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SAMAC

**The mapping of SAMAC to/from ISO/IEC 19770-1:2017
according to ISO/IEC 19770-8**

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1 Foreword

This document describe the relationships between ISO/IEC 19770-1:2017 and SAMAC (Association of Standardization for IT Asset Management Assessment & Certification) IT Asset Management Standard Ver.1.0.

2 Introduction

2.1 About SAMAC and the Software Asset Management (SAM) Standard

The operations of SAMAC (<http://www.samac.or.jp/>), a non-profit organization established to promote the adoption of proper software asset management practices, are listed below.

- Operations to evaluate the degree to which IT asset management has been adopted in organizations such as corporations and public institutions (evaluation of maturity)
- Operations such as providing training, certification standards, and other services for businesses and consultants that provide support for building structures for IT asset management, and development in areas such as certification and certification management
- Various operations as needed for the proper promotion of adoption of software asset management

SAMAC also establishes and operates IT asset management standards and evaluation criteria for use in evaluation of IT asset management. This ITAM Standard has been established in the activities related to these standards. It is intended to serve both as a successor to the management standard of the Software Asset Management Consortium (SAMCon), a non-profit organization that worked to promote the adoption of software asset management in Japan prior to SAMAC, and as a standard conforming to ISO/IEC19770 and related JIS standards.

3 About IT Asset Management (ITAM) Standard

3.1 Background

The development of the management standards in SAMAC can be divided into three main periods. In the beginning, it was the period of the SAM Standard by the Software Asset Management Consortium (SAMCon), the predecessor of SAMAC. Here, consistency with the ISO/IEC 19770-1:2007. Next was the period during which SAMAC continued to revise the SAM standards. Finally, it is time for SAMAC to develop IT asset management standards in response to the major changes in the IT environment and the revision of ISO/IEC 19770-1, to which SAMAC has been contributing its efforts.

(1) Development of the SAM Standard by SAMCon

The Software Asset Management Consortium (SAMCon) was launched on May 20, 2002 for the purpose of organizing various issues and confusions surrounding software asset management in Japanese society and promoting software asset management to enhance a healthy IT environment in an organization. Many organizations do not necessarily have proper software asset management in place, although the environments surrounding organizations such as corporations have experienced significant changes, such as an increase in penetration rates of PCs, increasing use of network, and openness. One of the reasons for this is the lack of well-established management methods for software assets. Therefore, SAMCon has put an effort into establishment of SAM Standard to provide a management guideline for organizations interested in SAM implementation (“Software Asset Management Standard Ver1.0” on October 31, 2002). After that, Software Asset Management Evaluation Standard was established to confirm the management level and set goals in terms of SAM (“Software Asset Management Evaluation Standard Ver1.0” on November 19, 2013). Furthermore, revisions were made to reflect the contents of “ISO/IEC 19770-1,” the international standard for SAM, which was established and published jointly by the International Organization for Standardization (ISO) and International Electrotechnical Commission (IEC) in May 2006. (“SAM Standard Ver2.0” on November 27, 2007 and “SAM Evaluation Standard Ver2.0” on April 17, 2008).

(2) Development of the SAM Standard by SAMAC

In 2010, SAMCon was positively dissolved and SAMAC took over the establishment of SAM-related standards, on which SAMCon had been working. With consideration to the use of standard by SAM evaluation businesses, changes in environment surrounding SAM, and the latest developments, SAMAC established a new SAM Standard and SAM Evaluation Standard based on existing SAMCon's standards. Since SAMAC succeeded SAMCon's SAM Standard, which had a certain level of market penetration, SAMAC's new standard was named Ver3.0 to avoid confusion. Detailed revisions, Ver3.01 and Ver3.1, were made to Ver3. Due to the revision and publication of "ISO/IEC19770-1" in June 2012, SAMAC reviewed its standards from the overall perspective, such as consistency with the revised ISO/IEC 19770-1, operation status with Ver3, and current situations of the various environments surrounding SAM, and came up with a revision Ver4.1.

(3) Establishment of the ITAM Standard

SAMAC has focused on software assets that were known to be difficult to manage, and has made efforts to promote the appropriate management of software assets in the IT environment by establishing and publishing the SAM Standards. However, in recent years, with the development of IT, the type of IT use has changed significantly, such as the growing cloud services and the increasing of cyber-attacks, making the IT asset management more complex and difficult. In order to respond to these changes, SAMAC has decided to develop not only software asset management, but also IT asset management. As part of this contribution, SAMAC has been instrumental in developing the "ISO/IEC 19770-1:2017 IT Asset Management - Part 1: IT Asset Management Systems Requirements" (JIS X0164:2019) in ISO/IEC SC7WG21, in which SAMAC has been a member of LIESON since 2015. SAMAC has been working on this ITAM Standard for making them effective in practice and consistent with international standards, and has now released them.

3.2 Necessity and Objectives of ITAM

With the progress of IT development, IT assets has become indispensable to the operations of organizations and businesses. Lack of proper management may impact a corporation significantly. In other words, there are a lot of inherent risk factors in terms of IT assets in an organization. In particular, the following are the conceivable risks.

- Accountability cannot be fulfilled.
- Assets may become unavailable if they are not maintained properly.
- Legal issues, such as being sued for copyright infringement, may surface and result in damages such as compensation.
- Legal issues due to the lack of internal management system may surface and result in penalties.
- Public trust may be lost due to the occurrence of legal issues.
- Extra costs may be generated by inefficiencies or by purchasing licenses, devices and IDs of cloud, etc. in excess.
- Appropriate service in terms of the IT use cannot be provided and maintained.
- Security issues may be generated due to the use of inappropriate versions and settings of software, unauthorized service and devices, etc.
- Competitive advantage may be lost or reduced due to inability to use IT assets effectively.

Given the growing importance of risk management in recent years, it is necessary for an organization to implement ITAM from a variety of perspectives in order to respond to various risk.

3.3 Management Standard System

This management standard is composed of the following 15 management areas. The following areas are classified based on the management objectives necessary for ITAM. Each domain is associated with an objective.

- (1) **Fw** Framework: Establishment and maintenance of a framework of ITAM
- (2) **Policy** Policy: Establishment of Policies and Rules of ITAM
- (3) **Plan** Plan: Establishment of Plans of ITAM
- (4) **Sys** System: Establishment of Organizational structure of ITAM
- (5) **Comp** Competency: Establishment and Maintenance of Competencies in ITAM
- (6) **Doc** Document: Management of documents related to ITAM
- (7) **Opr** Operation: Operational Management of ITAM
- (8) **CM** Core Management: Core Management Process of IT assets
- (9) **LM** License Management: License management process of IT assets
- (10) **IS** Information Security: Information Security management process of IT assets
- (11) **Oth** Other Management: Other Management processes of IT assets
- (12) **OS** Outsourcing: Outsourcing and Services related to IT assets
- (13) **MR** Mixed Responsibility: Mixed Responsibility for IT assets
- (14) **Mon** Monitoring: Monitoring for Management system operation status of ITAM
- (15) **Imp** Improvement: Continuous Improvement of the ITAM

3.4 Structure of this standards

The management standards are basically composed of the requirements and implementation guide, each of which consists of the following items.

【Requirements】

- Management Objectives
- Management Requirements
- Control Items

【Implementation guide】

- Implementation guidelines
- Illustrative controls
- Supplementary explanation

(1) Management objectives

Management objectives are the basic elements of implementing ITAM, indicating the tasks that must be completed in order to implement ITAM. In other words, these management objectives must be implemented in order to carry out proper ITAM.

(2) Management requirements

Management requirements are the items needed in order to achieve the management objectives. A management objective can be said to have been achieved only once all of these management requirements are satisfied. The domain to which each management requirement belongs can be checked in the tables below, which are organized by policy (FW 1, FW 2, etc.) and system (SYS 1, SYS 2, etc.).

(3) Control Items

Management items indicate the specific content of management for satisfying each management requirement.

(4) Implementation guidelines

This guideline shows the concept, policy, etc. for the application of this Management Standard and describes the requirements for the application of the relevant standard issues. These are the matters that must be met in the application of this Management Standard.

(5) Illustrative controls

The illustrative controls are examples of specific controls to meet each management requirement/control item. There show the best practices that should be implemented in general to satisfy the management requirements. Since there are various conceivable methods by which management requirements can be satisfied, each organization should choose which methods are appropriate in its own case. This Management Standard describes the content that should be implemented in a standard organization as typically conceived. In addition, this Management Standard is structured to describe the details of the Core Management Process and the License Management Process as the specific examples of illustrative controls in order to introduce them as the specific processes in the ITAM.

(6) Supplementary explanations

Supplementary explanations are provided to assist in the understanding or effective applying of this Management Standard in addition to the above.

(7) Others

① Corresponding clause in ISO/IEC19770-1

This Management Standard has been developed to be consistent with ISO/IEC19770-1:2017. For this reason, this Management Standard shows the corresponding clauses of the international standard ISO/IEC19770-1:2012 in order to make clear the relationship between this Management Standard and the international standard, to assist in implementing software asset management in conformance with ISO/IEC19770-1:2012.

3.5 Concepts of the Use of Management Standards

(1) Risk-control balance

While this Management Standard provides a framework in the form of guidelines as to what kind of ITAM should be employed, each organization needs to decide for itself on its practical content and levels of ITAM, in accordance with its own circumstances. While it is conceivable that decisions on practical content and levels could be based on a variety of factors such as the size of the organization, the complexity of its IT assets use, and organizational policies, basically the organization must implement the most appropriate ITAM based on consideration of the balance between its own risks and controls.

(2) Corresponding to the objectives of the organization

The need for and purpose of ITAM will also differ from organization by organization. Hence, when using this Management Standard, it is necessary to modify and apply the standard to suit the objectives of each organization.

(3) Consideration of application of control items and individual illustrative controls

This standard is divided into two main parts: the "Principle Text" which is a requirement for IT asset management and the Implementation guidelines, etc. which provides information for applying this Management Standard. Specific illustrative controls must be implemented according to the situation of each organization and the objectives of IT asset management. In developing individual control measures, each organization should make decision by referring to illustrative controls. In addition, although the control items describe detailed management requirements, it may be assumed that some control items are not applicable to some organizations and that more should be added. In-light of the above points, when deciding on practical control items each organization, at a minimum, needs to consider points such as the following.

- Consideration of the applying control items to the organization
 - Whether the management items of this Management Standard are suitable to the organization.
 - Whether the management items of this Management Standard are practicable and reasonable.
 - Whether there are other methods that may be substituted, and whether such substitute methods would satisfy the management requirements.
- Consideration of individual illustrative controls
- Consideration of the applying illustrative controls to the organization
 - - Whether the examples of control measures presented in this standard are feasible and reasonable for the control items.
 - - Whether other alternatives are available and whether the control requirements are met by such alternatives.

(4) Importance of development of a management structure

There are various purposes for implementing ITAM, and how to manage them effectively and efficiently is an important factor in establishing appropriate ITAM. Thus, process-oriented management is required instead of the results-oriented management of understanding the actual situation. The quality of the management system itself as a system for preventing problems and self-purification if they do arise, is a major factor behind the success of any type of management. Accordingly, in ITAM it is essential to establish a management structure that effectively allocates the functions of deterrence, prevention, discover, and correction as the basic functions of management.

(5) Scope of ITAM

The subject of IT assets management in this standard are consisted the following,

【IT Assets】

- Digital asset
 - Software asset
 - ◇ Executable software
 - ◇ Non-executable software (fonts, etc.)
 - Digital information content assets (documents, videos, freestanding dictionaries, etc.)
- IT Hardware
 - Physical media (digital assets included in backup media)
 - Physical IT equipment (servers, end-user devices, etc.)
- Licensing of IT assets (license certificates, etc.)
- Contracts for IT assets (contracts, etc.)
- IT asset services (SaaS, hardware maintenance, training, etc.)
- System assets for IT asset management
 - ITAM Systems and Tools
 - Metadata for IT asset management (information on IT assets, information on people and organizations)
- Non-IT assets (people and organizations that require the use and management of IT assets)

4 Mapping Structure Requirements

4.1 19770-1-2017->SAMAC ITAM Standard 1.0

["From" segment] ISO/IEC 19770-1:2017 Information Technology – IT Asset Management – Part 1: IT asset management systems – Requirements			["To" segment]SAMAC IT Asset Management Standard -Version1.0					Comments		
Requirement Area	Requirement	Sub-Requirement	Level 1 area name	Level 2 area name	Level 3 area name	Section # reference	Caption			
4 Context of the organization	4.1 Understanding the organization and its context	N/A	1. Fw ESTABLISHMENT AND MAINTENANCE OF A FRAMEWORK OF ITAM	Fw1 The organization shall understand the organization structure and its situation and identify external and internal issues related to IT asset management.	Fw1(1)	1.Fw1(1)				
					Fw1(2)	1Fw1(2)				
	4.2 Understanding the needs and expectations of stakeholders	N/A		Fw2 Stakeholders' requirements and expectations regarding IT asset management are understood.	Fw2(1)	1Fw2(1)				
				Fw3 The organization shall define the scope of IT asset management.	Fw3(1)	1Fw3(1)				
	4.3 Determining the scope of IT asset management system	N/A		Fw3 The organization shall define the scope of IT asset management.	Fw3(2)	1Fw3(2)				
					Fw4 The organization shall establish management system for IT asset management and mechanism for continuous improvement.	Fw4(1)	1Fw4(1)			
	4.4 IT asset management system	N/A		Fw4 The organization shall establish management system for IT asset management and mechanism for continuous improvement.	Fw4(2)	1Fw4(2)				
					Fw6 The top management shall demonstrate their leadership and commitment to the IT asset management system.	Fw6(1)	1Fw6(1)			
	5 Leadership	5.1 Leadership and commitment		N/A	2. Policy ESTABLISHMENT OF POLICIES AND RULES OF ITAM	Policy1 The organization shall develop, disseminate, and review its IT asset management policies.	Policy1(1)	2.Policy1(1)		
		5.2 Policy		N/A			Policy1(2)	2.Policy1(2)		

["From" segment] ISO/IEC 19770-1:2017 Information Technology – IT Asset Management – Part 1: IT asset management systems – Requirements			["To" segment]SAMAC IT Asset Management Standard -Version1.0					Comments	
Requirement Area	Requirement	Sub-Requirement	Level 1 area name	Level 2 area name	Level 3 area name	Section # reference	Caption		
	5.3 Organizational roles, responsibilities and authorities	N/A	4. Sys ESTABLISHMENT OF ORGANIZATIONAL STRUCTURE OF ITAM	Sys1 The organization has defined roles, assigned responsibilities and authorities, and communicated them in relation to the IT asset management system.	Sys1(1)	4.Sys1(1)			
					Sys1(2)	4.Sys1(2)			
6 Planning	6.1 Actions to address risks and opportunities for the IT asset management system	6.1.1 General	3. Plan ESTABLISHMENT OF PLANS OF ITAM	Plan1 The organization shall develop and implement risk assessment procedures for its IT asset management system.	Plan1(1)	3.Plan1(1)			
					Plan2 The organization has developed objectives for IT asset management and plan to achieve them.	Plan2(9)	3.Plan2(9)		
		6.1.2 IT asset risk assessment		Plan1 The organization shall develop and implement risk assessment procedures for its IT asset management system.	Plan1(2)	3.Plan1(2)			
					Plan1(3)	3.Plan1(3)			
					Plan1(4)	3.Plan1(4)			
		6.1.3 IT asset risk treatment			Plan1(5)	3.Plan1(5)			
		6.2 IT asset management objectives and planning to achieve them		6.2.1 IT asset management operation process specification	Plan2 The organization has developed objectives for IT asset management and plan to achieve them.	Plan2(1)	3.Plan2(1)		
						Plan2(2)	3.Plan2(2)		
				6.2.2 IT asset management objectives for operation processes		Plan2(3)	3.Plan2(3)		
	Plan2(4)		3.Plan2(4)						
	6.2.3 Overall IT asset management objectives		Plan2(5)	3.Plan2(5)					
			Plan2(6)	3.Plan2(6)					
	6.2.4 Planning to	Plan2(7)	3.Plan2(7)						
		Plan2(8)	3.Plan2(8)						

["From" segment] ISO/IEC 19770-1:2017 Information Technology – IT Asset Management – Part 1: IT asset management systems – Requirements			["To" segment]SAMAC IT Asset Management Standard -Version1.0					Comments
Requirement Area	Requirement	Sub-Requirement	Level 1 area name	Level 2 area name	Level 3 area name	Section # reference	Caption	
		achieve IT asset management objectives			Plan2(10)	3.Plan2(10)		
					Plan2(11)	3.Plan2(11)		
					Plan2(12)	3.Plan2(12)		
7 Support	7.1 Resources	N/A	5. Comp ESTABLISHMENT AND MAINTENANCE OF COMPETENCIES IN ITAM	Comp1 The organization shall determine and provide the necessary resources for the IT asset management system.	Comp1(1)	5.Comp1(1)		
	7.2 Competence	N/A		Comp2 The organization shall define the capabilities of personnel involved in the IT asset management system.	Comp2(1)	5.Comp2(1)		
	7.3 Awareness	N/A		Comp3 The organization's personnel understand the policies and roles of the IT asset management system.	Comp3(1)	5.Comp3(1)		
	7.4 Communication	N/A		Comp4 The organization shall determine the necessary internal and external communications related to the IT asset management system.	Comp4(1)	5.Comp4(1)		
	7.5 Information requirements	N/A	1. Fw ESTABLISHMENT AND MAINTENANCE OF A FRAMEWORK OF ITAM	Fw5 The organization shall determine information requirements to support the achievement of the objectives of the IT asset management system.	Fw5(1)	1.Fw5(1)		
	7.6 Documented information	7.6.1 General	6. Doc MANAGEMENT OF DOCUMENTS RELATED TO ITAM	Doc1 The organization has identified the IT asset management system documents.	Doc1(1)	6.Doc1(1)		

["From" segment] ISO/IEC 19770-1:2017 Information Technology – IT Asset Management – Part 1: IT asset management systems – Requirements			["To" segment]SAMAC IT Asset Management Standard -Version1.0					Comments
Requirement Area	Requirement	Sub-Requirement	Level 1 area name	Level 2 area name	Level 3 area name	Section # reference	Caption	
		7.6.2 Traceability of ownership and responsibility		Doc2 The organization shall document ownership and responsibilities for its IT assets.	Doc2(1)	6.Doc2(1)		
		7.6.3 Audit trails of authorizations and execution of authorizations		Doc3 The organization shall document all approvals for IT asset management.	Doc3(1)	6.Doc3(1)		
		7.6.4 Creating and updating		Doc4 The organization shall appropriately establish, update, and manage the information to be documented.	Doc4(1)	6.Doc4(1)		
		7.6.5 Control of documented information		Doc5 The organization shall ensure the confidentiality, availability and integrity of documented information.	Doc5(1)	6.Doc5(1)		
			Doc5(2)		6.Doc5(2)			
			Doc5(3)		6.Doc5(3)			
8 Operation	8.1 Operational planning and control	N/A	7. Opr OPERATIONAL MANAGEMENT OF ITAM	Opr1 The organization shall determine, implements, and manages the necessary processes to implement the IT asset management plan.	Opr1(1)	7.Opr1(1)		
	8.2 Management of change	N/A		Opr2 The organization shall develop and implement procedures to identify, manage, and record planned changes related to the IT asset management system.	Opr2(1)	7.Opr2(1)		
					Opr2(2)	7.Opr2(2)		
					Opr2(3)	7.Opr2(3)		

["From" segment] ISO/IEC 19770-1:2017 Information Technology – IT Asset Management – Part 1: IT asset management systems – Requirements			["To" segment]SAMAC IT Asset Management Standard -Version1.0					Comments
Requirement Area	Requirement	Sub-Requirement	Level 1 area name	Level 2 area name	Level 3 area name	Section # reference	Caption	
	8.3 Core data management	N/A	8. CM CORE MANAGEMENT PROCESS OF IT ASSETS	CM1 The organization shall accurately record the necessary data related to IT assets throughout the life cycle.	CM1(1)	8.CM1(1)		
	8.4 License management	N/A	9. LM LICENSE MANAGEMENT PROCESS OF IT ASSETS	LM1 The organization accurately records, and annually verifies the license requirements for all IT assets within the scope.	LM1(1)	9.LM1(1)		
	8.5 Security management	N/A	10. IS INFORMATION SECURITY MANAGEMENT PROCESS OF IT ASSETS	IS1 The organization shall periodically verify compliance with security requirements for IT assets covered by IT asset management.	IS1(1)	10.IS1(1)		
	8.6 Other processes	N/A	11. Oth OTHER MANAGEMENT PROCESSES OF IT ASSETS	Oth1 The organization shall ensure the achievement of IT asset management objectives for additional processes defined by the organization, as determined in "Plan 2(1)".	Oth1(1)	11.Oth1(1)		
Oth1(2)					11.Oth1(2)			
Oth1(3)					11.Oth1(3)			
Oth1(4)					11.Oth1(4)			
Oth1(5)					11.Oth1(5)			
	8.7 Outsourcing and services	N/A	12. OS OUTSOURCING AND SERVICES RELATED TO IT ASSETS	OS1 When the organization outsources activities that affect IT asset management, it assesses and manages risks.	OS1(1)	12.OS1(1)		
OS1(2)					12.OS1(2)			
OS1(3)					12.OS1(3)			
OS1(4)					12.OS1(4)			
	8.8 Mixed responsibilities between the organization and its personnel	N/A	13. MR MIXED RESPONSIBILITY FOR IT ASSETS	MR1 Where mixed responsibilities exist between the organization and personnel with respect to IT assets, the associated risks	MR1(1)	13.MR1(1)		
MR1(2)					13.MR1(2)			
MR1(3)					13.MR1(3)			

["From" segment] ISO/IEC 19770-1:2017 Information Technology – IT Asset Management – Part 1: IT asset management systems – Requirements			["To" segment] SAMAC IT Asset Management Standard -Version1.0					Comments	
Requirement Area	Requirement	Sub-Requirement	Level 1 area name	Level 2 area name	Level 3 area name	Section # reference	Caption		
				are assessed and managed.	MR1(4)	13.MR1(4)			
9 Performance evaluation	9.1 Monitoring, measurement, analysis and evaluation	N/A	14. Mon MONITORING FOR MANAGEMENT SYSTEM OPERATION STATUS OF ITAM	Mon1 The organization shall monitor, measure, analyze, and evaluate the operating status of IT asset management.	Mon1(1)	14.Mon1(1)			
					Mon1(2)	14.Mon1(2)			
					Mon1(3)	14.Mon1(3)			
					Mon1(4)	14.Mon1(4)			
					Mon1(5)	14.Mon1(5)			
	9.2 Internal audit	9.2.1 General		9.2.2 Audit requirements	Mon2 The organization shall periodically conduct internal audits of the operating conditions of IT asset management.	Mon2(1)	14.Mon2(1)		
						Mon2(2)	14.Mon2(2)		
	9.3 Management review	N/A		N/A	Mon3 The organization shall conduct periodical Management review of the operational status of IT asset management.	Mon3(1)	14.Mon3(1)		
						Mon3(2)	14.Mon3(2)		
						Mon3(3)	14.Mon3(3)		
Mon3(4)			14.Mon3(4)						
10 Improvement	10.1 Nonconformity and corrective action	N/A	15. Imp CONTINUOUS IMPROVEMENT OF THE ITAM	Imp1 The organization shall manage and remediate any exceptions or incidents that occur.	Imp1(1)	15.Imp1(1)			
					Imp1(2)	15.Imp1(2)			
					Imp1(3)	15.Imp1(3)			
	10.2 Preventative action	N/A		Imp2 The organization proactively identifies and assesses potential failures that could impact the performance of IT assets.	Imp2(1)	15.Imp2(1)			
					Imp2(2)	15.Imp2(2)			
	10.3 Continual improvement	N/A		Imp3 The organization shall periodically review and improve its IT asset management system.	Imp3(1)	15.Imp3(1)			

4.2 SAMAC ITAM Standard 1.0->19770-1-2017

["From" segment] SAMAC IT Asset Management Standard -Version1.0					["To" segment] ISO/IEC 19770-1:2017 Information Technology – IT Asset Management – Part 1: IT asset management systems – Requirements			Comments
Level I area name	Level II area name	Level III area name	Section reference #	Caption	Requirement Area	Requirement	Sub-Requirement	
1. Fw ESTABLISHMENT AND MAINTENANCE OF FRAMEWORK OF ITAM			1		4 Context of the organization			
	Fw1	The organization shall understand the organization structure and its situation and identify external and internal issues related to IT asset management.	1.Fw1			4.1 Understanding the organization and its context		
			Fw1(1)	1.Fw1(1)			4.1 Understanding the organization and its context	
			Fw1(2)	1.Fw1(2)			4.1 Understanding the organization and its context	
	Fw2	Stakeholders' requirements and expectations regarding IT asset management are understood.	1.Fw2			4.2 Understanding the needs and expectations of stakeholders		
			Fw2(1)	1.Fw2(1)			4.2 Understanding the needs and expectations of stakeholders	
	Fw3	The organization shall define the scope of IT asset management.	1.Fw3			4.3 Determining the scope of IT asset management system		
			Fw3(1)	1.Fw3(1)			4.3 Determining the scope of IT asset management system	
			Fw3(2)	1.Fw3(2)			4.3 Determining the scope of IT asset management system	
	Fw4	The organization shall establish management system for IT asset management and mechanism for continuous improvement.	1.Fw4			4.4 IT asset management system		
			Fw4(1)	1.Fw4(1)			4.4 IT asset management system	
			Fw4(2)	1.Fw4(2)			4.4 IT asset management system	
	Fw5	The organization shall determine information requirements to support the	1.Fw5			7.5 Information requirements		
			Fw5(1)	1.Fw5(1)			7.5 Information requirements	

["From" segment] SAMAC IT Asset Management Standard -Version1.0					["To" segment] ISO/IEC 19770-1:2017 Information Technology—IT Asset Management— Part 1: IT asset management systems—Requirements			Comments
Level I area name	Level II area name	Level III area name	Section reference #	Caption	Requirement Area	Requirement	Sub-Requirement	
	achievement of the objectives of the IT asset management system.							
	Fw6 The top management shall demonstrate their leadership and commitment to the IT asset management system.		1.Fw6			5.1 Leadership and commitment		
		Fw6(1)	1.Fw6(1)				5.1 Leadership and commitment	
2. Policy ESTABLISHMENT OF POLICIES AND RULES OF ITAM			2		5.2 Policy			
	Policy1 The organization shall develop, disseminate, and review its IT asset management policies.		2.Policy1			5.2 Policy		
		Policy1(1)	2.Policy1(1)				5.2 Policy	
		Policy1(2)	2.Policy1(2)				5.2 Policy	
3. Plan ESTABLISHMENT OF PLANS OF ITAM			3		6 Planning			
	Plan1 The organization shall develop and implement risk assessment procedures for its IT asset management system.		3.Plan1			6.1 Actions to address risks and opportunities for the IT asset management system		
		Plan1(1)	3.Plan1(1)				6.1.1 General	
		Plan1(2)	3.Plan1(2)				6.1.2 IT asset risk assessment	
		Plan1(3)	3.Plan1(3)				6.1.2 IT asset risk assessment	
		Plan1(4)	3.Plan1(4)				6.1.3 IT asset risk treatment	
		Plan1(5)	3.Plan1(5)				6.1.3 IT asset risk treatment	
	Plan2 The organization has developed objectives for IT asset management and plan to achieve them.		3.Plan2			6.2 IT asset management objectives and planning to achieve them		
		Plan2(1)	3.Plan2(1)				6.2.1 IT asset management operation process specification	
		Plan2(2)	3.Plan2(2)				6.2.2 IT asset management objectives for operation processes	
		Plan2(3)	3.Plan2(3)				6.2.2 IT asset management objectives for operation processes	
		Plan2(4)	3.Plan2(4)				6.2.3 Overall IT asset	

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							management objectives	
		Plan2(5)	3.Plan2(5)				6.2.3 Overall IT asset management objectives	
		Plan2(6)	3.Plan2(6)				6.2.3 Overall IT asset management objectives	
		Plan2(7)	3.Plan2(7)				6.2.3 Overall IT asset management objectives	
		Plan2(8)	3.Plan2(8)				6.2.4 Planning to achieve IT asset management objectives	
		Plan2(9)	3.Plan2(9)				6.1.1 General	
		Plan2(10)	3.Plan2(10)				6.2.4 Planning to achieve IT asset management objectives	
		Plan2(11)	3.Plan2(11)				6.2.4 Planning to achieve IT asset management objectives	
		Plan2(12)	3.Plan2(12)				6.2.4 Planning to achieve IT asset management objectives	
4. Sys ESTABLISHMENT OF ORGANIZATIONAL STRUCTURE OF ITAM			4		5.3 Organizational roles, responsibilities and authorities			
	Sys1 The organization has defined roles, assigned responsibilities and authorities, and communicated them in relation to the IT asset management system.		4.Sys1			5.3 Organizational roles, responsibilities and authorities		
		Sys1(1)	4.Sys1(1)				5.3 Organizational roles, responsibilities and authorities	
		Sys1(2)	4.Sys1(2)				5.3 Organizational roles, responsibilities and authorities	
			5		7 Support			
5. Comp ESTABLISHMENT AND MAINTENANCE OF COMPETENCIES IN ITAM	Comp1 The organization shall determine and provide the necessary resources for the IT asset		5.Comp1			7.1 Resources		
		Comp1(1)	5.Comp1(1)				7.1 Resources	

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	management system.							
	Comp2 The organization shall define the capabilities of personnel involved in the IT asset management system.		5.Comp2			7.2 Competence		
		Comp2(1)	5.Comp2(1)				7.2 Competence	
	Comp3 The organization's personnel understand the policies and roles of the IT asset management system.		5.Comp3			7.3 Awareness		
		Comp3(1)	5.Comp3(1)				7.3 Awareness	
	Comp4 The organization shall determine the necessary internal and external communications related to the IT asset management system.		5.Comp4			7.4 Communication		
		Comp4(1)	5.Comp4(1)				7.4 Communication	
6. MANAGEMENT OF DOCUMENTS RELATED TO ITAM	Doc		6		7.6 Documented information			
	Doc1 The organization has identified the IT asset management system documents.		6.Doc1			7.6.1 General		
		Doc1(1)	6.Doc1(1)				7.6.1 General	
	Doc2 The organization shall document ownership and responsibilities for its IT assets.		6.Doc2			7.6.2 Traceability of ownership and responsibility		
		Doc2(1)	6.Doc2(1)				7.6.2 Traceability of ownership and responsibility	
	Doc3 The organization shall document all approvals for IT asset management.		6.Doc3			7.6.3 Audit trails of authorizations and execution of authorizations		
		Doc3(1)	6.Doc3(1)				7.6.3 Audit trails of authorizations and execution of authorizations	
	Doc4 The organization		6.Doc4			7.6.4 Creating and updating		

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	shall appropriately establish, update, and manage the information to be documented.	Doc4(1)	6.Doc4(1)				7.6.4 Creating and updating	
	Doc5 The organization shall ensure the confidentiality, availability and integrity of documented information.		6.Doc5			7.6.5 Control of documented information		
		Doc5(1)	6.Doc5(1)				7.6.5 Control of documented information	
		Doc5(2)	6.Doc5(2)				7.6.5 Control of documented information	
		Doc5(3)	6.Doc5(3)				7.6.5 Control of documented information	
7. OPERATIONAL MANAGEMENT OF ITAM	Opr1 The organization shall determine, implements, and manages the necessary processes to implement the IT asset management plan.		7		8 Operation			
		Opr1(1)	7.Opr1(1)			8.1 Operational planning and control		
	Opr2 The organization shall develop and implement procedures to identify, manage, and record planned changes related to the IT asset management system.		7.Opr2			8.2 Management of change		
		Opr2(1)	7.Opr2(1)				8.2 Management of change	
		Opr2(2)	7.Opr2(2)				8.2 Management of change	
		Opr2(3)	7.Opr2(3)				8.2 Management of change	
			8		8.3 Core data management			
		CM1 The organization shall accurately record the necessary data related to IT assets throughout the life cycle.		8.CM1			8.3 Core data management	
CM1(1)	8.CM1(1)					8.3 Core data management		
9. LM LICENSE MANAGEMENT PROCESS OF IT ASSETS			9		8.4 License management			
	LM1 The organization accurately records, and annually verifies the license requirements		9.LM1			8.4 License management		
		LM1(1)	9.LM1(1)				8.4 License management	

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	for all IT assets within the scope.							
10. INFORMATION SECURITY MANAGEMENT PROCESS OF IT ASSETS			10		8.5 Security management			
	IS1 The organization shall periodically verify compliance with security requirements for IT assets covered by IT asset management.		10.IS1			8.5 Security management		
		IS1(1)	10.IS1(1)				8.5 Security management	
11. OTHER MANAGEMENT PROCESSES OF IT ASSETS			11		8.6 Other processes			
	Oth1 The organization shall ensure the achievement of IT asset management objectives for additional processes defined by the organization, as determined in "Plan 2(1)".		11.Oth1			8.6 Other processes		
		Oth1(1)	11.Oth1(1)				8.6 Other processes	
		Oth1(2)	11.Oth1(2)				8.6 Other processes	
		Oth1(3)	11.Oth1(3)				8.6 Other processes	
		Oth1(4)	11.Oth1(4)				8.6 Other processes	
12. OUTSOURCING AND SERVICES RELATED TO IT ASSETS			12		8.7 Outsourcing and services			
	OS1 When the organization outsources activities that affect IT asset management, it assesses and manages risks		12.OS1			8.7 Outsourcing and services		
		OS1(1)	12.OS1(1)				8.7 Outsourcing and services	
		OS1(2)	12.OS1(2)				8.7 Outsourcing and services	
		OS1(3)	12.OS1(3)				8.7 Outsourcing and services	
13. MIXED RESPONSIBILITY FOR IT ASSETS			13		8.8 Mixed responsibilities between the organization and its personnel			
	MR1 Where mixed responsibilities exist between the organization		13.MR1			8.8 Mixed responsibilities between the organization and its personnel		

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	and personnel with respect to IT assets, the associated risks are assessed and managed.	MR1(1)	13.MR1(1)				8.8 Mixed responsibilities between the organization and its personnel	
		MR1(2)	13.MR1(2)				8.8 Mixed responsibilities between the organization and its personnel	
		MR1(3)	13.MR1(3)				8.8 Mixed responsibilities between the organization and its personnel	
		MR1(4)	13.MR1(4)				8.8 Mixed responsibilities between the organization and its personnel	
14. Monitoring FOR MANAGEMENT SYSTEM OPERATION STATUS OF ITAM			14		9 Performance evaluation			
	Mon1 The organization shall monitor, measure, analyze, and evaluate the operating status of IT asset management.		14.Mon1			9.1 Monitoring, measurement, analysis and evaluation		
		Mon1(1)	14.Mon1(1)				9.1 Monitoring, measurement, analysis and evaluation	
		Mon1(2)	14.Mon1(2)				9.1 Monitoring, measurement, analysis and evaluation	
		Mon1(3)	14.Mon1(3)				9.1 Monitoring, measurement, analysis and evaluation	
		Mon1(4)	14.Mon1(4)				9.1 Monitoring, measurement, analysis and evaluation	
		Mon1(5)	14.Mon1(5)				9.1 Monitoring, measurement, analysis and evaluation	
	Mon2 The organization shall periodically conduct internal audits of the operating conditions of		14.Mon2			9.2 Internal audit		
		Mon2(1)	14.Mon2(1)				9.2.1 General	
		Mon2(2)	14.Mon2(2)				9.2.2 Audit requirements	

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	IT asset management.							
	Mon3 The organization shall conduct periodical Management review of the operational status of IT asset management.		14.Mon3			9.3 Management review		
		Mon3(1)	14.Mon3(1)				9.3 Management review	
		Mon3(2)	14.Mon3(2)				9.3 Management review	
		Mon3(3)	14.Mon3(3)				9.3 Management review	
		Mon3(4)	14.Mon3(4)				9.3 Management review	
15. CONTINUOUS IMPROVEMENT OF THE ITAM	Imp The organization shall manage and remediate any exceptions or incidents that occur.		15		10 Improvement			
		Imp1	15.Imp1			10.1 Nonconformity and corrective action		
		Imp1(1)	15.Imp1(1)				10.1 Nonconformity and corrective action	
		Imp1(2)	15.Imp1(2)				10.1 Nonconformity and corrective action	
		Imp1(3)	15.Imp1(3)				10.1 Nonconformity and corrective action	
	Imp2 The organization proactively identifies and assesses potential failures that could impact the performance of IT assets.		15.Imp2			10.2 Preventative action		
		Imp2(1)	15.Imp2(1)				10.2 Preventative action	
		Imp2(2)	15.Imp2(2)				10.2 Preventative action	
	Imp3 The organization shall periodically review and improve its IT asset management system.		15.Imp3			10.3 Continual improvement		
		Imp3(1)	15.Imp3(1)				10.3 Continual improvement	