<u>Reporting Status of Vulnerability-related Information</u> about Software Products and Websites

- 3rd Quarter of 2010 (July - September) -

Information-technology Promotion Agency, Japan (IPA) and Japan Computer Emergency Response Team Coordination Center (JPCERT/CC), initiated to handle vulnerability-related information in July, 2004, pursuant to the Standards for Handling Software Vulnerability Information and Others (Directive #235, 2004) by the Ministry of Economy, Trade and Industry (METI).

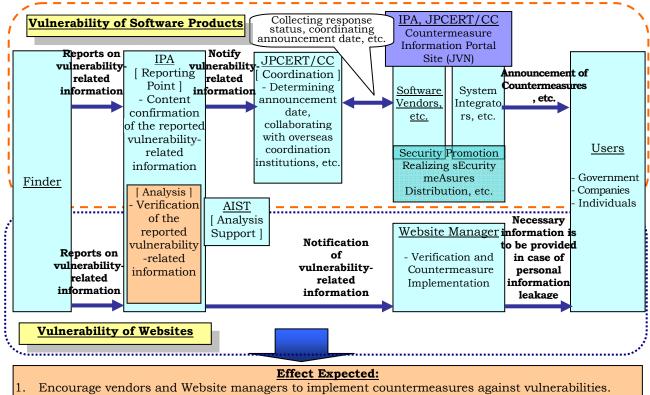
With the authority given by the Directive, IPA has been collecting reports on the following vulnerability-related information:

1: Vulnerability-related Information about Software Products:

Vulnerabilities against client Software such as OS and browser, server Software such as Web server, Software embedded in hardware such as IC card, and so on. Other than vulnerability itself, information on verification methods, attacking methods and workarounds are also accepted. IPA will notify these vulnerability-related information to JPCERT/CC and it will communicate those information to concerned organizations such as domestic product vendors.

2: Vulnerability-related Information about Websites (Web Applications):

Vulnerabilities against Websites which provide services to the public through the Internet. IPA will notify such vulnerability-related information to Website managers to prompt modification.



- 2. Prevent vulnerabilities from being carelessly publicized or left unsolved.
- 3. Prevent important information, such as personal information, from being disclosed and/or critical systems from being shut down.

"Information Security Early Warning Partnership" (Framework for Handling Vulnerability-related Information)

Source: Handouts from explanatory session on handling vulnerability-related information (General introduction to the standards for handling Software vulnerability-related information and its guidelines) by the Ministry of Economy, Trade and Industry

The statistics for the 3^{rd} Quarter of 2010 (July – September) from the data collected based on the framework is summarized as follows.

1. Reported Number and Handling Status of Reports:

The total number of vulnerability-related information reported to IPA from July 1 to September 30, 2010 was 115: 42 of them were on Software products and the rest of 73 were on Websites. The cumulative number of reports made to IPA since the framework started (July 8, 2004) was 6417: 1126 of them were on Software products and the rest of 5291 were on Websites. The Chart 1-1 shows the reporting status for respective quarters.

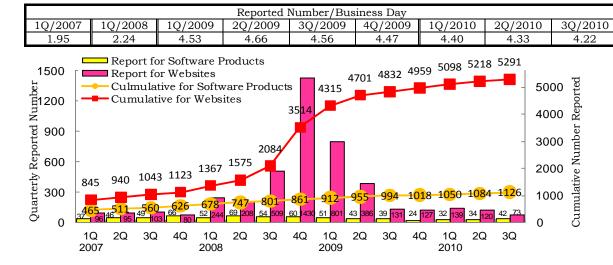


Chart 1-1: Quarterly Number of Vulnerability-related Information

The Chart 1-2 shows the processing status of reports on the vulnerability-related information as of the end of September, 2010. As for Software products, 45% (435) of the reports being accepted as vulnerability (963) have been fixed and publicized. As for Websites, 62% (3209) of the reports being accepted as vulnerability (5143) have been fixed.

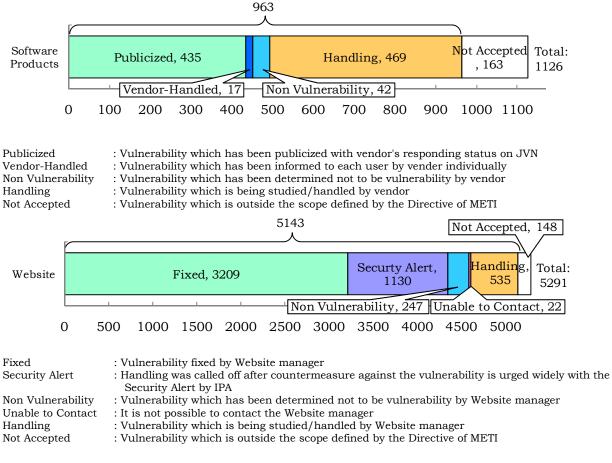
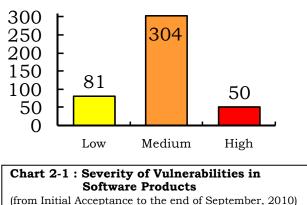


Chart 1-2: Processing Status of Reporting for Vulnerability-related Information (As of the end of September, 2010)

2. Handling of Vulnerability-related Information on Software Products and its Coordination:

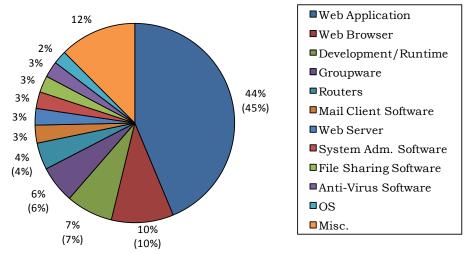
The total number of information related to vulnerabilities in Software Products reported to IPA since the framework started in July 8, 2004, was 1126. The Chart 2-1 shows the breakdown for 435 of publicized vulnerabilities, and the Chart 2-2 shows the breakdown for 963 reports related to the vulnerabilities in Software products.

The vulnerabilities are organized according to their severity, determined by the Common Vulnerability Scoring System (CVSS v2) standard. The scale of low, medium, and high severity corresponds to the following scores:



Vulnerabilities will be labeled the Low severity if they have a CVSS base score of 0.0 - 3.9.
Medium - Vulnerabilities will be labeled the Medium severity if they have a CVSS base score of 4.0 - 6.9.
High - Vulnerabilities will be labeled the High severity if they have a CVSS base score of 7.0 - 10.0.

The most reported was Web application and subsequently followed by Web Browser and those listed below.



Misc. in this graph includes Software for Peripheral Device, Word-processing Software, Database, etc. (Breakdown of 963: Numbers in parenthesis are for the previous quarter)

Chart 2-2: Breakdown for the Vulnerabilities in Software Products (from July 8, 2004 to the end of September, 2010)

The Chart 2-3 shows the time required for the announcement of vulnerabilities in Software products. 36% of reports was addressed within 45 days from its initial reporting to announcement.

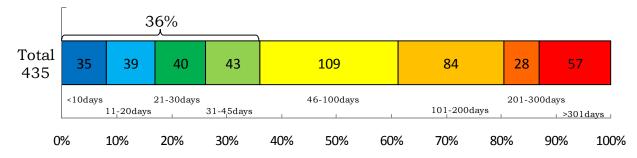
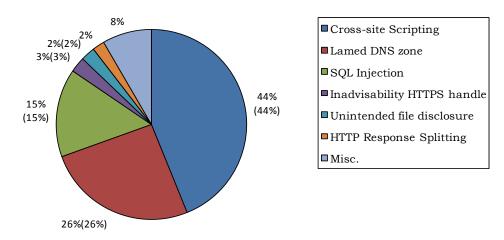


Chart 2-3: Time Required for the Announcement of Vulnerabilities in Software Products

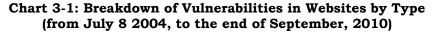
In this Quarter, 9 vulnerabilities were being publicized.

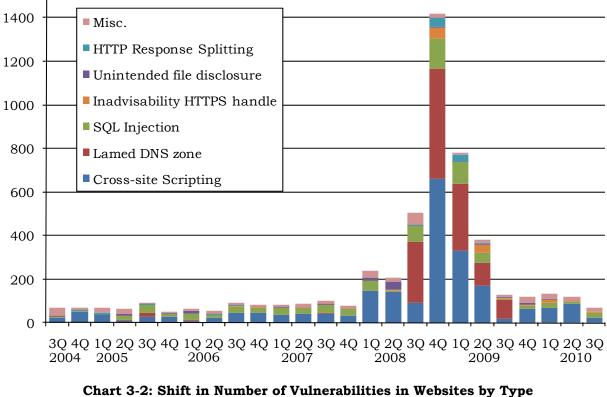
3. Handling of Vulnerability-related Information for Websites:

The total number of information related to vulnerabilities in Websites reported to IPA since the framework started in July 8, 2004, was 5291: excluding those being determined not to be vulnerability, the breakdowns for 5143 information reported are shown in the Chart 3-1 and 3-2.



- Breakdown of 5143: Numbers in the parenthesis are for the previous quarter





(from July 8 2004, to the End of September, 2010)

As for the type of vulnerabilities, "Cross-site Scripting", "Lamed DNS zone" and "SQL Injection" account for 85% of the entire vulnerabilities.

The Chart 3-3 and 3-4 show the time required to modify vulnerabilities by type after notification of detailed information of the vulnerabilities to Website managers. 67% of vulnerabilities reported was fixed within 90 days.

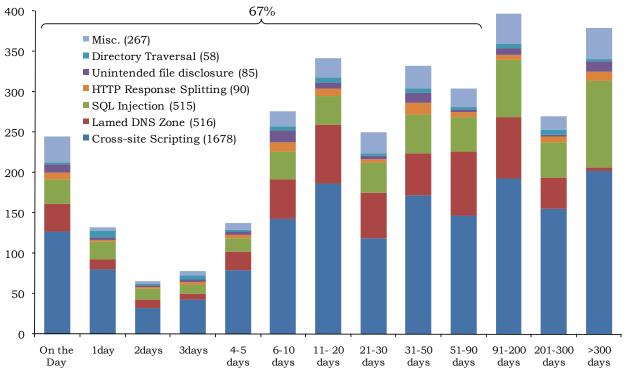


Chart 3-3: Time Required to Fix Vulnerabilities in Websites

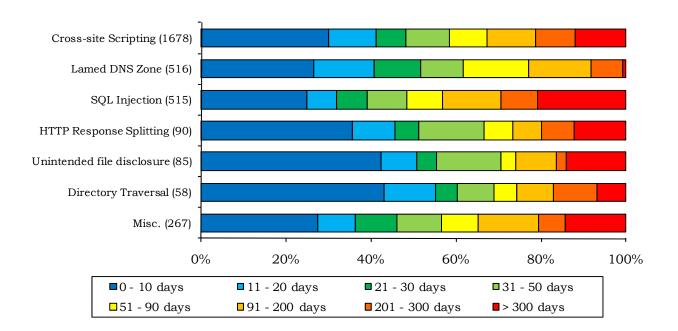


Chart 3-4: Time Required to Fix Vulnerabilities in Websites by Type

<u>Contact</u>

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