Atlas Copco	Atlas Copco BLM s.r.l.		Service Procedure	
		Approval date: 20-12-2021	version: 1	Page: 1 of 5
Title:				

QA Supervisor SERVICE PROCEDURE 22 – Temporary solution for VULNERABILITY CVE-2021-44228

1 AIM

This document describes how to temporary fix the vulnerability CVE-2021-4428.

CVE-2021-44228 (also identified as Log4Shell) is a critically rated vulnerability affecting Log4j 2 (Java log manager) which is integrated into Apache's web server suite. It impacts Apache Log4j 2 versions 2.0 through 2.14.1.

Index

1	AIM		1
2	REC		2
3	PRC	OCEDURE	2
	3.1	STOPPING THE SERVICE	2
	3.2	ADDING A NEW PROPRIETY	2
	3.3	UPDATING LOG4J MODULES	2
	3.4	DISABLING LOG CONFIGURATION	3
		a. STANDALONE	3
		b. LOG4J2.xml files	4
	3.5	RESTARTING THE SERVICE	5

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Service Procedure

۸	Approval date:	version:	Page:
2	20-12-2021	1	2 of 5

Title:

QA Supervisor SERVICE PROCEDURE 22 – Temporary solution for VULNERABILITY CVE-2021-44228

2 REQUIREMENTS

- All QA Supervisor versions prior to 06.03b are affected
- Access to the server where QA Supervisor is installed
- Privilege to modify the files in the QA Supervisor installation path

3 PROCEDURE

3.1 STOPPING THE SERVICE

1. Access the server where QA Supervisor is installed and open the Windows services popup.

Services						
File Action View	Help					
🗢 🄿 🗖 🗐 🧕) 📑 📔 📷 🕨 🔲 II IV					
Services (Local)	Services (Local)					
	QASupervisorWildfly	Name	Description	Status	Startup Type	Log On As
		🌼 QA Supervisor Agent core windows service		Running	Automatic (Local Syste
Start the service		🙀 QASupervisorWildfly	QASupervis		Manual	Local Syste
		🆏 Quality Windows Audio Video Experience	Quality Win		Manual	Local Service
	Description:	🥋 Quest Migration Manager RUM Agent Service	Resource u	Running	Automatic	Local Syste
	QASupervisorWildfly Application	🎑 Radio Management Service	Radio Mana	Running	Manual	Local Service
1	Server	We have not the t		• •	• • • •	

2. Stop QASupervisorWildfly service.

3.2 ADDING A NEW PROPRIETY

- 3. Open the folder C:\Program Files\Atlas Copco Tools AB\QASupervisor\application\wildfly\bin
- 4. Open the **standalone.conf.bat** file with a text editor and administration rights.
- 5. Find the line:

 $set "JAVA_OPTS=\% JAVA_OPTS\% - Dlog4j.configurationFile= \"\"JBOSS_HOME\% \".\.\.\.\configuration\log4j2.xml \"\"$

6. Add a new line after the one found, and paste the following text: set "JAVA OPTS=%JAVA OPTS% -Dlog4j2.formatMsgNoLookups=true"

_
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NOTE: This is how the file should be.

set	"JAVA_OPTS=%JAVA_OPTS%	-Djavax.ws.rs.ext.RuntimeDelegate=org.jboss.resteasy.spi.ResteasyProviderFacto
set	"JAVA OPTS=%JAVA OPTS%	-Dlog4i.configurationFile=\\"%JBOSS HOME%\\\configuration\log4j2.xml\\""
set	"JAVA_OPTS=%JAVA_OPTS%	-Dlog4j2.formatMsgNoLookups=true"
set	"JAVA_OPTS=%JAVA_OPTS%	-Dorg.jboss.logging.provider=Log4j2"
set	"JAVA_OPTS=%JAVA_OPTS%	-Djava.library.path=\\"%JBOSS_HOME%\\libs\\";\\"%JBOSS_HOME%\\license\\"";
set	"JAVA_OPTS=%JAVA_OPTS%	-DANTLR_USE_DIRECT_CLASS_LOADING=true";

7. Save and close the file.

3.3 UPDATING LOG4J MODULES

- 8. Open the folder C:\Program Files\Atlas Copco Tools AB\QASupervisor\application\wildfly\modules\org\apache\logging\log4j\main
- 9. Delete the content of that folder.
- 10. Extract and copy the content from zip file [main.zip] in the same path.

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Service Procedure

	Approval date:	version:	Page:
	20-12-2021	1	3 of 5
Title:			

QA Supervisor SERVICE PROCEDURE 22 – Temporary solution for VULNERABILITY CVE-2021-44228

11. Here is how the content should look like:



3.4 DISABLING LOG CONFIGURATION

a. STANDALONE

- 12. Open the folder C:\Program Files\Atlas Copco Tools AB\QASupervisor\application\wildfly\standalone\configuration
- 13. Open with an editor the file *standalone.xml*
- 14. Find the line with urn: jboss: domain: logging

```
<profile>
<profile>
<subsystem xmlns="urn:jboss:domain:logging:6.0">

<subsystem xmlns="urn:jboss:domain:logging:6.0">
```

15. In the following SUBSYSTEM section, replace all the level name="XXX" with level name="OFF"

Atlas Copco	Atlas Copco BLM s.r.l.		Service Procedure	
		Approval date: 20-12-2021	version: 1	Page: 4 of 5
Title:				

QA Supervisor SERVICE PROCEDURE 22 – Temporary solution for VULNERABILITY CVE-2021-44228

16. The result should look like the following:



17. Save and close the file.

b. LOG4J2.xml files

- 18. Open the folder C:\Program Files\Atlas Copco Tools AB\QASupervisor\configuration
- 19. Delete the following files



- 20. Extract and copy the content from zip file [logs.zip] in the same path
- 21. The deleted files should have been restored from the zip file.

Atlas Copco	Atlas Copco BLM s.r.l.		Service Procedure	
		Approval date: 20-12-2021	version: 1	Page: 5 of 5
Title:				

QA Supervisor SERVICE PROCEDURE 22 – Temporary solution for VULNERABILITY CVE-2021-44228

3.5 RESTARTING THE SERVICE

22. Restart the QASupervisorWildfly service.