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**Draft NIST Special Publication 800-126A**

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**SCAP 1.3 Component Specification  
Version Updates**

*An Annex to NIST Special Publication 800-126 Revision 3*

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Harold Booth  
David Waltermire  
Lee Badger  
Melanie Cook  
Stephen D. Quinn  
Karen Scarfone

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C O M P U T E R   S E C U R I T Y

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July 2016



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National Institute of Standards and Technology  
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101

102

### Abstract

103 The Security Content Automation Protocol (SCAP) is a multi-purpose framework of component  
104 specifications that support automated configuration, vulnerability, and patch checking, security  
105 measurement, and technical control compliance activities. The SCAP version 1.3 specification is  
106 defined by the combination of NIST Special Publication (SP) 800-126 Revision 3 and this  
107 document. This document allows the use of particular minor version updates to SCAP 1.3  
108 component specifications and the use of particular Open Vulnerability and Assessment Language  
109 (OVAL) core schema and platform schema versions. Allowing use of these updates and schemas  
110 provides additional functionality for SCAP 1.3 without causing any loss of existing functionality.

111

112

### Keywords

113 Open Vulnerability and Assessment Language (OVAL); security automation; security  
114 configuration; Security Content Automation Protocol (SCAP)

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## 147 **1 Introduction**

148 *Specification versioning* is the process of denoting a revision to a specification by changing its  
149 version number. For example, the Security Content Automation Protocol (SCAP) specification  
150 documents are updated from time to time, and these updates trigger an increase in the SCAP  
151 version number (1.0, 1.1, 1.2, etc.) What makes specification versioning challenging is that there  
152 is no standard convention or terminology for it; each specification imparts different meanings  
153 into its version numbers. For example, moving from version 3.4 to version 3.5 might break  
154 backward compatibility for one specification, add new functionality for another specification,  
155 and simply correct an error in a third specification.

156 This document defines two key terms for SCAP 1.3 component specification versioning: major  
157 and minor version updates. A *major version update* is a revision of a specification that breaks  
158 backward compatibility with the previous revision of the specification in numerous significant  
159 ways. A *minor version update* is a revision of a specification that may add or enhance  
160 functionality, fix bugs, and make other changes from the previous revision, but the changes have  
161 minimal impact, if any, on backward compatibility.

### 162 **1.1 Purpose and Scope**

163 The purpose of this document is to extend the contents of NIST Special Publication (SP) 800-  
164 126 Revision 3 so that SCAP 1.3 is defined by the combination of the two documents. Readers  
165 should be familiar with NIST SP 800-126 Revision 3 before reading this document.

166 This document can only be used to add minor version updates of component specifications  
167 already included in SCAP 1.3 by NIST SP 800-126 Revision 3. Major version updates to SCAP  
168 1.3 component specifications, as well as new component specifications not included in NIST SP  
169 800-126 Revision 3, can only be added to a future version of SCAP as documented in a future  
170 revision of NIST SP 800-126.

171 Each SCAP 1.3 extension specified in this document takes one of two forms. First, it may allow  
172 the use of particular minor version updates to SCAP 1.3 component specifications, or the use of  
173 particular Open Vulnerability and Assessment Language (OVAL) platform schema versions that  
174 work in conjunction with the OVAL 5.11 core schema included in SCAP 1.3. Second, it may  
175 specify one or more requirements for using these updates or OVAL platform schemas in an  
176 SCAP 1.3-conformant manner.

177 This document specifies exactly which component specification minor version updates and  
178 OVAL platform schema versions may be used as part of SCAP 1.3 for several reasons, including  
179 the following:

- 180 • To support the interoperability of SCAP 1.3 tools and content
- 181 • To provide a basis for testing tools to ensure they comply with SCAP 1.3
- 182 • To reduce the burden on SCAP 1.3 tool and content developers by clearly defining all  
183 SCAP 1.3 extensions in a single place

184 While organizations are free to use SCAP 1.3 with any schema or specification that they choose  
185 in any manner they choose, such usage is not considered SCAP 1.3-conformant unless defined as  
186 such in this document or in NIST SP 800-126 Revision 3.

187 The scope of this document is versioning for SCAP 1.3 component specifications only.

## 188 **1.2 Document Structure**

189 The rest of this document consists of the following sections and appendices:

- 190 • Section 2 presents all minor version updates in SCAP 1.3 component specifications that  
191 have been approved for inclusion in SCAP 1.3, along with any corresponding  
192 requirements to be added to SCAP 1.3. This section also lists the criteria used to evaluate  
193 a minor version update for potential inclusion in SCAP 1.3.
- 194 • Section 3 specifies all OVAL platform schemas that have been approved for inclusion in  
195 SCAP 1.3, along with any corresponding requirements to be added to SCAP 1.3. This  
196 section also lists the criteria used to evaluate an OVAL platform schema for potential  
197 inclusion in SCAP 1.3.
- 198 • Section 4 describes the management processes for the document.
- 199 • Appendix A contains a list of acronyms and abbreviations used in the document.
- 200 • Appendix B contains a glossary for selected terms defined in the document.

201



## 2 Minor Version Updates in SCAP 1.3 Component Specifications

This section defines the criteria used to evaluate minor version updates in SCAP 1.3 component specifications for potential inclusion in SCAP 1.3, then lists all such updates that have been approved for inclusion in SCAP 1.3, along with any corresponding requirements added to SCAP 1.3. It also provides the current schema and Schematron file locations corresponding to all SCAP 1.3 component specifications.

### 2.1 Criteria for Potential Inclusion

The following defines the criteria that a minor version update to an SCAP 1.3 component specification and associated requirements must meet before being considered for potential inclusion in this document:

1. One or more of the following must be true:
  - a. The component specification is being revised strictly for bug fix or errata purposes. In other words, the update does not add new functionality or enhance existing functionality.
  - b. The new minor version of the component specification is already being used by tools and/or content.
2. The minor version update and associated requirements must not conflict with any existing SCAP 1.3 requirements. This includes minimizing any negative impact on backward compatibility.

### 2.2 Approved Minor Version Updates and SCAP 1.3 Requirements

The following SCAP 1.3 component specification minor version updates have been approved for inclusion in SCAP 1.3:

- OVAL 5.11.1<sup>1</sup>

See Table 1 for the schema location for the component specification listed above.

As of this writing, no requirements need to be added to SCAP 1.3 to support the approved component specification minor version updates.

### 2.3 Schema and Schematron File Locations

Table 1 lists the schema file locations (and Schematron file locations, when applicable) for the SCAP component specifications.

---

<sup>1</sup> For more information on the changes from OVAL 5.11 to OVAL 5.11.1, see the changelog at <https://github.com/OVALProject/Language/wiki/Changelog>.

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**Table 1: SCAP Schema and Schematron File Locations**

Prefix	Schema Location	Schematron Location (if applicable)
AI	<a href="https://scap.nist.gov/schema/asset-identification/1.1/asset-identification_1.1.0.xsd">https://scap.nist.gov/schema/asset-identification/1.1/asset-identification_1.1.0.xsd</a>	
ARF	<a href="https://scap.nist.gov/schema/asset-reporting-format/1.1/asset-reporting-format_1.1.0.xsd">https://scap.nist.gov/schema/asset-reporting-format/1.1/asset-reporting-format_1.1.0.xsd</a>	Embedded in the schema
CPE Applicability Language	<a href="https://scap.nist.gov/schema/cpe/2.3/cpe-language_2.3.xsd">https://scap.nist.gov/schema/cpe/2.3/cpe-language_2.3.xsd</a>	
CPE Dictionary	<a href="https://scap.nist.gov/schema/cpe/2.3/cpe-dictionary_2.3.xsd">https://scap.nist.gov/schema/cpe/2.3/cpe-dictionary_2.3.xsd</a>	
CPE Dictionary Extension	<a href="https://scap.nist.gov/schema/cpe/2.3/cpe-dictionary-extension_2.3.xsd">https://scap.nist.gov/schema/cpe/2.3/cpe-dictionary-extension_2.3.xsd</a>	
CPE Naming	<a href="https://scap.nist.gov/schema/cpe/2.3/cpe-naming_2.3.xsd">https://scap.nist.gov/schema/cpe/2.3/cpe-naming_2.3.xsd</a>	
OCIL	<a href="https://scap.nist.gov/schema/ocil/2.0/ocil-2.0.xsd">https://scap.nist.gov/schema/ocil/2.0/ocil-2.0.xsd</a>	Embedded in the schema
OVAL 5.11.1 Common Schema	<a href="https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/oval-common-schema.xsd">https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/oval-common-schema.xsd</a>	
OVAL Definitions	<a href="https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/oval-definitions-schema.xsd">https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/oval-definitions-schema.xsd</a>	
OVAL Directives	<a href="https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/oval-directives-schema.xsd">https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/oval-directives-schema.xsd</a>	
OVAL Results	<a href="https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/oval-results-schema.xsd">https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/oval-results-schema.xsd</a>	
OVAL System Characteristics	<a href="https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/oval-system-characteristics-schema.xsd">https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/oval-system-characteristics-schema.xsd</a>	
OVAL Variables	<a href="https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/oval-variables-schema.xsd">https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/oval-variables-schema.xsd</a>	
SCAP constructs	<a href="https://scap.nist.gov/schema/scap/1.2/scap-constructs_1.2.xsd">https://scap.nist.gov/schema/scap/1.2/scap-constructs_1.2.xsd</a>	<a href="https://scap.nist.gov/revision/1.2/scap-schematron-rules.zip">https://scap.nist.gov/revision/1.2/scap-schematron-rules.zip</a>
SCAP source data stream	<a href="https://scap.nist.gov/schema/scap/1.2/scap-source-data-stream_1.2.xsd">https://scap.nist.gov/schema/scap/1.2/scap-source-data-stream_1.2.xsd</a>	
SWID	<a href="http://standards.iso.org/iso/19770/-2/2015-current/schema.xsd">http://standards.iso.org/iso/19770/-2/2015-current/schema.xsd</a>	
TMSAD	<a href="https://scap.nist.gov/schema/tmsad/1.0/tmsad_1.0.xsd">https://scap.nist.gov/schema/tmsad/1.0/tmsad_1.0.xsd</a>	<a href="https://scap.nist.gov/schema/tmsad/1.0/tmsad_1.0.sch">https://scap.nist.gov/schema/tmsad/1.0/tmsad_1.0.sch</a>
XCCDF	<a href="https://scap.nist.gov/schema/xccdf/1.2/xccdf_1.2.xsd">https://scap.nist.gov/schema/xccdf/1.2/xccdf_1.2.xsd</a> (XSD 1.0, where xsd:import statements use absolute URLs), <a href="https://scap.nist.gov/schema/xccdf/1.2/xccdf_1.2.zip">https://scap.nist.gov/schema/xccdf/1.2/xccdf_1.2.zip</a> (complete schema bundle, where xsd:import statements use relative URLs)	<a href="https://scap.nist.gov/schema/xccdf/1.2/xccdf_1.2.sch">https://scap.nist.gov/schema/xccdf/1.2/xccdf_1.2.sch</a>

232

## 233 **3 OVAL Platform Schemas**

234 OVAL version 5.11 introduced a new versioning policy that was a significant change from  
235 previous OVAL versions.<sup>2</sup> OVAL is divided into the Core and Platform Extension languages.  
236 The Core defines the general functionality for OVAL, while each Platform Extension defines  
237 functionality specific to a particular platform, such as an operating system or an application. The  
238 Core and Platform Extensions languages can be updated separately, which provides greater  
239 flexibility. Interoperability is supported by requiring each Platform Extension to be based on a  
240 particular version of the Core.

241 SCAP 1.3 supports the version(s) of the OVAL core schema listed in Section 2 of this document.  
242 As a result, SCAP 1.3 could be extended to support one or more OVAL platform schemas that  
243 are based on a specified version of the OVAL core schema. Each OVAL platform schema has a  
244 composite version number; the first half corresponds to the core schema version it is based on,  
245 and the second half corresponds to the version of the platform schema itself. For example, a  
246 platform schema with version 5.11.1:1.0 would be the original version (1.0) of a platform  
247 schema based on core schema version 5.11.1.

248 This section defines the criteria used to evaluate OVAL platform schema versions that work in  
249 conjunction with SCAP 1.3-conformant OVAL core schema for potential inclusion in SCAP 1.3.  
250 It then lists all OVAL platform schema versions that have been approved for inclusion in SCAP  
251 1.3, along with any corresponding requirements added to SCAP 1.3.

### 252 **3.1 Criteria for Potential Inclusion**

253 The following defines the criteria that an OVAL platform schema version and associated  
254 requirements must meet before being considered for potential inclusion in this document:

- 255 1. The OVAL platform schema version must correspond to an SCAP 1.3-conformant  
256 OVAL core schema version.
- 257 2. The OVAL platform schema version and associated requirements must not conflict with  
258 any existing SCAP 1.3 requirements. This includes preserving full backward  
259 compatibility.
- 260 3. One or more of the following must be true:
  - 261 a. One or more platform vendors are already making significant use of the platform  
262 schema version.
  - 263 b. One or more tool vendors are already making significant use of the platform  
264 schema version.
  - 265 c. Operational organizations that are consuming SCAP 1.3 tools and content are  
266 already making significant use of the platform schema version.
  - 267 d. The platform schema version provides significant benefits, such as offering a  
268 solution for an important use case that previously had no solution.
  - 269 e. SCAP content is available that makes significant use of the platform schema  
270 version.

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<sup>2</sup> <http://ovalproject.github.io/documentation/policy/versioning/>

271 f. The OVAL Board has demonstrated that there are significant benefits to using the  
272 platform schema version in conjunction with the SCAP 1.3 component  
273 specifications.

274 **3.2 Approved OVAL Platform Schema Versions and SCAP 1.3 Requirements**

275 Table 2 lists the OVAL platform schema versions<sup>3</sup> that have been approved for inclusion in  
276 SCAP 1.3.

277 **Table 2: Approved OVAL Platform Schema Versions**

Platform Name	Schema Version	Schema Locations
<b>General</b>		
Independent	5.11.1:1.1	Definitions Schema: <a href="https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/independent-definitions-schema.xsd">https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/independent-definitions-schema.xsd</a> System Characteristics Schema: <a href="https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/independent-system-characteristics-schema.xsd">https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/independent-system-characteristics-schema.xsd</a>
<b>Server/client operating system</b>		
AIX (IBM)	5.11.1:1.0	Definitions Schema: <a href="https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/aix-definitions-schema.xsd">https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/aix-definitions-schema.xsd</a> System Characteristics Schema: <a href="https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/aix-system-characteristics-schema.xsd">https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/aix-system-characteristics-schema.xsd</a>
FreeBSD (The FreeBSD Project)	5.11.1:1.0	Definitions Schema: <a href="https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/freebsd-definitions-schema.xsd">https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/freebsd-definitions-schema.xsd</a> System Characteristics Schema: <a href="https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/freebsd-system-characteristics-schema.xsd">https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/freebsd-system-characteristics-schema.xsd</a>
HP-UX (HP Enterprise)	5.11.1:1.0	Definitions Schema: <a href="https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/hpux-definitions-schema.xsd">https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/hpux-definitions-schema.xsd</a> System Characteristics Schema: <a href="https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/hpux-system-characteristics-schema.xsd">https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/hpux-system-characteristics-schema.xsd</a>

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<sup>3</sup> More information on some OVAL platform schema versions is available at <https://github.com/OVALProject/Language/wiki/Latest>.

Platform Name	Schema Version	Schema Locations
Linux	5.11.1:1.1	Definitions Schema: <a href="https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/linux-definitions-schema.xsd">https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/linux-definitions-schema.xsd</a> System Characteristics Schema: <a href="https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/linux-system-characteristics-schema.xsd">https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/linux-system-characteristics-schema.xsd</a>
MacOS (Apple)	5.11.1:1.1	Definitions Schema: <a href="https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/macos-definitions-schema.xsd">https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/macos-definitions-schema.xsd</a> System Characteristics Schema: <a href="https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/macos-system-characteristics-schema.xsd">https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/macos-system-characteristics-schema.xsd</a>
Solaris (Oracle Corporation)	5.11.1:1.0	Definitions Schema: <a href="https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/solaris-definitions-schema.xsd">https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/solaris-definitions-schema.xsd</a> System Characteristics Schema: <a href="https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/solaris-system-characteristics-schema.xsd">https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/solaris-system-characteristics-schema.xsd</a>
UNIX	5.11.1:1.1	Definitions Schema: <a href="https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/unix-definitions-schema.xsd">https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/unix-definitions-schema.xsd</a> System Characteristics Schema: <a href="https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/unix-system-characteristics-schema.xsd">https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/unix-system-characteristics-schema.xsd</a>
Windows (Microsoft Corporation)	5.11.1:1.1	Definitions Schema: <a href="https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/windows-definitions-schema.xsd">https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/windows-definitions-schema.xsd</a> System Characteristics Schema: <a href="https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/windows-system-characteristics-schema.xsd">https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/windows-system-characteristics-schema.xsd</a>
<b>Hypervisor</b>		
ESX (VMware)	5.11.1:1.0	Definitions Schema: <a href="https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/esx-definitions-schema.xsd">https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/esx-definitions-schema.xsd</a> System Characteristics Schema: <a href="https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/esx-system-characteristics-schema.xsd">https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/esx-system-characteristics-schema.xsd</a>
<b>Mobile operating system</b>		
Android (Google)	5.11.1:1.0	Definitions Schema: <a href="https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/android-definitions-schema.xsd">https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/android-definitions-schema.xsd</a> System Characteristics Schema: <a href="https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/android-system-characteristics-schema.xsd">https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/android-system-characteristics-schema.xsd</a>

Platform Name	Schema Version	Schema Locations
iOS (Apple)	5.11.1:1.1	Definitions Schema: <a href="https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/apple-ios-definitions-schema.xsd">https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/apple-ios-definitions-schema.xsd</a> System Characteristics Schema: <a href="https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/apple-ios-system-characteristics-schema.xsd">https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/apple-ios-system-characteristics-schema.xsd</a>
<b>Networking device operations and configuration</b>		
ASA (Cisco Systems)	5.11.1:1.1	Definitions Schema: <a href="https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/asa-definitions-schema.xsd">https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/asa-definitions-schema.xsd</a> System Characteristics Schema: <a href="https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/asa-system-characteristics-schema.xsd">https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/asa-system-characteristics-schema.xsd</a>
CatOS (Cisco Systems)	5.11.1:1.0	Definitions Schema: <a href="https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/catos-definitions-schema.xsd">https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/catos-definitions-schema.xsd</a> System Characteristics Schema: <a href="https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/catos-system-characteristics-schema.xsd">https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/catos-system-characteristics-schema.xsd</a>
IOS (Cisco Systems)	5.11.1:1.1	Definitions Schema: <a href="https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/ios-definitions-schema.xsd">https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/ios-definitions-schema.xsd</a> System Characteristics Schema: <a href="https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/ios-system-characteristics-schema.xsd">https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/ios-system-characteristics-schema.xsd</a>
IOS-XE (Cisco Systems)	5.11.1:1.1	Definitions Schema: <a href="https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/iosxe-definitions-schema.xsd">https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/iosxe-definitions-schema.xsd</a> System Characteristics Schema: <a href="https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/iosxe-system-characteristics-schema.xsd">https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/iosxe-system-characteristics-schema.xsd</a>
JunOS (Juniper Networks)	5.11.1:1.0	Definitions Schema: <a href="https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/junos-definitions-schema.xsd">https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/junos-definitions-schema.xsd</a> System Characteristics Schema: <a href="https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/junos-system-characteristics-schema.xsd">https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/junos-system-characteristics-schema.xsd</a>
NETCONF (Internet Engineering Task Force [IETF])	5.11.1:1.0	Definitions Schema: <a href="https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/netconf-definitions-schema.xsd">https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/netconf-definitions-schema.xsd</a> System Characteristics Schema: <a href="https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/netconf-system-characteristics-schema.xsd">https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/netconf-system-characteristics-schema.xsd</a>

Platform Name	Schema Version	Schema Locations
PixOS (Cisco Systems)	5.11.1:1.0	Definitions Schema: <a href="https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/pixos-definitions-schema.xsd">https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/pixos-definitions-schema.xsd</a> System Characteristics Schema: <a href="https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/pixos-system-characteristics-schema.xsd">https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/pixos-system-characteristics-schema.xsd</a>
<b>Application</b>		
Apache (The Apache Software Foundation)	5.11.1:1.0	Definitions Schema: <a href="https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/apache-definitions-schema.xsd">https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/apache-definitions-schema.xsd</a> System Characteristics Schema: <a href="https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/apache-system-characteristics-schema.xsd">https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/apache-system-characteristics-schema.xsd</a>
SharePoint (Microsoft Corporation)	5.11.1:1.0	Definitions Schema: <a href="https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/sharepoint-definitions-schema.xsd">https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/sharepoint-definitions-schema.xsd</a> System Characteristics Schema: <a href="https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/sharepoint-system-characteristics-schema.xsd">https://raw.githubusercontent.com/OVALProject/Language/424c1a3708de80292becc5e7a28d14e94a5a74ef/schemas/sharepoint-system-characteristics-schema.xsd</a>

278 As of this writing, no requirements need to be added to SCAP 1.3 to support the approved  
 279 OVAL platform schema versions.

280

**4 Document Management**

282 As explained in Section 1, the combination of this document and NIST SP 800-126 Revision 3  
283 defines the SCAP 1.3 specification. The reason for having two documents is that it allows SCAP  
284 1.3 extensions to be defined in a separate document without having to update and re-release  
285 NIST SP 800-126 Revision 3 itself each time. It is also more convenient for SCAP tool and  
286 content developers to have a separate document that lists only the extensions. The adoption of  
287 extensions will be driven by community needs and feedback, major changes to platforms, and  
288 other trends and events.

289 It is reasonable to expect that this document will be updated more often than NIST SP 800-126  
290 Revision 3, but frequent updates to either document are not anticipated. Each update to either  
291 document may necessitate corresponding changes to NIST IR 7511, which defines the SCAP  
292 Validation Program derived test requirements (DTR).

293



294 **Appendix A—Acronyms and Abbreviations**

295 Selected acronyms and abbreviations used in this document are defined below.

DTR	Derived Test Requirements
FOIA	Freedom of Information Act
IETF	Internet Engineering Task Force
IR	Internal Report
ITL	Information Technology Laboratory
NIST	National Institute of Standards and Technology
OVAL	Open Vulnerability and Assessment Language
SCAP	Security Content Automation Protocol
SP	Special Publication

296

297 **Appendix B—Glossary**

298 Selected terms used in this document are defined below. See the glossary appendix in NIST SP  
299 800-126 Revision 3 for additional definitions.

<b>Major version update</b>	A revision of a specification that breaks backward compatibility with the previous revision of the specification in numerous significant ways.
<b>Minor version update</b>	A revision of a specification that may add or enhance functionality, fix bugs, and make other changes from the previous revision, but the changes have minimal impact, if any, on backward compatibility.
<b>Specification versioning</b>	The process of denoting a revision to a specification by changing its version number.

300