

- Open Vulnerability and Assessment Language - Element Dictionary

- Schema: IOS Definition
- Version: 4.2
- Release Date: 2 December 2005

The following is a description of the elements, types, and attributes that compose the IOS specific tests found in Open Vulnerability and Assessment Language (OVAL). Each test is an extension of the standard test element defined in the Core Definition Schema. Through extension, each test inherits a set of elements and attributes that are shared amongst all OVAL tests. Each test is described in detail and should provide the information necessary to understand what each element and attribute represents. This document is intended for developers and assumes some familiarity with XML. A high level description of the interaction between the different tests and their relationship to the Core Definition Schema is not outlined here.

The OVAL Schema is maintained by The Mitre Corporation and developed by the public OVAL Community. For more information, including how to get involved in the project and how to submit change requests, please visit the OVAL website at <http://oval.mitre.org>.

Elements

This section describes all the elements that are found within the schema, starting with the root element. Note that in the tables outlining possible attributes and child elements, square brackets [] means that the item is optional. All complex and simple types, along with attribute groups are described later in this document.

Global Test

<global_test>

Test for the existence of a particular line in the ios config file under the global context

Extends:	standardTestType
Valid Sections:	notes, object

object section

<global_command>

Parent Test:	Global Test
Cardinality:	1
Content:	string
Valid Datatypes:	string
Valid Operators:	equals, not equal, pattern match

Interface Test

<interface_test>

Extends:	standardTestType
Valid Sections:	notes, object, data

object section

<name>

Parent Test:	Interface Test
Cardinality:	1
Content:	string
Valid Datatypes:	string
Valid Operators:	equals, not equal, pattern match

data section

<ip_directed_broadcast_command>

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Parent Test:	Interface Test
Cardinality:	0-1
Content:	string
Valid Datatypes:	string
Valid Operators:	equals, not equal, pattern match

<no_ip_directed_broadcast_command>

Parent Test:	Interface Test
Cardinality:	0-1
Content:	string
Valid Datatypes:	string
Valid Operators:	equals, not equal, pattern match

<proxy_arp_command>

Parent Test:	Interface Test
Cardinality:	0-1
Content:	string
Valid Datatypes:	string
Valid Operators:	equals, not equal, pattern match

<shutdown_command>

Parent Test:	Interface Test
Cardinality:	0-1
Content:	string
Valid Datatypes:	string
Valid Operators:	equals, not equal, pattern match

Line Test

<line_test>

Test the properties of specific lines in the ios config file.

Extends:	standardTestType
Valid Sections:	notes, object, data

object section

<name>

Parent Test:	Line Test
Cardinality:	1
Content:	string
Valid Datatypes:	string
Valid Operators:	equals, not equal, pattern match

data section

<exec_timeout_command>

Parent Test:	Line Test
Cardinality:	0-1
Content:	string
Valid Datatypes:	string
Valid Operators:	equals, not equal, pattern match

<login_command>

Parent Test:	Line Test
Cardinality:	0-1
Content:	string
Valid Datatypes:	string
Valid Operators:	equals, not equal, pattern match

<no_exec_command>

Parent Test:	Line Test
Cardinality:	0-1
Content:	string
Valid Datatypes:	string
Valid Operators:	equals, not equal, pattern match

<password_command>

Parent Test:	Line Test
Cardinality:	0-1
Content:	string
Valid Datatypes:	string
Valid Operators:	equals, not equal, pattern match

<transport_command>

Parent Test:	Line Test
Cardinality:	0-1
Content:	string
Valid Datatypes:	string
Valid Operators:	equals, not equal, pattern match

SNMP Test

<snmp_test>

Tests if lines under the global context associated with snmp that have a specific access list or community name.

Extends:	standardTestType
Valid Sections:	notes, data

data section

<access_list>

Parent Test:	SNMP Test
Cardinality:	0-1
Content:	string
Valid Datatypes:	string
Valid Operators:	equals, not equal, pattern match

<community_name>

Parent Test:	SNMP Test
Cardinality:	0-1
Content:	string
Valid Datatypes:	string
Valid Operators:	equals, not equal, pattern match

Version Test

<version_test>

Tests the version of the IOS operating system.

Extends:	standardTestType
Valid Sections:	notes, data

data section

<version>

Parent Test:	Version Test
Cardinality:	0-1
Content:	string
Valid Datatypes:	string
Valid Operators:	equals, not equal, pattern match

<platform>

The valid platforms for the IOS Family.

- IOS 11.0
- IOS 11.1
- IOS 11.2
- IOS 12.0
- IOS 12.1
- IOS 12.2
- IOS 12.3