
**Information technology — Specification
for the Extensible Configuration Checklist
Description Format (XCCDF) Version 1.2**

*Technologies de l'information — Spécification de XCCDF (Extensible
Configuration Checklist Description Format) version 1.2*

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Abstract

This report specifies the data model and Extensible Markup Language (XML) representation for the Extensible Configuration Checklist Description Format (XCCDF) Version 1.2. An XCCDF document is a structured collection of security configuration rules for some set of target systems. The XCCDF specification is designed to support information interchange, document generation, organizational and situational tailoring, automated compliance testing, and scoring. The specification also defines a data model and format for storing results of security guidance or checklist testing. The intent of XCCDF is to provide a uniform foundation for expression of security checklists and other configuration guidance, and thereby foster more widespread application of good security practices.

Audience

The primary audience of the XCCDF specification is government and industry security analysts, and security management product developers.

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1. Introduction

1.1 Purpose and Scope

This report defines the specification for the Extensible Configuration Checklist Description Format (XCCDF) version 1.2. The report also defines and explains the requirements that XCCDF 1.2 documents and products (i.e., software) must meet to claim conformance with the specification. This report only applies to XCCDF version 1.2. All other versions are outside the scope of this report.

1.2 Document Structure

The remainder of this report is composed of the following sections and appendices:

- Section 2 provides a list of normative references for the report.
- Section 3 defines selected terms and abbreviations used in the report.
- Section 4 provides the high-level requirements for claiming conformance with the XCCDF version 1.2 specification.
- Section 5 gives an overview of XCCDF and its capabilities.
- Section 6 provides an introduction to the XCCDF data model and details additional requirements and recommendations for XCCDF's use.
- Section 7 discusses XCCDF processing requirements and recommendations.
- Appendix A explains how to convert XCCDF 1.1.4-specific properties to their XCCDF 1.2 counterparts.
- Appendix B provides a change log that documents significant changes to released drafts of this specification. This includes a section-by-section mapping of how the document was reorganized from the previous drafts to this draft. Readers who are familiar with any previous XCCDF versions may find it helpful to review Appendix B first before the rest of the document.

1.3 Document Conventions

The key words “MUST”, “MUST NOT”, “REQUIRED”, “SHALL”, “SHALL NOT”, “SHOULD”, “SHOULD NOT”, “RECOMMENDED”, “MAY”, and “OPTIONAL” in this document are to be interpreted as described in Request for Comment (RFC) 2119 [RFC2119].

Namespace prefixes used in this specification are listed in Table 1.

Table 1: Conventional XML Mappings

Prefix	Namespace	Schema
cpe2	http://cpe.mitre.org/language/2.0	Common Platform Enumeration (CPE) 2.3 Applicability Language
cpe2-dict	http://cpe.mitre.org/dictionary/2.0	CPE 2.3 Dictionary
dc	http://purl.org/dc/elements/1.1/	Simple Dublin Core elements
dsig	http://www.w3.org/2000/09/xmldsig#	Interoperable XML digital signatures
xccdf	http://checklists.nist.gov/xccdf/1.2	XCCDF policy documents
xml	http://www.w3.org/XML/1998/namespace	Common XML attributes
xsd	http://www.w3.org/2001/XMLSchema	XML Schema
xsi	http://www.w3.org/2001/XMLSchema-Instance	XML Schema Instance

2. Normative References

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

[DCES], DCMI (Dublin Core Metadata Initiative), *Dublin Core Metadata Element Set, Version 1.1*, October 2010, available at <<http://dublincore.org/documents/dces/>>

[DCXML], DCMI, *Guidelines for Implementing Dublin Core in XML*, April 2003, available at <<http://dublincore.org/documents/dc-xml-guidelines/>>

[ILSR], IANA, *IANA Language Subtag Registry (ILSR)*, available at <<http://www.iana.org/assignments/language-subtag-registry>>

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[IR7695], NIST, NIST IR 7695, *Common Platform Enumeration: Naming Specification Version 2.3*, August 2011, available at <<http://csrc.nist.gov/publications/PubsNISTIRs.html>>

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[XMLDSIG], W3C, *XML Signature Syntax and Processing (Second Edition)*, June 2008, available at <<http://www.w3.org/TR/xmlsig-core/>>

[XMLNAME], W3C, *Namespaces in XML 1.0 (Third Edition)*, December 2009, available at <<http://www.w3.org/TR/REC-xml-names/>>

[XMLSCHEMA], W3C, *XML Schema Part 2: Datatypes Second Edition*, October 2004, available at <<http://www.w3.org/TR/2004/REC-xmlschema-2-20041028/>>

[XPATH], W3C, *XML Path Language (XPath) Version 1.0*, November 1999, available at <<http://www.w3.org/TR/xpath/>>

3. Terms, Definitions, and Abbreviations

For the purposes of this document, the following terms, definitions, and abbreviations apply.

3.1 XCCDF Terminology

Benchmark: The root node of an XCCDF benchmark document; may also be the root node of an XCCDF results document (the results of evaluating the XCCDF benchmark document).

Benchmark Consumer: A product that accepts an existing XCCDF benchmark document, processes it, and produces an XCCDF results document.

Benchmark Producer: A product that generates XCCDF benchmark documents.

Checklist: An organized collection of rules about a particular kind of system or platform.

Group: An item that can hold other items; allows an author to collect related items into a common structure and provide descriptive text and references about them.

Item: A named constituent of a benchmark. The three types of items are groups, rules, and values.

Profile: A named tailoring of a benchmark.

Rule: An element that holds check references and may also hold remediation information.

Tailoring: An element that specifies profiles to modify the behavior of a benchmark; the top-level element of a tailoring document.

TestResult: The container for XCCDF results. May be the root node of an XCCDF results document.

Value: A named data value that can be substituted into other items' properties or into checks.

3.2 Acronyms and Abbreviations

CCE	Common Configuration Enumeration
CPE	Common Platform Enumeration
CVE	Common Vulnerabilities and Exposures
DCMI	Dublin Core Metadata Initiative
DNS	Domain Name System
IANA	Internet Assigned Numbers Authority
IR	Interagency Report
NIST	National Institute of Standards and Technology
OCIL	Open Checklist Interactive Language
OVAL	Open Vulnerability and Assessment Language
PCRE	Perl Compatible Regular Expression
RFC	Request for Comments
SCAP	Security Content Automation Protocol
SP	Special Publication
W3C	World Wide Web Consortium
XCCDF	Extensible Configuration Checklist Description Format
XHTML	Extensible Hypertext Markup Language
XML	Extensible Markup Language