

Flight time calculations methods

It is possible to select the flight time calculation method when creating a request ('Flight time' option in the 'NEW QUOTE' option) or by selecting the **CALCULATE FLIGHT TIME** option in the quote edit section.

There are **following methods** of flight time calculations available:

1. **Flight time calculations from Aviapages**
2. **Flight time calculations from RouteFinder**
3. **Flight time calculations from Avinode**
4. **Flight time calculations based on Historical Flights**
5. **Flight time calculations based on Aircraft Performance Model**
6. **Flight time calculations based on Historical Quotes**

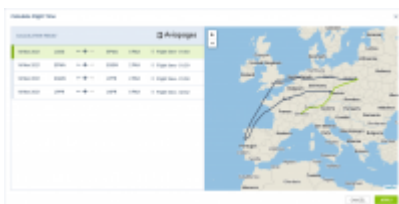
Flight time calculations from Aviapages

It is possible to download the flight time calculations from Aviapages in the 'Requests/Quotes' section.

Flight time calculations from Aviapages **include factors** such as the aircraft type, weather, distance amongst others.

In order to use this functionality, integration with 'Aviapages' needs to be activated in the Settings > 'Add-Ons' section. For the integration token contact yuri.dzun@aviapages.com or nastya.pocatilova@aviapages.com from Aviapages. Once you have the token, go to the 'Configuration' tab in the 'Aviapages' integration, switch status to 'ON', insert the key and save.

How it works



'Calculate Flight Time' pop-up window



Itinerary before (top) and after (bottom) the recalculation

After the integration is activated, **CALCULATE FLIGHT TIME** button will appear in the request edit section. This button **is not available on subcharter flights**.

Clicking on **CALCULATE FLIGHT TIME** button will open a pop-up '**Calculate Flight Time**' window with

the flight times calculated by 'Aviapages'.

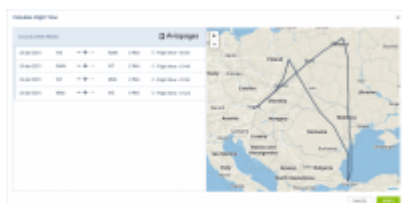
Additionally, the map of the routing will be available within the same pop-up window. Clicking on a flight within the 'Calculate Flight Time' window will highlight this selected flight on the map.

Clicking on **APPLY** button will apply updated times into the itinerary as per below:

- Positioning legs (before and after the requested schedule) - both arrival and departure can be updated since it depends on the rotation time
- Request added based on the Departure - arrival time will be updated
- Request added based on the Arrival - departure time will be updated
- Block time is automatically recalculated

Once the 'Aviapages' flight times are implemented, they automatically update the quotation amounts according to new flight times.

Exclusion zones



Flight times calculated based on the exclusion zones

It is also possible to indicate the **exclusion zones** - countries over which the aircraft should not be flying.

Once the exclusion zones are selected, the **flight time calculations in Aviapages** ('Calculate Flight Time' option) will take these zones into consideration. See the screenshot on the right-hand side.

The exclusion zones can be indicated in **3 sections** in Leon:

- **Client profile** - 'Exclusion zones' box in 'PERSON' column. Simply start to insert the country name and select it from the dropdown list

Exclusion zones

Ukraine Romania Bulgaria

- **Fleet** - 'Exclusion zones' box in the 'SALES' tab of the aircraft edition

Exclusion zones

Albania Ukraine

- **General Settings** - 'Exclusion zones' subsection in the 'Sales' tab in 'General Settings'. Click on the 'Add country to exclude' button to select the next country

Exclusion zones

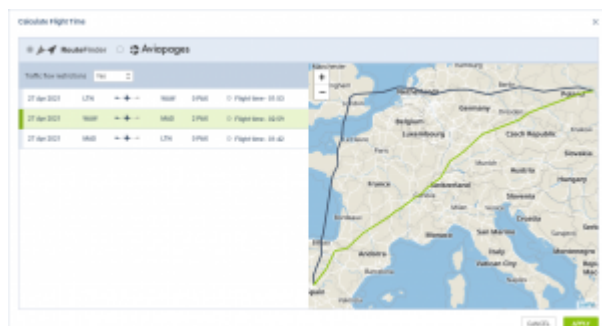
Ukraine (UKR)

Kazakhstan (KAZ)

Moldova (MDA)

Add country to exclude

Flight time calculations from RouteFinder



Flight time calculations from RouteFinder

RouteFinder flight times calculations option is available, like the 'Aviapages' option, under **CALCULATE FLIGHT TIME** button.

'RouteFinder' does not require separate integrations and is available by default to every Sales Panel user.

The flight time is calculated automatically when selecting the 'RouteFinder' option.

It is possible to calculate based on **Traffic flow restrictions**. If the **Traffic flow restrictions** parameter is set to **'Yes'**, 'RouteFinder' will search for the route that will validate in the 'Eurocontrol', taking into consideration such limitations as no-fly zones, etc.

'RouteFinder' also takes into consideration 'Exclusion zones' that can be set per Operator, Client, and Fleet.

If an **aircraft type is not available** in the 'RouteFinder', the **'Aircraft type is not supported'** message will appear.

Once the 'RouteFinder' flight times are applied to the itinerary, the prices within the quote will recalculate automatically.

'RouteFinder' flight time calculations are not available to subcharter aircraft.

Flight time calculations from Avinode

Hovering the mouse over the calculated flight time value will display the information on the number of the flights used and the value of deviation in the following format:

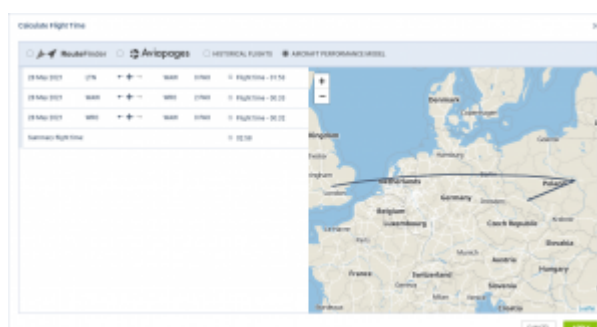
Based on X flights, +-hh:mm, i.e. Based on 5 flights, +-00:06

If Leon is unable to calculate the flight time, **Data not available** information will display.

Once the flight times are applied to the itinerary, the prices within the quote will recalculate automatically.

Fight time calculations based on the Historical flights are not available to subcharter aircraft.

Flight time calculations based on Aircraft Performance Model



'Aircraft Performance Model' calculations

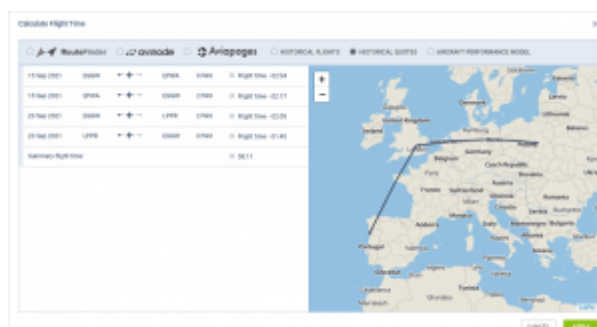
Aircraft performance model option is available under **CALCULATE FLIGHT TIME** button.

'Aircraft performance model' method is based on the aircraft speed profiles set up in the Fleet > aircraft performance section.

This option can be used to compare three other methods of calculating flight time available in Leon.

It can also be used if the flight times have been amended by editing the itinerary or by using another method and have to be reverted to the original timeframes.

Flight time calculations based on Historical Quotes



'Historical Quotes' model

Historical Quotes option is available under **CALCULATE FLIGHT TIME** button.

This model of calculations takes into consideration the following:

- only flights within own quotes
- last quote on the same aircraft and route as in the calculated quote
- all statuses apart from 'NEW' and 'REJECTED'

If the flight is with PAX, Leon searches for the flights with the same number of PAX. If Leon is unable to find it, then the flight time is taken from the flight on the same route but with a different number of PAX.

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