

Flight Management System (FMS) Datalink Service

Operational flight plans are typically produced several hours prior to departure using wind and temperature data available at the time. Updating the FMS with the most current wind and temperature data throughout the flight allows the FMS to recommend optimal step climbs, top of descent point, and descent trajectory, resulting in fuel savings for the operator.

Honeywell's FMS Datalink Service provides the information the FMS needs to perform as efficiently as possible, allowing operators to realize fuel savings using the FMS presently in use on air transport aircraft.



Honeywell's FMS Datalink Service allows the flight crew to quickly and efficiently uplink the flight plan and latest wind and temperature information to the FMS via datalink. The service saves time over manual entry, reduces the risk of data entry errors, and assures the FMS has the most up-to-date information to ensure optimized flight level recommendations.

Pre-flight Planning

Four hours prior to departure:

- Flight plan is created with currently available weather forecast and planned takeoff weight.
- Airline operations sends flight plan to the Honeywell Global Data Center (GDC).

Pre-departure

30 minutes prior to departure:

- Crew receives the final flight briefing package and enters actual takeoff weight into the FMS.
- Crew requests the flight plan uplink from the Honeywell GDC.
- Crew requests updated wind/temperatures from the Honeywell GDC.



During the cruise phase of flight, Honeywell's FMS Datalink Service continuously monitors for updated weather information and notifies the crew if it is available. As the largest OEM of air transport flight management systems, Honeywell has the expertise to assure the right data is provided to the FMS, resulting in optimal performance.

Flight crews can request updated wind and temperature information at anytime if a re-routing occurs. This assures the FMS has the most up-to-date information available to re-plan recommended flight levels if the flight plan changes after departure.

Enroute

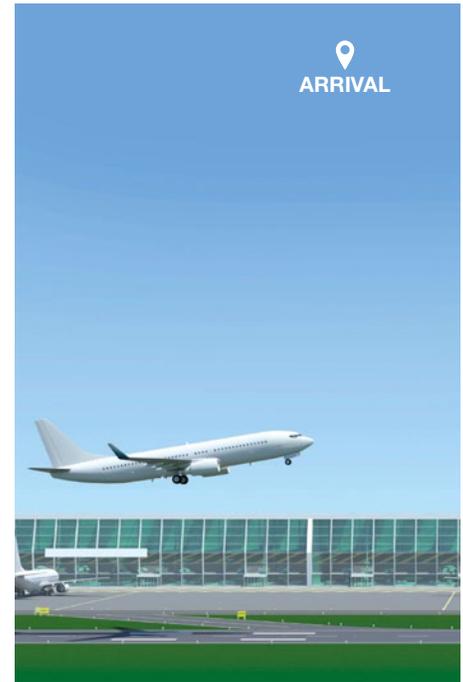
- Crew notified when updated wind/temperature data is available.
- Crew can request updated wind/temperature data at anytime.
- If a rerouting occurs, crew can request updated wind/temperature information for an updated flight plan.
- Step climbs re-calculated using actual takeoff weight and the latest wind/temperature data, resulting in optimized recommendations to the flight crew.

To learn more about Honeywell's FMS Datalink Service, please contact your Honeywell sales representative or call +1 (800) 601 3099 or +1 (602) 365 3099.

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Automatically uplinking winds prior to arrival assures an optimum descent profile, and allows the flight crew to focus on other tasks during this critical phase of flight.

Arrival

60 minutes prior to arrival:

- Wind/temperature data can be automatically uplinked.
- The FMS loads the most up-to-date wind data for descent winds and calculation of descent trajectory.

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