- Open Vulnerability and Assessment Language - Element Dictionary

- Schema: IOS System Characteristics
- Version: 5.0 release candidate 3
- Release Date: 26 May 2006

The following is a description of the elements, types, and attributes that compose the IOS specific system characteristic items found in Open Vulnerability and Assessment Language (OVAL). Each item is an extension of the standard item element defined in the Core System Characteristic Schema. Through extension, each item inherits a set of elements and attributes that are shared amongst all OVAL Items. Each item 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 System Characteristic 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.

< global_item >

Sotres information about the existence of a particular line in the ios config file under the global context

Child Elements	Type	MinOccurs	MaxOccurs
global_command	oval-sc:EntityItemStringType	0	1

< interface_item >

Child Elements	Type	MinOccurs	MaxOccurs
name	oval-sc:EntityItemStringType	0	1
ip_directed_broadcast_command	oval-sc:EntityItemStringType	0	1
no_ip_directed_broadcast_command	oval-sc:EntityItemStringType	0	1
proxy_arp_command	oval-sc:EntityItemStringType	0	1
shutdown_command	oval-sc:EntityItemStringType	0	1

< line_item >

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

Child Elements	Type	MinOccurs	MaxOccurs
show_subcommand	oval-sc:EntityItemStringType	0	1
config_line	oval-sc:EntityItemStringType	0	1

< snmp_item >

Stores results from collecting lines under the global context associated with snmp.

Child Elements	Type	MinOccurs	MaxOccurs
access_list	oval-sc:EntityItemStringType	0	1
community_name	oval-sc:EntityItemStringType	0	1

< tclsh_item >

The tclsh item holds information about the availability of tcl on the IOS operating system. It extends the standard ItemType as defined in the oval-system-characteristics schema and one should refer to the ItemType description for more information.

Child Elements	Type	MinOccurs	MaxOccurs
available	oval-sc:EntityItemBoolType	0	1

< version_item >

The version item holds information about the version of the IOS operating system. It extends the standard ItemType as defined in the oval-system-characteristics schema and one should refer to the ItemType

description for more information.

Child Elements	Type	MinOccurs	MaxOccurs
major_release	oval-sc:EntityItemStringType	0	1
train_number	oval-sc:EntityItemStringType	0	1
train_identifier	ios-sc:EntityItemTrainIdentifierType	0	1
version_string	oval-sc:EntityItemStringType	0	1

== EntityItemTrainIdentifierType ==

The EntityTrainIdentifierType restricts a string value to a specific set of values that describe the different types of trains in a Cisco IOS release. The empty string is also allowed to support empty emlement associated with error conditions.

Value	Description
mainline	
T	
S	
E	
B	