JPCERT/CC Activities Overview Topics

January 1, 2022 ～ March 31, 2022

JPCERT Coordination Center
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Activity Overview Topics

－Topic 1－   **Publication of biannual "ICS Vulnerability Analysis Report" (Japanese) begins**

Over the years, the security personnel of many ICS user companies have reported having difficulty dealing with vulnerabilities in ICS products. They complain that vulnerability advisories neither help clarify the significance of the relevant vulnerability nor provide a full picture of the impact on the ICS they oversee if the vulnerability were exploited. One possible reason that inexperienced security personnel tend to have such problems is that these advisories expect readers to have a certain level of background knowledge, and this knowledge gap is impeding understanding. In order to help such security personnel obtain the knowledge of vulnerability advisories, JPCERT/CC has decided to publish an "ICS Vulnerability Analysis Report" detailing   vulnerabilities and their overall impact on ICS. This biannual report discusses the ICS-related vulnerability advisories that were published in the last six months. Those vulnerabilities included are particularly critical or have common features and that may be hard to understand for inexperienced personnel. The inaugural report was released on March 28, 2022.

Taking "JVNVU#92650134: Out-Of-Bounds Read Information Disclosure Vulnerability in Delta Electronics DOPSoft" as an example, the report discusses the risk that a file read vulnerability in an ICS product released without a countermeasure may present to an ICS. The report is designed to help readers gain a deep understanding about file read vulnerabilities in ICS products by presenting the conditions that enable an attack exploiting this vulnerability to take place, the overall impact on the ICS if subjected to such an attack, and expected attack scenarios, as well as countermeasures that ICS user companies can implement based on this understanding.

JPCERT/CC will make ongoing efforts to improve the content of this report by leveraging reader feedback, urge ICS product users to take steps against vulnerabilities, and work to raise the awareness of stakeholders.

    ICS Vulnerability Analysis Report (H1 FY2021) (Japanese)
    https://www.jpcert.or.jp/ics/ics-vuls-analysis-report.html

－Topic 2－   **JSAC 2022 held**

JPCERT/CC held JSAC2022 from January 27 to 28, 2022. This conference was held with the aim of sharing information about ever-changing attack methods and new analytical techniques, to help improve the technical capabilities of security analysts who analyze and handle cyber attacks. This year's event, which marked the fifth, was originally intended to be held as a hybrid conference, but since Tokyo was

designated for pre-emergency measures shortly before the event, it took place solely in a virtual format for the second consecutive year.

This year's conference was held over two days for the first time. On the first day (the Conference Day), presentations were delivered on topics such as technologies for incident analysis and response, including malware analysis, digital forensics, and incident handling, with the presenters providing their own new technological insights as well as information about analysis tools. On the second day (the Workshop Day), two workshops were held. Presentation materials of JSAC2022 are available on the JSAC2022 website, and video recordings of the presentations can be viewed on YouTube. An overview of the conference is also provided on JPCERT/CC Eyes.

After the event, program committee members rated the presentations, taking into consideration the results of questionnaires submitted by the participants, and the following presenter who received the highest rating was presented with the Best Speaker Award.

Title:An Introduction to macOS Forensics with Open Source Software
Speaker: Internet Initiative Japan Inc. Minoru Kobayashi

JPCERT/CC will continue to provide information and engage in activities that are useful to experts who analyze and handle incidents.

> JSAC 2022
> https://jsac.jpcert.or.jp/en/
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> JPCERT/CC Eyes：JSAC 2022 -Day 1-
> https://blogs.jpcert.or.jp/en/2022/03/jsac2022report1.html
>
> JPCERT/CC Eyes：JSAC 2022 -Day 2-
> https://blogs.jpcert.or.jp/en/2022/03/jsac2022report2.html
>
> JPCERT/CC Official YouTube channel
> https://www.youtube.com/playlist?list=PLgEi6O-lWUIZxmHw0QGeAuIhUIuJZ11El

－Topic 3－   **ICS Security Conference 2022 held**

On February 3, 2022, ICS Security Conference 2022 was held online, attracting 440 participants. Following the opening remarks by Junichi Eguchi, Deputy Director-General for Cybersecurity and Information Technology Management at the Ministry of Economy, Trade and Industry, which co-hosted the event, six presentations were given, including three that were submitted in response to a call for papers. The presentations addressed a wide range of topics, including a review of ICS security trends over the year,

safety and security risks associated with production systems and efforts to reduce them, and the importance of paying attention to the characteristics of ICS in developing a recovery plan in case of an emergency and key points of measures to be taken. The topics also covered a study of security measures to be implemented when introducing local 5G networks using a verification environment simulating a steelworks, challenges in developing ICS security guidelines suitable for one's own organization and how to go about developing such guidelines, and the efforts of JPCERT/CC in collecting vulnerability information about ICS products and providing such information to ICS user companies.

According to the questionnaire survey conducted after the event, the participants represented a diverse mix of professionals: 39.8% ICS users, 9.5% ICS vendors, 10.2% ICS equipment vendors, 9.5% ICS engineering firms and 7.2% researchers. The growth in the proportion of ICS users over last year indicates rising interest in security among ICS user companies. Participants joined the conference from across Japan, and about 100 of them participated for the first time. As in the previous conference, holding the event online had the effect of facilitating diversification of participants.

JPCERT/CC Eyes: ICS Security Conference 2022
https://blogs.jpcert.or.jp/en/2022/04/ics-conference2022.html