

Federal Aviation Administration

SMS Guidance and Tools

Basic Safety Concepts





- VS 8000.369: FAA SMS Guidance
- VS 8000.367: AVS Requirements Document
- SMS Standard: AC 120-92 Appendix 1
- Voluntary Implementation Guidance



International Civil Aviation Organization (ICAO) Annex 6

- This is the document that brought "official" life to the international aviation arena's awareness of SMS.
- Chapter 3.2.1 States shall establish a safety programme
- Chapter 3.2.4 From 1 January 2009, States shall require



ICAO Doc 9859 The ICAO Safety Management Manual

 This manual follows Annex 6, Part 1, above, and provides more detailed guidance and standardization for member states when implementing SMS



Order VS 8000.369 FAA Safety Management Guidance (Doctrine)

- High level concepts
- Three Levels of the ATS
- Four Components ("Pillars")



Order VS 8000.367 AVS SMS Requirements

- Chapter 5: Service Provider Safety
 Assurance
 - Design Assurance
 - Performance Assurance
- Appendix B: Service Provider SMS requirements



AC 120-92 Introduction to SMS for Operators

- Appendix 1: SMS Functional Framework
- Based on structure of VS 8000.367 Appendix B
- Patterned after ISO Standards



Change to AC 120-92

- Re-organized Appendix I to follow ICAO Framework
- Will be a stand-alone document while AC 120-92 change is in coordination



ICAO and FAA SMS Framework



E	Elements:	
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	Elements:	
	11 Safety Policy	
	Elements:	s
	4.1 Competencies and Training	
	Process 4.1.1 Personnel requirements	
	Process 4.1.2 Training	
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1	4.2 Communication and Awareness	レ
3	3.2 Management of Change	
	3.3 Continual Improvement	





SAFETY MANAGEMENT SYSTEM (SMS) FRAMEWORK

For:

AVIATION SERVICE PROVIDERS

(For use by aviation service providers participating in the Safety Management System Pilot Project (SMSPP) and for voluntary implementation of Safety Management Systems)

Federal Aviation Administration Flight Standards Service - SMS Program Office

Full Screen 🔍

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Component 2.0 Safety Risk Management (SRM)

A) **Performance Objective**: The service provider will develop processes to understand the critical characteristics of its systems and operational environment and apply this knowledge to the identification of hazards, risk decision-making, and the design of risk controls.

B) General Design Expectations:

- 1) Safety Risk Management (SRM) will, at a minimum, include the following processes:
 - a) System and task analysis;
 - b) Hazard Identification;
 - c) Safety Risk Analysis;
 - d) Safety Risk Assessment; and
 - e) Safety Risk Control and Mitigation.
- 2) The SRM process will be applied to:
 - a) Initial designs of systems, organizations, and/or products;
 - b) The development of operational procedures;

c) Hazards that are identified in the safety assurance functions (described in Component 3.0, B); and

d) Planned changes to the operational processes.

3) The service provider will establish feedback loops between assurance functions described in Process 3.1.1, B to evaluate the effectiveness of safety risk controls.

- 4) The Service provider will define a process for risk acceptance that:
 - a) Defines acceptable and unacceptable levels of safety risk.
 - b) Establishes descriptions for:
 - (1) Severity levels, and
 - (2) Likelihood levels.

c) The service provider will define specific levels of management that can make safety risk acceptance decisions.

d) The service provider will define acceptable risk for hazards that will exist in the



Element 2.2 Risk Assessment and Control

Process 2.2.1 Analyze Safety Risk

A) **Performance Objective**: The service provider will determine and analyze the severity and likelihood of potential events associated with identified hazards and <u>identied</u> factors associated with unacceptable levels of severity or likelihood.

B) Design Expectations:

- 1) The safety risk analysis process will include:
 - a) Existing safety risk controls;
 - b) Triggering mechanisms; and;

c) Safety risk of reasonably likely outcomes from the existence of a hazard, to include estimation of the:

- (1) Likelihood; and
- (2) Severity.

(3) Risk likelihood and severity may be expressed in quantitative or qualitative terms.

Process 2.2.2 Assess Safety Risk

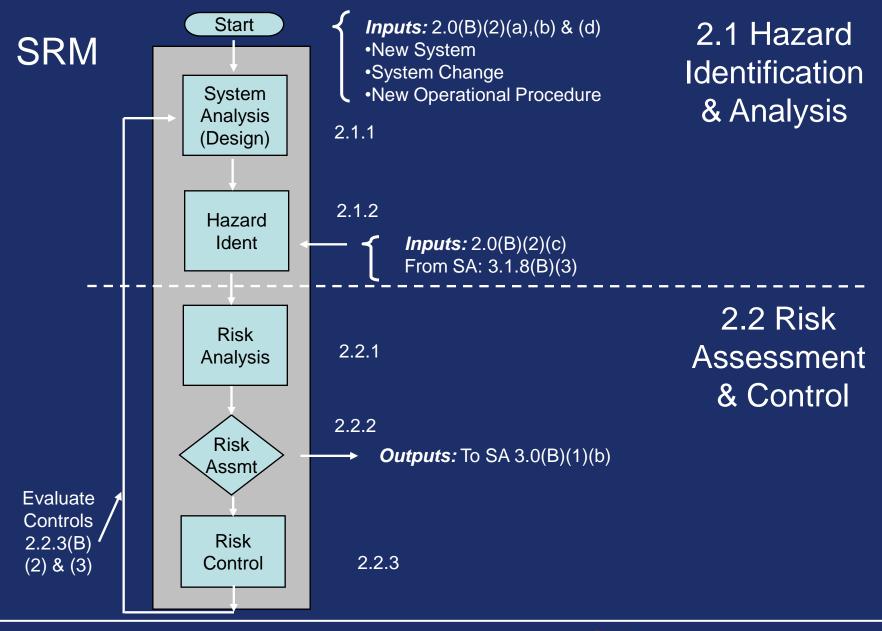
A) **Performance Objective**: The service provider will assess each identified hazard and define risk acceptance procedures and levels of management that can make safety risk acceptance decisions.

B) Design Expectations:

Each hazard will be assessed for its safety risk acceptability using the safety risk acceptance process described in Component 2.0 B) 4).

Process 2.2.3 Control/Mitigate Safety Risk

A) **Performance Objective**: The service provider will design and implement a risk control for each identified hazard for which there is an unacceptable risk to reduce the potential for death, serious physical harm, or damage to equipment or property to acceptable levels. For each Risk Control the residual or substitute risk will be analyzed before implementation.



Basic Safety Concepts



Element 3.1 Safety Performance Monitoring and Measurement

Process 3.1.1 Continuous Monitoring

A) **Performance Objective**: The service provider will monitor operational data, including products and services received from contractors, to identify hazards, measure the effectiveness of safety risk controls, and assess system performance.

B) Design Expectations:

1) The service provider will monitor operational data (e.g., duty logs, crew reports, work cards, process sheets, and reports from the employee safety feedback system specified in Process 3.1.6) to:

- a) Determine conformity with safety risk controls (described in Process 2.2.3);
- b) Measure the effectiveness of safety risk controls (described in Process 2.2.3);
- c) Assess system performance; and
- d) Identify hazards.

2) The service provider will monitor products and services received from subcontractors.

Process 3.1.2 Internal Audits by Operational Departments

A) **Performance Objective**: The service provider will perform regularly scheduled internal audits of operational processes, including those performed by contractors, to determine the performance and effectiveness of risk controls.

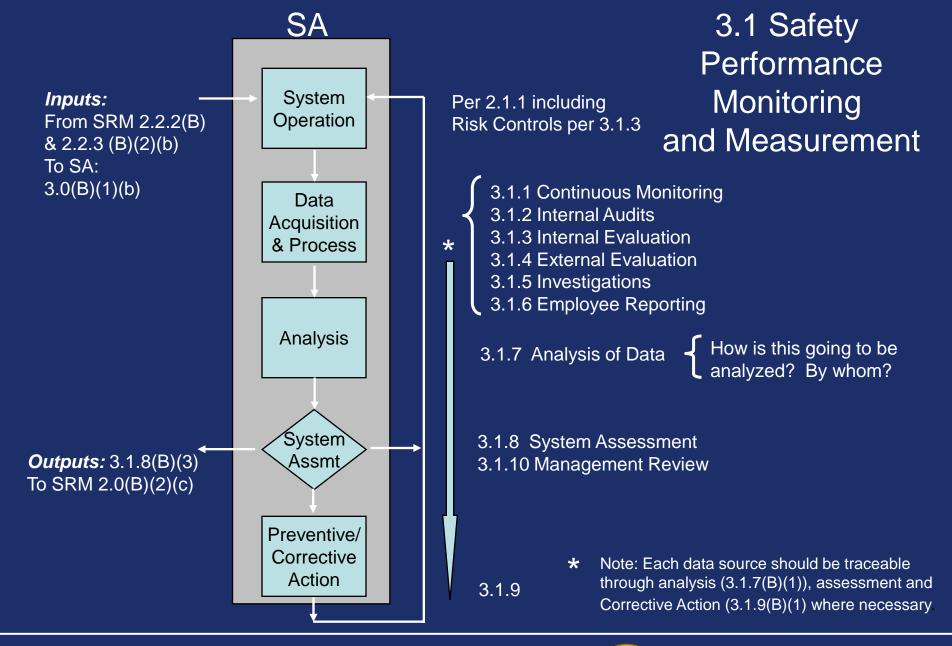
B) Design Expectations:

1) Line management of operational departments will ensure that regular internal audits of safety-related functions of the organization's operational processes (production system) are conducted. This obligation will extend to any subcontractors that they may use to accomplish those functions. (Note: The Internal Audit is a primary means of output measurement under Component 1.0, B, 3) c) and 4) e)).

- 2) Line management will ensure that regular audits are conducted to:
 - a) Determine conformity with safety risk controls; and
 - b) Assess performance of safety risk controls.
- 3) Planning of the audits program will take into account:











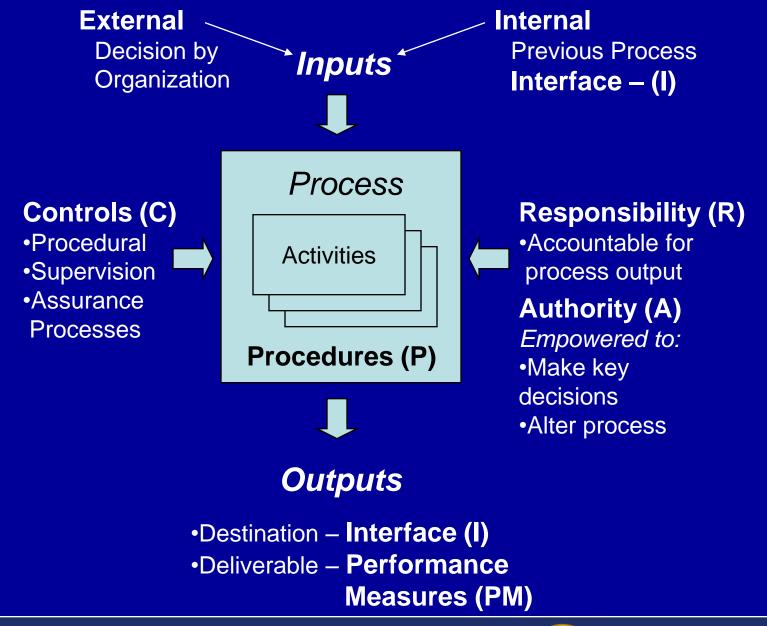
SAFETY MANAGEMENT SYSTEM (SMS) ASSURANCE GUIDE

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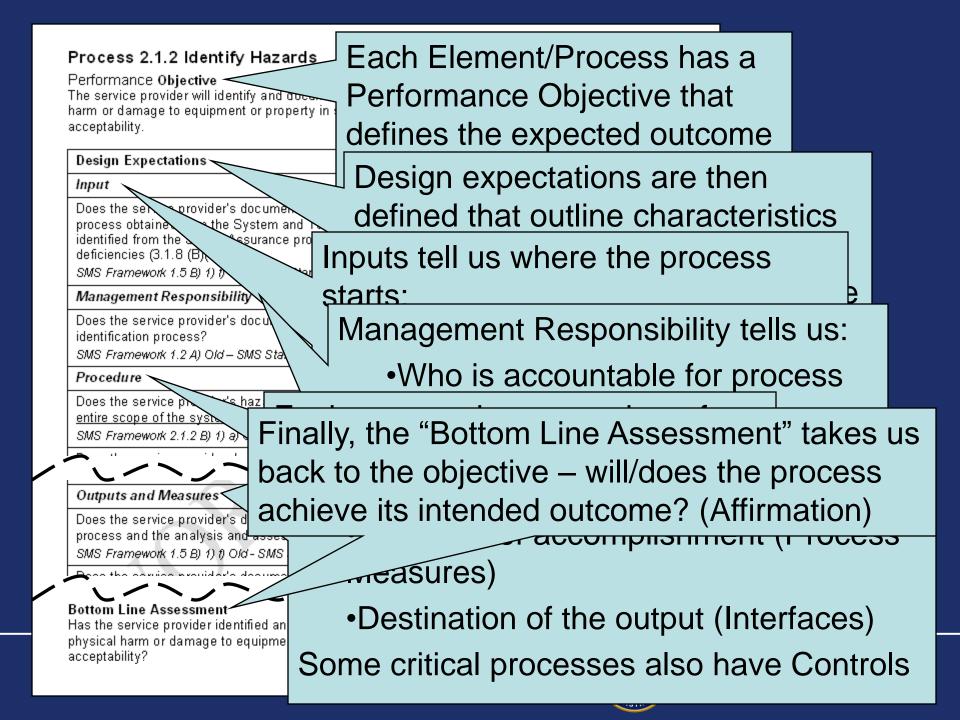
Voluntary Implementation of Service Provider SMS Programs

Federal Aviation Administration









Process 3.1.4 External Auditing of the SMS

Performance Objective

The service provider will include the results of audits performed by oversight organizations in its analysis of data.

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Design Expectations	
Input	
Does the service provider's doct obtained from the Risk Control/N agencies?	umentation identify inputs (interfaces) for the External Auditing process Aitigation process (2.2.3) and from the FAA and/or other external
SMS Framework 1.5 B) 1) f) Old – S	IMS Standard (I)
Management Responsibility	
Does the service provider's doct external auditing process? SMS Framework 1.2 A) Old – SMS	umentation clearly identify who is responsible for the quality of the
Procedure	
	documentation that ensures it includes the <u>results</u> of oversight ses conducted under SMS Process 3.1.7? SMS Standard 6.3.4 (P/I)
Outputs and Measures	
	umentation include the identification of <u>interfaces</u> between the External process (3.1.7) and the FAA and/or other external agencies? SMS Standard 5.3.5.4, and 5.5.(1)
Does the service provider's doct objectives and expectations? M expectations (outputs) of the ext	umentation include methods to periodically measure performance leasures (or objective evidence) should validate conformance to
Controls	
	e procedures are followed for safety related operations and activities? and maintain supervisory and operational controls. 4.7 (C)
the effectiveness of the external compliance with current safety r	eir periodic review of supervisory and operational controls, to ensure auditing process? Controls should be used to identify and maintain elated, regulatory, and other requirements. 1.10 A) & B) Old – SMS Standard 4.9.B.2.b (C)

Has the service provider included the results of audits performed by oversight organizations in its



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71	Element 1.1 Safety Policy										
72	Performance Objective										
	Top Management will define the service										
73	provider's safety policy and convey the expectations and objectives to its employees.										
	Design Expectations										
74											
75	Management Accountability										
70	Does top management define the service										
76	provider's safety policy? SMS Framework 1.1 B) 1) Old – SMS Standard										
77	4.2.A (P/R/A)										
78	Procedure										
10	Does the service provider's safety policy include										
79	the following— (P)										
80	A commitment to implement SMS?										
	SMS Framework 1.1 B) 2) a) Old – SMS							1			
81	Standard 4.2.B.1 (P)										
	A commitment to continually improving the										
82	level of safety? SMS Framework 1.1 B) 2) b) Old – SMS										
83	Standard 4.2.B.2 (P)										
	A commitment to the management of safety										
84	risk?										
0.5	SMS Framework 1.1 B) 3) c) Old – SMS										
85	Standard 4.2.8.3 (P)							1			
86	A commitment to comply with all applicable regulatory requirements?										1
00	SMS Framework 1.1 B) 4) d) Old – SMS					I	I	I	I		
87	Standard 4.2.B.4 (P)										
	A commitment to encourage employees to										
M	♦ ► ► Sheet1 Sheet2 Sheet3 /	-				•	,				



AC XX-XX ("120-XX") Voluntary Implementation of SMS

- Implementation process to go with AC 120-92
- Similar to ICAO and TC (Canada) processes
- Will be a stand-alone Implementation Guide until formal program is approved or rules are issued



Interim Guidance for Level 1

- Based on feedback from SMSPP
- Will form core of new Implementation Guide



What's coming

- Implementation Guide
- SMS Guidebook
- AC 120-92A
- Safety Attribute Inspection Tool



Reengineering of Tools and Development of Guidance

- Effort to simplify assessment tools
- Systemic process flow
- Each question analyzed for interpretive problems
- Based on SMSPP experience
- Guidance will be combined into Development Guidance (DG) sections in SMS Guidebooks

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