

International SAM Standards

Supporting ISO/IEC 19770 standards for Software Asset Management



19770

YOUR SAM BEGINS AT 19770.ORG



International SAM Standards

ISS-N001-v3 – November 2010

Introduction

This white paper gives an overview of ISO/IEC standards for Software Asset Management ('SAM') within the ISO/IEC 19770 series of standards which have been published or are in the process of research or development within ISO/IEC JTC1 SC7 Working Group 21 ('WG21').

The overview is given from two perspectives: (a) in numerical part number sequence; and (b) in logical structure. Note that the part number sequence does not reflect the logical structure, and is explained purely by the sequence in which the different standards have been started.

Much of the development work has been or is being done by sub-groups of WG21 called Development Groups.

contents

Part Number Overview p2
Logical Overview p3

The author is David Bicket, Convener of ISO/IEC JTC1 SC7 WG21. The views expressed are those of the author, and do not necessarily reflect the views of ISO/IEC or of any other organization. Information as of November 2010. Text © David Bicket 2010. Permission granted to distribute or duplicate without charge if attributed.

Part Number Overview

19770-0	This part number is no longer used. This has been renumbered to 19770-5 as ISO no longer allows the use of part number 0.
19770-1	<p>Software asset management processes. Three different generations of this standard need to be recognized:</p> <ul style="list-style-type: none"> • 19770-1:2006. This is the first generation of the SAM process standard, published in 2006, covering 27 different SAM process areas, with conformance requiring achievement of 100% of the stated outcomes. • 19770-1:20xx: Tiered SAM. (This was previously known as 19770-4.) This is the second generation of the SAM process standard, currently in development. It is largely the same as 19770-1:2006, but allows conformance in four stages or tiers, and also allows conformance against objectives and not just outcomes. The BSA SAM Advantage training and qualification program reflects these stages. [David Phillips is Development Group Convener and Editor of the Staged SAM standard.] • 19770-1:20yy: Management system SAM. This is the planned third generation of the SAM process standard, with two significant developments beyond Staged SAM: (a) It will be a full Management System Standard, written in the same common approach as all other ISO and ISO/IEC Management System Standards; and (b) it will include a Process Reference Model allowing it to be assessed for capability/maturity in addition to full conformance. This generation should also be directly usable with proprietary SAM approaches such as the Microsoft SAM Optimization Model.
19770-2	<p>Software Identification Tag. This specifies an XML-based structure with the metadata to manage installed software. It was published in 2009 (ISO/IEC 19770-2:2009). The Development Group Convener is Steve Klos, and the Editor is Krzysztof Baczkiewicz ('Chris').</p> <p>Market uptake of this standard is being actively driven by an IEEE-ISTO not-for-profit organization called TagVault (www.tagvault.org), headed by Steve Klos.</p>
19770-3	<p>Software Entitlement Tag. This specifies an XML-based structure with the metadata to manage software entitlements. This is under development. The Development Group Convener is John Tomeny, and the Editor is Krzysztof Baczkiewicz ('Chris').</p>
19770-4	This part number is no longer used. This was the original number used for the Staged SAM standard, but it has been renumbered to become the revised 19770-1 when it is approved.
19770-5	Overview and Vocabulary. (This was previously known as 19770-0.) This is under development. The Editor is Roger Cummings.
19770-6	<p>Embedded Software Tag. This is similar in concept to the Software Identification Tag (19770-2:2009) but for direct incorporation into embedded software. It is proposed as a New Work Item. The Development Group Convener and proposed Editor is Dr Swarup Mandal.</p>
Adaptability Tag	<p>Adaptability Tag. This is currently being considered. The objective is to create a tag to facilitate the management and use of software which is modifiable or adaptable. Particular use is expected for Free and Open Source Software (FOSS), but not limited to it.</p>

Logical Overview

There are three classes of standards in the ISO/IEC 19770 family of standards. These are:

1. Overview. There is only one overview standard planned, which is ISO/IEC 19770-5. It will provide an overview of existing and proposed standards, providing much similar information to what is contained in this white paper. It will also provide common SAM definitions to be used by the other SAM standards.
2. Process Standards. There is only one process standard shown in the list above, which is ISO/IEC 19770-1, although it will have several evolutionary generations. However, there will ultimately be additional standards in this class, including in particular:
 - Guidance. For example, there could be free-standing standards explaining different approaches to implementation and to meeting conformance requirements
 - Process Model Standards. Process Reference Models ('PRM's), Process Assessment Models ('PAM's), and Process Measurement Frameworks ('PMF's) will need to be defined together with the third generation Management System SAM 19770-1 standard.
3. Metadata Standards. Metadata standards define data structures to facilitate the management of various aspects of software and hardware assets. The scope for these standards is expanding as more needs are recognized and formalized. There also needs to be a strong coordination effort with other Standards Developing Organizations where related standards have been or are being developed, such as for hardware identification, and for Application Programming Interfaces ('API's) for the discovery and use of tags in different environments such as under virtualization. The range of metadata standards currently considered possible includes:
 - Software Identification Tags: 19770-2:2009
 - Software Entitlement Tags: 19770-3
 - Embedded Software Tags: 19770-6
 - Media Tags
 - Device Tags
 - Adaptability Tags

More information on individual topics may be available on the WG21 website at 19770.org.