

# What changes?

## Maximum F.D.P., Rest Periods and F.D.P. extensions



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**12 June 2015**



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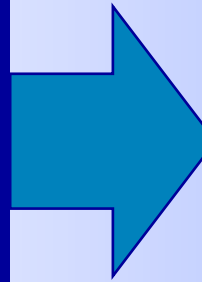
1. The new rule
2. New & improved Definitions (ORO.FTL.105);
3. Home Base (ORO.FTL.200 + CS FTL 1.200);
4. Flight Duty Period (ORO.FTL.205 + CS FTL 1.205)
5. Cumulative flight times and D.P. (ORO.FTL .210);
6. Rest periods (ORO.FTL.235 + CS FTL 1.235);



# The New Rule - The Transition

ACTUAL

- (OPS1) Subpart Q  
(Reg. (EU)n. 859/2008 )
- Reg. ENAC
- Integrativo S.part Q
- OPV 20



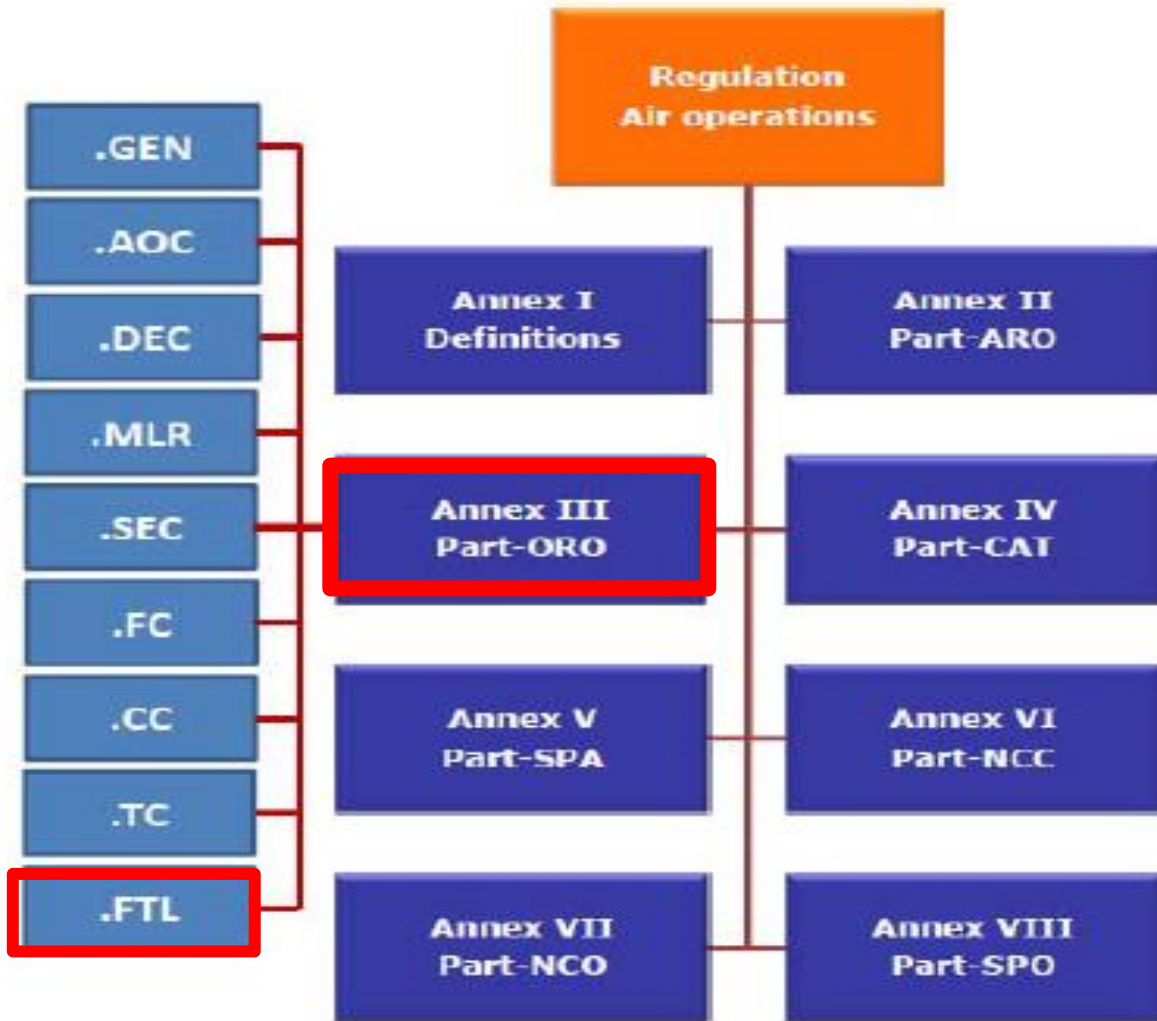
FROM 18 FEBRUARY 2016

- Reg.(EU)n.965/2012**  
**(new Reg.83/2014)**
- ANNEX III ORO-FTL**
- + AMC**
- + CS FTL.1.2XX**

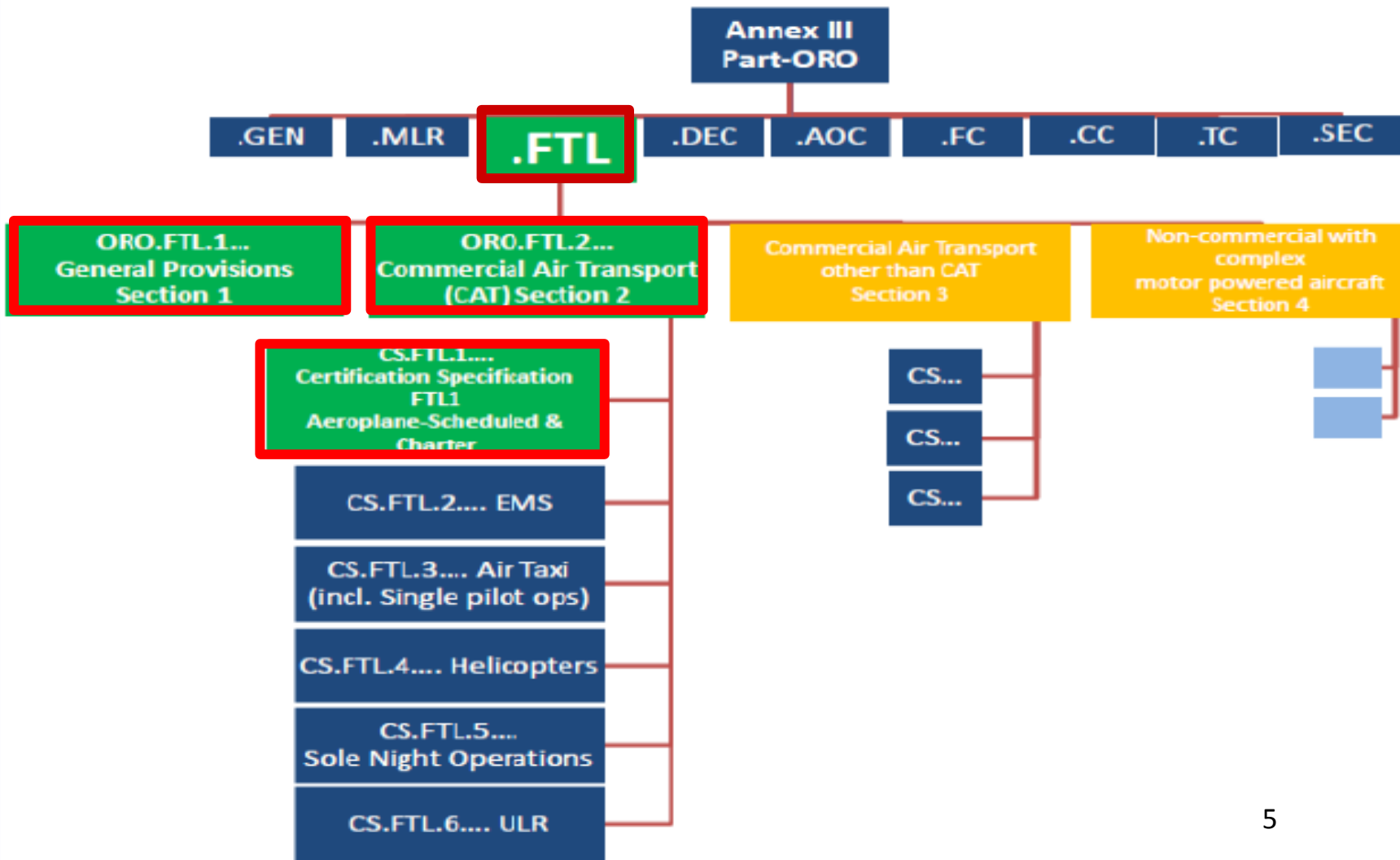
**Council Directive 2000/79/EC (Mobile Workers in Civil Aviation )**



# Reg.(EU) n. 965/2012 (AIR OPS)



# Annex III – Part-ORO



# Who is affected?

The regulation applies to:

**-COMMERCIAL AIR TRANSPORT AEROPLANE OPERATIONS (SCHEDULE AND CHARTER)**

The following operations are currently exempt :

- Air taxi as defined by Reg.83/2014;
- Emergency Medical Services (EMS-airplanes)
- Single pilot;
- Helicopter.....for now

# **NEW DEFINITIONS (ORO.FTL.105);**

**(1)Acclimatised**

**(2)Reference time**

**(7)Delayed reporting**

**(8)Disruptive schedule (early/late type)**

**(9)Night duty (02:00-04.59)**

**(19)Rest facility**

**(22)Rotation**

**(24)Sector**



# IMPROVED DEFINITIONS (ORO.FTL.105);

✓ Augmented flight crew

✓ Flight time

✓ Break

✓ Duty

✓ Duty Period (DP)

✓ Flight Duty Period (FDP)

✓ Home base

✓ Rest period

✓ Single day free of duty



## 2) HOME BASE (ORO.FTL.200 + CS FTL 1.200);

I.R. → Unchanged (OPS 1.1090 - 3.1)

CS FTL.1.200

C.S. Specifies : “..single airport location.. “ ;  
“..high degree of permanence by CM”

**FOR BASE CHANGE & TRAVELING TO/FROM NEW  
HOME BASE: REST MITIGATIONS**

# FLIGHT DUTY PERIOD (ORO.FTL.205 + CS FTL 1.205)

Max FDP → 13h (as OPS 1-2 sectors/06-13:29 only )



i.a.w. table 2

- Start of FDP (REPORTING TIME)

- N. of Sectors (1-10)

**FORMULA IN OPS 1.1105**



# MAXIMUM (BASIC) DAILY FDP - ADVANTAGES

- (b) Detailed table, instead of calculation, to avoid misinterpretation;
- (b) Window of **FDP max. 11h** is now extended between **17:00 & 04:59**

## CS FTL.1.205(a)

- Night Duty:
- Max 4 sectors for consecutive Night Duty
  - **FRM** required if Night Duties > 10hs

## Table 2 - ORO.FTL.205(b)

Start of FDP at reference time	Sectors								
	1 - 2	3	4	5	6	7	8	9	10
06:00 – 13:29	13:00	12:30	12:00	11:30	11:00	10:30	10:00	9:30	9:00
13:30 – 13:59	12:45	12:15	11:45	11:15	10:45	10:15	9:45	9:15	9:00
14:00 – 14:29	12:30	12:00	11:30	11:00	10:30	10:00	9:30	9:00	9:00
14:30 – 14:59	12:15	11:45	11:15	10:45	10:15	9:45	9:15	9:00	9:00
15:00 – 15:29	12:00	11:30	11:00	10:30	10:00	9:30	9:00	9:00	9:00
15:30 – 15:59	11:45	11:15	10:45	10:15	9:45	9:15	9:00	9:00	9:00
16:00 – 16:29	11:30	11:00	10:30	10:00	9:30	9:00	9:00	9:00	9:00
16:30 – 16:59	11:15	10:45	10:15	9:45	9:15	9:00	9:00	9:00	9:00
17:00 – 04:59	11:00	10:30	10:00	9:30	9:00	9:00	9:00	9:00	9:00
05:00 – 05:14	12:00	11:30	11:00	10:30	10:00	9:30	9:00	9:00	9:00
05:15 – 05:29	12:15	11:45	11:15	10:45	10:15	9:45	9:15	9:00	9:00
05:30 – 05:44	12:30	12:00	11:30	11:00	10:30	10:00	9:30	9:00	9:00
05:45 – 05:59	12:45	12:15	11:45	11:15	10:45	10:15	9:45	9:15	9:00

# MAX DAILY FDP WITH THE USE OF EXTENSIONS WITHOUT IN-FLIGHT REST (ORO.FTL.205(d))

**Same EU-OPS :**

- max 1 h, max twice every 7 cons. days;
- mitigations (pre/post flight rest +2h or post +4h);
- max 5 legs limitations;

**-Shall be planned in advance (d)(3);**

**CS FTL 1.205(b)**

**- Detailed table in CS**

# EXTENSION OF FDP WITHOUT IN-FLIGHT REST

(CS FTL 1.205(b))

Starting time of FDP	Sectors			
	1 – 2	3	4	5
06:15 - 06:29	13:15	12:45	12:15	11:45
06:30 - 06:44	13:30	13:00	12:30	12:00
06:45 - 06:59	13:45	13:15	12:45	12:15
07:00 - 13:29	14:00	13:30	13:00	12:30
13:30 - 13:59	13:45	13:15	12:45	Not allowed
14:00 - 14:29	13:30	13:00	12:30	
14:30 - 14:59	13:15	12:45	12:15	
15:00 - 15:29	13:00	12:30	12:00	
15:30 - 15:59	12:45			
16:00 - 16:29	12:30			
16:30 - 16:59	12:15			
17:00 - 17:29	12:00			
17:30 - 17:59	11:45			
18:00 - 18:29	11:30			
18:30 - 18:59	11:15			
19:00 - 06:14				

Rep. time 19:00 – 06:14  
NO EXTENSIONS  
ALLOWED

BASIC MAX DAILY FDP  
(TABLE 2 ORO.FTL.205)



# MAX DAILY FDP WITH THE USE OF EXTENSIONS DUE TO IN-FLIGHT REST (ORO.FTL.205(e))

## **Art.4 Regolamento integrativo ENAC:**

- **+3h / +5h on PSV**
- **adequate seats**
- **Uninterrupted rest**

- **Sectors (max 3)**
- **Rest 90min/2 h for FCM landing**
- **Rest facilities (Class 1/2/3 No economy class)**
- **Augmentation of Flight Crew**

**For FCMs, FDP may be increased of 1 more h. (1 sector >9h / max 2 )**

# MAX DAILY FDP WITH THE USE OF EXTENSIONS DUE TO IN-FLIGHT REST C.C. (CS FTL.1.205(c))

Maximum extended FDP (hours)	Minimum in-flight rest (hours)		
	Class 1	Class 2	Class 3
Up to 14:30	1:30	1:30	1:30
14:31 – 15:00	1:45	2:00	2:20
15:01 – 15:30	2:00	2:20	2:40
15:31 – 16:00	2:15	2:40	3:00
16:01 – 16:30	2:35	3:00	<b>Not allowed</b>
16:31 – 17:00	3:00	3:25	
17:01 – 17:30	3:25		
17:31 – 18:00	3:50		





# MAX DAILY FDP WITH THE USE OF EXTENSIONS DUE TO IN-FLIGHT REST

**Actual Max PSV is 13h + 5h = 18 h**

**PILOTS: 4 FCM + class 1 rest facility + 1h  
extention = 18h**

**CABIN CREW : max rest time (3:50) + class 1 rest  
facility = 18h**

# MAX DAILY FDP WITH THE USE OF EXTENSIONS DUE TO IN-FLIGHT REST

Reg. (EU) n. 83/2014, Art. 2

*“EASA MEMBER STATES MAY CHOOSE NOT TO APPLY THE PROVISION ‘TILL 17 FEBRUARY 2017’”*

ENAC INTENDS TO TAKE ADVANTAGE OF THE OPT-OUT TO PERMIT RECONFIGURATION

# UNFORSEEN CIRCUMSTANCES– COMM. DISCRETION

## ORO.FTL.205(F)

- Max FDP EXTENTION: unchanged(2h/3h augmented Crew)
- Reports to CAA : unchanged
- Delayed reporting as for CS FTL.1.205 → NEW FDP if CM is informed of delayed reporting (+/- 4h – 10h)

### EVERYTHING AFTER REP. TIME IS UNFORSEEN CIRCUMSTANCES

Operator SHALL implement a NON PUNITIVE process on O. M.

Operator SHALL establish procedure on delayed rep. on O. M.

# CUMULATIVE FLIGHT TIMES AND D.P. (ORO.FTL .210);

## Cumulative Flight Time & Duty Periods unchanged

### NEW “ROLLING LIMITS”

- ✓ Max Duty hours in any 14 consec. days: 110h
- ✓ Max Flight time in any 12 consec. months: 1000h

N.B.: Post flight counts as Duty Period. Operator shall specify on OPERATION MANUAL time for post-flight duties.



# REST PERIODS (ORO.FTL.235 + CS FTL 1.235);

**Minimum Rest at home base/away h.b: Unchanged**

**Min.Rest away home base : 8hs sleep (unchanged)+  
(10h)**

- traveling time &
- physiological needs (1h)

**Min rest away home base = 8hs + 1h+ travelling time  
(x 2)**



# REST PERIOD – (ORO.FTL.235)

## RECURRENT EXTENDED RECOVERY REST PERIODS

Recurrent extended recovery rest periods planned



- 36 hours, including 2 local nights,
- one RERRP every 168 hours (7 days)

RERRP

168h (7 days)

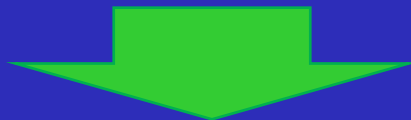
RERRP

The RERRP shall be increased to **2 local days** twice every month.

# REST PERIOD – ADDITIONAL REST PERIODS

(ORO.FTL.235(e))

- Time zone differences
- Additional fatigue due to disruptive schedules;
- Change of home base.



CS FTL.1.235

# REST PERIOD - ADDITIONAL REST PERIODS

(CS FTL.1.235)

- Time zone differences : - 4 h time difference or more  
- east-west & v.v. rotations
- Disruptive schedules : - transition late/night to early  
- 4 night Duty or more b/teen 2

RERRP





# REST PERIOD –REDUCED REST (CS FTL.1.235)

REDUCED REST IS USED UNDER FATIGUE  
RISK MANAGMENT



## ENAC WEB SITE

### Home

#### ➤ La Regolazione per la Sicurezza

##### - Operazioni di volo

##### - EASA Flight Time Limitations - Parte FTL



**THANK YOU FOR YOUR ATTENTION**

