safety Assurance

This feature was designed with guidance from AC 120-92 and Carrier Participation.

Incorporates 4 Report Types:

- Audits
- Investigations
- Evaluations
- Risk Mitigation Plans

***EACH REPORT TYPE HAS ITS OWN Q&A FEATURE!**

SAFETY ASSURANCE

- The Safety Assurance portal provides the resources for a Company's Safety Management Functions such as Audits, Investigations, Evaluations, RMP's and Safety Plans.

Audits/Evaluations/Investigations

1. The audit features use text fields to describe
 - Background Information
 - Objective and Scope
 - Auditor Comments
2. Corrective Actions are assigned to each finding and can detail:
 - Immediate or Comprehensive Corrective Action
 - Department or Individual Assigned to
 - Date Assigned/Due

SMS Risk Matrix

The SMS Risk Matrix is supported in WBAT.
It is utilized for risk analysis for all report types including Audits, Evaluations and Investigations

SMS Risk Matrix

AC 120-92

FIGURE 4. SAFETY RISK MATRIX

Severity Likelihood			Higher Lower		
↑					
More Less					
↓					

The diagram is a 5x5 grid representing a Safety Risk Matrix. The vertical axis is labeled 'Severity' and 'Likelihood', with an upward arrow indicating 'More' and a downward arrow indicating 'Less'. The horizontal axis is labeled 'Higher' and 'Lower', with a rightward arrow indicating 'Higher' and a leftward arrow indicating 'Lower'. The grid is color-coded: green for 'Acceptable', yellow for 'Acceptable with Mitigation', and red for 'Unacceptable'. The text 'Acceptable' is written diagonally in the bottom-left area, 'Acceptable with Mitigation' is written diagonally in the middle area, and 'Unacceptable' is written diagonally in the top-right area.

Assigning Risk

Risk Factor is determined by:

Likelihood and Severity

Frequent

Occasional

Remote

Improbable

Extremely Improbable

Catastrophic

Hazardous

Major

Minor

Negligible

RESULT:

Unacceptable/Acceptable with Mitigation/
Acceptable

WBAT Participants Role

- Participants are the key to WBAT Development
 - Small workgroups set up to discuss taxonomy
 - 2 Workshops a year where WBAT Participants openly discuss changes to WBAT to meet the industries needs. (AFS-230 representation)
 - The WBAT team will then develop new features and enhancements.

SMS Enhancements:

- Support a SMS specific Taxonomy
- Development of SMS is dependant on Feedback from the Industry.
- WBAT is a *fluid* system and always evolving.
- Industry Input, Regulatory Guidance (AC 120-92) etc. will define the WBAT system

Our next Workshop

WBAT WORKSHOP 7

OCTOBER 28/29

SAN FRANCISCO
MARRIOTT FISHERMAN'S WARF