



**EASA**  
European Aviation Safety Agency

# The new EU Fatigue Management Regulation Key Issues

Implementation Workshop  
Regulation (EU) No 83/2014

Stockholm, 25 September 2014

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## Key issues / what's new?

- Acclimatisation
- Long night duties
- Standby / reserve
- Delayed reporting
- Split duty
- Reduced rest

## Questions

## Approval of individual flight time specifications schemes



# Acclimatisation

ORO.FTL.105 (1) & (2)

Acclimatisation Table 1

CS FTL.1.235 (b) (3)

- TZC and acclimatisation



# FDP and night duty

Are extensions of night time FDPs possible under FRM?

## Night duty over 10h

- Acclimatised
- Appropriate fatigue management

## Unknown state of acclimatisation

- Max FDP = 11h
- Effect on fatigue of rotations monitored



# Standby (1)

## Elements of standby

### ORO.FTL.105 (3),(4) & (25)

- Difference between accommodation & *suitable* accommodation
- Available to receive an assignment w/o intervening rest period

### ORO.FTL.225

- Rostered (start/end time)
- Accommodation\* provided during A/P standby

### CS FTL.1.1225

- (a) Airport standby
- (b) Standby other than airport standby



# Standby (2)



## Airport standby

### ORO.FTL.225

- Crew member on a/p from reporting until end of notified period (or end of FDP if called out)
- Counts as cumulative duty and for calculation of rest

### CS FTL.1.225 (a)

- Followed by minimum rest (12h or 10h) if there is no assignment
- FDP counts from start of FDP
- Max FDP reduced by any time spent >4h
- Maximum combined duration of STBY and FDP 16h (this does apply for FDP with in-flight rest or split duty)



## Standby (3)

Standby other than airport standby (at 'home' or in hotel)

### CS FTL.1.225 (b)

- Max duration 16h
- Procedures to avoid awake times >18h
- 25% of stby time count as cumulative duty
- Followed by rest period (12h or 10h if no assignment)
- 6h 'buffer' before FDP starts counting
- 8h 'buffer' before FDP starts counting for FDP with in-flight rest or split duty
- 'Buffer' not consumed 23:00-07:00
- Reasonable response time



## Elements of reserve

### ORO.FTL.105(20)

- Assignment notified at least 10h in advance

### ORO.FTL.230

- Rostered

### CS FTL.1.230

- FDP counts from reporting
- Followed by rest period (12h or 10h if no assignment)
- Does not:
  - Count for cumulative duty
  - Generate rest
- Operator defines maximum number of days within 168 hours
- Rostered 8-h period protected for sleep





# Delayed reporting



## Elements of delayed reporting Notification procedures

### ORO.FTL.105(7)

- FDP postponed by operator **before** crew member has left place of rest

### ORO.FTL.205(g)

### CS FTL.1.205(d)

- Operator procedures:
  - Notification time allowing crew members to remain at place of rest
  - Operator keeps records
- Delay <4h → max FDP calculated based on original starting time, FDP starts when reporting
- Delay >4h → max FDP calculated based on most limiting, FDP starts counting when reporting
- Further amendment leads to FDP starting 1h after 2<sup>nd</sup> notification or initial delayed reporting time if this is earlier



# Split duty

## Calculation of maximum FDP with a break on the ground

### ORO.FTL.220

- Split duty counts in full as duty
- Split duty shall not follow a reduced rest

### CS FTL.1.220

- Minimum 3h consecutive
- Time for post and pre-flight duties and travelling does not count as break (minimum 30 all together)
- Basic maximum daily FDP (tables 2, 3 & 4 ORO.FTL.205(b)) increased by up to 50% of break
- Accommodation / suitable accommodation for breaks over 6 hours or encroaching the WOCL
- Split duty cannot be combined with (extensions due to) in-flight



# Reduced rest

Is it possible to reduce rest (RR) below 10 / 12 hours?

## ORO.FTL.235(c)

- Reduced in CS specifying
  - Minimum rest period
  - Increase of subsequent rest
  - Reduction of the FDP following the reduced rest

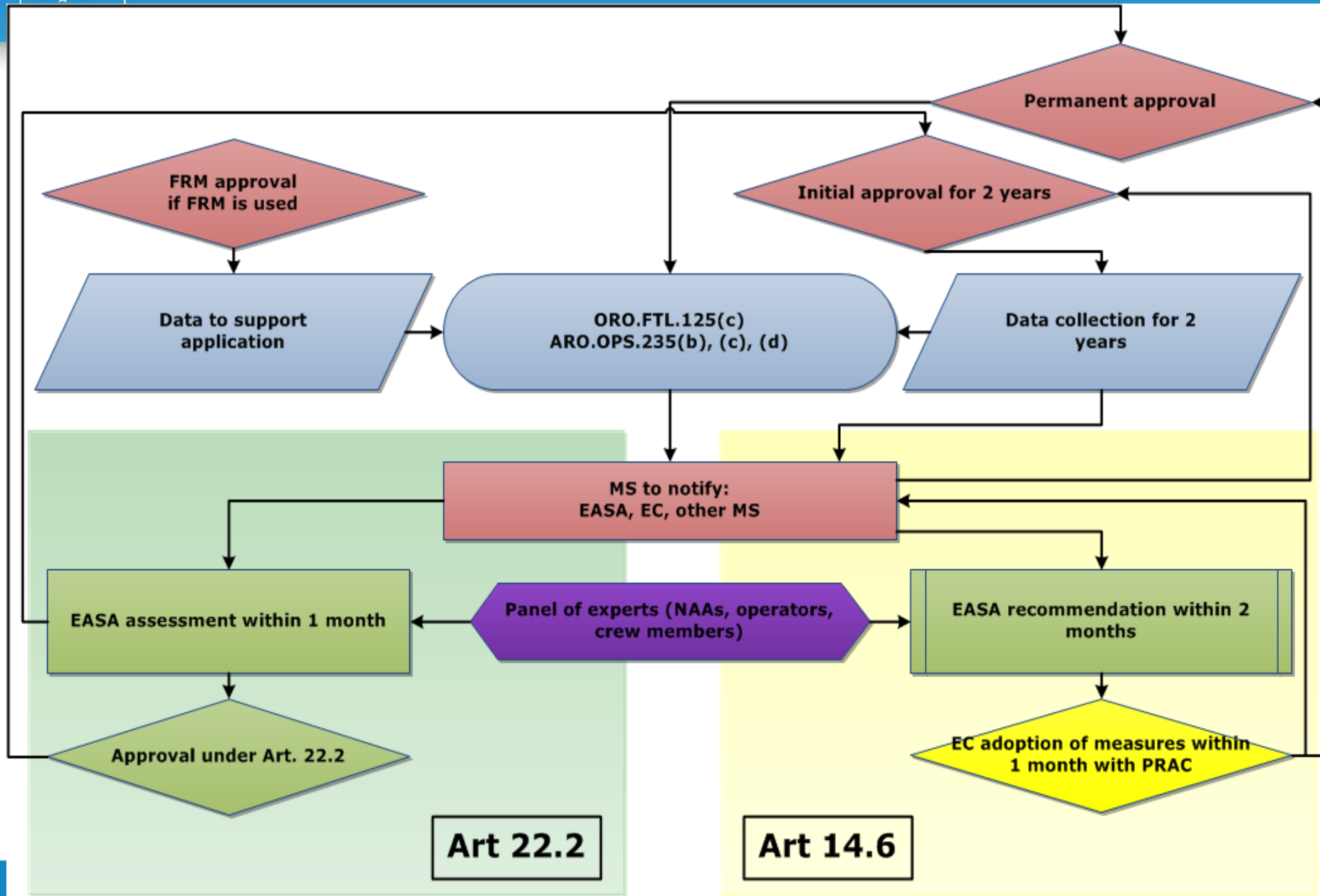
## CS FTL.1.235(c)

- Minimum *reduced* rest 10 / 12 hours
- Only under FRM
- Rest following RR extended by the difference between minimum rest and RR
- FDP following RR is reduced by the difference between minimum rest and RR
- Maximum 2 RR between 2 extended recovery rest periods

Yes, but this requires a deviation under Art. 22.2.



# Approval of IFTSS





# Time frame for assessment

**Panel of experts (NAAs, operators, crew members)**



**Art. 22(2)**

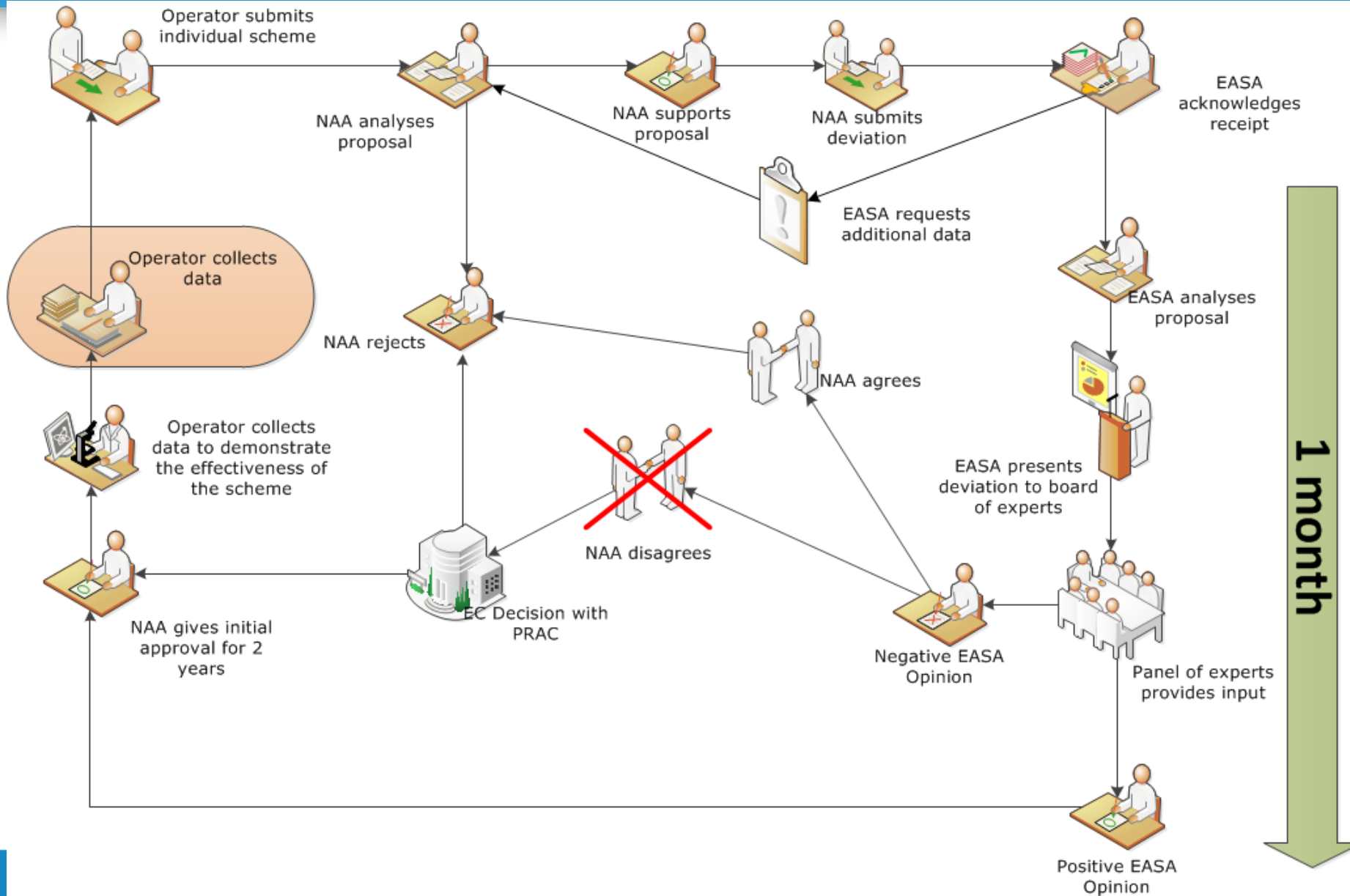
- 1 month

**Art. 14(6)**

- 2 months EASA
- 1 month PRAC

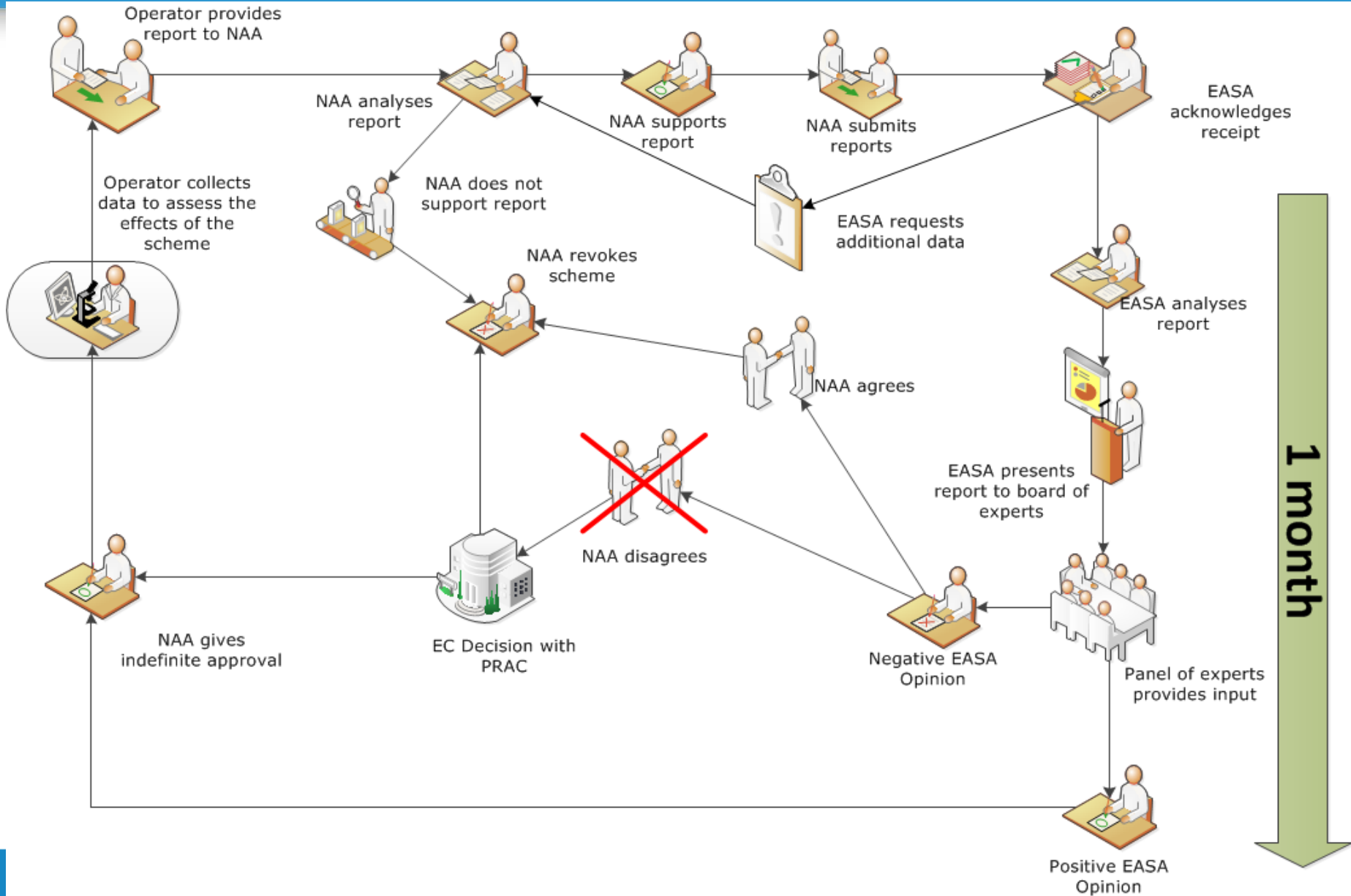


# Workflow Art. 22.2 Initial approval



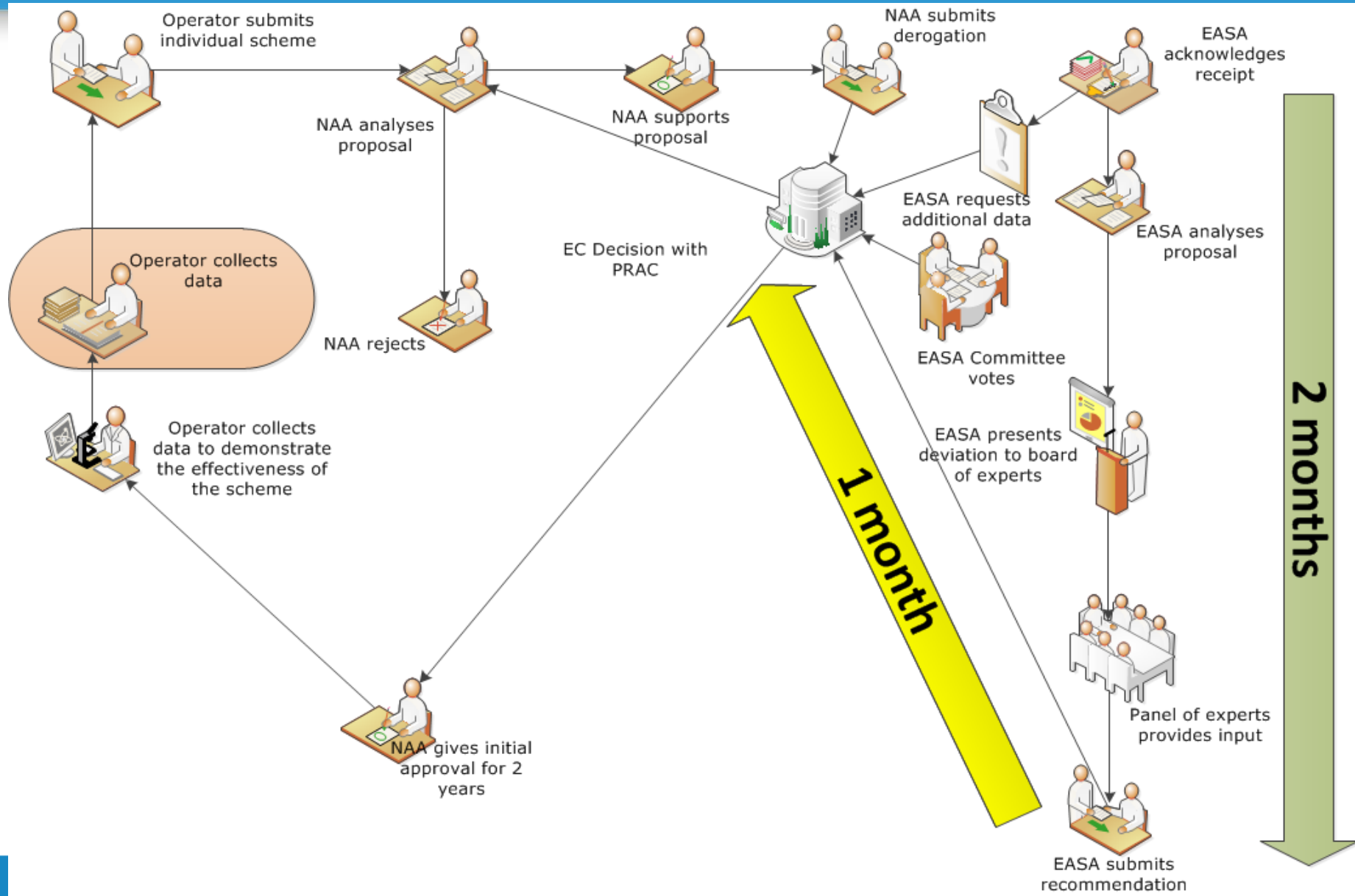


# Workflow Art. 22.2 Indefinite approval





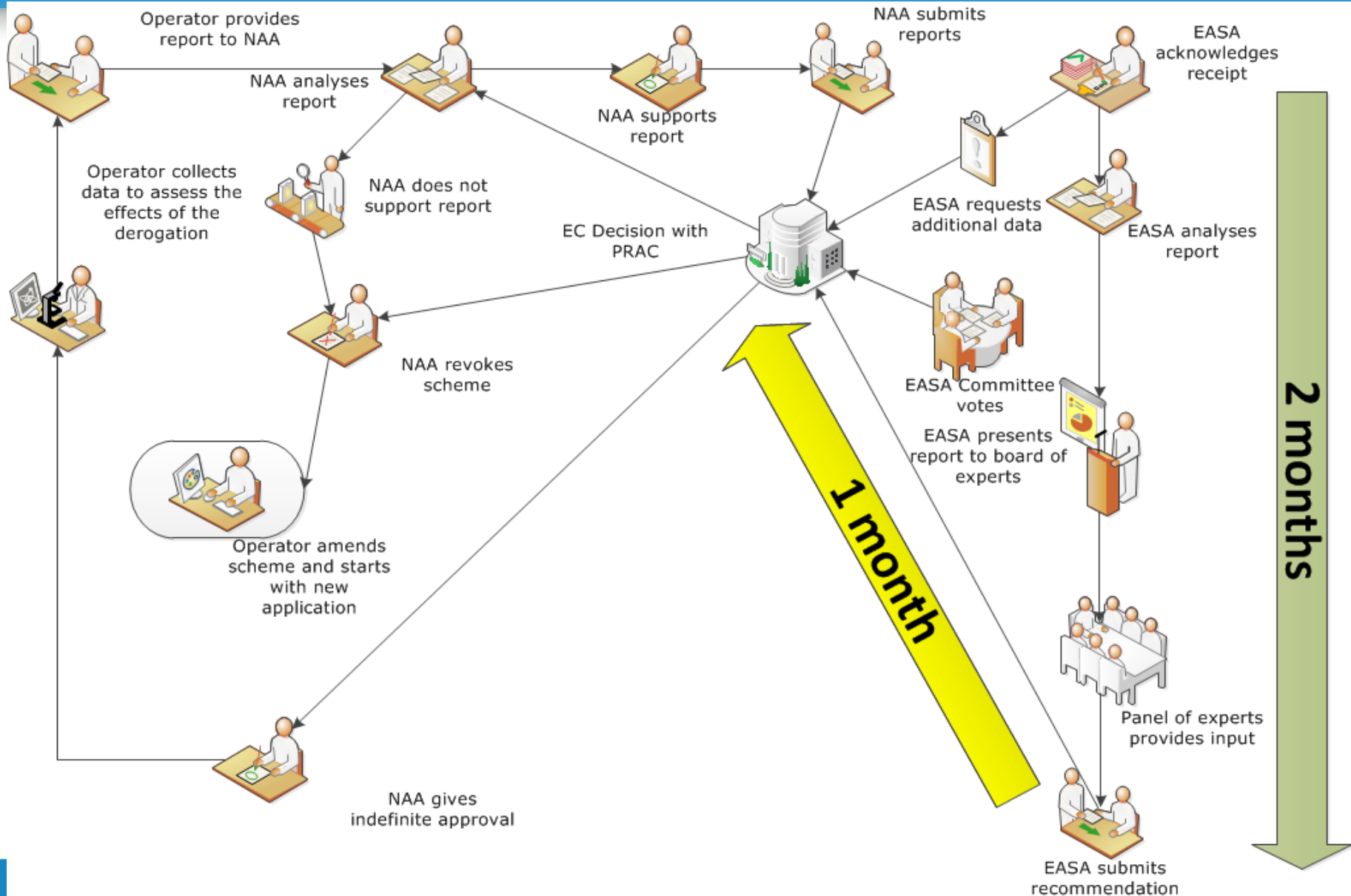
# Workflow Art. 14.6 Initial approval







# Workflow Art. 14.6 Indefinite approval





## Composition of panel of experts

- Conflict of interest issues

At what stage of the process shall the panel be involved?

- Tight planning due to time constraints



# EASA

European Aviation Safety Agency

## Summary

Upstream pre-assessment by  
NAAs paramount

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Pool of nominated experts

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Expert input to EASA assessment

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