The Current State of Vulnerability Reporting

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JVN(Japan Vulnerability Note)
JVN iPedia

November 13, 2012
Contents

- About IPA?
- Web site vulnerability
- JVN (Japan Vulnerability Note) state
- JVN iPedia state
About IPA
http://www.ipa.go.jp/index-e.html

- Information–technology Promotion Agency, Japan (IPA)
- A government-affiliated agency to promote IT
About IPA

http://www.ipa.go.jp/index-e.html
Publications in IT Security field

  - What threat strikes you most?
  - What threat do you think has 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

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IPA and JPCERT/CC operate the vulnerability information handling framework. (Early Warning Partnership)

JVN is a portal DB to announce security countermeasure to public.

We aim to promote security countermeasure through this scheme.
We handle two types of vulnerability - Website and Software Products.

Over 6,000 websites were reported with vulnerability, and about 4,000 websites were fixed.
Features of reported website vulnerability

- Cross-site Scripting accounts for 50% of total.

The most reported types of website was corporate website. Next is Japanese local government website.
Contents

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- JVN iPedia state
JVN was launched in 2004 at the same time as the vulnerability reporting scheme.

Approximately 1,500 cases have been registered in 8 years.
Web Application (like a httpd server etc) is the most-reported software type for having vulnerabilities.
Open source? or Commercial software?

- Open source software accounts for one-third of total vulnerabilities.
- Recently, the percentage of open source software is increasing a little bit.
Contents

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**JVN iPedia**

- JVN iPedia (aka. Vulnerability Archiving DB) focuses on regional vulnerabilities (which depend on IT market) in Japan.
- The Vulnerability Archiving DB stores summary and countermeasure information on vulnerabilities in Japanese software and other products posted on JVN.
Quarterly changes in the count of vulnerabilities
The vulnerability countermeasure information registered from April 25, 2007 to the 3rd Quarter of 2012 (July 1, 2011 to Sep 30, 2012) to the Japanese version of JVN iPedia.
- Now, JVN iPedia covers the NVD data of past 3 year (from 2010 to 2012).
- JVN iPedia (Vulnerability Archiving DB) focuses on regional vulnerabilities (which depends on IT market) in Japan.

- The number of registered cases in JVN iPedia surpasses 30,000

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<td>Total</td>
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<td>JVN</td>
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<td>682</td>
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<tr>
<td>Total</td>
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JVN iPedia (Vulnerability Archiving DB)

- JVN iPedia is a database for vulnerability information.
- 50,000 cases are managed and translated into Japanese.
- 30,000 cases are managed in English.
- The database is synchronized with NVD (National Vulnerability Database).
- JVN iPedia plans to increase its contents to 35,000 cases by December.
- Now, we try to synchronize JVN iPedia with NVD.

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JVN iPedia (Vulnerability Archiving DB)

- Android Platform vulnerabilities (mostly Android applications) are increasing this year.
Feature of vulnerability
Control System

- Status of Control System Registration
  - The number of control system vulnerabilities is increasing in the past 2 years.
  - The percentage of critical vulnerabilities is high.
Thank you

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