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Article - CS358831

## Apache Log4j 2.x CVE's (CVE-2021-44228 and CVE 2021-45046) Security Vulnerabilities - Impact on Creo Parametric and other Flexnet License server enabled PTC applications

Modified: 16-Dec-2021

### Applies To

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- Creo Parametric 4.0 to 8.0
- Creo Schematics 4.0 to 8.0
- Mathcad Prime 1.0 to 7.0
- Creo Direct 4.0 to 7.0
- Creo Illustrate 4.1 to 8.1
- Creo View 4.1 to 8.1
- Creo Layout 4.0 to 7.0
- Creo Simulate 4.0 to 7.0
  
- FlexNet enabled applications
- FlexNet Admin License Server
- FlexLM
- PTC License Server: FlexNet Publisher

### Description

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- Apache Log4j 2.x CVE's (CVE-2021-44228 and CVE 2021-45046) Security Vulnerabilities - Impact on Flexnet License server enabled PTC applications
  - For example Creo Parametric, Creo Schematics, Mathcad Prime, Creo Direct, Creo Simulate, Creo Layout, Creo Illustrate, Creo View
- Do the Apache Log4j 2.x CVE's ( CVE-2021-44228 (<https://nvd.nist.gov/vuln/detail/CVE-2021-44228> ) and CVE 2021-45046 (<https://nvd.nist.gov/vuln/detail/CVE-2021-45046> ) ) Security Vulnerabilities impact Creo Parametric?

- Is Creo Parametric or its opensource components affected by these Log4j Security vulnerabilities?
- Will the Log4j security vulnerabilities affect the use of Creo?
- Is Mathcad 15 or Mathcad Prime affected by the Log4j Security Vulnerabilities?
- Is Creo Schematics impacted by the Log4j Security Vulnerabilities?
- Are standalone Creo applications Creo Direct, Creo Simulate, Creo Layout impacted by these vulnerabilities?

## Resolution

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- NOTE: Versions of log4j less than 2 are NOT affected by the vulnerabilities covered in this article
- For information regarding the impact of 'CVE-2021-4104 - Apache Log4j 1.x Vulnerability' on Creo Parametric, please refer to a following article:
  - CS359127 (<https://www.ptc.com/en/support/article/CS359127>): Is Creo Parametric affected by the CVE-2021-4104 - Apache Log4j 1.x Vulnerability?
- Flexnet License server enabled PTC applications
  - For example Creo Parametric, Creo Schematics, Mathcad Prime, Creo Direct, Creo Simulate, Creo Layout, Creo Illustrate, Creo View
    - NOTE: Mathcad 15 is NOT impacted
  - Flexnet License server shipped with version log4j 2.13.3
  - In response to the vulnerabilities found in log4j 1.x & 2.x, please be sure to remove any log4j \*.JAR files from all local Flexnet License servers as these files are not required
    - NOTE: Even though log4j is shipped as part of the License Server, PTC is not using it
      - The requested removal of the files noted below is to stop potential usage by customers themselves
      - These \*.JAR were just example code and never used by the product
      - PTC is suggesting removal of these files to alleviate any concerns
  - The standard installation path is as follows:
    - *C:\Program Files\PTC\FLEXnet Admin License Server\examples\alerter\lib\log4j-1.2-api-2.13.3.jar*
    - *C:\Program Files\PTC\FLEXnet Admin License Server\examples\alerter\lib\log4j-api-2.13.3.jar*
    - *C:\Program Files\PTC\FLEXnet Admin License Server\examples\alerter*

*\\lib\log4j-core-2.13.3.jar*

- The exact versions of the above files may differ if an earlier version of the license server has been installed
  - Please be sure to remove any log4j \*.JAR files found in Flexnet license server
- Subscribe to this article (<https://www.ptc.com/en/support/article/CS235695>) to receive email notifications of any updates to this article
- Please refer to Log4j Security Vulnerability Response Center page (<https://www.ptc.com/en/documents/log4j>) for additional details and updates

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