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Societal security — Guideline for incident preparedness and operational continuity management

Sécurité sociétale — Lignes directrices pour être préparé à un incident et gestion de continuité opérationnelle



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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

In other circumstances, particularly when there is an urgent market requirement for such documents, a technical committee may decide to publish other types of normative document:

- an ISO Publicly Available Specification (ISO/PAS) represents an agreement between technical experts in an ISO working group and is accepted for publication if it is approved by more than 50 % of the members of the parent committee casting a vote;
- an ISO Technical Specification (ISO/TS) represents an agreement between the members of a technical committee and is accepted for publication if it is approved by 2/3 of the members of the committee casting a vote.

An ISO/PAS or ISO/TS is reviewed after three years in order to decide whether it will be confirmed for a further three years, revised to become an International Standard, or withdrawn. If the ISO/PAS or ISO/TS is confirmed, it is reviewed again after a further three years, at which time it must either be transformed into an International Standard or be withdrawn.

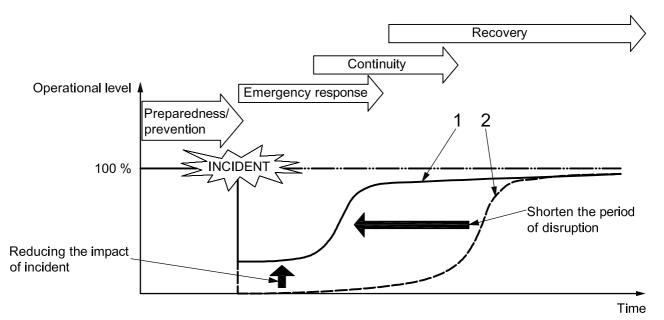
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ISO/PAS 22399 was prepared by Technical Committee ISO/TC 223, *Societal security*. It includes parts of *NFPA 1600:2004*, *BS 25999-1:2006*, *HB 221:2004*, *INS 24001:2007* and the compiled work of the *Japanese Industrial Standards Committee*.

Introduction

This incident preparedness and operational continuity guideline establishes the process, principles and terminology of incident preparedness and operational (business) continuity management (IPOCM) within the context of societal security. The purpose of this guideline is to provide a basis for understanding, developing and implementing incident preparedness and operational continuity within an organization and to provide confidence in organization-to-community, business-to-business and organization-to-customer/client dealings. The guideline is a tool to allow public or private organizations to consider the factors and steps necessary to prepare for an unintentionally, intentionally, or naturally caused incident (disruption, emergency, crisis or disaster) so that it can manage and survive the incident and take the appropriate actions to help ensure the organization's continued viability. It also enables the organization to measure its IPOCM capability in a consistent and recognized manner. This guideline provides a generic framework applicable to all types and sizes of organizations enabling consideration of diverse geographical, cultural, economic, national, political and social conditions.

Interested parties and stakeholders require that organizations proactively prepare for potential incidents and disruptions in order to avoid suspension of critical operations and services, or if operations and services are disrupted, that they resume operations and services as rapidly as required by those who depend on them, as shown in Figure 1. IPOCM is a holistic management process that identifies potential impacts that threaten an organization and provides a framework for minimizing their effect.



Key

1 after introduction implementation of IPOCM

2 before introduction implementation of IPOCM

Figure 1 — Concept of incident preparedness and IPOCM

This Publicly Available Specification provides a comprehensive set of controls based on IPOCM best practice and covers the whole IPOCM lifecycle. It is intended for use by anyone with responsibility for public or private sector organization operations, from directors and executives through all levels of the organization; from those with a single site to those with a global presence; from small and medium enterprises (SMEs) to organizations employing thousands of people. It is therefore applicable to anybody who holds responsibility for any operation, and thus the continuity of that operation. For purposes of this guide, operational continuity is the more general term for business continuity and is used to emphasize relevance to all types of organizations in the public and private sectors.

This guideline details integrated planning and management processes that proactively help organizations to

- understand the environment within which the organization operates, the existence of constraints, and threats to the organization that could result in a significant disruption;
- quantify the impact of a disruption on critical operational (business) functions and processes;
- determine the parts of the operations and business that are critical to its short- and long-term success;
- identify the infrastructure and resources required to enable the organization to continue to operate at a minimum acceptable level;
- document the key resources, infrastructure, tasks and responsibilities, required to support these critical operational functions in the event of a disruption;
- establish processes that ensure the information remains current and relevant to the changing risk and operational environments;
- ensure that relevant employees, customers, suppliers and other stakeholders are aware of the preparedness and continuity arrangements and, where appropriate, have confidence in their application;
- implement solutions accordingly and provide for their continual improvement.

It is important to recognize that effective IPOCM requires a fundamental cultural change within the organization including an acceptance of uncertainty and imperfection. All levels of an organization need to appreciate that risk is inherent in every decision and activity, and that a proportion of this risk has the potential to create disruption. People at all levels of an organization, therefore, need to consider how they will manage such disruptions to their activities.

This IPOCM guideline enables a public or private sector organization to assess and manage risk with the goal of assuring organizational resilience and long-term performance. It does not prescribe any particular model for application. There are various recognized models and methodologies which weave incident preparedness and operational continuity decision-making into the fabric of an organization's overall operational and business practices, making the organization more efficient, more competitive, and better able to meet important challenges. This guideline provides a set of problem identification and problem-solving tools that can be implemented by any organization in many different ways, depending on its activities and needs. By incorporating a dynamic systematic risk-based process into incident and continuity management, organizations can make informed decisions tailored to their resources. The model chosen should instill an organizational culture that drives continual improvement.

Typically, management models include several common elements: policy, planning, implementation and operation, performance assessment, improvement and management review. This Publicly Available Specification provides guidance on addressing these common elements when developing and implementing a management model that addresses the specific needs of the organization and its place in the community.

Whichever management model or methodology is chosen, the full set of IPOCM actions should be adopted. IPOCM is directly linked to organizational governance and establishes good management practice. IPOCM establishes a strategic and operational framework to implement, proactively, an organization's resilience to disruption, interruption, or loss in supplying its products and services. It should not be a purely reactive measure taken after an incident has occurred. IPOCM requires planning across many facets of an organization; therefore its resilience depends equally on its management and operational staff, as well as technology, and requires a holistic approach to be taken in establishing the IPOCM model or methodology.

The adoption and implementation of a range of IPOCM techniques in a systematic manner can contribute to optimal outcomes for all interested and affected parties. However, adoption of this guideline will not itself guarantee optimal preparedness and continuity outcomes. In order to achieve preparedness and continuity objectives, the incident preparedness and operational continuity program should encourage organizations to consider implementation of the best available practices, techniques, and technologies, where appropriate and where economically viable. The cost-effectiveness of such practices, techniques, and technologies should be taken fully into account.

IPOCM requires the coordination and collaboration of many different entities in the public and private sectors (such as government and public authorities at various levels, business and industry, non-governmental organizations and individual citizens). Each of these entities has its own focus, unique missions and responsibilities, varied resources and capabilities, and operating principles and procedures. It should be recognized that the key IPOCM program elements relate to and interact with the functions and interests of different entities that may be involved in an incident. Therefore, the key program areas should be considered within the context of all the entities impacted and their relationship to the IPOCM program.

An organization's response to risks, which aims at minimizing their impacts and reducing social loss, should be promoted and recognized as its social responsibility. When a disruptive incident occurs, an organization should understand that cooperation with other organizations in allocating human and physical resources is essential for its own operational continuity because resources required for emergency response and restoration may be scarce or not optimally distributed. An organization should make an active contribution to community through a cooperative effort with citizens, local governments, etc. by participating in supportive activities to rescue human lives and to offer supplies. It is also necessary for an organization to collaborate and cooperate with the first responder community and its stakeholders and partners in human and physical aspects.

An organization may chose to limit the scope of their implementation of the guideline elements by restricting its application to specific products, services or one or more geographic locations. Any such limitation in scope should be documented.

It should be noted that this guideline does not establish absolute requirements for incident preparedness and operational continuity performance beyond commitments, in the policy statement, to comply with applicable legal requirements and with other requirements to which the organization subscribes, proactive risk and incident/disruption prevention, and to continual improvement. This guideline has adopted a system for continual improvement, but it is not intended to be used as third-party certification/registration criteria.

Societal security — Guideline for incident preparedness and operational continuity management

1 Scope

This guideline provides general guidance for an organization — private, governmental, and non-governmental organizations — to develop its own specific performance criteria for incident preparedness and operational continuity, and design an appropriate management system. It provides a basis for understanding, developing and implementing continuity of operations and services within an organization and to provide confidence in business, community, customer, first responder and organizational interactions. It also enables the organization to measure its resilience in a consistent and recognized manner.

This guideline is applicable to all sizes of public or private organizations engaged in providing products, processes, or services that wishes to:

- understand the overall context within which the organization operates;
- identify critical objectives;
- understand barriers, risks, and disruptions that may impede critical objectives;
- evaluate residual risk and risk tolerance to understand outcomes of controls and mitigation strategies;
- plan how an organization can continue to achieve its objectives should a disruptive incident occur;
- develop incident and emergency response, continuity response and recovery response procedures;
- define roles and responsibilities, and resources to respond to an incident;
- meet compliance with applicable legal, regulatory, and other requirements;
- provide mutual and community assistance;
- interface with first responders and the media;
- promote a cultural change within the organization that recognizes that risk is inherent in every decision and activity, and must be effectively managed.

This guideline presents the general principles and elements for incident preparedness and operational continuity of an organization. The extent of the application will depend on factors such as the policy of the organization, the nature of its activities, products and services, and the location where and the conditions under which it functions.

The scope of this guideline, however, excludes specific emergency response activities following an incident, such as disaster relief and social infrastructure recovery that are primarily to be performed by the public sector in accordance with relevant legislation. It is important, however, that coordination with these activities be maintained and documented.