



INFORMATION-TECHNOLOGY PROMOTION AGENCY, JAPAN

Security Automation Developer Days - Spring 2011

March 22nd to 25th, 2011

National Institute of Standards and Technology (NIST)

Briefing:

SCAP activities in Japan

**MyJVN: JVN Security Content Automation Framework
to establish SCAP collaboration**

March 22, 2011

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IT Security Center, IPA

- **This session provides an overview of how JVN has adopted SCAP.**
 - JVN stands for "Japan Vulnerability Notes" and provides vulnerability and related information on software used in Japan.
 - JVN has adopted SCAP, and provides local (domestic) information and international information, resulting in the JVN Security Content Automation Framework (MyJVN).



About IPA

<http://www.ipa.go.jp/index-e.html>



IPA was established as a specially-approved corporation, based on the Law on Promotion of Information Processing (enacted May 22, 1970, Law No.90). January 5, 2004, IPA was reorganized as an incorporated administrative agency.



IPA's core fields

Publications in IT Security field

<http://www.ipa.go.jp/security/english/third.html>



- **Information Security White Paper Part 2, "10 Major Security Threats"**

- What threat struck you most?
- What threat do you think had a significant impact on the society?



- **How to Secure Your Website**

- A guideline for web site developers and administrators to implement appropriate security into their web site.



Contents

- **Vulnerability information handling framework in Japan**
- JVN Security Content Automation Framework
- MyJVN project



Information security early warning partnership

Vulnerability information handling framework in Japan



2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012

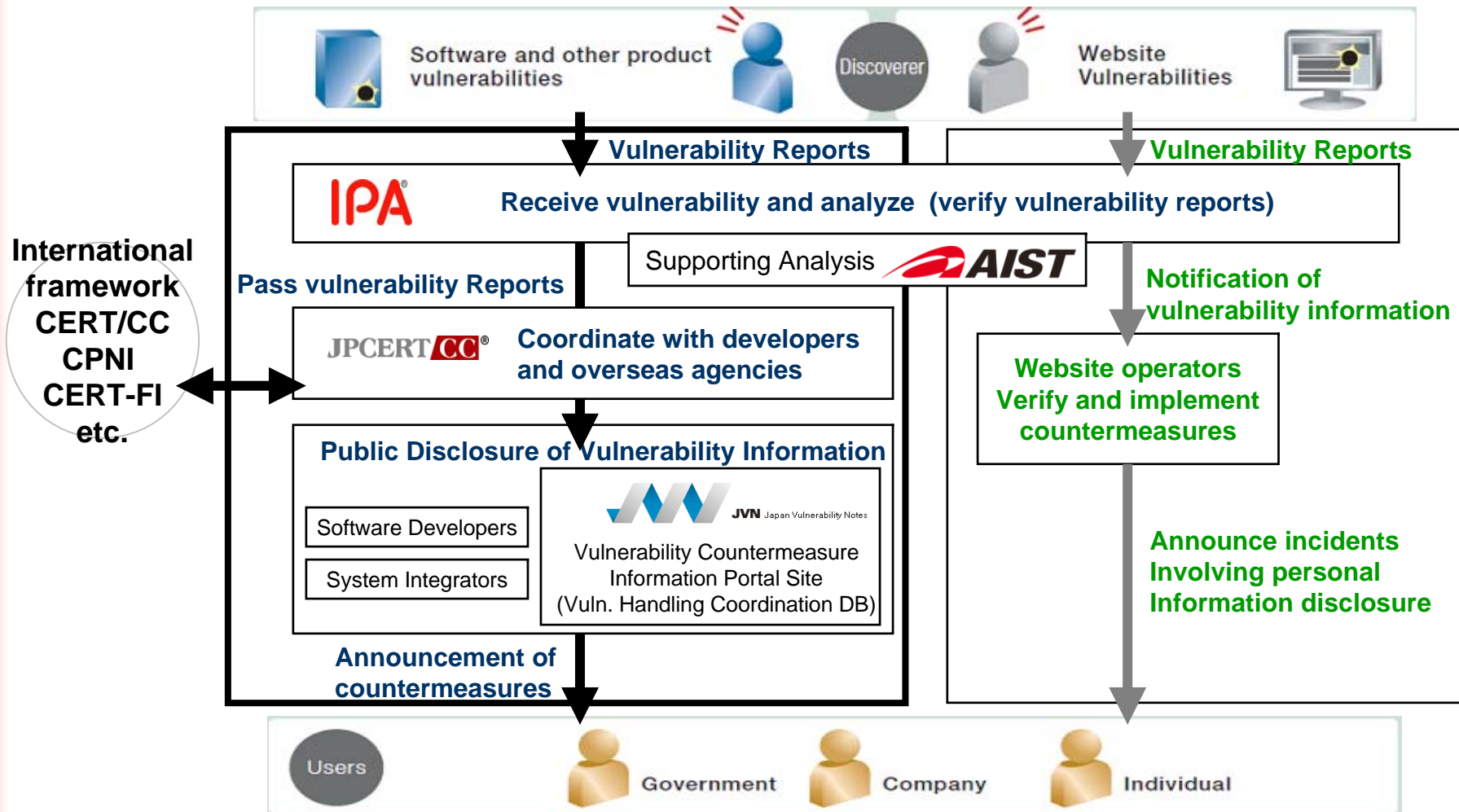
- ▲ Jul 7, 2004: Information Security Early Warning Partnership
- ▲ Jul 8, 2004: Portal Site, **JVN** started (**Vuln. handling coordination DB**)
 - ▲ Apr 2007: Portal Site, **JVN iPedia** (**Vuln. archiving DB**)

- **Information Security Early Warning Partnership**

A public-private partnership framework pursuant to the METI (Ministry of Economy, Trade and Industry) Directive #235, 2004, has been established to promote software product and web site security and prevent the damage to spread to the vast range of computers due to computer viruses or unauthorized access.

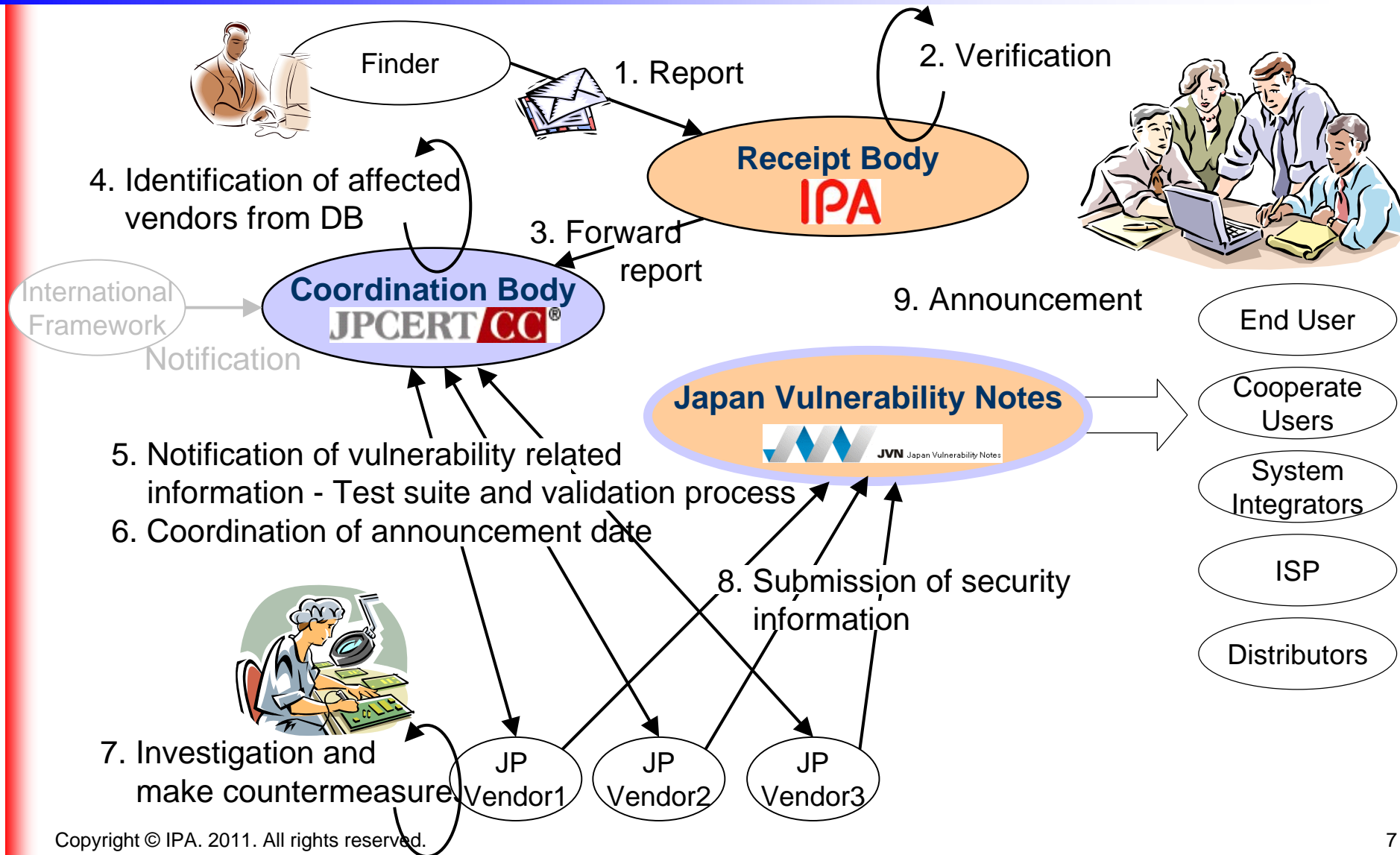
Information security early warning partnership

Vulnerability information handling framework in Japan



Handling diagram of software product vuln.

Vulnerability information handling framework in Japan



JVN and JVN iPedia as CVE Reference

Vulnerability information handling framework in Japan

- **JVN and JVN iPedia became the CVE Reference from Oct 2008.**

- JVN ... JVN#12345678

Providing vulnerability countermeasure information by "Information Security Early Warning Partnership"

- JVN iPedia ... JVNDB-yyyy-123456

Providing countermeasure information database

CVE Reference Map for Source JVNDB		CVE Reference Map for Source JVN	
Source	JVNDB	Source	JVN
Description	JVN iPedia	Description	Japanese CERT (JPCERT) vulnerability notes
URL	http://jvndb.jvn.jp/	URL	http://jvn.jp/en/report/index.html
Notes		Notes	
<p>This reference map lists the various references for JVNDB and provides the associated CVE entries or candidates. It uses data from CVE version 20061101 and candidates that were active as of 2008-11-10.</p> <p>Note that the list of references may not be complete.</p>		<p>This reference map lists the various references for JVN and provides the associated CVE entries or candidates. It uses data from CVE version 20061101 and candidates that were active as of 2008-11-10.</p> <p>Note that the list of references may not be complete.</p>	
JVNDB:JVND-2007-000822	CVE-2007-6563	JVN:JVN#00892830	CVE-2008-1468
JVNDB:JVND-2008-000004	CVE-2008-1226	JVN:JVN#00945448	CVE-2008-4481
JVNDB:JVND-2008-000019	CVE-2008-1604		

Contents

- Vulnerability information handling framework in Japan
- **JVN Security Content Automation Framework**
- MyJVN project



= (JVN + JVN iPedia) x MyJVN

= MyJVN framework

- To enable application developers to use data through open interface
 - Adoption for common enumeration and specifications
- To establish global JVN
 - Internationalization as vulnerability reference source
 - Localization as vulnerability reference source (focus to Japanese region)

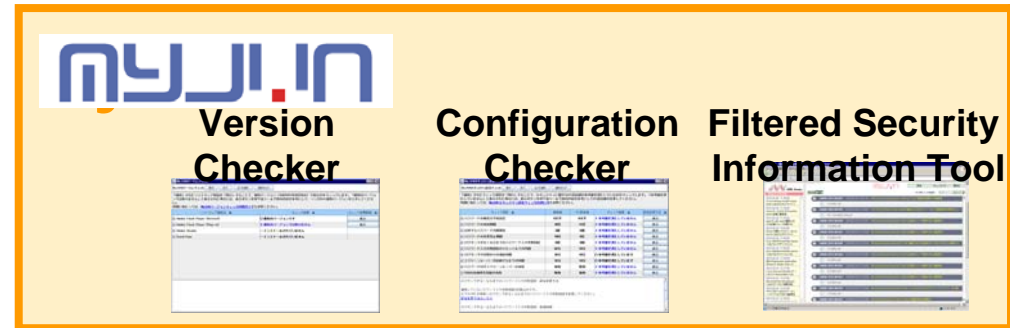
JVN Security Content Automation Framework (aka. MyJVN framework) has adopted SCAP.

JVN Security Content Automation Framework

= (**Internationalization** + **Localization**) x **Machine readable**

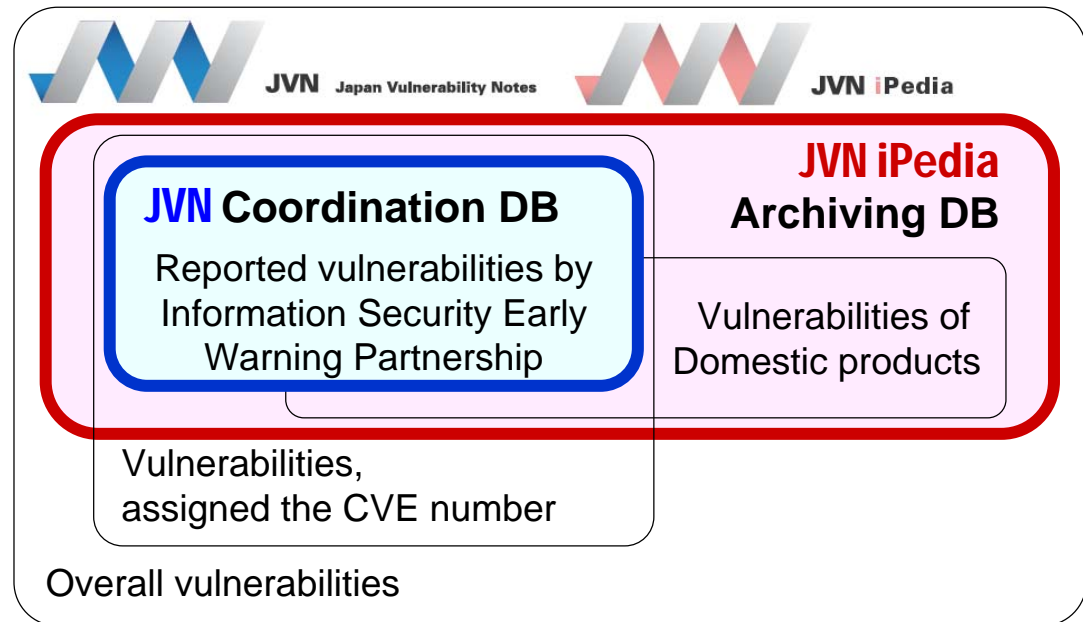
- **MyJVN**

Providing vulnerability countermeasure information via machine readable interface such as Web APIs and Version Checker etc.



- **JVN (Vulnerability handling coordination DB)**

Providing vulnerability countermeasure information and Japanese vendor status for reported vulnerabilities by “Information Security Early Warning Partnership”



- **JVN iPedia (Vulnerability archiving DB)**

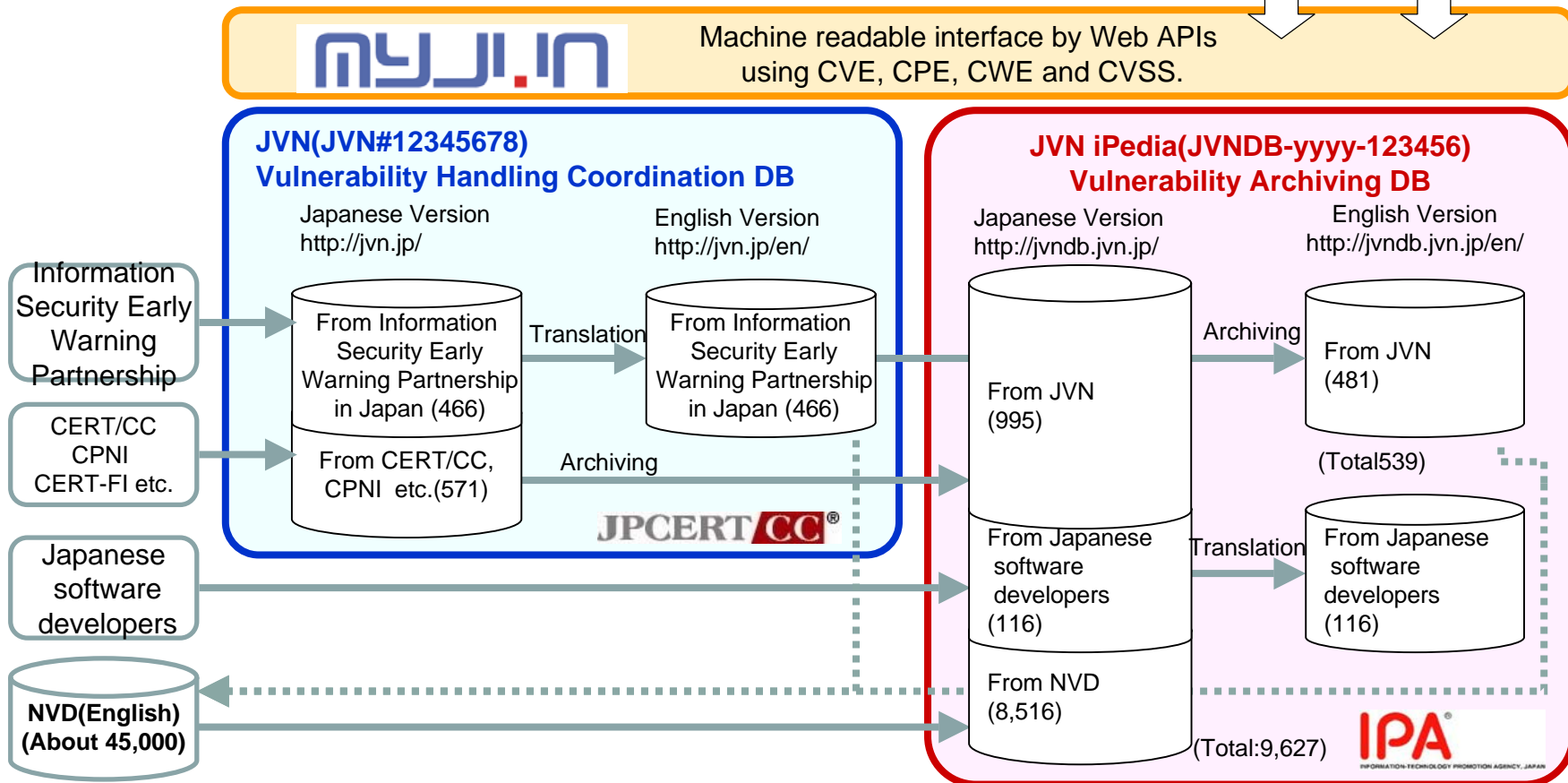
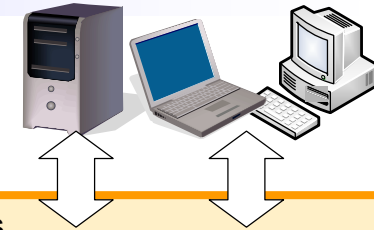
Providing countermeasure information database for covering overall vulnerabilities

JVN Security Content Automation Framework



= (**Internationalization** + **Localization**) x **Collaboration**

- Flow of data exchange between DBs



<http://www.ipa.go.jp/security/vuln/report/vuln2010q4-e.pdf>
http://www.ipa.go.jp/security/english/vuln/JVNiPedia2010q4_en.html

2010 4th Quarter (Oct. - Dec.)

Related activities (phase 1)

JVN Security Content Automation Framework

2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012

- ▲ Jun 2002: JVN working group formed
 - ▲ Feb 2003: Trial site (jvn.doi.ics.keio.ac.jp) to the public
 - ▲ Jul 2003: JVN RSS started

 - ▲ Jul 7, 2004: Information security early warning partnership
 - ▲ Jul 8, 2004: **JVN (aka. Vuln. handling coordination DB)** <http://jvn.jp/>

 - ▲ Jan 2006: Evaluating CVSS V1.0 for adoption
 - ▲ Sep 2006: CVSS V1.0 Calculator [CN][NL][EN][DE][JA][KO][PT][ES]

 - ▲ Apr 2007: **JVN iPedia (aka. Vuln. archiving DB)**
<http://jvndb.jvn.jp/> (**Adopted CVE and CVSS**)
 - ▲ Aug 2007: Adopted CVSS V2.0 in JVN iPedia

 - ▲ May 2008: English Versions of JVN and JVN iPedia
 - ▲ Sep 2008: JVN iPedia extension (**Adopted CWE**)
 - ▲ Sep 2008: JVN iPedia extension (**CVE Declaration**)

Related activities (phase 2)

JVN Security Content Automation Framework

2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017

- ▲ Sep 2008: MyJVN project started
- ▲ Oct 2008: JVN iPedia extension (**Adopted CPE**)
- ▲ Oct 2008: **MyJVN Filtered vulnerability information tool** (**Adopted CPE**)
 - ▲ Nov 2009: **MyJVN Version Checker (VC)** (**Adopted CPE and OVAL**)
 - ▲ Dec 2009: **MyJVN Security Configuration Checker (SCC)** (**Adopted OVAL, CCE and XCCDF**)
 - ▲ Jan 2010: **JVN, JVN iPedia** and **MyJVN** (**CVE-Compatible**)
 - ▲ Jan 2010: CVSS V2.0 Calculator [AR][EN][FR][DE][JA][KO][ES]
 - ▲ Feb 2010: **MyJVN API**
 - ▲ Jun 2010: **MyJVN - VRDA** collaboration
 - ▲ Mar 2011: **MyJVN VC** and **MyJVN SCC** (**OVAL Adopter**)

Contents

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- JVN Security Content Automation Framework
- **MyJVN project**



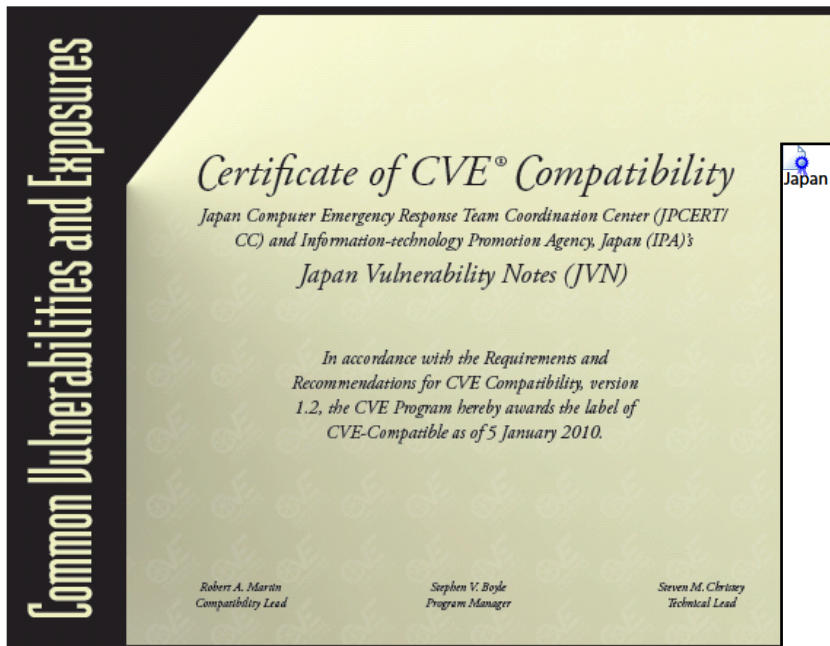
MyJVN project = SCAP collaboration activities

MyJVN project



● Operational View

- CWE-Compatible (Oct 3, 2008)
- CVE-Compatible (JVN、JVN iPedia and MyJVN) (Jan 5, 2010)
- CAN (CVE Numbering Authority) (Jun 24, 2010)
- OVAL Adopter (MyJVN VC and MyJVN SCC) (Mar 15, 2011)





MyJVN project = SCAP collaboration activities

MyJVN project



- **Operational View**

- CWE-Compatible (Oct 3, 2008)
- CVE-Compatible (JVN, JVN iPedia and MyJVN) (Jan 5, 2010)
- CAN (CVE Numbering Authority) (Jun 24, 2010)
- OVAL Adopter (MyJVN VC and MyJVN SCC) (Mar 15, 2011)

MyJVN API	Information-technology Promotion Agency, Japan (IPA)	Vulnerability Assessment and Configuration Management	Japan	Definition Repository	Declaration
MyJVN Security Configuration Checker	Information-technology Promotion Agency, Japan (IPA)	Configuration Management	Japan	Definition Evaluator	
MyJVN Version Checker	Information-technology Promotion Agency, Japan (IPA)	Vulnerability Assessment	Japan	Definition Evaluator	

MyJVN project = SCAP collaboration activities

MyJVN project




- **Technical View**

- JVN
- JVN iPedia
- CVSS Calculator
- MyJVN API
- MyJVN - JPCERT/CC VRDA collaboration
- MyJVN Filtered Vulnerability Countermeasure Information Tool
- MyJVN Version Checker (VC)
- MyJVN Security Configuration Checker (SCC)
 - Topic: Schema extension to human readable in MyJVN Security Configuration Checker
- Collaboration possibilities of CPE



- **JVN**

- July 2004, "Japan Vulnerability Notes (JVN) (aka. Vulnerability handling coordination DB)" started the portal site of security information of domestic product vendors under the vulnerability information handling framework in Japan.
- Vulnerability handling coordination DB assists system administrators and software and other products developers enhance security for their products and customers.
 - **Vulnerability Notes (VN)**
 - **Status Tracking Notes (TRnotes)**
(currently in trial operation)

 cve.mitre.org


JVN - Vulnerability Notes (VN)


<http://jvn.jp/en/>



JVN Japan Vulnerability Notes

- VN includes a list of JP product vendors who may be affected by the vulnerability.





Published:2007/12/13 Last Updated:2008/08/20

JVN#80057925
Cross-site scripting vulnerability in Apache HTTP Server "mod_imap" and "mod_imagemap"

Overview

mod_imap an

JVN#12345678 Server are vulnerable to cross-site scripting.

image mapping.

Products A

- ◆ Apache H
- ◆ Apache H

	Last Update	Vendor Notes
Hitachi	Vulnerable	2007/12/13
NEC Corporation	Not Vulnerable, investigating	2007/12/13
Century Systems Co., Ltd.	Not Vulnerable, investigating	2007/12/13
FUJITSU LIMITED	Vulnerable, investigating	2008/01/17
Canon Inc.	Not Vulnerable	2008/08/20

Vendor Link

The Apache Software Foundation [Apache 2.2 Security Vulnerabilities CVE-2007-5000](#)

Title

Overview

Impact

Vendor Status

Reference

Revisions

- There are five categories as Status.
- Unknown
 - Vulnerable (Completed investigation)
 - Vulnerable (Under investigation)
 - Not Vulnerable (Completed investigation)
 - Not Vulnerable (Under investigation)

JVN - Vulnerability Notes (VN)

<http://jvn.jp/en/>



JVN Japan Vulnerability Notes

JVN ID	Vulnerability Description	Date
JVN#01635457:	e107 vulnerable to cross-site scripting	[March 14, 2011 12:00]
JVN#81294135:	IBM Tivoli vulnerable to denial-of-service (DoS)	[March 10, 2011 12:00]
JVN#73162541:	OTRS vulnerable to OS command	2011 12:00]
JVN#97334690:	IBM Lotus vulnerable to denial-c	[March 04, 2011 16:00]
JVN#26301278:	IBM WebSphere Application Se	denial-of-service (DoS) [March

JVN#88991166
SEIL Series routers vulnerable to buffer overflow

Overview
SEIL Series routers contain a buffer overflow vulnerability.

Products Affected

- SEIL/x86 firmware 1.00 to 1.61
- SEIL/B1 firmware 1.00 to 3.11
- SEIL/X1 firmware 1.00 to 3.11
- SEIL/X2 firmware 1.00 to 3.11

JVN - Vulnerability Notes (VN)

<http://jvn.jp/en/>



JVN Japan Vulnerability Notes

http://jvn.jp - Japan Vulnerability Notes - Microsoft Internet Explorer

Date Last Updated: March 14, 2011

JVN Japan Vulnerability Notes

JVN English Site Open

Recent

- JVN#0
- JVN#8
- JVN#73
- JVN#97
- JVN#26

Other Information

- JPCERT Alert
- JPCERT Reports
- CERT Advisory
- CPNI Advisory
- TRnotes
- CVE [CVE-2011-0454](#)
- JVN iPedia [JVNDB-2011-000014](#)

- SEIL/x86 firmware 1.00 to 1.61
- SEIL/B1 firmware 1.00 to 3.11
- SEIL/X1 firmware 1.00 to 3.11
- SEIL/X2 firmware 1.00 to 3.11

Microsoft Internet Explorer

JVN

- HOM
- Wh
- Inst
- List
- Repc
- VN
- TRn
- JVN iPedia
- JVNJS/RSS
- Vendor List
- Contact

JVN - Status Tracking Notes (TRnotes)

<http://jvn.jp/en/>



JVN Japan Vulnerability Notes

- The purpose of TRnotes is in sharing the events of time series. The event information is based on public information.



Published: 2008-07-20T10:29+00:00 Last Updated: 2008-08-31T04:54+00:00

TRTA08-190B

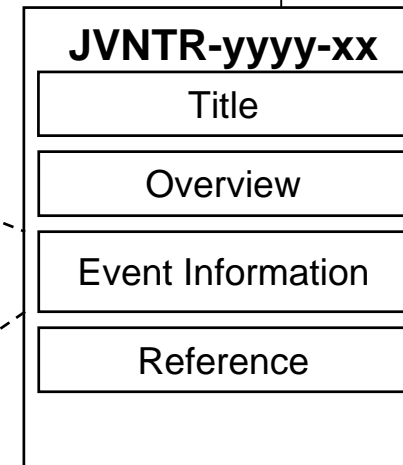
Multiple DNS implementations vulnerable to cache poisoning

Overview

Deficiencies in the DNS protocol and common DNS implementations facilitate DNS cache poisoning attacks. Effective attack techniques against these vulnerabilities have been demonstrated.

Event Information

Date (UTC)	Description
2008-08-24	<p>ICANN Domain Name Security Paper Released ICANN's strategic and operating plans call for ICANN to be operationally ready to deplete DNSSEC at the root level and work with relevant stakeholders to determine how this should be implemented.</p>
	<p>Office of Management and Budget M-08-23: Securing the Federal Government's Domain Name System Infrastructure (Subsequent Draft Agency Plans Due by September 5, 2008) This memorandum describes existing and new policies for developing Domain Name System Security</p>



Event Information includes followings.

- Discovered date of vulnerability
- Published date of any advisories
- Released date of exploit code
- Discovered date of worm
- Published alerts from governments. etc.

JVN iPedia

<http://jvndb.jvn.jp/en/>



JVN iPedia Vulnerability Countermeasure Information Database

- **JVN iPedia**

- JVN iPedia (aka. Vulnerability archiving DB) focuses on regional vulnerabilities (which depends on IT market) in Japan.
- Vulnerability archiving DB stores summary and countermeasure information on vulnerabilities in Japanese software and other products posted on JVN.



JVN iPedia

<http://jvndb.jvn.jp/en/>



JVN iPedia Vulnerability Countermeasure Information Database

http://jvndb.jvn.jp - JVN iPedia - Microsoft Internet Explorer

Last Updated: 2011/03/22
Total Records: 620

JVN iPedia Vulnerability Countermeasure Information Database

>> JVN iPedia Japanese Version

Information

Listed on Feb 14, 2011 JVN iPedia Registration Status for 2010 4Q (Oct. - Dec.)
http://www.ipa.go.jp/security/english/vuln/JVNiPedia2010q4_en.html

Most Popular Vulnerabilities on JVN iPedia (2011/03/13 - 2011/03/19)

1. [JVND-2011-000019](#)
OTRS vulnerable to OS command execution
2. [JVND-2011-000017](#)
IBM WebSphere Application Server vulnerable to denial-of-service
3. [JVND-2011-000020](#)
IBM Tivoli vulnerable to denial-of-service

Database Search

http://jvndb.jvn.jp - JVND-2009-000018 - JVN iPedia - Microsoft Internet Explorer

Last Updated: 2010/03/23

JVN iPedia Vulnerability Countermeasure Information Database

[Japanese]

JVND-2009-000018

Ichitaro series buffer overflow vulnerability

Overview

The "Ichitaro" series word processing software contains a buffer overflow vulnerability.

This vulnerability is different from JVN#29211062, JVN#32981509 and JVN#50495547.

The "Ichitaro" series word processing software, from JustSystems Corporation, contains an issue in the reading of Rich Text Files resulting in a

JVN

- HOME
- What is JVN ?
- Instructions
- List of Vulnerability
- Report
- VN_JP
- TRnotes
- JVN iPedia
- Search
- What is JVN iPedia?
- How to Use?
- MyJVN
- JVNS/RSS

CVE
cve.mitre.org

CPE
common platform enumeration

CVSS

CWE

JVN iPedia

<http://jvndb.jvn.jp/en/>



JVN iPedia Vulnerability Countermeasure Information Database

The screenshot shows the JVN iPedia website interface. The top navigation bar includes the JVN iPedia logo and the text "JVN iPedia Vulnerability Countermeasure Information Database". A secondary bar indicates "Last Updated: 2011/03/22" and "Total Records: 620". A link for ">>JVN iPedia Japanese Version" is visible. The main content area displays the CVSS severity for JVNDB-2009-000018, which is 6.8 (Medium) [IPA Score]. A list of base metrics is provided: Access Vector: Network, Access Complexity: Medium, Authentication: None, Confidentiality Impact: Partial, Integrity Impact: Partial, and Availability Impact: Partial. A sidebar on the right contains logos for CVE, CPE, CVSS, and CWE, along with a navigation menu for JVN, including links for HOME, What is JVN, Instruction, List of Vulnerabilities, Report, VN_JP, TRnotes, JVN iPedia, Search, What is JVN iPedia?, How to Use?, MyJVN, and JVNJS/RSS.

CVSS Severity ([What is CVSS?](#))

Base Metrics: 6.8 (Medium) [IPA Score]

- Access Vector: Network
- Access Complexity: Medium
- Authentication: None
- Confidentiality Impact: Partial
- Integrity Impact: Partial
- Availability Impact: Partial

The "Ichitaro" series word processing software contains a buffer overflow vulnerability.

This vulnerability is different from JVN#29211062, JVN#32981509 and JVN#50495547.

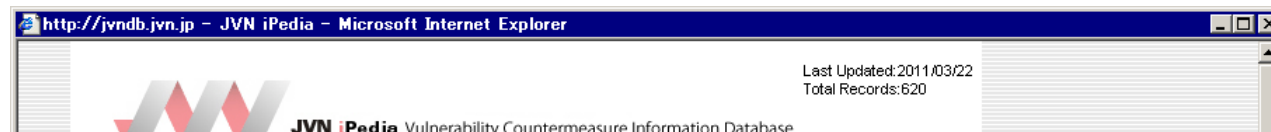
The "Ichitaro" series word processing software, from JustSystems Corporation, contains an issue in the reading of Rich Text Files resulting in a

JVN iPedia

<http://jvndb.jvn.jp/en/>



JVN iPedia Vulnerability Countermeasure Information Database



This vulnerability is different from JVN#29211062, JVN#32981509 and JVN#50495547.

The "Ichitaro" series word processing software, from JustSystems Corporation, contains an issue in the reading of Rich Text Files resulting in a

Search
[What is JVN iPedia?](#)
[How to Use?](#)
[MyJVN](#)
[JVNJS/RSS](#)

JVN iPedia

http://jvndb.jvn.jp/en/



JVN iPedia Vulnerability Countermeasure Information Database



**XML format
= RSS1.0+mod_sec**

Update	PDF (Update: 2011/03/21) (P&P sig.)			
Yearly Data	2011 (P&P sig.)	2010 (P&P sig.)	2009 (P&P sig.)	2008 (P&P sig.)
	2007 (P&P sig.)	2006 (P&P sig.)	2005 (P&P sig.)	2004 (P&P sig.)
	2003 (P&P sig.)	2002 (P&P sig.)	What is JVNDBRSS?	

CVSS Calculator

<http://jvndb.jvn.jp/en/cvss/>



JVNIedia Vulnerability Countermeasure Information Database

● CVSS V2.0 Calculator

- Graphical user interface: 5 Themes
- Multi languages supported: 7 Languages (Oct 2010)

The screenshot displays the CVSS 2.0 Calculator web application. The main content area shows the following scores and calculations:

- Base Score:** 10
- Temporal Score:** 7.3
- Overall Score:** 7.6

The calculator includes a sidebar with navigation links (Home, main, JVN RSS Activity, CVE+, CVSS, RSS_dir, SIG_rdf, TRnotes, XSL_swf, Specification, JVNJS, JVN RSS, RSS_mod_sec, VULDEF, Tool, toolbox, Document, docbox, Related Site) and a right sidebar with a CVSS logo. The interface is in Japanese.

CVSS Calculator

<http://jvndb.jvn.jp/en/cvss/>



CVSS V2.0 Calculator loads parameter XML file such as Arabic, English and etc.

MyJVN API

<http://jvndb.jvn.jp/en/apis/>

IPA®

myjvn.jp

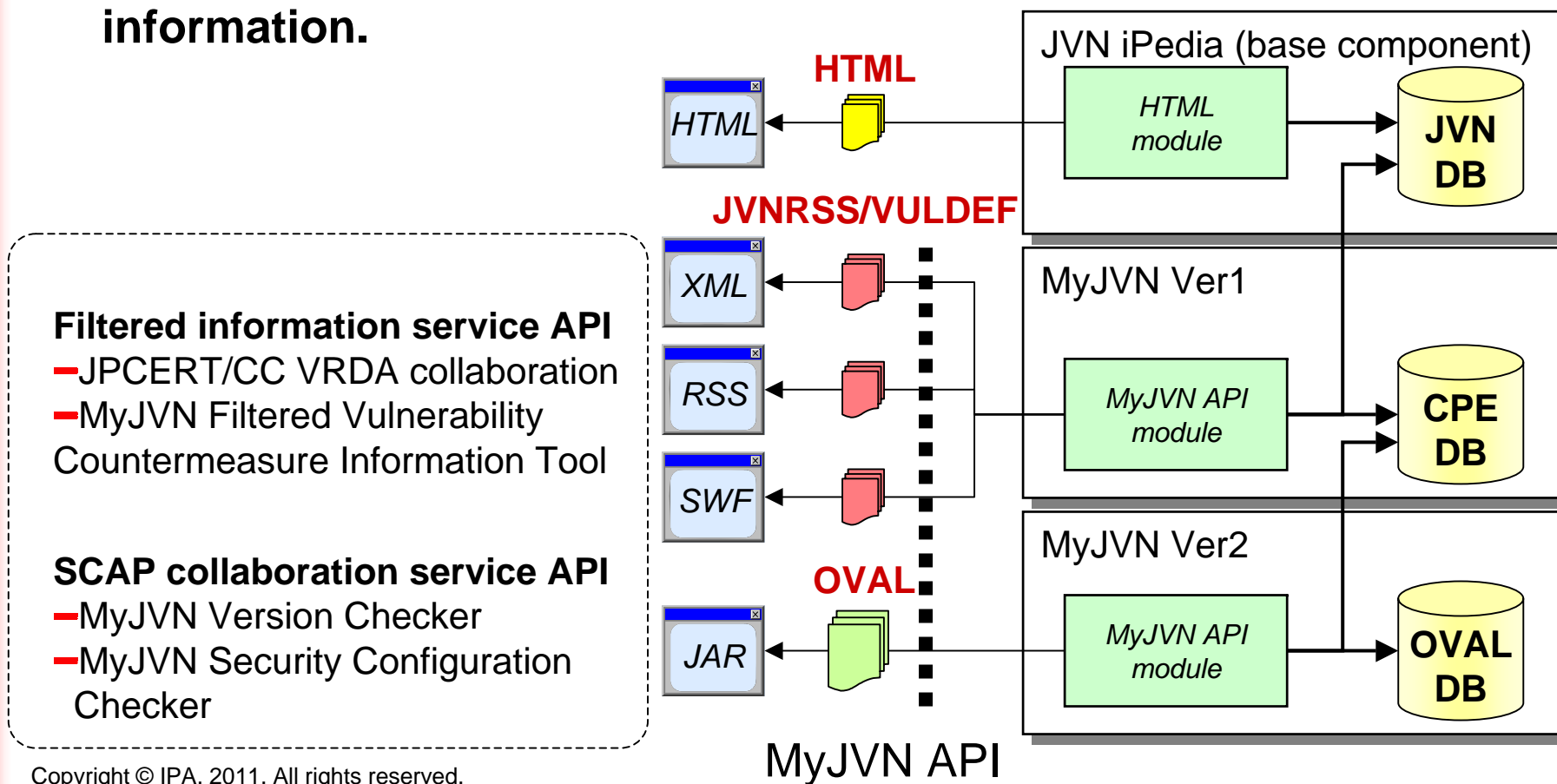
- **MyJVN API**

- A software interface to access and utilize vulnerability countermeasure information stored in JVN iPedia, with testing support tools.
- To enable application developers to use data through open interface, JVN iPedia has adopted SCAP, a set of standards for describing vulnerability countermeasure information.

MyJVN API

<http://jvndb.jvn.jp/en/apis/>

- A custom applications can access the data in JVN iPedia and various vulnerability management services can now efficiently utilize vulnerability countermeasure information.



- **Filtered information service API**

- **Get Vendor List**

- The vendor list that is filtered by the CPE is acquired in XML format.

- **Get Product List**

- The product list that is filtered by the CPE is acquired in XML format.

- **Get Vulnerability Overview List**

- The vulnerability overview list that is filtered by the CPE is acquired in JVN RSS (RSS + mod_sec) format.

- **Get Vulnerability Detail Information**

- The vulnerability detail information is acquired in VULDEF format.

MyJVN API - Filtered information service API

<http://jvndb.jvn.jp/en/apis/>



- **Filtered information service API**

- **Get Vendor List**

- http://jvndb.jvn.jp/myjvn?method=getVendorList&cpeName=cpe:/*:j*&lang=en

- **Get Product List**

- http://jvndb.jvn.jp/myjvn?method=getProductList&cpeName=cpe:/*:sony:*&lang=en

- **Get Vulnerability Overview List**

- http://jvndb.jvn.jp/myjvn?method=getVulnOverviewList&cpeName=cpe:/*:fujitsu*&rangeDatePublic=n&rangeDatePublished=n&rangeDateFirstPublished=n&lang=en

- **Get Vulnerability Detail Information**

- <http://jvndb.jvn.jp/myjvn?method=getVulnDetailInfo&vulnId=JVND-2009-000004&lang=en>

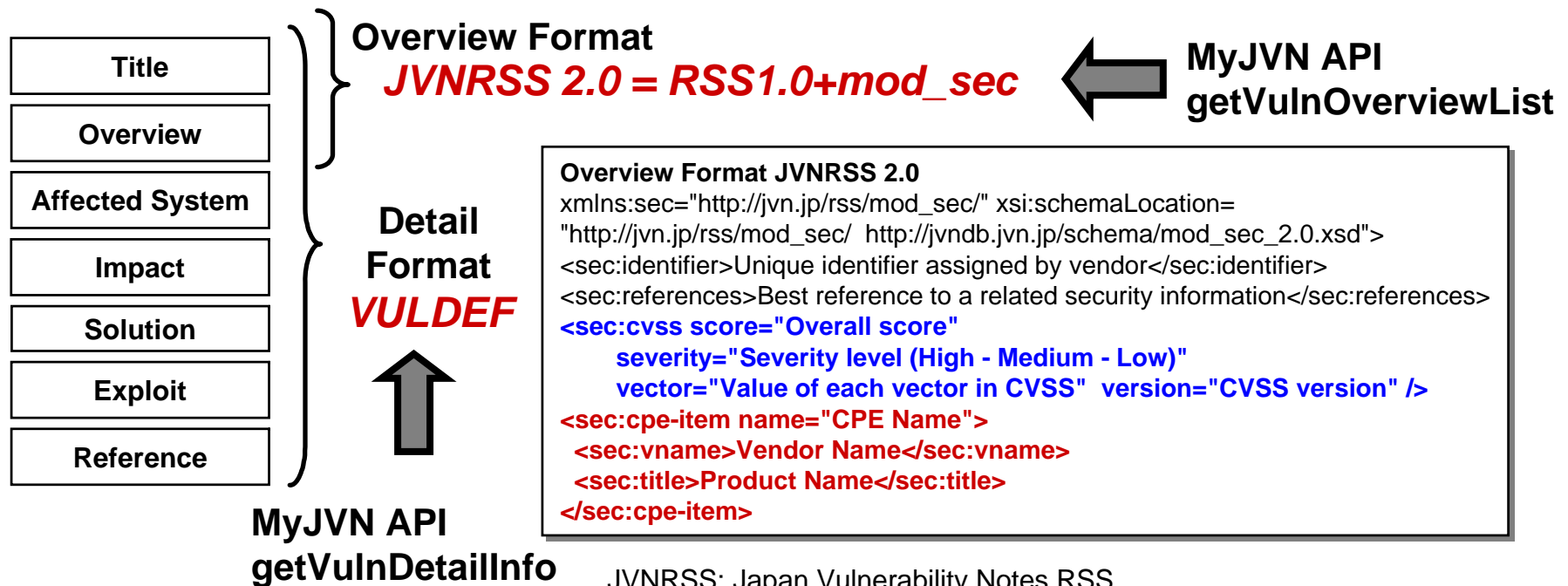
MyJVN API - Filtered information service API

<http://jvndb.jvn.jp/en/apis/>



- XML formats

- Using JVN RSS, an XML format to describe the overview, is an essential point in the security information exchange.



JVN RSS: Japan Vulnerability Notes RSS
mod_sec: Qualified Security Advisory Reference
VULDEF: The VULnerability Data publication and Exchange Format data model

MyJVN API - Filtered information service API

<http://jvndb.jvn.jp/en/apis/>

MyJVN - API getVendorList - Windows Internet Explorer
http://jvndb.jvn.jp/en/apis/getVendorList.html

MyJVN iPedia Vulnerability Countermeasure Information Database
Last Updated: 2010/02/25

MyJVN >> API >> getVendorList [Japanese]

getVendorList Getting on the vendor list in JVN ver 1.0

This method gets the vendor list by the followed filtering parameters.
XML schemaLocation="http://jvndb.jvn.jp/schema/results_3.0.xsd"

Sample Queries

- Default query
- Get XML result for a given CPE {vendor} field: 'micro'.
- Get XML result for a given CPE {vendor} field: 'micro' and initial 'n' character.

Parameter name	Description	Parameter Value
method	Method name of API	getVendorList
startItem	Start position of items	<input type="text"/> Integer (1 - The item number of results)
maxCountItem	Maximum number of items	<input type="text"/> Help
cpeName	CPE vendor name (cpe:/{vendor})	<input type="text"/> Help
keyword	Keyword search for a vendor by name	<input type="text"/> Help
lang	Language (Japanese/English)	<input checked="" type="radio"/> ja: Japanese <input type="radio"/> en: English
xsl	Applying XSL to XML (Enable/Disable)	<input type="checkbox"/> 1:Enable 0:Disable (Under Construction)

Request and Response

Copyright © 2007-2010 IPA. All rights reserved.

MyJVN API - Filtered information service API

<http://jvndb.jvn.jp/en/apis/>

MyJVN >> API : getProductList

[Japanese]

getProductList

Getting on the product list in JVN ver 1.0

This method gets the product list by the followed filtering parameters.
XML schemaLocation="http://jvndb.jvn.jp/schema/results_3.0.xsd"

Sample Queries

- Default query
- Get XML result for a given CPE {product} field: 'micro'.
- Get XML result for a given Vendor ID: '1, 2, 3'.

Parameter name	Description	Parameter Value
method	Method name of API	getProductList
startItem	Start position of items	<input type="text"/> Integer (1 - The item number of results)
maxCountItem	Maximum number of items	<input type="text"/> Help
cpeName	CPE product name (cpe/{part}{vendor}{product})	<input type="text"/> Help
vendorId	Vendor ID	<input type="text"/> Help
productId	Product ID	<input type="text"/> Help
keyword	Keyword search for a product by name	<input type="text"/> Help
lang	Language (Japanese/English)	<input checked="" type="radio"/> ja: Japanese <input type="radio"/> en: English
xsl	Applying XSL to XML (Enable/Disable)	<input type="checkbox"/> 1:Enable 0:Disable (Under Construction)

Request and Response

MyJVN API - Filtered information service API

<http://jvndb.jvn.jp/en/apis/>

MyJVN - API getVulnOverviewList - Windows Internet Explorer

http://jvndb.jvn.jp/en/apis/getVulnOverviewList.html

MyJVN CPE Search(ja)

お気に入り MyJVN API MyJVN - API getVendorList MyJVN - API getProductLi... MyJVN - API getVulnO... MyJVN - API getVulnDetai...

Last Updated: 2010/02/25

JVN iPedia Vulnerability Countermeasure Information Database

MyJVN >> API : getVulnOverviewList

[Japanese]

getVulnOverviewList Getting on the summary list of vulnerabilities in JVN ver 1.0

This method gets the summary list of vulnerabilities by the followed filtering parameters.
XML schemaLocation="http://jvndb.jvn.jp/schema/jvnrss_2.0.xsd"

Sample Queries

Default query

Get XML result for a given CPE (product) field: 'micro' and all of rangeDate parameters: 'None'.

Get XML result for a given Vendor ID: '1, 2, 3', a rangeDatePublic and a rangeDatePublished: 'None'.

Reset Submit

Parameter name	Description	Parameter Value
method	Method name of API	getVulnOverviewList
startItem	Start position of items	<input type="text"/> Integer (1 - The item number of results)
maxCountItem	Maximum number of items	<input type="text"/> Help
cpeName	CPE product name (cpe:/part:{vendor}:{product})	<input type="text"/> Help
vendorId	Vendor ID	<input type="text"/> Help
productId	Product ID	<input type="text"/> Help
keyword	Keyword search for a product by name	<input type="text"/> Help
severity	CVSS severity [Low Medium High]	<input type="radio"/> h: High <input type="radio"/> m: Medium <input type="radio"/> l: Low <input checked="" type="radio"/> (N/A)
vector	CVSS vector (Base Metrics)	<input type="text"/> Help
rangeDatePulic	Range of date public	<input type="radio"/> n: None <input checked="" type="radio"/> w: Past week <input type="radio"/> m: Past month
rangeDatePublished	Range of date last updated	<input type="radio"/> n: None <input checked="" type="radio"/> w: Past week <input type="radio"/> m: Past month
rangeDateFirstPublic	Range of date first published	<input type="radio"/> n: None <input checked="" type="radio"/> w: Past week <input type="radio"/> m: Past month

MyJVN API - Filtered information service API

<http://jvndb.jvn.jp/en/apis/>

MyJVN >> API : getVulnDetailInfo

[Japanese]

getVulnDetailInfo

Getting on the vulnerability in JVN ver 1.0

This method gets the vulnerability countermeasure information by the followed filtering parameters.
XML schemaLocation="http://jvndb.jvn.jp/schema/vuldef_2.0.xsd"

Sample Queries

- Default query (Request Error: No value in parameter 'vulnId')
- Get XML result for two given Vulnerability countermeasure information IDs.
- Get XML result for five given Vulnerability countermeasure information IDs.

Parameter name	Description	Parameter Value
method	Method name of API	getVulnDetailInfo
startItem	Start position of items	<input type="text"/> Integer (1 - The item number of results)
maxCountItem	Maximum number of items	<input type="text"/> Help
vulnId	Vulnerability countermeasure information ID	<input type="text"/> Help
lang	Language (Japanese/English)	<input checked="" type="radio"/> ja: Japanese <input type="radio"/> en: English
xsl	Applying XSL to XML (Enable/Disable)	<input type="checkbox"/> 1:Enable 0:Disable (Under Construction)

Request and Response

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- **SCAP collaboration service API (Beta)**
 - **Get list of OVAL definition**
The OVAL definition list is acquired in XML format.

 - **Get Data of OVAL definition**
The OVAL definition file is acquired in enveloped OVAL format.

 - **Get Data of XCCDF configuration**
The XCCDF configuration data is acquired in enveloped XCCDF format.

MyJVN API - SCAP collaboration service API

<http://jvndb.jvn.jp/en/apis/>



- **SCAP collaboration service API (Beta)**

- **Get list of OVAL definition**

- <http://jvndb.jvn.jp/myjvn?method=getOvalList&platform=cpe:/o:microsoft:windows-nt:vista>

- http://jvndb.jvn.jp/myjvn?method=getOvalList&platform=cpe:/o:microsoft:windows-nt:xp&cpeName=cpe:/a:apple:quickttime+cpe:/a:adobe:flash_player_activex+cpe:/a:adobe:acrobat_reader

- **Get Data of OVAL definition**

- <http://jvndb.jvn.jp/myjvn?method=getOvalData&ovalId=oval:jvndb.v1.oval:def:7>

- **Get Data of XCCDF configuration**

- <http://jvndb.jvn.jp/myjvn?method=getXccdfCheckList&benchmarkId=WindowsXP-IPA-2009>

MyJVN API - SCAP collaboration service API

<http://jvndb.jvn.jp/en/apis/>



- SCAP collaboration service API (Beta)

```
Get list of OVAL definition
http://jvndb.jvn.jp/myjvn?method=getOvalData&ovalId=oval:jp.jvn.jvndb.v1.oval-def:62 - Microsoft Internet Explorer
<?xml version="1.0" encoding="UTF-8" ?>
- <Result version="3.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns="http://jvndb.jvn.jp/myjvn/Results" xmlns:mjres="http://jvndb.jvn.jp/myjvn/Results"
  xmlns:status="http://jvndb.jvn.jp/myjvn/Status"
  xsi:schemaLocation="http://jvndb.jvn.jp/myjvn/Results
  http://jvndb.jvn.jp/schema/results_3.0.xsd">
- <oval_definitions xmlns="http://oval.mitre.org/XMLSchema/oval-definitions-5"
  xmlns:oval="http://oval.mitre.org/XMLSchema/oval-common-5" xmlns:oval-
  def="http://oval.mitre.org/XMLSchema/oval-definitions-5"
  xmlns:jvnmeta="http://jvndb.jvn.jp/myjvn/jvnmetadata"
  xmlns:jvnndef="http://jvndb.jvn.jp/myjvn/jvndefinitions"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://oval.mitre.org/XMLSchema/oval-definitions-5#windows
  http://oval.mitre.org/language/download/schema/version5.5/ovaldefinition/minimal/windows
  -definitions-schema.xsd http://oval.mitre.org/XMLSchema/oval-definitions-5#independent
  http://oval.mitre.org/language/download/schema/version5.5/ovaldefinition/minimal/independent
  -definitions-schema.xsd http://oval.mitre.org/XMLSchema/oval-definitions-5
  http://jvnrss.ise.chuo-u.ac.jp/jtg/apis/oval-definitions-schema.xsd
  http://oval.mitre.org/XMLSchema/oval-common-5
  http://oval.mitre.org/language/download/schema/version5.5/ovaldefinition/minimal/oval-
  common-schema.xsd http://jvnrl
  u.ac.jp/jtg/apis/jvnmetadata_0.2
- <generator>
  <oval:product_name>The OVAL Re
  <oval:schema_version>5.5</oval:s
  <oval:timestamp>2011-02-21T15:12:12+09:00</oval:timestamp>
```

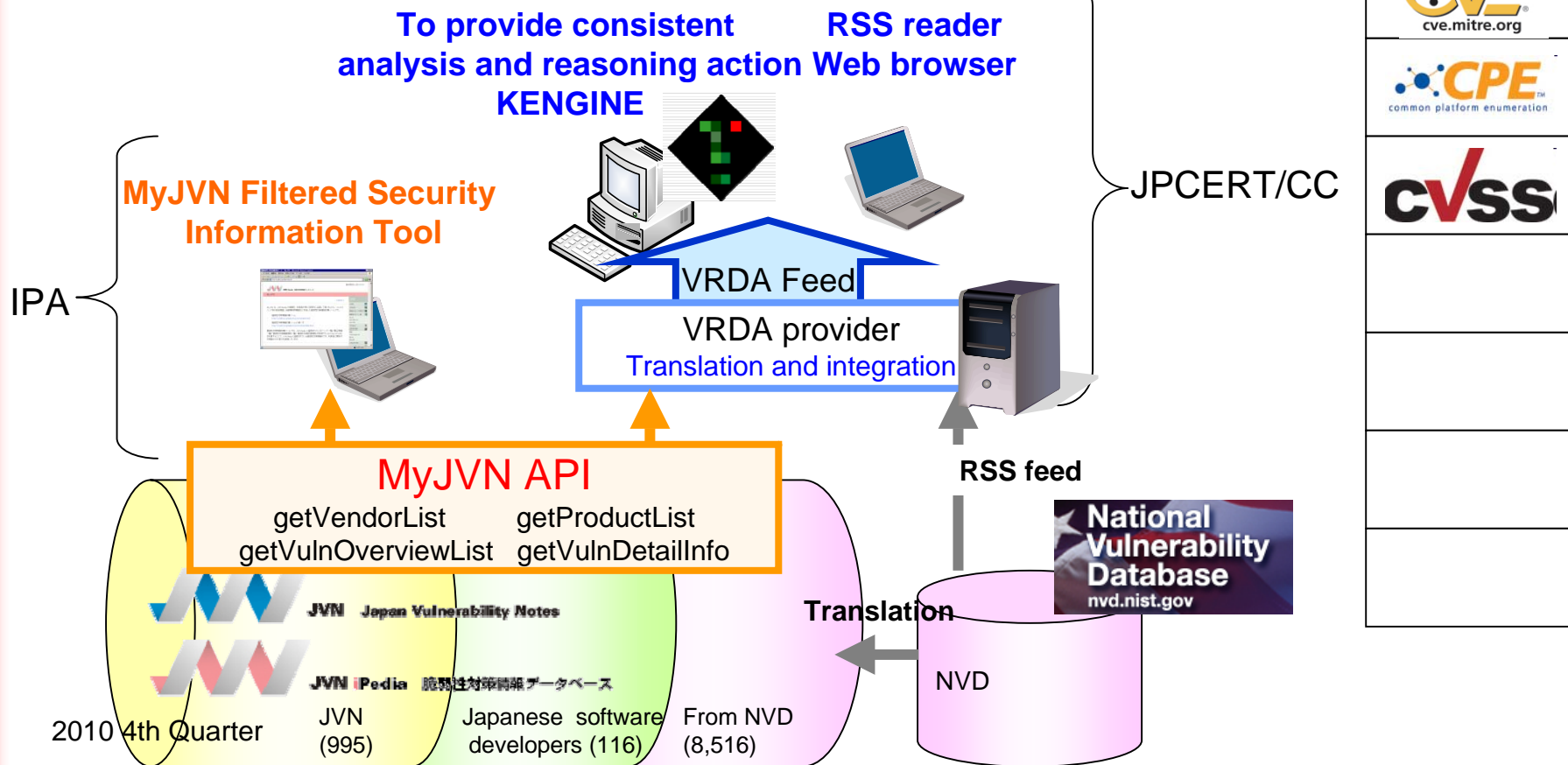
**Enveloped OVAL file
by method=getOvalData**

MyJVN - JPCERT/CC VRDA collaboration

<http://www.jpcert.or.jp/vrdafeed/>



- MyJVN API and JPCERT/CC VRDA (Vulnerability Response Decision Assistance) collaboration



http://www.cert.org/archive/pdf/VRDA_JPCERT-CERTCC.pdf

Filtered security information for your system
 MyJVN Filtered Security Information Tool

JVNDB-2008-000009	2009.04.09 11:33:40
Apple Inc.	
Apple Mac OS X	
Apple Mac OS X Server	
JVNDB-2007-000817	2009.02.10 11:32:40
Adobe Systems, Inc.	
Adobe Flash Player	

Improvement of the keeping the secure configuration on your PC
 MyJVN Configuration Checker

チェック項目 ▲	推奨値
<input checked="" type="checkbox"/> パスワードの最低文字数設定	8文字
<input checked="" type="checkbox"/> パスワードの有効期間	30日
<input checked="" type="checkbox"/> 記録するパスワードの版数	2回
<input checked="" type="checkbox"/> パスワードの変更禁止期間	10日
<input checked="" type="checkbox"/> ログオン失敗した際のパスワード入力回数	5回
<input checked="" type="checkbox"/> パスワード入力失敗回数リセットまでの時間	60分
<input checked="" type="checkbox"/> ログオン不可状態からの復帰時間	30分

Improvement of the keeping up-to-date environment on your PC
 MyJVN Version Checker

Product Name [ascending]	Result
<input checked="" type="checkbox"/> Adobe Flash Player (ActiveX)	Poor: Older Version
<input checked="" type="checkbox"/> Adobe Flash Player (Plug-in)	---: Not Installed
<input checked="" type="checkbox"/> Adobe Reader	---: Not Installed
<input checked="" type="checkbox"/> Java (JRE)	Poor: Older Version
<input checked="" type="checkbox"/> Lhtml	Good: Latest Version
<input checked="" type="checkbox"/> Mozilla Firefox	Good: Latest Version
<input checked="" type="checkbox"/> Mozilla Thunderbird	Good: Latest Version
<input checked="" type="checkbox"/> QuickTime	---: Not Installed

MyJVN Filtered Vuln. Countermeasure Info. Tool

<http://jvndb.jvn.jp/en/apis/myjvn/>



- To efficiently gather only relevant information from the vast quantity of data stored in JVN iPedia, the vulnerability countermeasure information database.

Filtering Result Window

The screenshot shows the 'Filtering Result Window' of the MyJVN tool. It displays a list of search results with columns for 'VEND ID', 'Date', and 'Description'. The results are filtered to show only relevant information. The visible results include:

VEND ID	Date	Description
JVND-2008-000009	2008.04.08 11:22:26	Apache Tomcat fails to properly handle cookie value
Apple Inc.		
Apple Mac OS X		
Apple Mac OS X Server		
JVND-2007-000817	2009.02.10 11:32:40	Flash Player vulnerable in handling cross-domain policy files
Adobe Systems, Inc.		
Adobe Flash Player		
Apple Inc.		
JVND-2008-001043	2008.11.21 12:19:56	X.Org Foundation X server buffer overflow vulnerability
Apple Inc.		
JVND-2008-000070	2008.10.22 17:49:26	Internet Explorer vulnerable in handling CDO protocol
Microsoft Corporation		
Microsoft Office XP		
JVND-2008-000016	2008.10.09 13:35:54	Sun Java Runtime Environment (JRE) contains a vulnerability in processing
Apple Inc.		
Sun Microsystems, Inc.		
JDK		
JRE		
SDK		

Detailed Information Window

The screenshot shows the 'Detailed Information Window' for the vulnerability JVND-2008-000009. It provides a detailed overview of the vulnerability, including the affected systems and their versions.

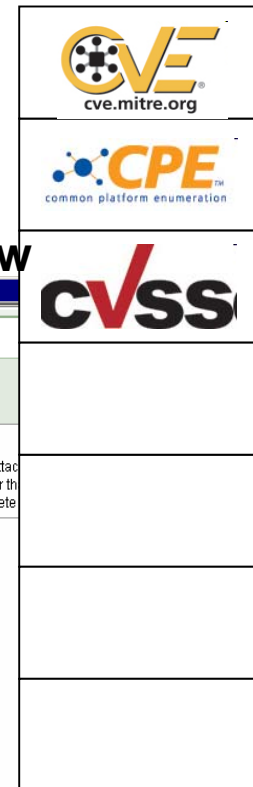
Detail of Vulnerability Note

JVND-2008-000009
Apache Tomcat fails to properly handle cookie value

Overview
Apache Tomcat from the Apache Software Foundation contains a vulnerability that could allow a remote attack to a user's web browser. Apache Tomcat from the Apache Software Foundation is a web container that runs Java Servlets and JavaServer Pages. The developer reports that this issue exists because of an incomplete

Affected system

- Apache Software Foundation
 - Apache Tomcat
 - 4.1.0 through 4.1.36
 - 5.5.0 through 5.5.25
 - 6.0.0 through 6.0.14
- Apple Inc.
 - Apple Mac OS X
 - v10.4.11
 - Apple Mac OS X Server
 - v10.4.11
 - v10.5.5
- MIRACLE LINUX CORPORATION
 - MIRACLE LINUX V2.0
 - MIRACLE LINUX V2.1
- Trend Micro, Inc.
 - TrendMicro InterScan Messaging Security Appliance
 - 7.x
 - TrendMicro InterScan Messaging Security Suite
 - 7.x



MyJVN Filtered Vuln. Countermeasure Info. Tool

<http://jvndb.jvn.jp/en/apis/myjvn/>



Filtering Result Window

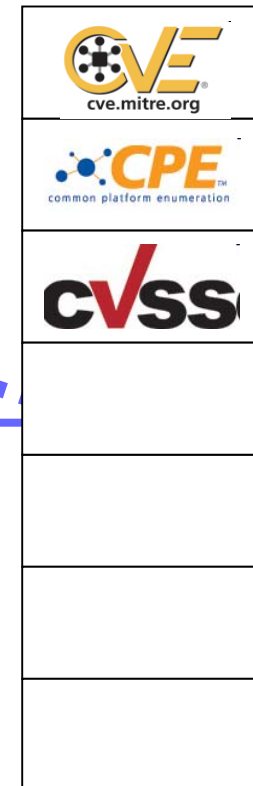
MyJVN - Filtered Vulnerability Countermeasure Information Tool - Microsoft Internet Explorer

MYJVN Setup Check List Refresh

VEND ID Results 1-10 of 32 Prev Next

JVNDB-2008-000009	2009.04.08 11:22:26	Apache Tomcat fails to properly handle cookie value
Apple Inc.		
Apple Mac OS X		
Apple Mac OS X Server		
JVNDB-2007-000817	2009.02.10 11:32:40	Flash Player vulnerable in handling cross-domain policy files
Adobe Systems, Inc.		
Adobe Flash Player		

```
<item rdf:about="http://jvndb.jvn.jp/en/contents/2008/JVNDB-2008-000009.html">
  <title>Apache Tomcat fails to properly handle cookie value</title>
  <link>http://jvndb.jvn.jp/en/contents/2008/JVNDB-2008-000009.html</link>
  <sec:identifier>JVNDB-2008-000009</sec:identifier>
  <sec:cvss score="4.3" severity="Medium" vector="" version="2.0"/>
  <sec:cpe-item name="cpe:/o:apple:mac_os_x">
    <sec:vname>Apple Inc.</sec:vname>
    <sec:title>Apple Mac OS X</sec:title>
  </sec:cpe-item>
```



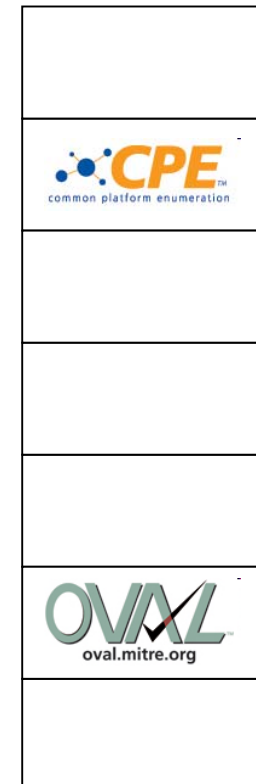
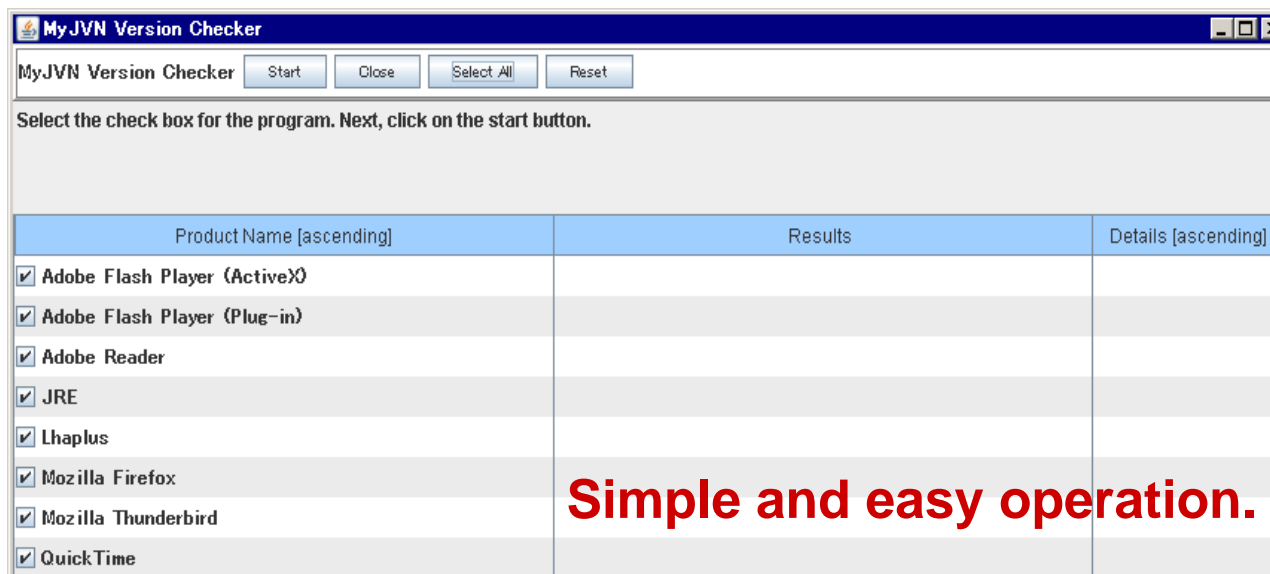
http://jvndb.jvn.jp/myjvn?method=getVulnOverviewList&cpeName=cpe/*:apple:*&rangeDatePublic=n&rangeDatePublished=n&rangeDateFirstPublished=n&lang=en

MyJVN Version Checker

<http://jvndb.jvn.jp/apis/myjvn/index.html#VCCHECK>



- **Improvement of the keeping up-to-date environment**
 - Splitting the keeping up-to-date steps into two phase.
 - Step 1: Check phase ... **MyJVN - Version Checker**
Is your PC keeping the latest version ?
 - Step 2: Remedy phase ... **Our Next issue**
Let's update the applications and the plug-ins on your PC.



MyJVN Version Checker

<http://jvndb.jvn.jp/apis/myjvn/index.html#VCCHECK>

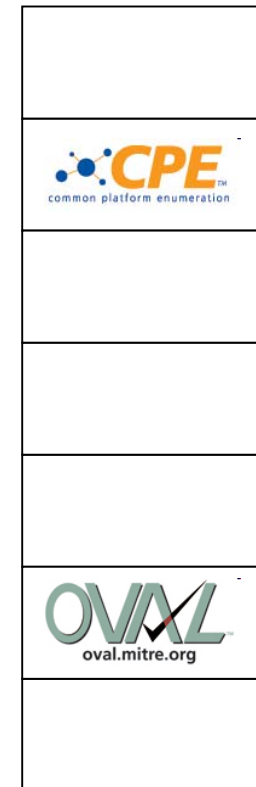


- Improvement of the keeping up-to-date environment
 - Inside flow of MyJVN Version Checker
 - (1) Generation of checklist table
 - (2) Version check

```
http://jvndb.jvn.jp/myjvn?method=getOvalList&cpeName=cpe:/a:adobe:*+cpe:/a:apple:*...  
- <Vendor vname="アップル" cpe="cpe:/:apple" vid="52">  
- <Product pname="QuickTime" cpe="cpe:/a:apple:quicktime" pid="228">  
  <definition-item oid="oval:jp.jvn.jvndb.v1.oval:def:11" />  
</Product>  
</Vendor>  
- <Vendor vname="アドビシステムズ" cpe="cpe:/:adobe" vid="39">  
- <Product pname="Adobe Flash Player (ActiveX)" cpe="cpe:/a:adobe:flash_player_active_x" pid="2142">  
  <definition-item oid="oval:jp.jvn.jvndb.v1.oval:def:6" />  
</Product>  
- <Product pname="Adobe Flash Player (Plug-in)" cpe="cpe:/a:adobe:flash_player_plugin" pid="2141">  
  <definition-item oid="oval:jp.jvn.jvndb.v1.oval:def:45" />  
</Product>
```

(1) Generation of checklist table

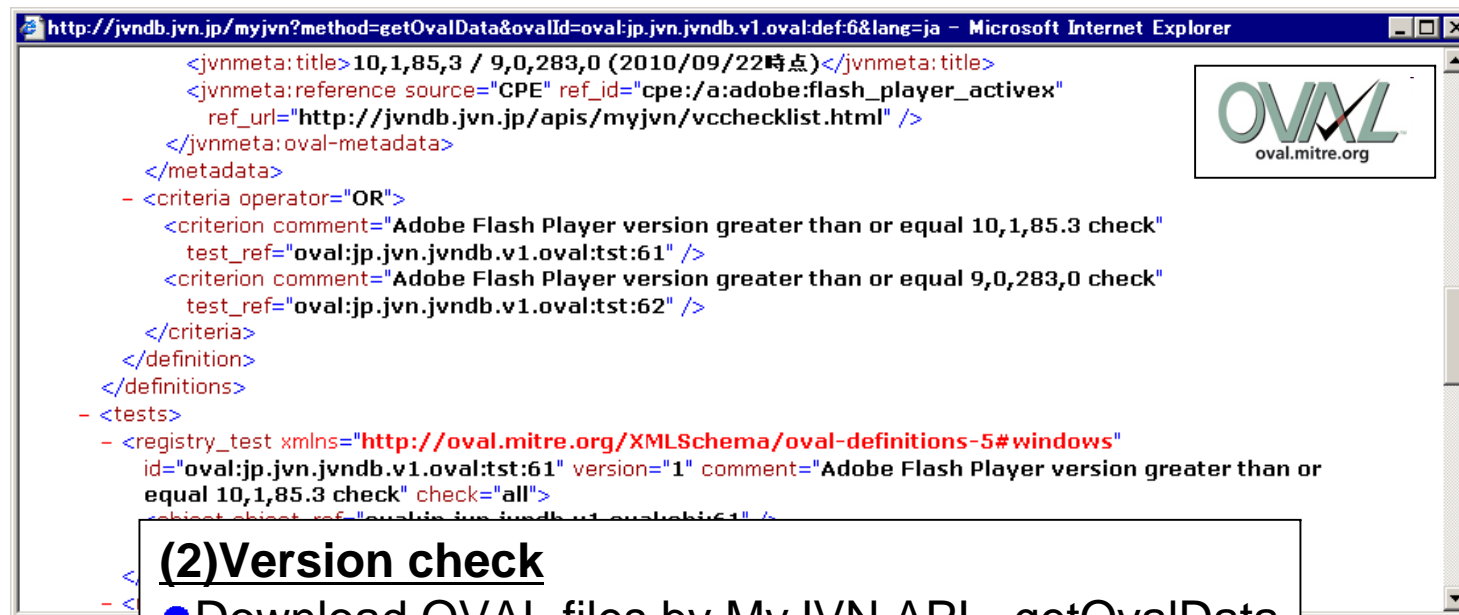
- Download XML format by MyJVN API - getOvalList
- Generation of checklist table



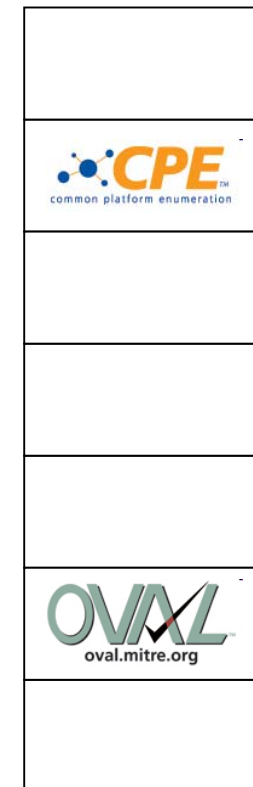
MyJVN Version Checker

<http://jvndb.jvn.jp/apis/myjvn/index.html#VCCHECK>

- Improvement of the keeping up-to-date environment
 - Inside flow of MyJVN Version Checker
 - (1) Generation of checklist table
 - **(2) Version check**



- **(2) Version check**
 - Download OVAL files by MyJVN API - getOvalData
 - Version check by enveloped OVAL



MyJVN Version Checker

<http://jvndb.jvn.jp/apis/myjvn/index.html#VCCHECK>

- Step 1: Check phase - 2 clicks
 - Click the Select ALL and the Start buttons.
- (1) Click the Select ALL button.

MyJVN Version Checker

MyJVN Version Checker Start Close Select All Reset

Select the check box for the program. Next, click on the start button.

Product Name [ascending]	Results
<input type="checkbox"/> Adobe Flash Player (ActiveX)	
<input type="checkbox"/> Adobe Flash Player (Plug-in)	
<input type="checkbox"/> Adobe Reader	
<input type="checkbox"/> JRE	
<input type="checkbox"/> Lhaplus	
<input type="checkbox"/> Mozilla Firefox	
<input type="checkbox"/> Mozilla Thunderbird	
<input type="checkbox"/> QuickTime	

MyJVN Version Checker

MyJVN Version Checker Start Close Select All Reset

Select the check box for the program. Next, click on the start button.

Product Name [ascending]	Results
<input checked="" type="checkbox"/> Adobe Flash Player (ActiveX)	
<input checked="" type="checkbox"/> Adobe Flash Player (Plug-in)	
<input checked="" type="checkbox"/> Adobe Reader	
<input checked="" type="checkbox"/> JRE	
<input checked="" type="checkbox"/> Lhaplus	
<input checked="" type="checkbox"/> Mozilla Firefox	
<input checked="" type="checkbox"/> Mozilla Thunderbird	
<input checked="" type="checkbox"/> QuickTime	

CPE common platform enumeration

OVAL oval.mitre.org

MyJVN Version Checker

<http://jvndb.jvn.jp/apis/myjvn/index.html#VCCHECK>

- **Step 1: Check phase - 2 clicks**
 - Click the **Select ALL** and the **Start** buttons.
- (2) Click the Start button.**

The screenshot shows the MyJVN Version Checker interface. The 'Start' button is circled in red. A red dashed arrow points from the 'Start' button to the 'Results' column of the table below. The table lists various products and their versions, with some marked as 'Poor: Older Version' and others as 'Good: Latest Version' or 'Not Installed'.

Product Name [ascending]	Results
<input checked="" type="checkbox"/> Adobe Flash Player (ActiveX)	Poor: Older Version
<input checked="" type="checkbox"/> Adobe Flash Player (Plug-in)	---: Not Installed
<input checked="" type="checkbox"/> Adobe Reader	---: Not Installed
<input checked="" type="checkbox"/> JRE	Poor: Older Version
<input checked="" type="checkbox"/> Lhaplus	Good: Latest Version
<input checked="" type="checkbox"/> Mozilla Firefox	Good: Latest Version
<input checked="" type="checkbox"/> Mozilla Thunderbird	Good: Latest Version
<input checked="" type="checkbox"/> QuickTime	---: Not Installed

keeping the latest version or not

MyJVN Version Checker

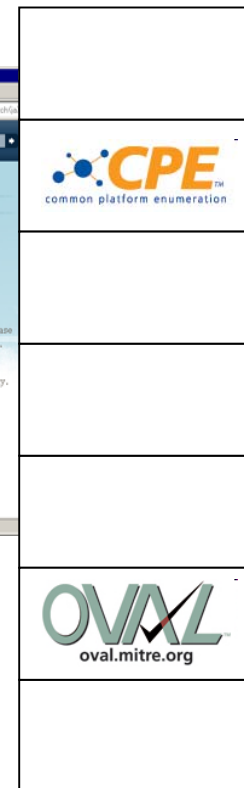
<http://jvndb.jvn.jp/apis/myjvn/index.html#VCCHECK>

- Step 2: Remedy phase - 2 clicks
 - Navigation to the application update Web site.

The screenshot shows the MyJVN Version Checker interface. A table lists various products with their current status and version information. Red dashed arrows and circles highlight specific elements: a 'Details' button for Mozilla Firefox, a 'To upgrade' link for Adobe Flash Player (ActiveX), and a 'Details' button for Mozilla Thunderbird. A red text box at the bottom right says '(3) Click the details' and another at the bottom center says '(4) Jump to the application update Web site'.

Product Name [ascending]	Result
<input checked="" type="checkbox"/> Adobe Flash Player (ActiveX)	Poor: Older Version
<input checked="" type="checkbox"/> Adobe Flash Player (Plug-in)	---: Not Installed
<input checked="" type="checkbox"/> Adobe Reader	---: Not Installed
<input checked="" type="checkbox"/> JRE	Poor: Older Version
<input checked="" type="checkbox"/> Lhaplus	Good: Latest Version
<input checked="" type="checkbox"/> Mozilla Firefox	Good: Latest Version
<input checked="" type="checkbox"/> Mozilla Thunderbird	Good: Latest Version
<input checked="" type="checkbox"/> QuickTime	---: Not Installed

Adobe Flash Player (ActiveX) Version Details
1. Latest version of the program are followings.
10.0.42.34 / 9.0.260.0 (2009/12/10時点)
2. Installed versions of the program are followings.
[Poor] 10.0.32.18 Older Version
[To upgrade](#)

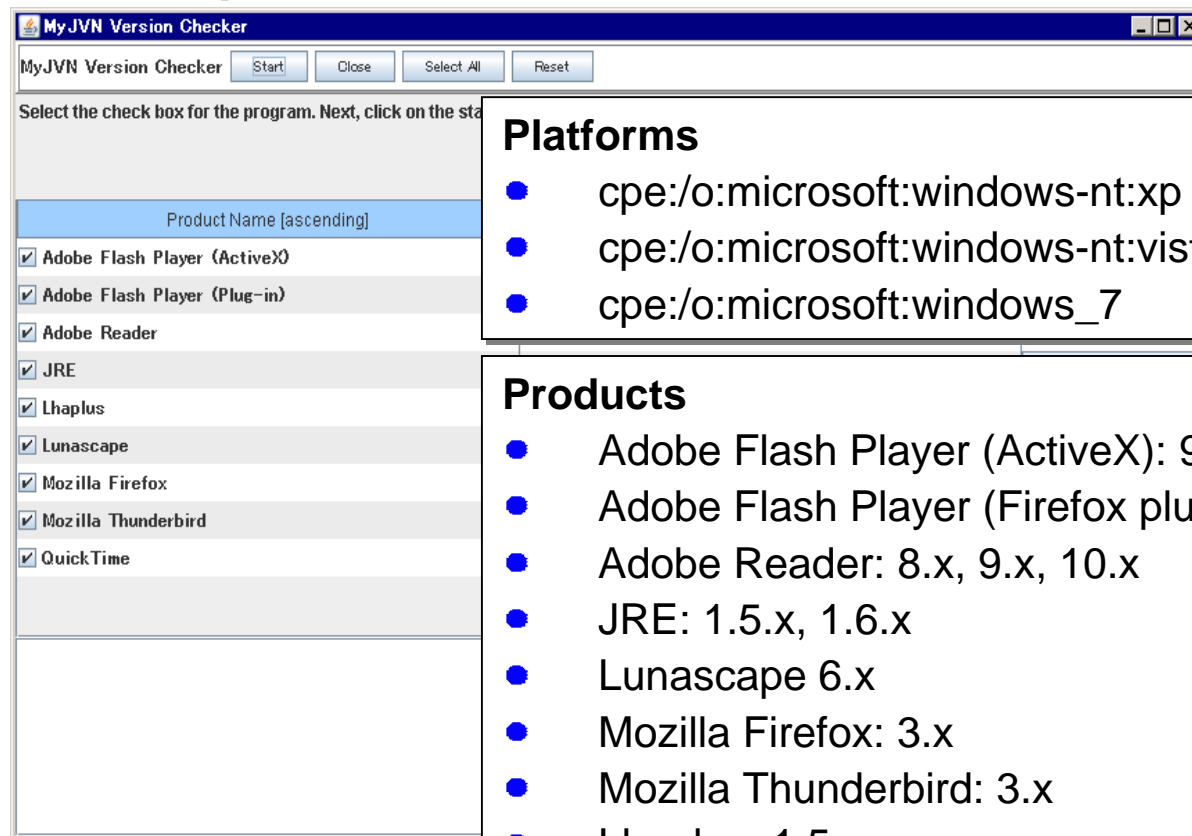


MyJVN Version Checker

<http://jvndb.jvn.jp/apis/myjvn/index.html#VCCHECK>



- MyJVN Version Checker supports three platforms and nine products.

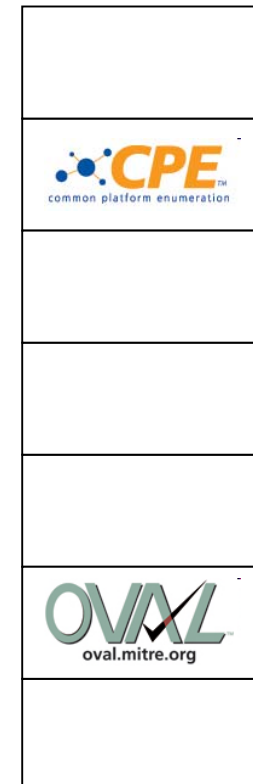


Platforms

- cpe:/o:microsoft:windows-nt:xp
- cpe:/o:microsoft:windows-nt:vista
- cpe:/o:microsoft:windows_7

Products

- Adobe Flash Player (ActiveX): 9.x, 10.x
- Adobe Flash Player (Firefox plug-in): 9.x, 10.x
- Adobe Reader: 8.x, 9.x, 10.x
- JRE: 1.5.x, 1.6.x
- Lunascape 6.x
- Mozilla Firefox: 3.x
- Mozilla Thunderbird: 3.x
- Lhaplus: 1.5.x
- QuickTime: 7.x



MyJVN Security Configuration Checker

<http://jvndb.jvn.jp/apis/myjvn/index.html#CCCHECK>



- Improvement of the keeping the secure configuration on your PC
 - Splitting the steps into Check and Remedy phase.

MyJVNセキュリティ設定チェッカ

MyJVNセキュリティ設定チェッカ [実行] [終了] [全てを選択] [選択をクリア]

「選択」されたチェック項目を「実行」することで、セキュリティに関するPC設定値が参考値を満たしているかをチェックします。「参
たしていません」と表示された場合には、表示ボタンを押下後ツール下部の内容を参考にしてPC設定値を変更してください。
利用にあたっては、[MyJVNセキュリティ設定チェッカの使い方](#)も参照ください。

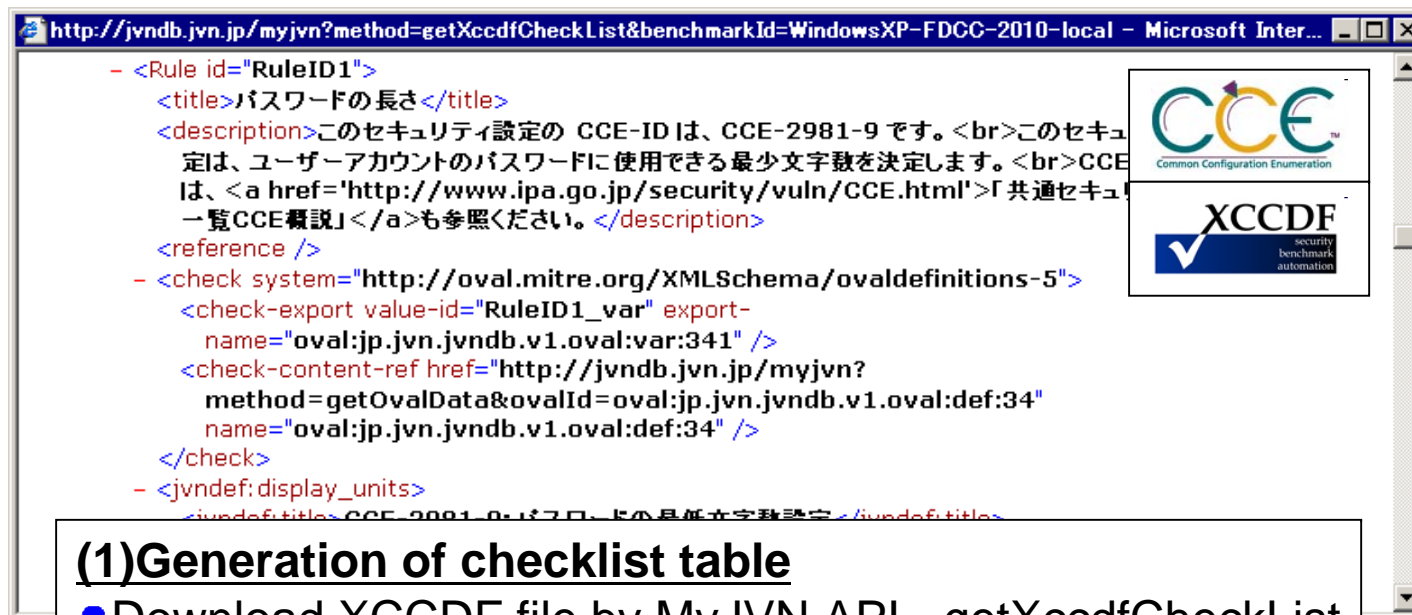
チェック項目 ▲	推奨値	PC設定値	チェック結果 ▲	結果詳
<input checked="" type="checkbox"/> パスワードの最低文字数設定	12文字	CCE-2981-9: Minimum Password Length		
<input checked="" type="checkbox"/> パスワードの有効期間	60日	CCE-2920-7: Maximum Password Age		
<input checked="" type="checkbox"/> 記録するパスワードの履歴数	24個	CCE-2994-2: Enforce Password History		
<input checked="" type="checkbox"/> パスワードの変更禁止期間	1日	CCE-2439-8: Minimum Password Age		
<input checked="" type="checkbox"/> ログオンできなくなるまでのパスワード入力失敗回数	5回	CCE-2986-8: Account Lockout Threshold		
<input checked="" type="checkbox"/> パスワード入力失敗回数のリセットまでの時間	15分	CCE-2466-1: Reset Account Lockout Cou		
<input checked="" type="checkbox"/> ログオン不可状態からの復旧時間	15分	CCE-2928-0: Account Lockout Duration		
<input checked="" type="checkbox"/> パスワード付きスクリーンセーバーの有無	有効	CCE-4500-5: Password protect the screen saver		
<input checked="" type="checkbox"/> USBメモリ自動実行機能の無効化設定	無効	CCE-2154-3: Disable the Autorun functionality		

MyJVN Security Configuration Checker

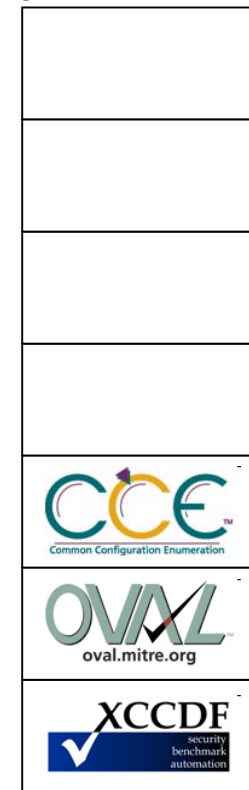
<http://jvndb.jvn.jp/apis/myjvn/index.html#CCCHECK>



- Improvement of the keeping the secure configuration on your PC
 - Inside flow of MyJVN Security Configuration Checker
 - (1) Generation of checklist table
 - (2) Configuration check



- (1) Generation of checklist table
- Download XCCDF file by MyJVN API - getXccdfCheckList
- Generation of checklist table by enveloped XCCDF



MyJVN Security Configuration Checker

<http://jvndb.jvn.jp/apis/myjvn/index.html#CCCHECK>



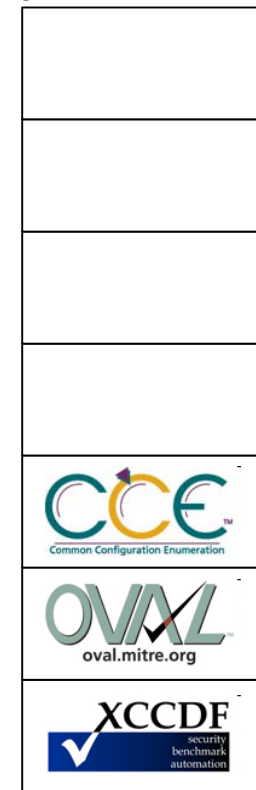
- **Improvement of the keeping the secure configuration on your PC**

- Inside flow of MyJVN Security Configuration Checker

- (1) Generation of checklist table
- **(2) Configuration check**

```
</definitions>
- <tests>
- <passwordpolicy_test xmlns="http://oval.mitre.org/XMLSchema/oval-definitions-
  5#windows" id="oval:jvn.jvndb.v1.oval:tst:341" version="1" comment="パスワード
  check="all">
  <object object_ref="oval:jvn.jvndb.v1.oval:obj:341" />
  <state state_ref="oval:jvn.jvndb.v1.oval:ste:341" />
</passwordpolicy_test>
</tests>
- <objects>
- <passwordpolicy_object xmlns="http://oval.mitre.org/XMLSchema/oval-definitions-
  5#windows" id="oval:jvn.jvndb.v1.oval:obj:341" version="1">
  - <jvndef:api_object>
  <jvndef:filename>jp.myjvn.checker.common.reader.PolicyReader</jvndef:filename>
  <jvndef:functionname>func6</jvndef:functionname>
  <jvndef:parameter>0</jvndef:parameter>
  </jvndef:api_object>
</passwordpolicy_object>
</objects>
```

- **(2) Configuration check**
- Download OVAL files by MyJVN API - getOvalData
- Configuration check by enveloped OVAL



MyJVN Security Configuration Checker

<http://jvndb.jvn.jp/apis/myjvn/index.html#CCCHECK>



- Step 1: Check phase - 2 clicks
 - Click the Select ALL and the Start buttons.

(1) Click the Select ALL button.

チェック項目 ▲	推奨値	PC設定値	チェック結果 ▲
<input checked="" type="checkbox"/> パスワードの最低文字数設定	8文字		
<input checked="" type="checkbox"/> パスワードの有効期間	30日		
<input checked="" type="checkbox"/> 記録するパスワードの履歴数	2個		
<input checked="" type="checkbox"/> パスワードの変更禁止期間	10日		
<input checked="" type="checkbox"/> ログオンできなくなるまでのパスワード入力失敗回数	5回		
<input checked="" type="checkbox"/> パスワード入力失敗回数のリセットまでの時間	60分		
<input checked="" type="checkbox"/> ログオン不可状態からの復旧時間	30分		
<input checked="" type="checkbox"/> スクリーンセーバーが起動するまでの時間	30分		
<input checked="" type="checkbox"/> パスワード付きスクリーンセーバーの有無	有効		
<input checked="" type="checkbox"/> USBメモリ自動実行機能の無効化設定	無効		



MyJVN Security Configuration Checker

<http://jvndb.jvn.jp/apis/myjvn/index.html#CCCHECK>



- Step 1: Check phase - 2 clicks
 - Click the Select ALL and the Start buttons.

(2) Click the Start button.

The screenshot shows the MyJVN Security Configuration Checker interface. The '実行' (Start) button is circled in red. A table below shows the configuration items and their results. A red circle highlights the '実行' button and the table.

チェック項目 ▲	推奨値	PC設定値	チェック結果 ▲
<input checked="" type="checkbox"/> パスワードの最低文字数設定	8文字	0文字	X 参考値を満たしていません
<input checked="" type="checkbox"/> パスワードの有効期間	30日	42日	X 参考値を満たしていません
<input checked="" type="checkbox"/> 記録するパスワードの履歴数	2個	0個	X 参考値を満たしていません
<input checked="" type="checkbox"/> パスワードの変更禁止期間	10日	0日	X 参考値を満たしていません
<input checked="" type="checkbox"/> ログオンできなくなるまでのパスワード入力失敗回数	5回	0回	X 参考値を満たしていません
<input checked="" type="checkbox"/> パスワード入力失敗回数のリセットまでの時間	60分	30分	X 参考値を満たしていません
<input checked="" type="checkbox"/> ログオン不可状態からの復旧時間	30分	30分	○ 参考値を満たしています
<input checked="" type="checkbox"/> スクリーンセーバーが起動するまでの時間	30分	10分	○ 参考値を満たしています
<input checked="" type="checkbox"/> パスワード付きスクリーンセーバーの有無	有効	無効	X 参考値を満たしていません
<input checked="" type="checkbox"/> USBメモリ自動実行機能の無効化設定	無効	有効	X 参考値を満たしていません

keeping the secure configuration or not

MyJVN Security Configuration Checker

<http://jvndb.jvn.jp/apis/myjvn/index.html#CCCHECK>

- Step 2: Remedy phase - 2 clicks
 - Navigation to the configuration description Web site.

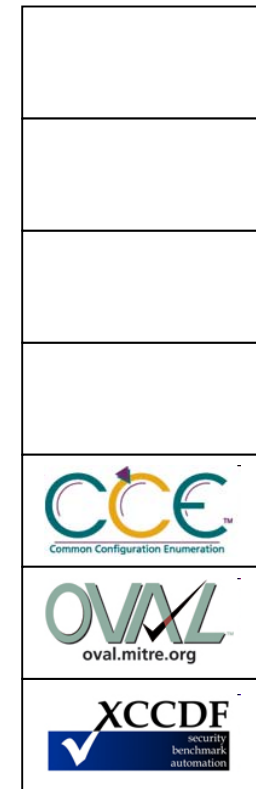
The screenshot shows the MyJVN Security Configuration Checker interface. A table lists various security settings with their current status and recommended values. A red dashed arrow points from the 'Details' button in the table to the '設定変更方法はここです' link in the text below. Another red dashed arrow points from the 'Details' button to the 'Federal Desktop Core Configuration' website shown in the background browser window.

チェック項目 ▲	推奨値	現在値	ステータス	操作
<input checked="" type="checkbox"/> パスワードの最低文字数設定	8文字			
<input checked="" type="checkbox"/> パスワードの有効期間	30日			
<input checked="" type="checkbox"/> 記録するパスワードの履歴数	2個			
<input checked="" type="checkbox"/> パスワードの変更禁止期間	10日			
<input checked="" type="checkbox"/> ログオンできなくなるまでのパスワード入力失敗回数	5回			
<input checked="" type="checkbox"/> パスワード入力失敗回数のリセットまでの時間	60分			
<input checked="" type="checkbox"/> ログオン不可状態からの復旧時間	30分	30分	○ 参考値を満たしています	表示
<input checked="" type="checkbox"/> スクリーンセーバーが起動するまでの時間	30分	10分	○ 参考値を満たしています	表示
<input checked="" type="checkbox"/> パスワード付きスクリーンセーバーの有無	有効	無効	X 参考値を満たしていません	表示
<input checked="" type="checkbox"/> USBの自動再生機能の有無	無効	有効	X 参考値を満たしていません	表示

ログオンできなくなるまでのパスワード入力失敗回数 設定変更方法

推奨しているパスワード入力失敗回数は5回以内です。
以下のURLを参考に、ログオンできなくなるまでのパスワード入力失敗回数を変更してください。
[設定変更方法はここです](#)

ログオンできなくなるまでのパスワード入力失敗回数 詳細情報



(3) Click the details

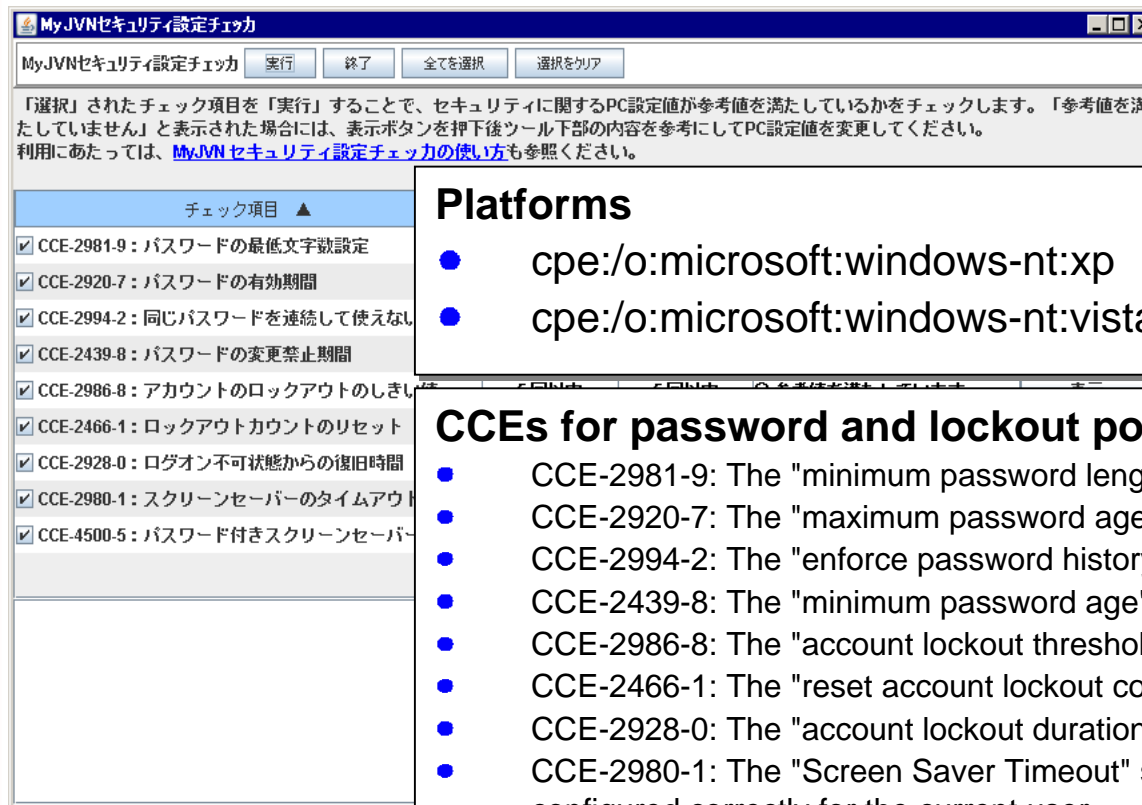
(4) Jump to the configuration description Web site

MyJVN Security Configuration Checker

<http://jvndb.jvn.jp/apis/myjvn/index.html#CCCHECK>



- MyJVN Security Configuration Checker supports two platforms, the CCEs for password and lockout policies.

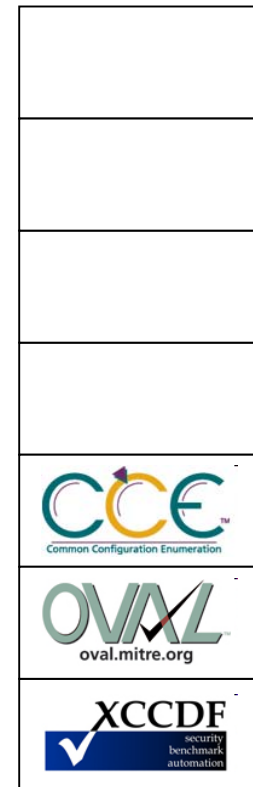


Platforms

- cpe:/o:microsoft:windows-nt:xp
- cpe:/o:microsoft:windows-nt:vista

CCEs for password and lockout policies

- CCE-2981-9: The "minimum password length" policy
- CCE-2920-7: The "maximum password age" policy
- CCE-2994-2: The "enforce password history" policy
- CCE-2439-8: The "minimum password age" policy
- CCE-2986-8: The "account lockout threshold" policy
- CCE-2466-1: The "reset account lockout counter after" policy
- CCE-2928-0: The "account lockout duration" policy
- CCE-2980-1: The "Screen Saver Timeout" setting should be configured correctly for the current user.
- CCE-4500-5: The "Password protect the screen saver" setting should be configured correctly for the current user.

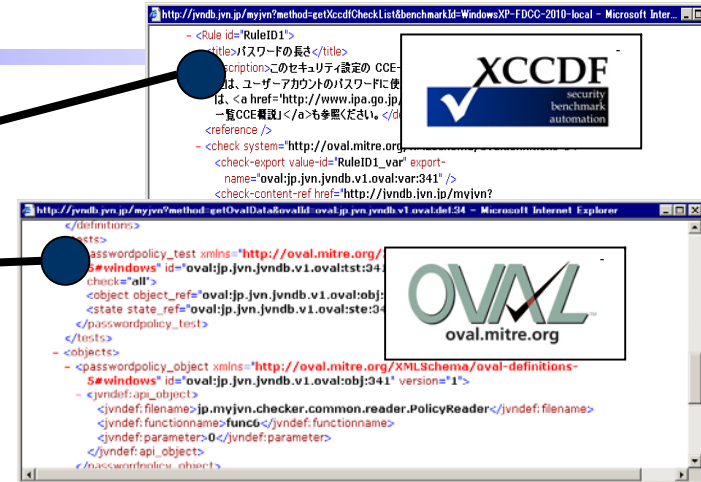


Topic: Schema extension to human readable in MyJVN Security Configuration Checker

- **jrndef:display_units**
display_units defines an element that is used to hold the information on unit of each value of the profile.
http://jrndef.jp/schema/jrndefinitions_0.1.xsd
 - jrndef:unit_name
 - jrndef:unit_time
 - jrndef:unit_number
 - jrndef:unit_replace
 - jrndef:unit_and

Topic: Schema extension to human readable in MyJVN Security Configuration Checker

(1) SCC loads XCCDF file and makes XCCDF based checklist table



(2) SCC loads 10 OVAL files and checks 10 items.

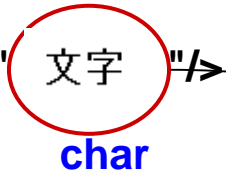
Check Items	Recommendation	PC Setting Value	Result
CCE-2981-9: Minimum Password Length	8 char	0 char	Bad
CCE-2920-7: Maximum Password Age	30 day	42 day	Bad
CCE-2994-2: Enforce Password History	2 history	0 history	Bad
CCE-2439-8: Minimum Password Age	10 day	0 day	Bad
CCE-2986-8: Account Lockout Threshold	5 time	0 time	Bad
CCE-2466-1: Reset Account Lockout Counter After	60 min	30 min	Bad
CCE-2928-0: Account Lockout Duration	30 min	30 min	Good
: Screen saver Activation Time	30 min	10 min	Good
CCE-4500-5: Password protect the screen saver	Enabled	Disabled	Bad
CCE-2154-3: Disable the Autorun functionality	Disabled	Enabled	Bad

jvndef:unit_name
 jvndef:unit_time
 jvndef:unit_name
 jvndef:unit_time
 jvndef:unit_name
 jvndef:unit_time
 jvndef:unit_name
 jvndef:unit_time
 jvndef:unit_time
 jvndef:unit_replace
 jvndef:unit_and

Topic: Schema extension to human readable in MyJVN Security Configuration Checker

- **jrndef:unit_name**

```
<Value id="MinimumPasswordLength_var"  
  <title>Minimum Password Length</title>  
  <value>8</value>  
  <value selector="8_characters">8</value>  
  <value selector="9_characters">9</value>  
  <value selector="12_characters">12</value>  
  <value selector="DISA-Gold">9</value>  
  <value selector="DISA-Platinum">9</value>  
  <value selector="NSA">12</value>  
  <value selector="FDCC-Desktop">12</value>  
  <value selector="IPACONFIG2009">8</value>  
  <jrndef:display_units>  
    <jrndef:unit_name unit="文字"/>  
  </jrndef:display_units>  
</Value>
```



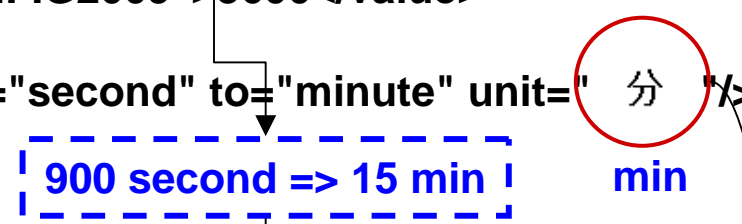
チェック項目 ▲	推奨値
<input checked="" type="checkbox"/> パスワードの最低文字数設定	12文字

char

Topic: Schema extension to human readable in MyJVN Security Configuration Checker

- **javndef:unit_time**

```
<Value id="AccountLockoutDuration_var"
  <title>Account Lockout Duration</title>
  <value>900</value>
  <value selector="admin_unlock">0</value>
  <value selector="900_seconds">900</value>
  <value selector="86400_seconds">86400</value>
  <value selector="DISA-Platinum">0</value>
  <value selector="DISA-Gold">0</value>
  <value selector="FDCC-Desktop">900</value>
  <value selector="IPACONFIG2009">3600</value>
  <jvndef:display_units>
    <jvndef:unit_time from="second" to="minute" unit=" 分 "/>
  </jvndef:display_units>
</Value>
```



チェック項目 ▲	推奨値
<input checked="" type="checkbox"/> ログオン不可状態からの復旧時間	15分 min

Topic: Schema extension to human readable in MyJVN Security Configuration Checker

- **jvndef:unit_number**

```
<Value id="AccountLockoutDuration_var"
  <title>Account Lockout Duration</title>
  <value>900</value>
  <value selector="admin_unlock">0</value>
  <value selector="900_seconds">900</value>
  <value selector="86400_seconds">86400</value>
  <value selector="DISA-Platinum">0</value>
  <value selector="DISA-Gold">0</value>
  <value selector="FDCC-Desktop">900</value>
  <value selector="IPACONFIG2009">3600</value>
  <jvndef:display_units>
    <jvndef:unit_number operation="divide" operand="60" unit="分"/>
  </jvndef:display_units>
</Value>
```

operation
divide, multiply, plus, minus

900 second => (900/60) => 15 min

チェック項目 ▲	推奨値
<input checked="" type="checkbox"/> ログオン不可状態からの復旧時間	15分

min

Topic: Schema extension to human readable in MyJVN Security Configuration Checker

- `jnndef:unit_replace`

```
<Value id="ScreenSaverIsSecure_var"
  <title>Password protect the screen saver</title>
  <value>1</value>
  <value selector="disabled">0</value>
  <value selector="enabled">1</value>
  <value selector="FDCC-Desktop">1</value>
  <value selector="IPACONFIG2009">1</value>
  <jnndef:display_units>
    <jnndef:unit_replace from="0" to=" 無効 "/> disabled
    <jnndef:unit_replace from="1" to=" 有効 "/> enabled
  </jnndef:display_units>
</Value>
```

1 => enabled

チェック項目 ▲	推奨値
<input checked="" type="checkbox"/> パスワード付きスクリーンセーバーの有無	有効

enabled

Topic: Schema extension to human readable in MyJVN Security Configuration Checker

- `jdvndef:unit_and`

```

<Value id="RestrictDriveTypeAutoRun_var"
  <title>Restrict CD-ROM/USB Access (Restrict CD-ROM/USB Autorun)</title>
  <value>FF</value>
  <value selector="enabled">0</value>
  <value selector="disabled">4</value>
  <value selector="IPACONFIG2009">4</value>
  <jdvndef:display_units>
    <jdvndef:unit_and operand=" 4" trueresult=" 無効 " falseresult=" 有効 " />
  </jdvndef:display_units>
</Value>
  
```

NoDriveTypeAutoRun

FF(1111 1111) && 4(0000 0100) = 00000100 => trueresult => disabled
 04(0000 0100) && 4(0000 0100) = 00000100 => trueresult => disabled
 00(0000 0000) && 4(0000 0100) = 00000000 => falseresult => enabled

チェック項目 ▲	推奨値
<input checked="" type="checkbox"/> USBメモリ自動実行機能の無効化設定	無効 disabled

Topic: Schema extension to human readable in MyJVN Security Configuration Checker

- Modification of xccdf-1.1.4.xsd to include display_units

```
<xsd:element name="fixtext" type="cdf:fixtextType" minOccurs="0"
maxOccurs="unbounded" />
<xsd:element name="fix" type="cdf:fixType" minOccurs="0" maxOccurs="unbounded" />
- <xsd:choice>
  <xsd:element name="check" type="cdf:checkType" minOccurs="0"
maxOccurs="unbounded" />
  <xsd:element name="complex-check" minOccurs="0" type="cdf:complexCheckType"
maxOccurs="1" />
</xsd:choice>
<xsd:element name="signature" type="cdf:signatureType" minOccurs="0"
maxOccurs="1" />
<!-- ***** -->
<!-- ***** Customized field for MyJVN ***** -->
<!-- ***** Masato Terada ***** -->
<!-- ***** 2009-10-07T02:18+00:00 ***** -->
<!-- ***** -->
<!-- ***** Add JVNDEFrule ***** -->
<xsd:element ref="jvndef:display_units" minOccurs="0" maxOccurs="1" />
</xsd:sequence>
<xsd:attribute name="role" type="cdf:roleEnumType" use="optional" default="full" />
<xsd:attribute name="severity" type="cdf:severityEnumType" default="unknown"
use="optional" />
<xsd:attribute name="multiple" type="xsd:boolean" use="optional" />
```

Collaboration possibilities of CPE

<http://nvd.nist.gov/cpe.cfm>



- To keep consistency between Official CPE dictionary (+ CPE name in NVD) and MyJVN CPE DB.

National Vulnerability Database
automating vulnerability management, security measurement, and compliance checking

Official Common Platform Enumeration (CPE) Dictionary

NVD is the U.S. government repository of standards based vulnerability management data. This data enables automation of vulnerability management, security measurement, and compliance (e.g. FISMA).

Resource Status

NVD contains:

- 43868 CVE Vulnerabilities
- 160 Checklists
- 207 US-CERT Alerts
- 2419 US-CERT Vuln Notes
- 6057 OVAL Queries

Last updated: 10/06/10
CVE Publication rate: 12 vulnerabilities / day

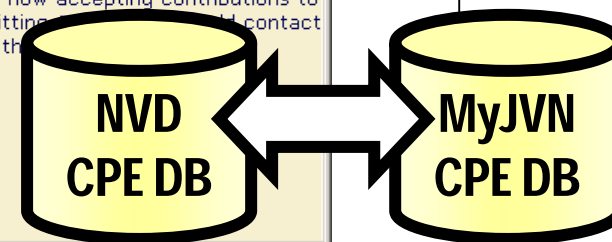
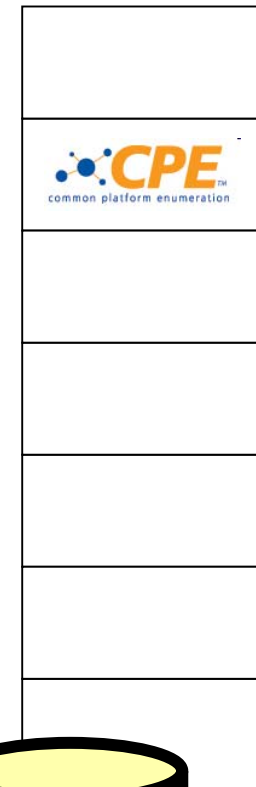
CPE is a structured naming scheme for information technology systems, software, and packages. Based upon the generic syntax for Uniform Resource Identifiers (URI), CPE includes a formal name format, a method for checking names against a system, and a description format for binding text and tests to a name.

Below is the current official version of the CPE Product Dictionary. The dictionary provides an agreed upon list of official CPE names. The dictionary is provided in XML format and is available to the general public. Please check back frequently as the CPE Product Dictionary will continue to grow to include all past, present and future product releases. Archived CPE dictionaries are available at <http://static.nvd.nist.gov/feeds/xml/cpe/dictionary/>.

As of December 2009, The National Vulnerability Database is now accepting contributions to the Official CPE Dictionary. Organizations interested in submitting a new entry should contact the NVD CPE team at cpe_dictionary@nist.gov for help with the submission.

CPE Dictionary:

- [official-cpe-dictionary_v2.2.xml](#) ~7.5MB, 10/05/2010
- [CPE Dictionary Search](#)
- [CPE Dictionary Growth Statistics](#)

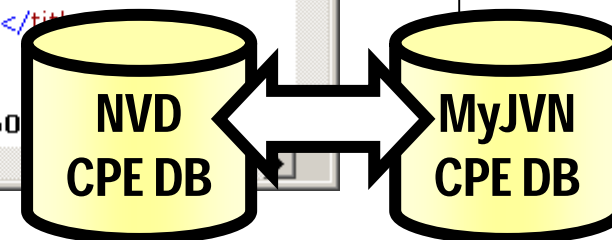
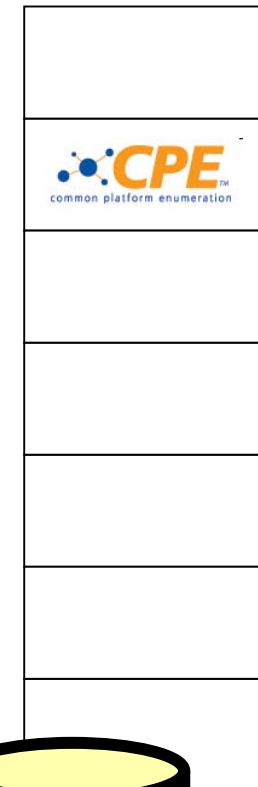


Collaboration possibilities of CPE

<http://nvd.nist.gov/cpe.cfm>

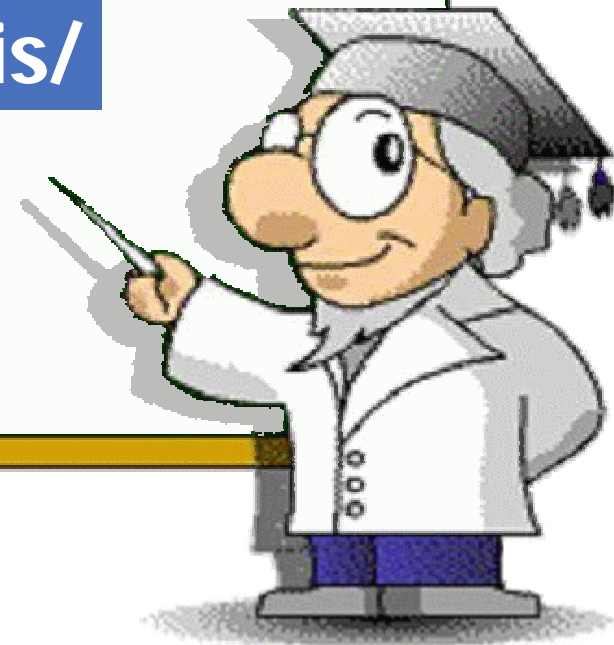
- Registration of Japanese products and titles for keeping consistency between Official CPE dictionary (+ CPE name in NVD) and MyJVN CPE DB.

```
</cpe-item>
- <cpe-item name="cpe:/h:iij:seil%2Fb1">
  <title xml:lang="ja-JP">インターネットイニシアティブ SEIL/B1</title>
  <title xml:lang="en-US">IIJ SEIL/B1</title>
  <meta: item-metadata modification-date="2009-12-01T09:47:49.110-05:00" status="DRAFT" nvd-id="116032" />
</cpe-item>
- <cpe-item name="cpe:/h:iij:seil%2Fx1">
  <title xml:lang="ja-JP">インターネットイニシアティブ SEIL/X1</title>
  <title xml:lang="en-US">IIJ SEIL/X1</title>
  <meta: item-metadata modification-date="2009-12-01T09:47:41.843-05:00" status="DRAFT" nvd-id="116030" />
</cpe-item>
- <cpe-item name="cpe:/h:iij:seil%2Fx2">
  <title xml:lang="ja-JP">インターネットイニシアティブ SEIL/X2</title>
  <title xml:lang="en-US">IIJ SEIL/X2</title>
  <meta: item-metadata modification-date="2009-12-01T09:47:43.517-05:00" status="DRAFT" nvd-id="116031" />
</cpe-item>
```






机可読 is the framework of machine readable environment with the common enumeration based as a security information sharing and exchanging.

<http://jvndb.jvn.jp/en/apis/>



References

- **JVN (Vulnerability Handling Coordination DB)**
<http://jvn.jp/en/>

- **JVN iPedia (Vulnerability Archiving DB)**
<http://jvndb.jvn.jp/en/>

- **MyJVN**
<http://jvndb.jvn.jp/en/apis/myjvn/>

- **JVNRSS (JP Vendor Status Notes RSS) Feasibility Study Site**
<http://jvnrss.ise.chuo-u.ac.jp/jtg/>
- **Information Security Early Warning Partnership**
http://www.ipa.go.jp/security/english/quarterlyrep_vuln.html#Partnership

References

- **JVNRSS (Japan Vulnerability Notes RSS)**
`http://jvndb.jvn.jp/en/schema/jvnrss.html`
`namespace="http://purl.org/rss/1.0/"`
`schemaLocation="http://jvndb.jvn.jp/schema/jvnrss_2.0.xsd"`
- **Qualified Security Advisory Reference (mod_sec)**
`http://jvndb.jvn.jp/en/schema/mod_sec.html`
`namespace="http://jvn.jp/rss/mod_sec/"`
`schemaLocation="http://jvndb.jvn.jp/schema/mod_sec_2.0.xsd"`
- **VULDEF**
The VULnerability Data publication and Exchange Format data model
`http://jvndb.jvn.jp/en/schema/vuldef.html`
`namespace="http://jvn.jp/vuldef/"`
`schemaLocation="http://jvndb.jvn.jp/schema/vuldef_2.0.xsd"`

Thank you

Briefing: SCAP activities in Japan

March 22, 2011

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IPA (Information-technology Promotion Agency, Japan)