



International Civil Aviation Organization

The FRMS Provisions: Structure and Content

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ICAO Documentation

✈ Annex Provisions

- Standards (shall)
- Recommended Practices (should)
- Appendices (Standard = shall)
- Attachments (guidance)

✈ Guidance Material

- Manuals
- Circulars

Provisions – who needs them?

- ➔ ICAO provides provisions (SARPs and guidance material) to the States;
- ➔ The States establish regulations in accordance with the SARPs;
- ➔ Operators develop policies to comply with their State's regulations.

What do the FRMS provisions include?

➤ Annex 6 Part 1 – flight and cabin crew

- Standards and Recommended Practices (SARPs)
- Appendix 8

➤ Guidance Material

- Operators
- Regulators





Fatigue Management SARPs

✈ The State:

Must have regulations for managing fatigue based on scientific principles

- Mandatory Prescriptive Regulations
- Optional FRMS Regulations

Fatigue Management SARPs



✈ The Operator:

Where FRMS regulations are offered, can choose how to manage their fatigue risks

- Complying with prescriptive regulations; or
- An FRMS for all operations; or
- An FRMS for some operations and prescriptive regulations for the remainder of the operations.

Fatigue Management SARPs



- Variations to FTLs on the basis of a risk assessment.
- Maintain records of flight and duty periods.
- FRMS processes must be functioning before approval can be given by State.
- Outer parameters to be identified.
- Recommendation: Integration with SMS.

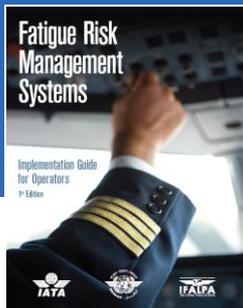


Appendix 8

- Details the minimum requirements for an FRMS
- Highlights consistent FRMS and SMS frameworks

SMS	FRMS
1. Safety policy and objectives	1. FRMS Policy and Documentation
2. Safety risk management	2. Fatigue risk management processes
3. Safety assurance	3. FRMS safety assurance processes
4. Safety promotion	4. FRMS promotion processes

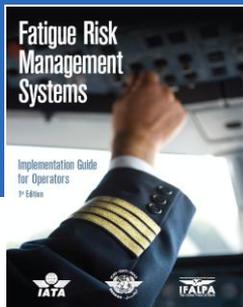
FRMS Guidance Material



✈️ FRMS Implementation Guide for Operators

✈️ FRMS Manual for Regulators

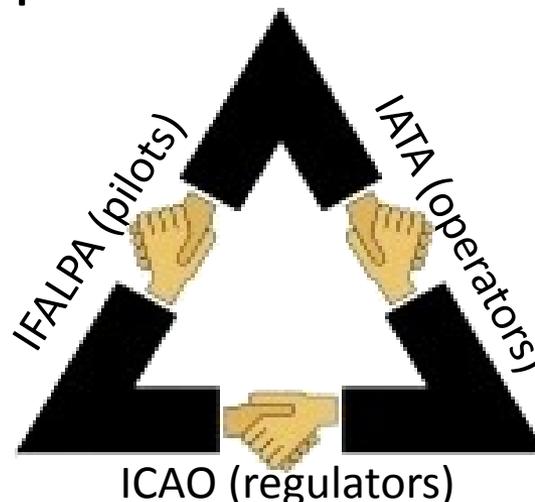
- Provide detailed guidance to support new FRMS SARPs.
- Are based on the work of ICAO's FRMS Task Force.
- Apply current scientific knowledge and tools plus industry best practice.
- Are aligned.
- Are freely available on the web.



FRMS Implementation Guide for Operators



- Summarises the supporting science.
- Explains the minimum requirements in the Appendix.
- Describes how to implement an FRMS.
- Provides operational examples of various means of compliance.
- Developed as a tripartite.





FRMS Manual for Regulators

- Explains the intent of the SARPs.
- Provides scientific background.
- Explains the minimum requirements in Appendix 8.
- Discusses the approval process and oversight of FRMS.
- Unedited version.
- To be translated.

A New Look: www.icao.int



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Uniting Aviation on Safety, Security, Environmental Protection and Sustainable Development of Air Transport



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ICAO NEWS

- ▶ ICAO AND FIATA ANNOUNCE NEW DANGEROUS GOODS BY AIR TRAINING PROGRAMME 20/07/2011
- ▶ ICAO MEDIUM-TERM FORECAST POINTS TO CONTINUED INDUSTRY GROWTH THROUGH 2013 19/07/2011
- ▶ IATA, ICAO AND IFALPA JOINTLY ANNOUNCE FRMS IMPLEMENTATION GUIDE FOR OPERATORS 18/07/2011
- ▶ ICAO AND WCO JOIN FORCES TO STRENGTHEN AIR CARGO SECURITY 27/06/2011
- ▶ ICAO ADOPTS CODE OF CONDUCT FOR SHARING SAFETY INFORMATION 15/06/2011
- ▶ ICAO SETS NEW STANDARDS FOR CREW FATIGUE MANAGEMENT 14/06/2011

UPCOMING MEETINGS & EVENTS

#	Meetings And Events	Date	Location
▶	Fatigue Risk Management Systems (FRMS) Symposium and Forum	30 August – 2 September 2011	ICAO, Montréal, Canada
▶	Twentieth Meeting of the Technical Advisory Group on Machine Readable Travel Documents (TAG - MRTD/20)	7 – 9 September 2011	ICAO, Montréal, Canada
▶	Seventh Symposium and Exhibition on ICAO MRTDs, Biometrics and Security Standards	12 – 15 September 2011	ICAO, Montréal, Canada
▶	Global Air Navigation Industry Symposium Preparation for the Twelfth Air Navigation Conference	20 – 23 September 2011	ICAO, Montréal, Canada
▶	World Route Development Strategy Summit. ICAO World Bank UBM Aviation	2 – 3 October 2011	Berlin
▶	ICAO Air Services Negotiation Conference (ICAN/2011)	17 – 22 October 2011	Mumbai, India
▶	ICAO Aviation and Sustainable Alternative Fuels Workshop (SUSTAF)	18 – 20 October 2011	ICAO, Montréal, Canada
▶	ICAO Symposium on Regional Safety Oversight Organizations (RSOOs)	26 – 28 October 2011	ICAO, Montréal, Canada
▶	ICAO Regional Seminar on MRTDS: Biometrics and Border Security	31 October – 2 November 2011	Doha, Qatar
▶	4th ICAO Next Generation of Aviation Professionals (NGAP) and TRAINAIR PLUS Regional Conference – The Americas	15 - 17 November 2011	Quito, Ecuador
▶	ICAO Regional Seminar on MRTDS: Biometrics and Border Security	30 November – 2 December 2011	Singapore



SAFETY NEWS

#	Title	Date
▶	ICAO AND FIATA ANNOUNCE NEW DANGEROUS GOODS BY AIR TRAINING PROGRAMME	20/07/2011
▶	ICAO MEDIUM-TERM FORECAST POINTS TO CONTINUED INDUSTRY GROWTH THROUGH 2013	19/07/2011
▶	IATA, ICAO AND IFALPA JOINTLY ANNOUNCE FRMS IMPLEMENTATION GUIDE FOR OPERATORS	18/07/2011
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POLICY AND STANDARDIZATION



GLOBAL PLANS AND PROGRAMMES



MONITORING AND ANALYSIS

USOAP
Continuous Monitoring Approach



The Fatigue Management Site



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ICAO Fatigue Management Site

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FRMS WORKSHOPS

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» USEFUL LINKS



Welcome to the ICAO Fatigue Management Site

ICAO is working to provide States and operators with provisions that will help them to better manage fatigue-related risks. We'll be continuing to develop this site and build up our bank of tools and information for your use.

On this site, you will find:

- Information on related ICAO events, including the FRMS Symposium (30-31 August, 2011)
- Provisions for prescriptive and performance-based methods of managing fatigue
- Practical guidance on the oversight and implementation of Fatigue Risk Management Systems
- FRMS tools for use by operators and regulators
- Information on FRMS Workshops to be conducted by ICAO, IATA and IFALPA

In the future, we intend to include:

- Examples of Best Practices related to managing fatigue-related risks from around the globe
- Links to useful fatigue management sites
- Computer-based training on FRMS oversight

For more information, please contact: FatigueManagement@icao.int



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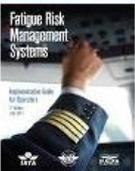
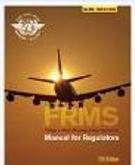
FRMS Manuals

These Manuals were developed to support the SARPs pertaining to FRMS in Annex 6, Part I, which relates to specifically flight and cabin crew.

However, other safety-critical personnel, such as air traffic controllers and maintenance engineers can also benefit from taking an FRMS approach to managing their fatigue-related risks. The general principles of an FRMS approach, as discussed in these manuals, are broadly applicable across the aviation industry.

To download a specific document, locate the "Download" column and click on the "Click here" hyperlink.

FATIGUE MANAGEMENT TOOLKITS

Icon	Title	Author	Revision	Download
 Scope : Fatigue Risk Management Systems (FRMS) (2)				
	FRMS Implementation Guide for Operators	ICAO / IATA / IFALPA	1st Ed. / Jul. 2011	Click here
	FRMS Manual for Regulators (Doc 9966)	ICAO	2011 Unedited Version	Click here

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