



HEXAGON

eMMA Patch for log4j - CVE-2021-44228, CVE-2021-45046 and CVE-2021-45105

Server Update Instructions

21 December 2021



Information

Since Friday, Dec. 10, 2021, it is known that the critical zero-day vulnerability in log4j version 2.0-beta9 to 2.14.1 endangers numerous servers and apps. On Saturday, the German Federal Office for Security (BSI) declared the highest warning level for this vulnerability.

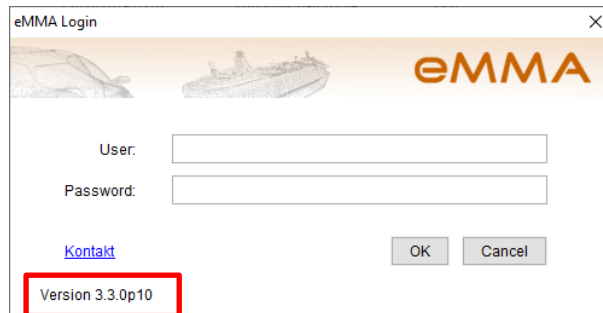
Our **eMMA software solution** use the affected log4j versions. We have prepared the respective patches and replaced the affected libraries with the new secure versions. This document describes the process to perform the update of your eMMA installation.

If you have any questions regarding this procedure, please contact our support team at emma.support.qdas@hexagon.com

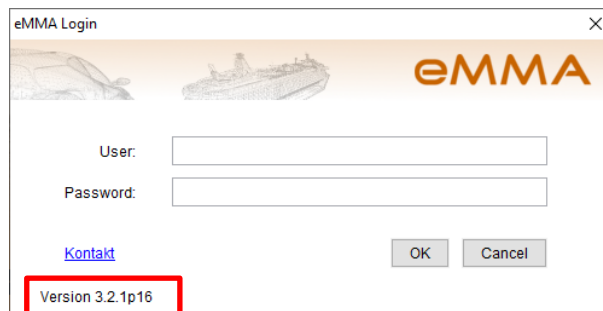
eMMA Update Instructions

1. Verify eMMA Software Version

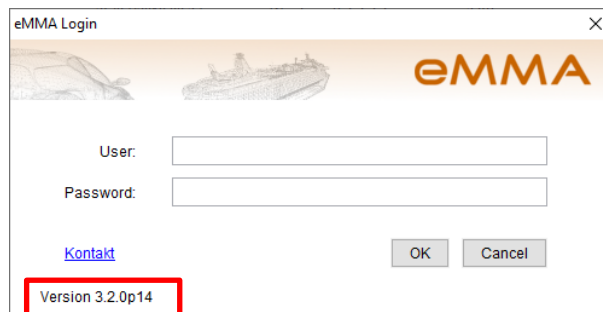
Launch the eMMA Client application. In the lower-left side of the login dialog you can see the current version that is installed on the server (see images below).



eMMA Version 3.3.0pXX

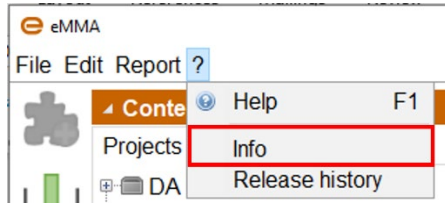


eMMA Version 3.2.1pXX

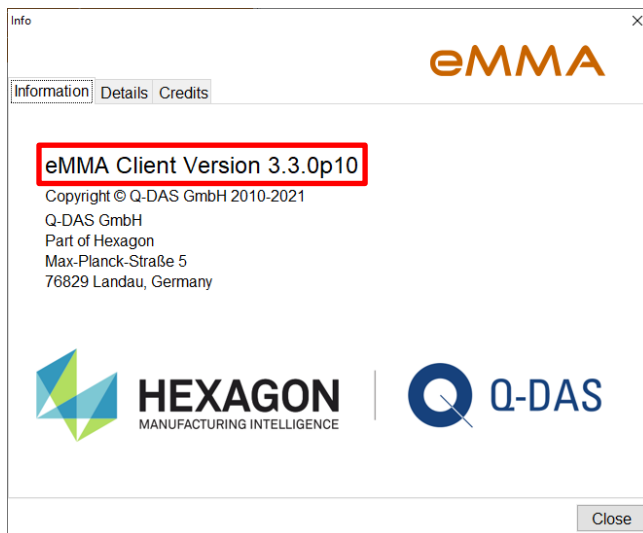


eMMA Version 3.2.0pXX

For further details about the software version please log into the eMMA Client application and with your credentials. Navigate to the menu **?** and from the displayed options, select **Info**.



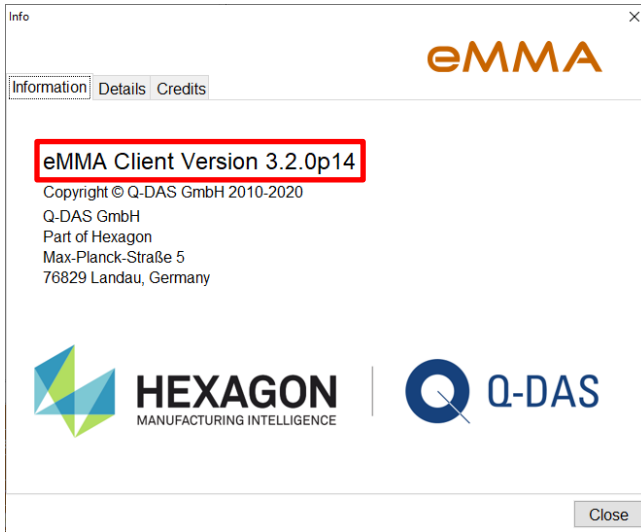
A new dialog pops up displaying the eMMA version information (see images below).



For this version (**eMMA Client Version 3.3.0pXX**) please download the patch package **MDM330.zip**



For this version (**eMMA Client Version 3.2.1pXX**), please download the patch package **MDM321.zip**



For this version (**eMMA Client Version 3.2.0pXX**), please download the patch package **MDM320.zip**

2. Download the patch package that corresponds to your eMMA version

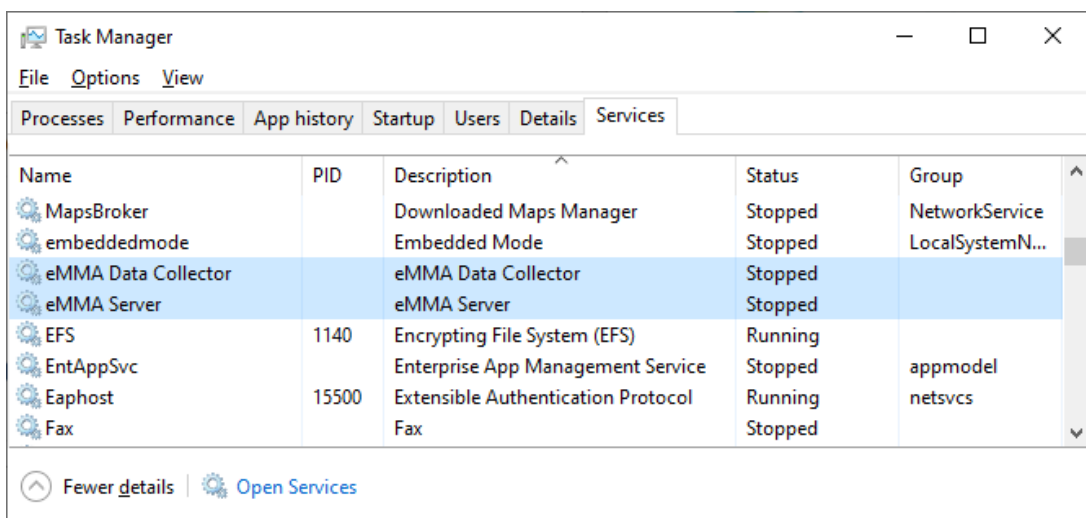
The following links direct you to the download of the patch packages for each version:

- For **eMMA Client Version 3.3.0pXX**, please download the patch package [MDM330.zip](#)
- For **eMMA Client Version 3.2.1pXX**, please download the patch package [MDM321.zip](#)
- For **eMMA Client Version 3.2.0pXX**, please download the patch package [MDM320.zip](#)

3. eMMA Server Update

3.1. Stop the eMMA server. Open the **Task Manager** and under the **Services** tab, select and stop the eMMA Server related services in the following order:

eMMA Data Collector (if you have it installed) and then *eMMA Server*





3.2. Go to the eMMA installation folder in the server side. The default installation directory is:

C:\Program Files\Q-DAS\eMMA\MDM

If your installation is located in a different directory please navigate to the MDM directory inside your eMMA installation folder.

3.3. Navigate to the **MDM\lib** folder:

- Replace/add the jar files included in the patch package "*common2.jar*", "*log4j-api-2.17.0.jar*", "*log4j-core-2.17.0.jar*",

If this is the first eMMA update you do related to this issue:

- Delete the old jar files "*log4j-api-2.3.jar*" and "*log4j-core-2.3.jar*"

If you already performed the eMMA update delivered 15.12.2021 or 17.12.2021 then:

- Delete the old jar files "*log4j-api-2.15.0.jar*" and "*log4j-core-2.15.0.jar*" if present
- Delete the old jar files "*log4j-api-2.16.0.jar*" and "*log4j-core-2.16.0.jar*" if present

3.4. Update the subfolder **MDM\update** of your eMMA installation

- Replace the files "*Emma3D.update*", "*EmmaAdmin.update*", "*EmmaAdminClient.update*" and "*EmmaClient.update*" with the files included in the patch package.

3.5. Restart the eMMA server. Open the **Task Manager** and under the **Services** tab, select and restart the eMMA Server related services in the following order:

eMMA Server and then *eMMA Data Collector* (if you have it installed)

Your eMMA software has been successfully updated!

We take the security and privacy of our customers very seriously and therefore it is our responsibility to respond quickly and effectively to any potential vulnerabilities that compromise your environment and data.

If you have any further questions regarding this update, please do not hesitate to contact our support team at the following email address: emma.support.qdas@hexagon.com

Thank you for your understanding!

Your Hexagon Team