

# FW & JL

In this section you can add **Flight Watch** and **Journey Log** data. Inserted post-flight data to Journey Log allows to generate various kinds of reports in Leon (Crew, OPS, Sales, etc...).

**Flight Watch and Journey Log can only be added to the confirmed flights. Flight Watch is not available for the Simulator flights.**

## Flight Watch

GLE1 G-LEON 23:00z EPWA - EGOV 01:20z

**FW** JL

**CHECKLIST**

**FLIGHT**

**TRIP**

**CREW**

**PAX**

**FUEL**

**FW & JL**

**ADFT**

CTOT  Z ETD  Z

BLOFF  Z T/O  Z

EET  Z ETA  Z

LDG  Z BLON  Z

Pax  DIV

Cargo  kg Delay

Notes

PAX - late arrival

SEND MVT

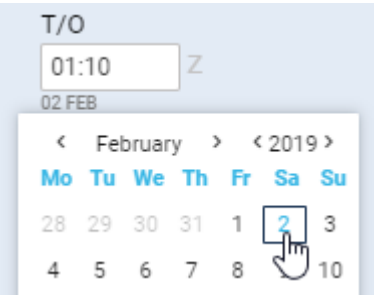
Flight Watch data entrance panel

By clicking on FW & JL column Leon opens the tab in the right-hand side filter. If there is no Journey Log added Leon opens FW tab. If there is a Journey Log added (even if it is partly filled in) Leon opens JL tab.

FW contains several fields where you can input details such as:

- **CTOT** - calculated takeoff time - if it is the only detail added to FW in Flights List Leon shows **S**.
- **ETD** - estimated time of departure - if added to FW Leon shows **D**.
- **BLOFF** - block off time - if added to FW Leon shows **A**.
- **T/O** - take off time - if added to FW Leon shows **A**.
- **EET** - estimated endroute time (T/O + EET should equal ETA. i.e. T/O 12:00, EET 02h30m, so ETA should be 14:30). The value is diaplyed in the format:HHhMMm, i.e. 12h15m.
- **ETA** - estimated time of arrival.
- **LDG** - landing - if added to FW Leon shows **+**.
- **BLON** - block on time - if added to FW Leon shows **+**.
- **Pax** - number of passengers.
- **DIV** - diversion - insert the code of the airport to which the flight was diverted.
- **Cargo** - cargo weight.
- **Delay** - delay code and the delay time can be inserted (the format: code/delay i.e. 14/0010 where 0010 means 00:10 minutes) - if added to FW Leon shows **D**.

- **Notes** - add notes which can be read by OPS or crew.



Date input in the Flight Watch

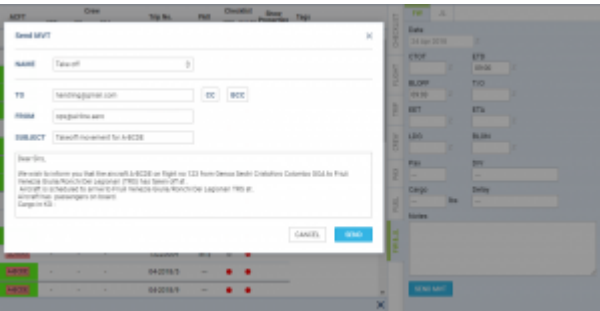
**Date** of the time input can be selected for each individual box apart from EET. As soon as you click inside the applicable box Leon will display the date underneath the box in the “ddMMM” format. If there is a need to **change** the date, simply click on the date displayed below the box and choose the new date from the calendar.

At the bottom of the panel Leon will show information “**Last modified by**” showing Eurocontrol or SITA and UTC time of the change. For manual changes Leon will show user's name/surname and UTC time of the change.

**Details such as BLOFF, T/O, LDG and BLON can be copied to Journey Log by clicking**

**COPY DATA FROM FW** in the tab JL

### Manual MVT Messages



Manual sending of MVT messages

It is possible to send MVT messages **manually** using selected movement rule as the template source.

To send MVT message manually you have to follow the below steps:

1. Fill in FW and save it.
2. Click on 'SEND MVT' button to populate a 'Send MVT' pop-up window where you can select Movement rule as the template source. This is a template assigned as an 'MVT rule' in a section Settings > MVT Messages to an aircraft you're sending the MVT for.
3. Once you chose a template the system prepopulates message and recipients according to selected 'MVT rule'. You can now customize every part of final message and recipients.
4. If everything is ready, press 'SEND'.

**If there are no 'MVT rules' assigned to an**

aircraft in Settings > MVT Messages' section, the template source in step 2 will not populate any choice.

## Importing MVT Messages

**Movement messages** can be imported to Leon if they are being sent to email address [mvt@leon.aero](mailto:mvt@leon.aero) and if they are in one of the below formats:

- SITA format message
- SATCOM format message

### SITA format

## Departure message format

**MVT**  
**ABC123/03.ACREG.STN**  
**AD1200/1300 EA1600 AMS**  
**DL01/0101**  
**PX100**  
**SI ...**

Example of SITA departure message is showed in the screen.

The data included is as follow:

- **ABC123/03** - flight number and day of the month
- **ACREG** - aircraft registration number
- **STN** - departure airport (in this case it is London Stansted)
- **AD1200/1300** - actual departure. BLOFF at 1200, airbourne at 1300
- **EA1600** - estimated arrival time. There have to be spaces before EA and after 1600
- **AMS** - arrival airport (in this case it is Amsterdam)
- **DL01/0101** - delay information including delay reason and time of delay in hhmm, i.e. 01/0101 means that the reason is a custom 01 and the flight is delayed by 1h1min. If there are **more than one delay codes**, the format should look as follow rr/rr/hhmm/hhmm, ie 01/02/0101/0202
- **PAX100** - number of PAX on board
- **SI...** - space for supplementary information inserted after SI which will be populated in FW Notes section in Leon

## Arrival message format

**MVT**  
**ABC123/03.ACREG.AMS**  
**AA1600/1610**  
**SI ...**

The data included in SITA arrival message include:

- **ABC123/03** - flight number and day of the month
- **ACREG** - aircraft registration number
- **AMS** - arrival airport
- **AA1600/1610** - Arrival identifier including touch-down time (1600) and BLON time (1610)
- **SI...** - space for supplementary information inserted after SI which will be populated in FW Notes section in Leon

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## SATCOM format

Takeoff Report and Landing Report messages imported to Leon need to be in **specific formats**. Once such messages are received they will be automatically added to '**Flight Watch**' in Leon (**BLOFF when Takeoff Report sent and BLON when Landing Report sent**). See the example of the flight below.

## Takeoff Report format

### subject:

Takeoff Report for AC-REG

### message:

Takeoff Report

Off Time: 11-Jun-2013 0700 UTC / 11-Jun-2013 0900 LCL

Departure Airport: LIML - LINATE

Destination Airport: LIRA - CIAMPINO

ETA 11-Jun-2013 0800 UTC / 11-Jun-2013 1000 LCL

## Landing Report format

### subject:

## Landing Report for AC-REG

### message:

Landing Report

On Time: 11-Jun-2013 1000 UTC / 11-Jun-2013 1200 LCL

Departure Airport: LIML - LINATE

Destination Airport: LIRA - CIAMPINO

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### ACARS format

**ACARS** movement emails can be sent out in the same way as SATCOM or SITA - to the email address mvt@leon.aero and Leon will update **Flight Watch** with details input in the mvt email.

Below you can find appropriate formats which should be used.

- **OFF REPORT extended version**

Subject: A-BCDE OFFRP (where A-BCDE is acft reg number)

To: mvt@leon.aero

#### Content

10-JUN-2015 15:00:00

OFF EVENT REPORT

ORIGIN: WAW

DESTINATION: AMS

OUT TIME: 1456

OFF TIME: 1500

FUEL ON BOARD: 0430

ETA: 1554

- **OFF REPORT simplified version**

Subject: A-BCDE OFFRP (where A-BCDE is acft reg number)

To: mvt@leon.aero

#### Content

A-BCDE OFF REPORT

ORIG: WAW

DEST: AMS

TIME: 1456

- **IN REPORT extended version**

Subject: A-BCDE INRP (where A-BCDE is acft reg number)

To: mvt@leon.aero

**Content**

10-JUN-2015 16:00:00

IN EVENT REPORT

ORIGIN: WAW

DESTINATION: AMS

ON TIME: 1600

IN TIME: 1610

FUEL ON BOARD: 0470

- **IN REPORT simplified version**

Subject: A-BCDE INRP (where A-BCDE is acft reg number)

To: mvt@leon.aero

**Content**

A-BCDE IN REPORT

ORIG: WAW

DEST: AMS

TIME: 1600

FOB: 0470

The format of the 'subject' & 'message' **MUST** be always the same, which means, that if you add anything to the text in either 'subject' or 'message' format, the message **WILL NOT** get imported into the 'Flight Watch'.

## Eurocontrol

It is possible to receive Flight Watch times automatically to Leon from Eurocontrol servers.

**Eurocontrol** is an international organisation working to achieve safe and seamless air traffic management across Europe. Eurocontrol works with national authorities, air navigation service providers, civil and military airspace users, airports, and other organisations. Its activities involve all gate-to-gate **air navigation service operations**: strategic and tactical flow management, controller training, regional control of airspace, safety-proofed technologies and procedures, and collection of air navigation charges. For more information, please visit [Eurocontrol website](#).

In order to integrate with Eurocontrol, you have to open a section [Integrations](#), click **ENABLE** button, then switch the Status to **ON** and save changes.

If the Operator ICAO code in the section Settings > General Settings tab is the same as registered with Eurocontrol, the integration will be completed upon saving changes. If the ICAO code in Leon doesn't match the one registered with Eurocontrol, you will see an error message saying "Operator ICAO not recognized by Eurocontrol".

When the integration is completed, **Flight Watch** in Leon will start receiving flight times from Eurocontrol servers. You will recognise them by opening a Flight Watch and hovering the mouse over the time value, as shown in the screenshot above. Eurocontrol will **only** send Block off, Take off, Landing and Block on times.

## Journey Log

FW JL

FULL JL MANDATORY FIELDS [?]

Date\*: 21 Apr 2020 ADEP\*: EPWA ADES\*: EPWR

BLOFF\*: 15:58 T/O\*: 16:03 LDG\*: 17:01 BLON\*: 17:09

COPY DATA FROM FW

All times in UTC I 00:58 I 01:11

MAX FL\* [?]: 550 FL

Block fuel\*: 4500 lbs

Fuel used\*: 2200 lbs

Fuel remaining\*: 2300 lbs

OPTIONAL JL FIELDS

Uplift [?]: 1500 L

Uplift density: 0.81556862 kg/L

Landings [?]: 1

Pilot flying [?]: STA

Delay code: ---

Discretion [?]: ☐

Notes:

Rest Facility: Suitable

Approach type: ---

Handover notes:

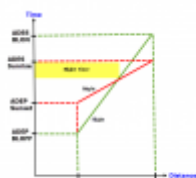
Last modified by Rafal Gryniak 23-Apr-2020 at 09:48 UTC

SAVE DELETE FLIGHT CANCEL

Journey Log - post-flight data input panel

Journals Log Items		
01 Distance	02 Sex	03 Notes
04 Number of handings	05 On call	06 Timing
07 Days used	08 Place of	09 Signposting
10 Appointments	11 Appointments	12 Signposting
13 Risk	14 Local police (signs)	15 Engagement
16 Screened/Full	17 CAH	18 AAH
19 Screened/Local Full	20 Incident time	21 Referrals
22 Screened/Local Full	23 Incident time	24 Notes
25 WATG	26 WATG (Incident)	27 Validity
28 Notes	29 Notes	30 Notes
31 Notes	32 Notes	33 Audited
34 Notes	35 Audited	36 WATG
37 Notes	38 WATG(W)	39 ACIO
39 Notes	40 Signposting	41 Appointed type
42 Notes	43 WATG(W)	44 CAH (not completed)
45 Notes	46 WATG(W)	47 Not completed
46 Notes	47 WATG (New/Full) (Signs)	48 Telephone
47 Notes	48 Notes	49 Video service
48 Validity (signs)	49 Customised	50 Telephone notes

Journey Log items available in the section Settings > Flight Editing



## Night Time calculation in Leon

Video Tutorial

You can add flight times to the **Journey Log** from the scratch or you can copy them from FW (by clicking the blue button). All data inserted to JL is then used in reports.

Apart from the obvious fields in JL such as Date, ADEP, ADES, BLOFF, T/O, LDG and BLON - there are also other available fields split into 2 sections:

### Mandatory JL fields

- **MAX FL** - maximum flight level during the flight - Leon uses this data to calculate [Cosmic Radiation Dose](#). You can also check reports [Cosmic Radiation Summary](#) (showing data for all crew members) and most advanced report [FAA CARI-7](#).
- **Block fuel** - the total fuel required for the flight and is the sum of the Taxi fuel and the Trip fuel.
- **Fuel used** - total fuel used on the trip.
- **Fuel remaining** - difference between Block fuel and Used fuel (Leon calculates this value automatically).

**It is possible to set up a default fuel unit per the aircraft: KG, LBS, L or US GAL - in an aircraft edition panel (section Settings > Fleet). The units can be selected separately for Block/Used/Remaining Fuel and for 'Uplift'**

**Hover the mouse over BLOFF, T/O, LDG, BLON to see alternative indications: OUT, OFF, ON, IN.**

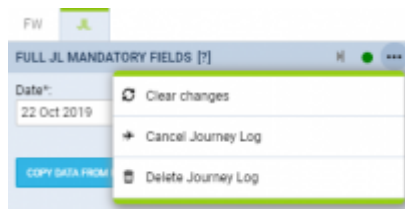
## Optional JL fields

- **Landings** - in case of training flights (when more than 1 circuit was performed) you can insert the exact number, which will be used to calculate crew currency (explained in [this](#) chapter).
- **Delay code** - delay details must be input in the format: code/delay i.e. 14/0010 where 0010 means 00:10 minutes.




- **Night time** - if the flight was during the night (in the period sunset-sunrise for a particular airport), by clicking on this field Leon will show 2 values: flight time & block time.
- **CMT** - commercial time - used in salary calculation which can be generated [in this report](#) if wages have been defined in section Settings > Aircraft Crew Positions.
- **PAX** - total number of passengers.
- **Uplift** - fuel value before the takeoff. It is possible to select a unit in which you would like to insert the uplift. The default uplift unit can be selected in [Fleet](#) setup section.
- **Uplift density (kg/L)** - inserted by default depending on the fuel type (JET A-1 - 0.81556862 kg/L and AVGAS - 0.69559241 kg/L).
- **Pilot flying** - insert a pilot's code who has performed the trip. If a captain has done takeoff and a first officer has done the landing, insert both codes in the format: CPT/FO. 'Pilot flying' field is used to calculate crew currency (explained in more details [here](#)).
- **Approach** - there are different types of approaches available: ILS cat I, ILS cat II, ILS cat III, GPS, VOR or NDB, Visual, PNB, RNP AR.
- **Approach type** - types available are: LVO, Precision, Non-precision, Visual, 2D, 3D, CDI and AZI
- **HUD/EVS** - Head Up Display/Enhanced Vision System approach.
- **Discretion** - if there was FDP extension due to Commander's Discretion, mark this checkbox, then if you edit crew member's FTL Sheet in a column 'CD' you will see how much time beyond permitted FDP was used as the Commander's Discretion extension.
- **Custom Code** - you can apply one of the following codes: **F** for total time for 'Ferry flight', **T** for total time for 'Training flight', **X** for total time for 'Check flight', **M** for total time for 'Maintenance' / 'Reposition' and **P** for total time for 'Passenger flight'. Once a letter is inserted in the 'Custom code' field then the data from the flight is used accordingly in 'Reports' > 'Flight statistics' > 'Fleet Statistic' report. Only one code can be used per one flight. It is also possible to insert a random code which can be visible in the Report Wizard > 'Flight' scope and well as filter by it ('Include/Exclude Custom Code')
- **Notes** - add notes for OPS or other departments.
- **Rest Facility** - select the one used for the augmented crew - Leon then will increase MAX FDP. You can define options for RF in section Settings > Flight Editing as well as per an aircraft in section [Fleet](#).
- **Night time** - select 'flight time' or 'block time' from the drop-down box. Leon automatically calculates both values as any time between hours of ECT (evening civil twilight) and MCT (morning civil twilight) - see screenshot on the right for details.
- **Instrument Time** - time in the air spent flying by IFR. When rule I-IFR is set in OPS > FLIGHT tab, data input shows flight time (it can be over-written). If V-VFR is set - Instrument time needs to be entered manually. Instrument Time cannot be longer than Flight Time.
- **TAH & TAC** - total aircraft **hours & cycles**. Leon shows data ONLY if every single JL has been filled in for particular aircraft. In brackets, there are TAH displayed in **decimals restricted to one space after a comma**, i.e. 10969:43 (10969.7).
- **Engine rate** - numeric values of thrust set for take-off (if there was full available thrust set, or any derates used).
- **Upload files** - PDF and graphics files can be dragged and dropped to this section.
- **Status** - includes two selection options ('Open' and 'Closed') which allows closing the JL or keeping it open

**All enabled fields in Journey Log are also available when adding JL in Leon mobile app. Pilots can also add JL when in offline mode.**



Option to delete JL

If the **JL is inserted by mistake**, for example for the future flight, it is possible to **delete** it. To

delete JL you need to click on  icon located in the top-right corner of the 'JL' tab. There are 3 options available:

- **Clear changes** - clears data inserted in JL **before it is saved**. Useful when incorrect data is inserted in the JL and has to be cleared. Rather than clearing it from each individual field
- **Cancel Journey Log** - cancels saved Journey Log. Cancelling the JL will clear the data as well as display the flight in CALENDAR view as cancelled
- **Delete Journey Log** - allows deleting JL. Useful when the JL is inserted by mistake, for example, on the future flight. Deleting JL clears mistakenly inserted data as well as keeps the flight active

At the bottom of the Journey Log panel you can find an information **Last modified by** showing name & surname of the user who made changes in JL as the last one as well as UTC time of those changes.

## Fuel in litres & US gallons

It is now possible to add **Fuel** data in **litres** or **US gallons** in the Journey Log panel.

In a section Settings > Fleet, edit the aircraft and set up a default fuel unit as **L** or **US Gal**

Once the default fuel unit is set up, you can add fuel in litres or US gallons in the Journey Log panel (as on screenshot below) - the default fuel unit applies to: Block fuel, Used fuel, Remaining fuel and Uplift.

Block fuel\*:

4500

L

Fuel used\*:

2200

L

Fuel remaining\*:

2300

L

OPTIONAL JL FIELDS

Uplift [?]:

1500

US Gal

Block fuel\*:

4500

US Gal

Fuel used\*:

2200

US Gal

Fuel remaining\*:

2300

US Gal

OPTIONAL JL FIELDS

Uplift [?]:

1500

L

The same defined fuel unit shows in the 

EDIT LOG

 panel (suitable for adding JL data for multiple sector trip)

Block fuel*	Fuel used*	Fuel remaining*	Uplift [?]
<div>3500</div>	<div>1500</div>	<div>2000</div>	<div>US Gal</div>
<div>US Gal</div>	<div>US Gal</div>	<div>US Gal</div>	<div>US Gal</div>

We also added **Fuel density (kg/L)** in the JL section. This field is optional and can be activated in Settings > Flight Editing > Journey Log section.

The **default Fuel density values** are as per below:

- **JET A-1** - 0.81556862 kg/L
- **AVGAS** - 0.69559241 kg/L

The value is selected by default in the JL based on fuel type set in Settings > Fleet > OPS tab. This field allows amending the density of the fuel with the values between 0 and 1.

The density value is automatically added when creating new refueling. The density value reacts to the 'Fuel type' changes in the 'New Refueling'.

All the reports that take fuel into consideration such as: CO2 emission, Aircraft Flights, Network Departures, columns in Report Wizard will recalculate with accordance to this density value.

### Adding JL to multiple sectors



Adding JL data to multiple sectors


If you want to add Journey Log to multiple sectors on one screen, click 

EDIT LOG


 button at the bottom of OPS panel and fill in a new open window (see screenshot on the right).

The 'Edit trip JL' window is split into 2 sections“

1. **Trip summary** - showing an aircraft reg number, flight number, date, ADEP, STD, STA, ADES, Block time and assigned crew (codes).
2. **Journey Log** - showing all default fields (defined in Settings > Flight Editing) to be filled in.

Leon will NOT show a button  if an item **Oil uplift** is among the other items. To be able to add JL to multiple sectors you need to first remove that item in Settings > Flight Editing.

## Deleting Journey Log

To delete a journey log click **X** icon (between the trash icon and the status dot). Leon will show a blank JL page. Once it's saved, in a column **FW & JL** instead of a dot Leon will show 'X'. To bring a journey log page back click , however, Leon will NOT restore previous entrances - it will only restore JL fields to be filled in again.

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