

UNICEF ISMS

(Information Security Management System)

Executive Overview

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Purpose

- **Key Objectives**

- **Safeguard sensitive information:** Protecting vital data such as child protection records, staff information, and beneficiary details, which are central to UNICEF's mission.
- **Maintain confidentiality, integrity, and availability (CIA):** Ensuring that sensitive information is only accessible to authorized personnel (confidentiality), is accurate and trustworthy (integrity), and is available when needed (availability).
- **Support compliance with global data privacy laws:** Ensuring UNICEF's data practices meet the requirements of international regulations like the GDPR (General Data Protection Regulation), HIPAA (Health Insurance Portability and Accountability Act), and others that govern data privacy.
- **Ensure operational continuity:** Protecting against potential threats to UNICEF's ability to function, especially in crisis or conflict areas, by managing risks effectively and ensuring continuity of essential services.

Scope

- **Global Coverage**

- **Headquarters:** The central hub in New York plays a strategic role in managing global operations, requiring a robust ISMS to oversee global information security practices.
- **Regional Offices:** With over 190 country offices, UNICEF is actively managing field programs worldwide, many in high-risk environments. The ISMS ensures that security is consistent across these diverse locations.
- **Partnerships:** The system extends to secure collaboration with governments, NGOs, and private sector organizations, ensuring that sensitive data shared between these partners is protected.
- **Assets:** The ISMS covers a wide range of assets, including:
 - **Hardware:** Devices, servers, networking equipment used across global locations.
 - **Software:** The operating systems, applications (SAP, Office 365, AWS), and specialized security software used to protect UNICEF's data.
 - **Data:** The critical data managed by UNICEF, such as child protection information, health records, and financial data, all of which must be protected.
 - **Physical Locations:** Data centers, offices, and field locations globally are all part of the ISMS scope, ensuring physical security alongside cyber protection.

Assets

Hardware

- **Servers:** Hosting sensitive data and running applications.
- **Workstations and mobile devices:** Used by staff globally to access UNICEF's systems and data.
- **Networking infrastructure:** Routers, firewalls, and other equipment ensuring secure connectivity.

Software

- **Operating Systems:** Critical to system stability and security.
- **Applications:** SAP (for resource management), Office 365, and AWS, that store and process data.
- **Security software:** Solutions used to protect against malware, intrusion, data loss, and other threats.

Data

- **Child protection data:** Personal and sensitive information on children in need.
- **Health and beneficiary data:** Medical records, treatment plans, and other health-related data of children & families.
- **Financial data:** UNICEF's financial transactions, budgets, and donor information.

Physical Locations

- **Headquarters and regional offices:** Centralized and distributed locations around the world.
- **Field offices:** Remote located or high-risk regions, in conflict zones, where physical security measures are crucial.
- **Mobile units:** Deployed in crisis situations, requiring secure, portable information systems.

Compliance

- **Key Regulations**

- **GDPR:** Ensures UNICEF complies with European data privacy laws regarding the processing of personal data of EU citizens, which impacts all UNICEF operations globally due to the international scope of the organization.
- **UNICEF's Data Protection Policy:** An internal set of guidelines and standards governing how data is handled, ensuring that practices align with both internal policies and external regulations.
- **ISO/IEC 27001:** The internationally recognized standard for an Information Security Management System, ensuring that UNICEF's security practices align with global best practices for managing information security.
- **UN Security Council Resolutions:** These are especially important in conflict zones or areas with heightened risks, ensuring that UNICEF complies with international regulations in these sensitive regions.
- **Other Regional Regulations:** Local laws that may include HIPAA (for healthcare data), ENS (Spanish Data Security Law), and various national data privacy laws, ensuring UNICEF's data protection practices are compliant with regional laws worldwide.

Exclusions

Third-party Vendor Data

- Data managed by external vendors or partners that do not have direct access to UNICEF's critical systems. These are excluded from the ISMS, but their security practices must still be monitored and assessed.

Financial Transactions

- Transactions managed externally, such as those through banks or financial institutions, are excluded from the ISMS as these institutions have their own regulatory and security obligations.

Exceptions

- Clear boundaries are set for these excluded areas to avoid ambiguity, ensuring both UNICEF and external parties understand their roles and responsibilities regarding information security.

Risk Management

- **Key Processes**

- **Risk Identification:** Ongoing efforts to identify potential security risks across UNICEF's offices and global operations. This could involve analyzing emerging threats or assessing vulnerabilities in the field.
- **Risk Assessment:** Regular audits, evaluations, and assessments of the organization's information systems to understand potential weaknesses and prioritize areas for improvement.
- **Mitigation:** Proactive actions are taken to address identified risks, including the implementation of technical controls, policies, and procedures to prevent or reduce the impact of security incidents.
- **Monitoring:** Continuous vigilance in tracking the security environment, using tools and techniques to identify new threats as they emerge, and adapting security practices to mitigate evolving risks.

Incident Response and Business Continuity

Incident Response Protocol

Defined steps

A clear and structured process for addressing and responding to data breaches or security incidents. This includes identifying the scope of the breach, containing it, and initiating recovery actions.

Internal communication

Ensuring all relevant stakeholders within UNICEF are informed of incidents and have clear instructions on how to respond.

External notifications

If required, regulatory bodies, affected individuals, and partners are notified to comply with legal obligations and manage any fallout from an incident.

Business Continuity

Disaster Recovery Plans

Systems in place to ensure data is backed up, and services can be restored quickly after an incident. This includes having redundant data storage and recovery systems.

Operational Continuity

Ensures that core operations continue without disruption even during a crisis, especially in field operations or when working in conflict zones.

Key Findings

- **Strengths:**

- Comprehensive compliance framework: UNICEF has a robust system for meeting global and regional data privacy and security standards.
- Integrated risk management and incident response: A well-established process for identifying, assessing, and responding to security risks across the organization.
- Dedicated staff: A skilled and focused team responsible for ISMS implementation and management.

- **Challenges:**

- Security in remote/conflict zones: Ensuring security in volatile environments remains a constant challenge, requiring flexibility and adaptability.
- Balancing security and flexibility: In the field, particularly in remote offices, there is often a need to balance strict security measures with operational needs and flexibility.
- Third-party vendor security: Ensuring that vendors who handle sensitive data comply with the same security standards as UNICEF.

Recommendations

- **Enhance Security Training:** Ongoing, targeted security awareness training for staff, with a focus on staff in field offices and remote locations, ensuring they are equipped to recognize and mitigate security threats.
- **Strengthen Third-Party Security:** Implement more rigorous vendor assessments and continuous monitoring to ensure external partners meet high security standards.
- **Improve Field Office Security:** Adapt security protocols to the unique challenges of high-risk environments, such as disaster recovery plans, and better physical security measures in conflict zones.
- **Regular Security Audits:** Conduct bi-annual security audits to ensure that risks are being managed proactively and that emerging threats are addressed promptly.
- **Invest in Advanced Threat Detection:** Leverage modern technologies like AI and machine learning for real-time threat detection, enabling faster responses to potential breaches and minimizing damage.

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Thank you for
your time