# CATIA Magic and No Magic products affected by Log4j vulnerability - CVE-2021-44228, CVE-2021-45046, CVE-2021-44832

*[updated on 2022 03 07 18:00 GMT+1]*

For more information, see CVE-2021-44228, CVE-2021-45046, CVE-2021-44832.

- Change log
- Apache Log4j2 version 2.0-2.17.0 is a part of the following products. Action to perform.
  - CATIA Magic portfolio
  - No Magic portfolio
  - FlexNet Publisher
- Apache Log4j2 version 2.0-2.17.0 is a part of the following products, however it is not used for logging. No action to perform.
  - CATIA Magic portfolio
  - No Magic portfolio
- The following products and versions are NOT affected. No action to perform.
  - CATIA Magic portfolio
  - No Magic portfolio
- Remediation
  - For modeling tools (Magic Software Architect, Magic Cyber Systems Engineer, Magic Systems of Systems Architect , MagicDraw, Cameo Systems Modeler, Cameo Enterprise Architecture)
  - For collaboration tools (Magic Collaboration Studio, Cameo Collaborator for Teamwork Cloud, Teamwork Cloud)

## Change log

| Timestamp | Description |
|---|---|
| *2022 03 07 18:00 GMT+1* | **2021x Refresh1 HF2** and **2021x Refresh2 HF2** (hot fixes) with **log4j 2.17.1** version are released as Remediation option. Also, log4j 1.2 version removed from these hotfixes.<br><br>Added CVE-2021-44832 to vulnerability list. |
| *2022 01 06 18:00 GMT+1* | Updated **log4j** version from **2.17.0** to **2.17.1** for modeling and collaboration tools in Remediation. Added additional note for collaboration tools v19.0 SPx in Remediation. |
| *2021 12 22 19:30 GMT+1* | 2021x Refresh1 and 2021x Refresh2 HF1 (hot fixes) with log4j 2.16.0 version are released as Remediation option. |
| *2021 12 20 21:00 GMT+1* | Updated Remediation options for modeling and collaboration tools. |
| *2021 12 20 16:30 GMT+1* | Added **log4j** version **2.17.0** for modeling and collaboration tools in Remediation. |
| *2021 12 17 14:00 GMT+1* | Updated Remediation options for modeling and collaboration tools. |
| *2021 12 17 13:00 GMT+1* | Updated **log4j** version from **2.15.0** to **2.16.0** for modeling and collaboration tools in Remediation. |
| *2021 12 16 14:00 GMT+1* | Added **Cameo DataHub plugin** to the list in Apache Log4j2 version 2.0-2.14.1 is a part of the following products, however it is not used for logging. No action to perform. |
| *2021 12 16 14:00 GMT+1* | Added information about **FlexNet Publisher** in Apache Log4j2 version 2.0-2.14.1 is a part of the following products. Action to perform. |

## Apache Log4j2 version 2.0-2.17.0 is a part of the following products. **Action to perform.**

### *CATIA Magic portfolio*

- Magic Collaboration Studio (release **2021x Refresh1, 2021x Refresh2**)
- Magic Software Architect (release **2021x Refresh1, 2021x Refresh2**)
- Magic Cyber Systems Engineer (release **2021x Refresh1, 2021x Refresh2**)
- Magic Systems of Systems Architect (release **2021x Refresh1, 2021x Refresh2**)

### *No Magic portfolio*

- Teamwork Cloud (release **2021x Refresh1, 2021x Refresh2**)

- Cameo Collaborator for Teamwork Cloud (release  **2021x Refresh1, 2021x Refresh2**)
- MagicDraw (release **2021x Refresh1, 2021x Refresh2**)
- Cameo Systems Modeler (release **2021x Refresh1, 2021x Refresh2**)
- Cameo Enterprise Architecture (release **2021x Refresh1, 2021x Refresh2**)

**To Do:**  You have action to perform. See Remediation.

### *FlexNet Publisher*

- lmadmin (**FlexNet Publisher 64-bit License Server Manager**)

**To Do:**  You have action to perform, if you are using lmadmin Alerter Service. For more information, see here.

# Apache Log4j2 version 2.0-2.17.0 is a part of the following products, however it is not used for logging. No action to perform.

### *CATIA Magic portfolio*

- Magic Collaboration Studio (release **2021x**, **19.0 SP2, 19.0 SP3, 19.0 SP4**)

### *No Magic portfolio*

- Cameo Collaborator for Teamwork Cloud (release  **2021x**, **19.0 SP1, 19.0 SP2, 19.0 SP3, 19.0 SP4**)
- Teamwork Cloud (release **2021x , 19.0 SP1, 19.0 SP2, 19.0 SP3, 19.0 SP4**)
- Cameo DataHub plugin (release **2021x Refresh1, 2021x Refresh2**)

# The following products and versions are NOT affected. No action to perform.

### *CATIA Magic portfolio*

- Magic Software Architect (release 2021x, 19.0 SP2, 19.0 SP3, 19.0 SP4)
- Magic Cyber Systems Engineer (release 2021x, 19.0 SP2, 19.0 SP3, 19.0 SP4)
- Magic Systems of Systems Architect (release 2021x, 19.0 SP2, 19.0 SP3, 19.0 SP4)

### *No Magic portfolio*

- Teamwork Cloud (release 19.0)
- Teamwork Server (release 19.0 and all service packs, 18.5 SP4, 18.0 SP7)
- Cameo Collaborator for Teamwork Cloud (release 19.0)
- MagicDraw (release 2021x**,** 19.0 and all service packs, 18.5 SP4, 18.0 SP7)
- Cameo Systems Modeler (release 2021x**,** 19.0 and all service packs, 18.5 SP4, 18.0 SP7)
- Cameo Enterprise Architecture (release 2021x**,** 19.0 and all service packs, 18.5 SP4, 18.0 SP7)

## Remediation

**For modeling tools (Magic Software Architect, Magic Cyber Systems Engineer, Magic Systems of Systems Architect , MagicDraw, Cameo Systems Modeler, Cameo Enterprise Architecture)**

**Option 1**

Download and install 2021x Refresh1 HF2 (hot fix). This is a new full 2021x Refresh1 version build with log4j 2.17.1.

Download and install 2021x Refresh2 HF2 (hot fix). This is a new full 2021x Refresh2 version build with log4j 2.17.1.

See Downloading installation files

**Option 2**

1. Make sure application is not running
2. Download log4j 2.17.1 from apache website (link)
3. Search now for these jar files in installation base
    - log4j-core-2.*.jar
    - log4j-1.2-api-2.*.jar
    - log4j-api-2.*.jar
    - log4j-slf4j-impl-2.*.jar

4. Replace any match by the 2.17.1 version. **Make sure the original filename is unchanged**. See example below.
5. The replacing and renaming operations must be performed for all jar files found from the list

Example - if you find log4j-core-2.11.2.jar:

1. Remove log4j-core-2.11.2.jar
2. Copy log4j-core-2.17.1.jar to the same location
3. Rename log4j-core-2.17.1.jar to log4j-core-2.11.2.jar

Download same instructions CATIA_No_Magic_log4j_procedure_V4.pdf

## For collaboration tools (Magic Collaboration Studio, Cameo Collaborator for Teamwork Cloud, Teamwork Cloud)

**Option 1**

Download and install 2021x Refresh1 HF2 (hot fix). This is a new full 2021x Refresh1 version build with log4j 2.17.1.

Download and install 2021x Refresh2 HF2 (hot fix). This is a new full 2021x Refresh2 version build with log4j 2.17.1.

See Downloading installation files

**Option 2**

In your installation base, please search for the following files: **webapp.war, admin.war, collaborator.war, document-exporter.war, resource-usage-map.war, resources.war.** If you do not find any result, you can stop the procedure here. Your installation does not contain web applications

If you find a match, you might need to replace log4j2 libraries inside each found war files (for example **webapp.war)**. Please execute these steps:

1. Make sure application is not running
2. Download log4j 2.17.1 from apache website (link)
3. Uncompress(unzip) **webapp.war** into any tmp folder
4. Search now for these jar files among unzipped ones
   - log4j-core-2.*.jar
   - log4j-api-2.*.jar
5. Replace any match by the 2.17.1 version. **Make sure the original filename is unchanged**. See example below.

> ⚠ **For collaboration tools of 19.0 SPx version (Magic Collaboration Studio, Cameo Collaborator for Teamwork Cloud, Teamwork Cloud):**
>
>   - look for a file named **org.apache.log4j-19.0.0.jar**. Delete it if found.

6. Compress(zip) all extracted files back to **webapp_patched.war**. Make sure files structure in new war is same as in original war.
7. Replace original **webapp.war** with **webapp_patched.war** and restore name back to **webapp.war**
8. Look for a folder named **webapp** next to **webapp.war**. Delete it if found.
9. Start application

Example - if you find log4j-core-2.11.2.jar:

1. Remove log4j-core-2.11.2.jar
2. Copy log4j-core-2.17.1.jar to the same location
3. Rename log4j-core-2.17.1.jar to log4j-core-2.11.2.jar

Download same instructions CATIA_No_Magic_log4j_procedure_V4.pdf