

The statistics for the 1st Quarter of 2021 (January - March) from the data collected under 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 January 1 to March 31, 2021 was 252: 72 of them were about Software products and the rest 180 were about Websites. The cumulative number of reports made to IPA since the framework started (July 8, 2004) was 16477: 4772 of them were about Software products and the rest 11705 were about Websites. The Chart 1-1 shows the reporting status for respective quarters.

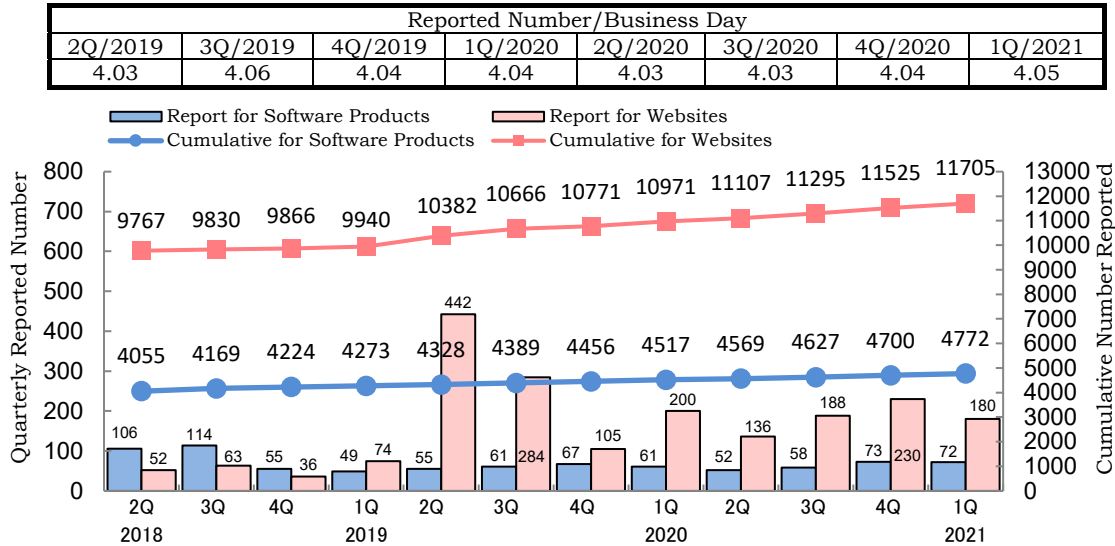
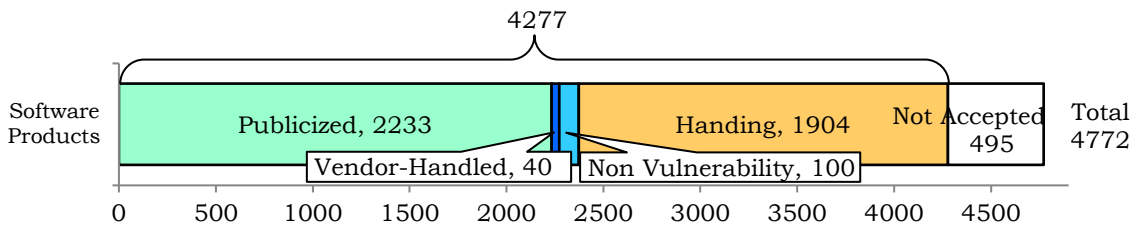
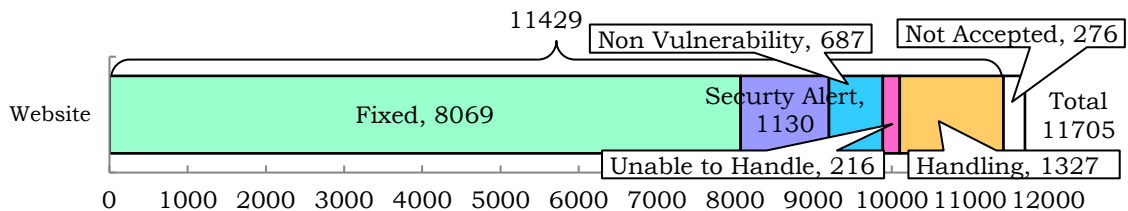


Chart 1-1: Quarterly Number of Vulnerability-related Information

The Chart 1-2 shows the processing status of reports on the vulnerability-related information as of the end of March, 2021. As for Software products, 52% (2233) of the reports being accepted as vulnerability (4277) have been fixed and publicized. As for Websites, 71% (8069) of the reports being accepted as vulnerability (11429) have been fixed.



- Publicized : Vulnerability which has been publicized with vendor's responding status on JVN
- Vendor-Handled : Vulnerability which has been informed to each user by vendor individually
- Non-Vulnerability : Vulnerability which has been determined not to be vulnerability by vendor
- Handling : Vulnerability which is being studied/handled by vendor
- Not Accepted : Vulnerability which is outside the scope defined by the Directive of METI



- Fixed : Vulnerability fixed by Website manager
- Security Alert : Handling was called off after countermeasure against the vulnerability is urged widely with the Security Alert by IPA
- Non-Vulnerability : Vulnerability which has been determined not a vulnerability by Website manager
- Unable to handle : It is not possible to contact the Website manager. Website manager decided not to fix
- Handling : Vulnerability which is being studied/handled by Website manager
- Not Accepted : Vulnerability which is outside the scope defined by the Directive of METI

Chart 1-2: Processing Status of Reporting for Vulnerability-related Information (As of the end of March, 2021)

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

The total number of information related to vulnerabilities in Software Products reported to IPA since the framework started in July 8, 2004, was 4772. The Chart 2-1 shows the breakdown of 1875 of publicized vulnerabilities, and the Chart 2-2 shows the breakdown of 4277 reports (Total 4772 minus Not Accepted 495). In this Quarter, 35 vulnerabilities were publicized.

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:

- Low - 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.

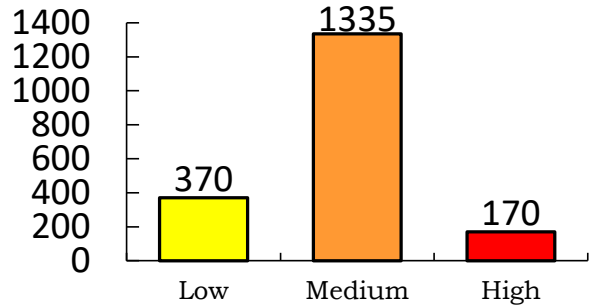
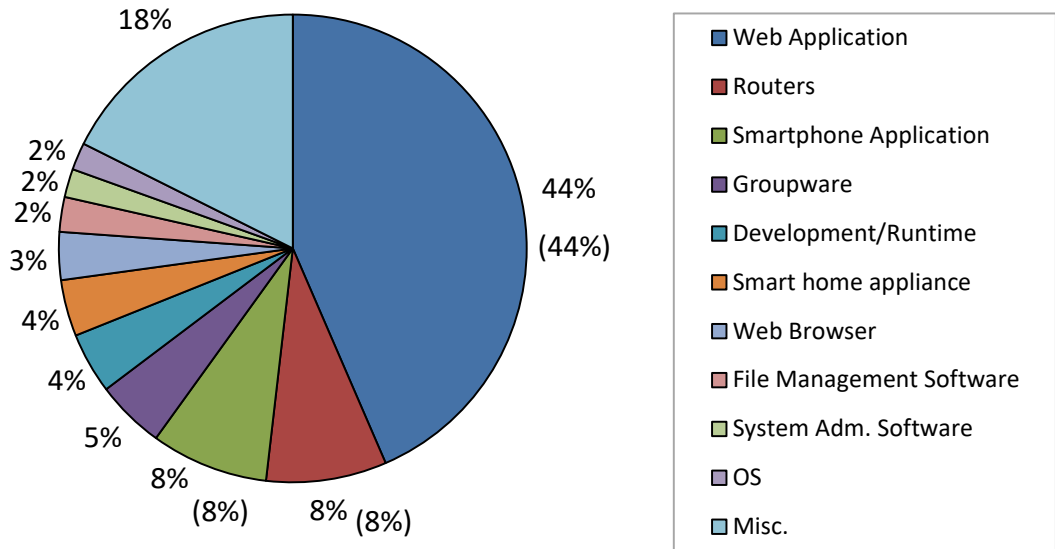


Chart 2-1 : Severity of Vulnerabilities in Software Products on JVN
 Several reports may be summarized in one on JVN. (from Initial Acceptance to the end of March, 2021)

The most reported type of software was Web application and subsequently followed by Routers and those listed below.



Misc. in this graph includes Software for Database, etc.
 (Breakdown of 4277: Numbers in parenthesis are for the previous quarter)

Chart 2-2: Breakdown of the Vulnerabilities in Software Products (from July 8, 2004 to the end of March, 2021)

The Chart 2-3 shows the time required for the announcement of vulnerabilities in Software products. 29% of the reports was addressed within 45 days from its initial reporting to announcement.

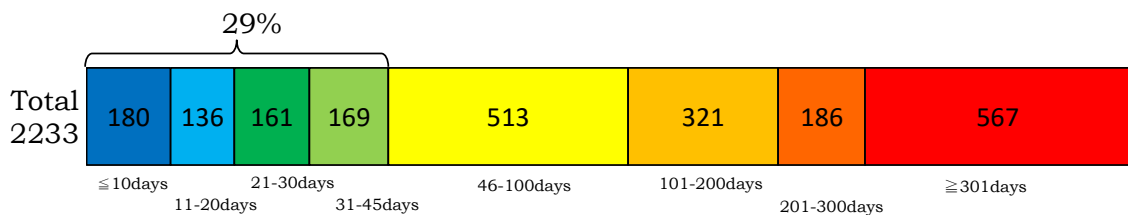
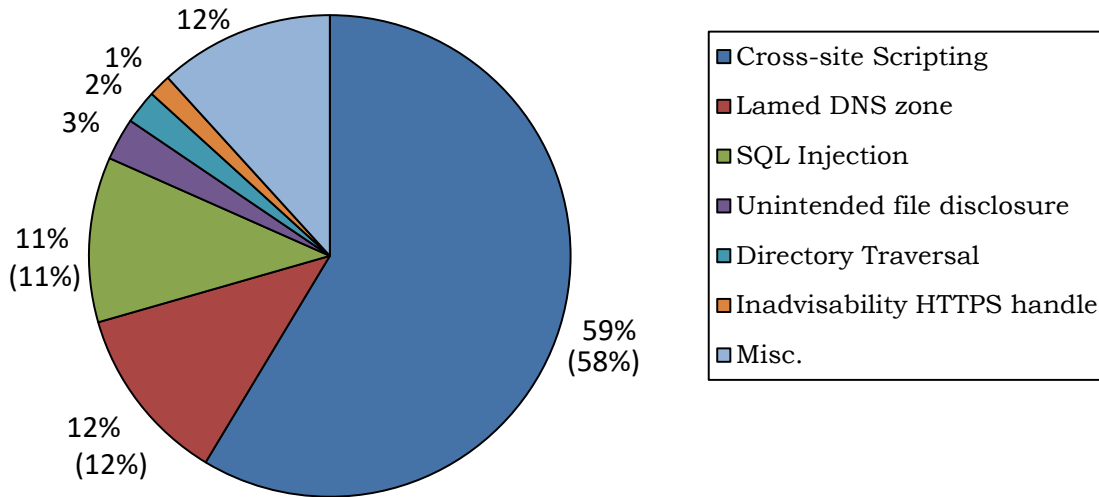


Chart 2-3: Time Required for the Announcement of Vulnerabilities in Software Products

3. Handling of Vulnerability-related Information on Websites:

The number of information related to vulnerabilities in websites reported to IPA since the framework started in July 8, 2004, was 11705. Removing those not accepted as vulnerabilities, the total number of the vulnerabilities was 11429. Chart 3-1 shows the breakdown of the vulnerabilities and Chart 3-2 shows the quarterly shift in their proportion found in last two years.

As for the type of vulnerabilities, “Cross-site Scripting”, “Lamed DNS zone” and “SQL Injection” account for 82% of the entire vulnerabilities.



- Breakdown of 11429: Numbers in the parenthesis are for the previous quarter

Chart 3-1: Breakdown of Vulnerabilities in Websites by Type (from July 8 2004, to the end of March, 2021)

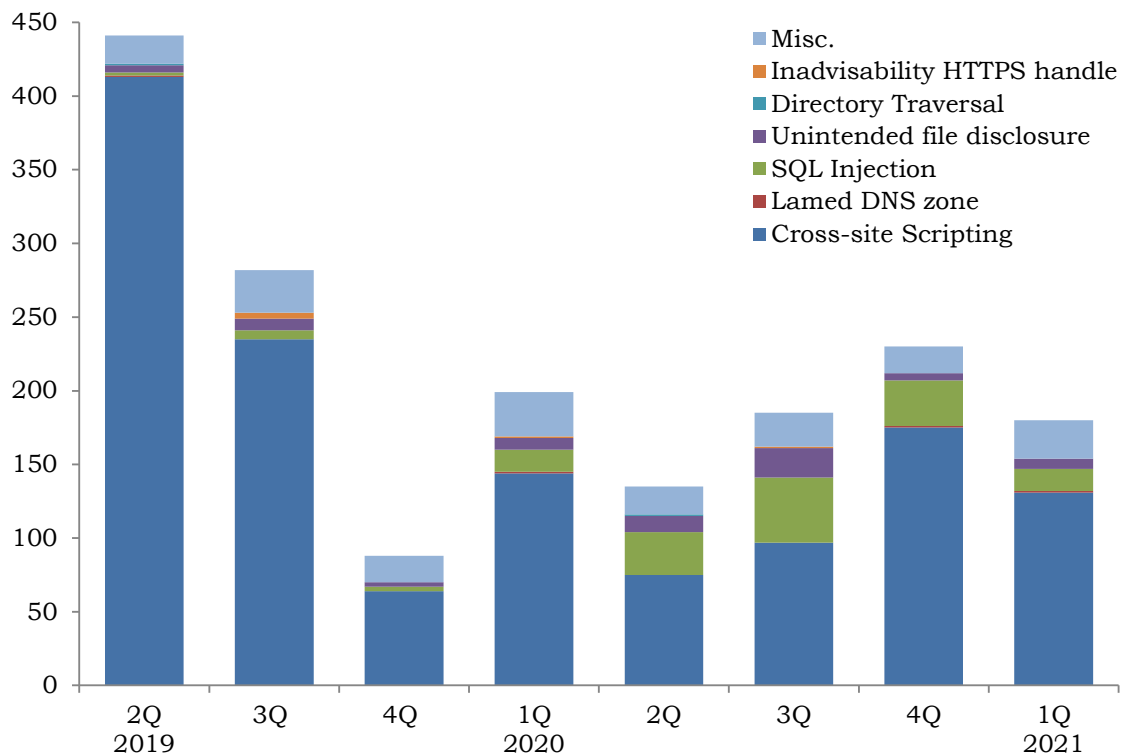


Chart 3-2: Shift in Number of Vulnerabilities in Websites by Type (from April 1 2019, to the End of March, 2021)

The Chart 3-3 and 3-4 show the time required to fix vulnerabilities by type after notification of detailed information of the vulnerabilities to Website managers. 68% of vulnerabilities reported was fixed within 90 days.

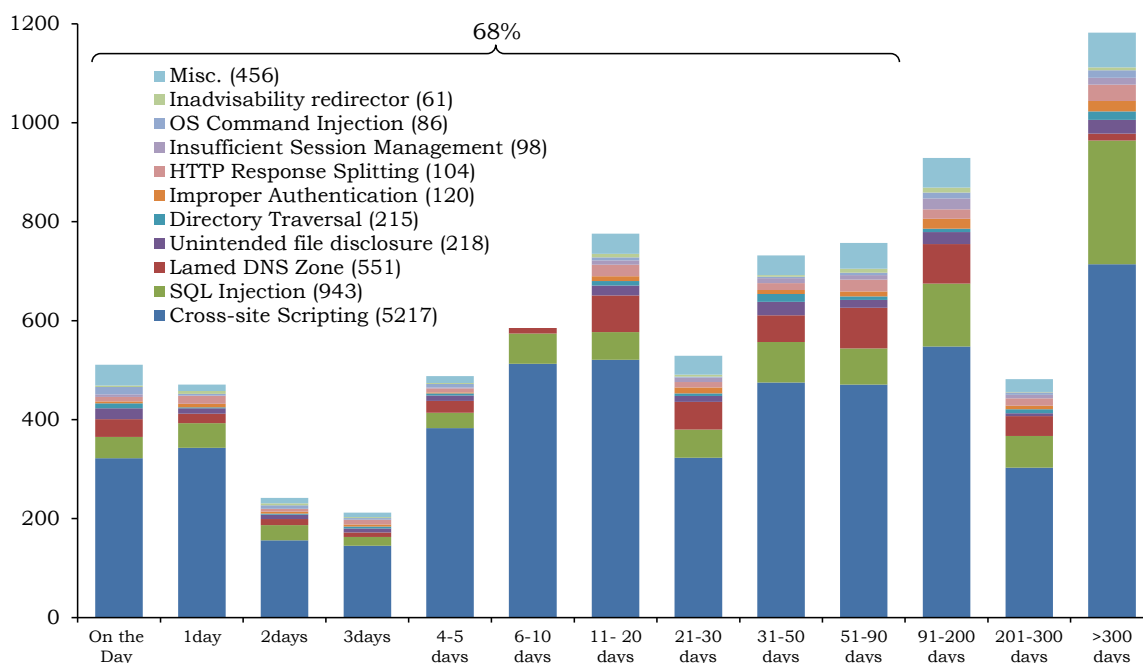


Chart 3-3: Time Required to Fix Vulnerabilities in Websites

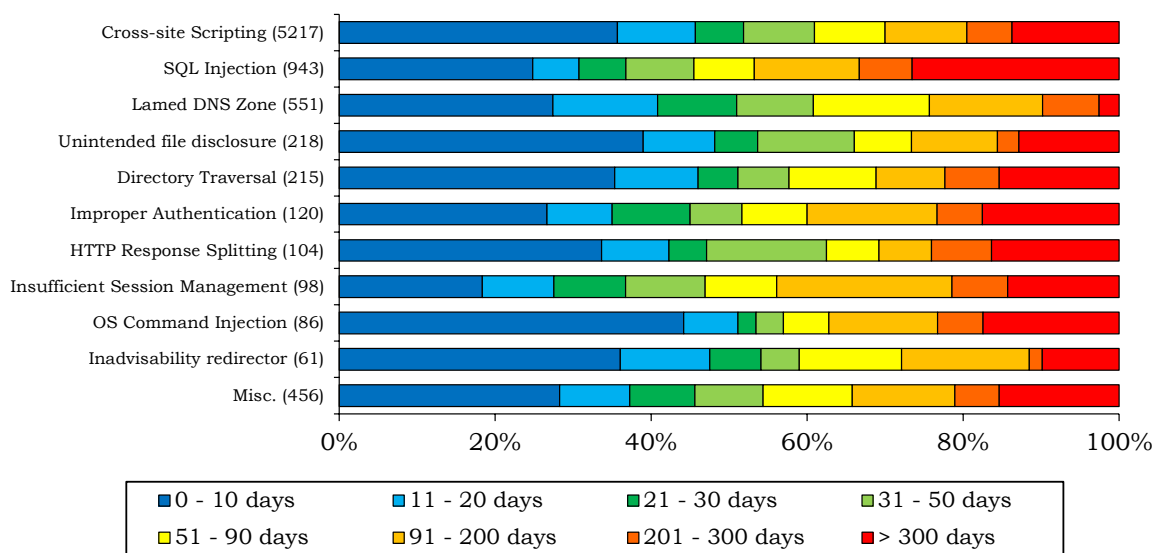


Chart 3-4: Time Required to Fix Vulnerabilities in Websites by Type

Contact

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