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aviation analytics

On-Time-Performance & Delay Impact Management

No two delays are exactly the same. In some cases, a delay is acceptable or even desirable under specific conditions. It's not only the number of minutes which turns a late arrival into a relevant delay. Rather, the real impact on the organizations' schedule as well as implicated fuel consumptions, crew rotation etc. should be considered.

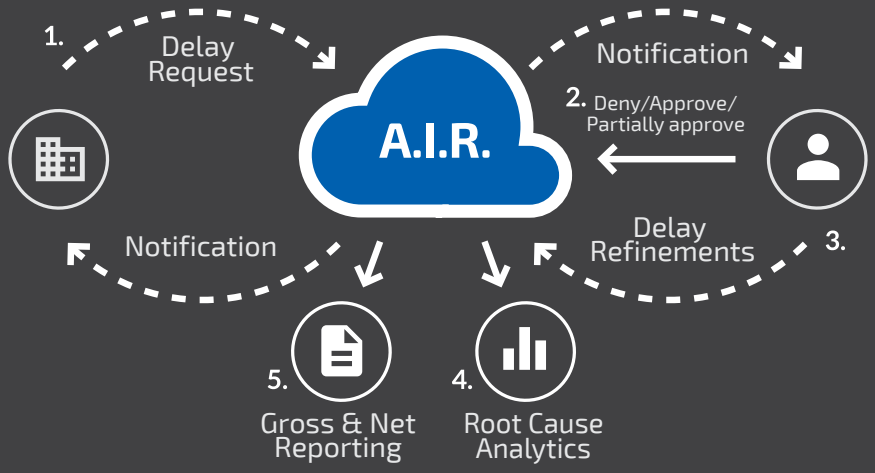
What if your aircraft is ten hours delayed, but all your cargo arrives at its final destination on time? Conversely, who is liable if a 10-minute delay, defined as being On-Time, causes 30% of the PAX to miss their connecting flights? Will you measure a station's tardiness by total sum of delayed minutes, or do you differentiate between net and gross delays, taking into consideration reactionaries or root causes? How does your organization learn from historic events, and how are the analytics results used?

avialytics' On-Time-Performance / Delay Impact Management (OTP-DIM) solution allows operators to predict and control these and other aviation-scheduling situations that may arise. It visualizes the impact of a potential delay and aids economic decisions regarding additional fuel costs and/or the acceptance of a delay to serve a greater good.

Benefits:

- Offers best-practices scheduling and delay management
- Enables conscious and proactive delay decisions
- Saves time and resources
- Offers better visibility around recurring issues
- Allows root cause analytics and follow up
- Simplifies the controllers' reaction process
- Decision support through data mining capabilities

On-Time-Performance & Delay Impact Management

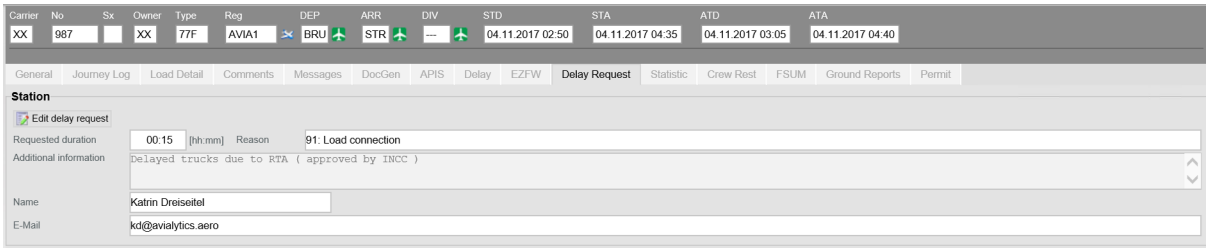


avialytics' InfoBOX gives your airline the possibility to manage planned and unplanned delays and defines handling in OTP reporting. Furthermore, data gathered about the reasons of delays (ground handling, technical issues, weather) help to understand and improve your operations. The avialytics' OTP-solution does not just consider single flight events for reporting and analysis. It enables a complete current and historic view on the airline operations.

How it Works

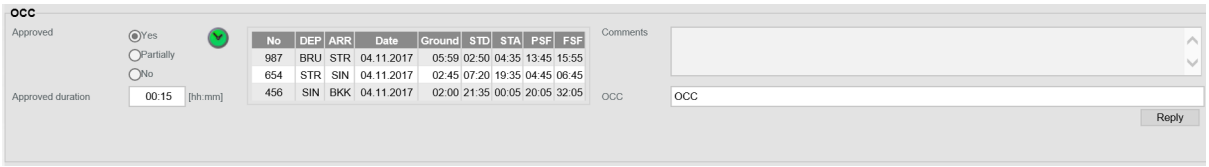
1. Delay Request from Network Station

- Request to delay a flight for a certain amount of time due to a specific reason
- Automatic operator notification of the request



2. Delay Request Handling

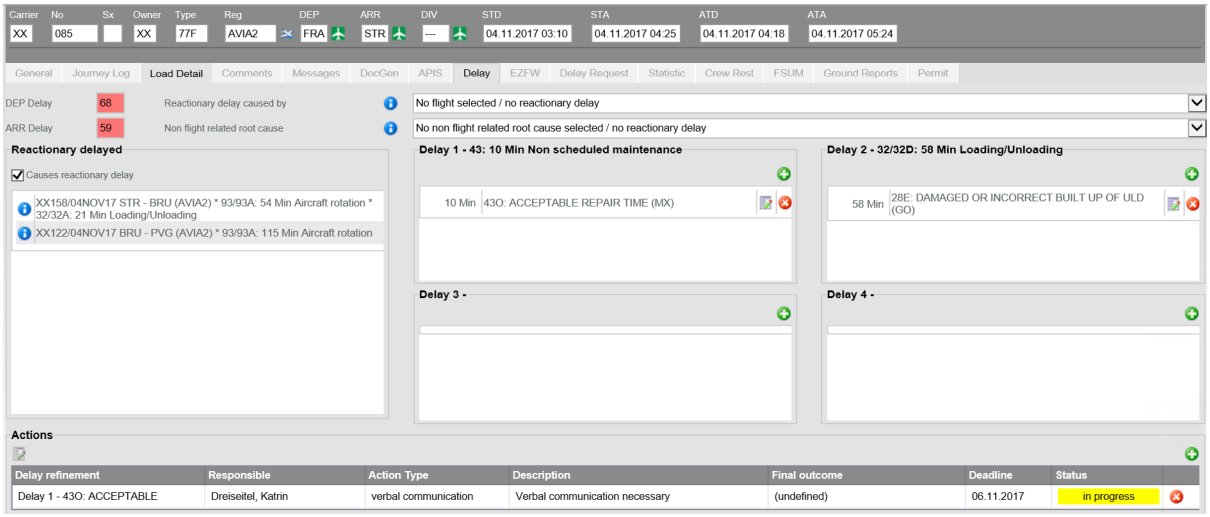
- Approve, reject and adjust delay requests based on real-time dependency information
- Management of actions necessary in case of a delay
- E-mail notifications are automatically generated
- The delay request status is displayed in the InfoBOX flight overview



3. Delay Refinement

Standard delay-information framework will be enhanced with details like:

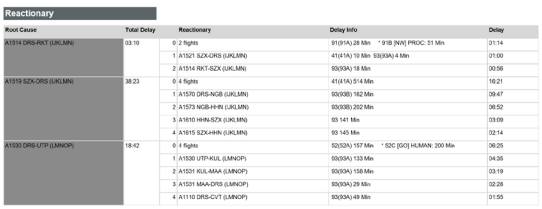
1) Which flight caused a reactionary delay on an individual flight
2) Which flights will be affected by the delay of the actual flight
3) Refinement of the delay causes and assignment of responsibilities
4) Creation of follow-up actions



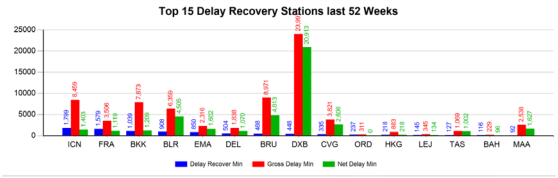
** This is an independent process wherein the operator inputs/queries A.I.R. and examines data. The station has no involvement with or visibility into the refinement.*

4. Root Cause Analytics & Learning Opportunities

- Flight and non-flight related root causes can be assigned to delays, along with the durations thereof.
- Gross and net delay times are calculated along with recovery efforts based on minimum turnaround times to identify real performance and critical paths.
- Recovery & Best Practice Workflow can be initiated and assigned to a specific person in the organization to track progress and ensure lessons learned.



List of occurred root cause delays and reactionary affected flights.



OTP reporting suite

5. A.I.R. Data Distribution to Gross and Net Reporting Tools

Benchmark functions include:

Flight Statistics

- Define and prioritize specific information about how a flight is considered.
- Each flight can be excluded from OTP or included as not delayed (= cleared). Cancellation(s) can also be set with reason as well as Full and Partial Service Failures (FSF/PSF).

OTP Reporting

- Review the list of delays occurring within a given week, as well as the reasons, duration, and PSF-/FSF-/AdHoc-flags of each event.
- Service Failure Events & Flight Changes
- Delayed flights will be grouped by category and listed alongside their service failure threshold, reason, and ancillary comment information.

Decision Support

- Data mining algorithms to identify and cluster delay causes and context.

Request Project Estimate

For more information or to request a project estimate contact us at:

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Evolving aviation data into actionable insights. *avialytics* is focused exclusively on the information value chain relevant for airlines, providing solutions for all steps along the way.

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- Airline Safety Analytics
- Airline Performance and Operational Management
- Airline Apps