## Weight and Balance module

After activating the Weight & Balance module, it is possible to prepare a weight and balance sheet for a flight, using the form in the W&B tab on the flight in OPS.

West Logit Nerve	v			LANCE COMPUT ina Citation Exc			Reg.: A-BC
Oute: 02-Jan-2023	Flight No.:	MAN023A	Route:	EPWA - EDDM PA	M: 3		
ALRCH	AFT STAT	IONS			CALCULAT	IONS	
Station name	(18)	Max Avn [08] [0]	Mornent (be*ie/100)	Hers	Weight [Bit]	(04)	Mornent (100) % M
Dev	374	480 116.33	108.84	EHPTE ABLOW/T	12 374		41791,76 314
Deror baggage	60	700 410.00	238.40	Cree & Faning	82.6		908,39
H Chart Case	- 0	15 158.30	0.00	DRY OVERATING WEIGHT	12 888		43.727,95 364
litt Charti Case		15 158.20	0.00	Payland	336		3 362,46
Reflectment Center / Catering	50	111 172.30	95.15	20AD FUEL WEISHT	13 664	15 100	44.998,41 233
ke FMD Coset	15	78 158,70	15.46	Block fuel	6.000	6790	29719,84
VT Closel	18	49 374.30	38.13	NOP WEIGHT	19 664	20400	64.758,48 27.1
Dreve & Pamirys	814		906.39	Tasi Nel	300		471,33
Seat 3	312	340 334.39	496.91	TAKE-OFF WEIGHT	19-666	20200	64 636,12 27.3
Smat ni	312	340 334.39	496.95	Trip-fuel	3 800		-5.006,15
Seat. 5	172	340 386.54	492.45	LAND ING WEIGHT	16-464	18790	54 141,87 27.0
Seat. 6		340 386.54	0.00	Romaining fuel	2.008.0		
linal 7	0	340 312.63	0.00				
linal II	0	340 312.61	0.00	Within envelope			11
Smat 110 Parel		340 186.68	0.00				
Enat LID-AR		340 304.43	0.00				
HAR BPE		140 187.00	0.00				
KX Beparan	380	700 431.00	375.40	22 000			
Payload:	776		2 252.45	21.000			
	LHC			28.000			
				19.000			10 P
Weight Hate		manti	HAC				
	_	_		18.000	-/-		
				17.000	_/		$\rightarrow$
Take off after LHC				16.000	/		und 1
				18.000	1		
				15 000	<u> </u>		
				14 000	/		
							279
				13 900			
				12 900			
				11 000			
				18.000			
				\$-000 10 15 17	19 21	23	3 17 19 3
					Aircraft Co		

Example of a W&B sheet (PDF) prepared in Leon

## Sections

The form is split into sections, in which you can edit the weight of each station taken into account during the W&B calculations:

- **Configuration** allows selecting aircraft configuration other than the default (if available)
- MTOW shows aircraft's MTOW
- Crew & Pantry the place where you can edit weights for crew & pantry stations
- **Passengers** in this section, you can edit PAX weights on the flight
- Baggage the weight of the luggage (and/or cargo, mail, etc.) on the flight
- Fuel the weight of fuel planned as a block, taxi and trip fuel

## **Calculation result**

Last update: 2023/08/29 08:15

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RESULT 🖌		PREVIEW 🖪
REBULI V		
	% MAC	Weight
EMPTY AIRCRAFT	37.9	12373.8
CREW & PANTRY	0	514
DRY OPERATING WEIGHT	30	12887.8
PAYLOAD	0	776
ZERO FUEL WEIGHT	27.6	13663.8
		REMAINS 1436
BLOCK FUEL	0	6000
RAMP WEIGHT	27.3	19663.8
		REWAINS 736
TAXI FUEL	0	200
TAKE-OFF WEIGHT	27.3	19463.8
		REMAINS 736
TRIP FUEL	0	3000
LANDING WEIGHT	27.1	16463.8
		REMAINS 2236

W&B calculation result - all weights and CG are within the limits

This section shows the result of W&B calculations - the position of the CG and aircraft weights versus structural limits.

For each structural weight limit, the difference between the structural limit and the actual weight will be shown. Weights within the structural limits and with CG within the envelope are green, while weights beyond structural limits or with CG beyond the envelope are red. There is also a green tick or a red triangle to indicate if the W&B results are correct.

Next to the **Result** section, there is a 'Preview' button, which opens a PDF file with a W&B sheet.

## Activating W&B module

Weight & Balance functionality is optional and involves an additional charge per tail. Some aircraft types are not supported.

In order to set up Weight and Balance for an aircraft, contact us via Customer Portal, letting us know the details or sending us the documents containing them, as follows:

- 1. Aircraft type
- 2. Aircraft registration
- 3. Aircraft S/N
- 4. CG envelope geometry (CG limitations)
- 5. Aircraft configuration (an arm of each station of the aircraft)
- 6. Maximum and default weights for each station
- 7. Position of the CG depending on the weight of the fuel on board
- 8. Actual and up-to-date basic empty weight and moment (or weight and arm) aeroplane weighing form

It is recommended to provide:

- 1. Aircraft operating manual chapter 'Weight and Balance'
- 2. Aircraft operating manual chapter 'Limitations'

- 3. Aircraft Weight and Balance Manual
- 4. The most recent aeroplane weighing form

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