

tts



1.1.1 Important information regarding the Spring Framework 5.1 till 5.3

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Initial response 01.04.2022 – CVE-2022-22965

1.1 Affected products:

- 21.1 - tts performance suite server 2021R2
- 21.0 - tts performance suite server 2021
- 20.1 - tts performance suite server 2020R2
- 20.0 - tts performance suite server 2020
- 19.1 - tts performance suite server 2019R2

Please note: tts performance suite clients (Producer, QuickAccess, Creator) are not affected.

1.2 Description

Concerning the RCE Vulnerability in Spring Framework (<https://spring.io/blog/2022/03/31/spring-framework-rce-early-announcement>) we are facing a new security vulnerability with a high risk for remote code execution on the tts performance suite server versions as listed above

All versions are using Spring Framework 5.x (<https://tanzu.vmware.com/security/cve-2022-22965>).

Fortunately, Spring already released a fix for branches 5.3 and 5.2. Therefore, we are currently updating our tts performance suite servers (21.1, 21.0 and 20.1) with Spring Core 5.3.18.

Once the required fixes are available in our software, we will immediately update all SaaS/Hosting environments and share the required download links for the necessary server updates of on-premise installations.

1.3 Resolution

Not currently available, our Dev Team and QS Team is currently preparing the fixes for final rollout



Next Steps (11.04.2022) and fixes for tts Cloud customers

2.1 Affected products:

- 21.1 - tts performance suite server 2021R2
- 21.0 - tts performance suite server 2021
- 20.1 - tts performance suite server 2020R2
- 20.0 - tts performance suite server 2020
- 19.1 - tts performance suite server 2019R2

Please note: tts performance suite clients (Producer, QuickAccess, Creator) are not affected.

2.2 Description

The relevant fixes to mitigate CVE-2022-22965 have already been implemented into our software (currently available in 21.1, 21.0 and 20.1).

2.3 Resolution

The fixed server applications have been updated for all tts cloud customers using:

- 21.1 - tts performance suite server 2021R2
- 21.0 - tts performance suite server 2021
- 20.1 - tts performance suite server 2020R2



Next Steps (11.04.2022) and fixes for tts OnPremise customers

3.1 Affected products:

- 21.1 - tts performance suite server 2021R2
- 21.0 - tts performance suite server 2021
- 20.1 - tts performance suite server 2020R2
- 20.0 - tts performance suite server 2020
- 19.1 - tts performance suite server 2019R2

Please note: tts performance suite clients (Producer, QuickAccess, Creator) are not affected.

3.2 Description

The relevant fixes to mitigate CVE-2022-22965 have been implemented into our software or are available via Tomcat updates.

3.3 Resolution

For the fixes to be implemented please see the following information and give this to the relevant system administrator of your IT / Server infrastructure teams

3.3.1 **Application fix for 20.1, 21.0 and 21.1. only – fixes for 20.0 and 19.1 please see next chapter: 3.3.2 (Tomcat fix)**

3.3.1.1 To updated your tts performance suite server (20.1, 21.0 and 21.1) please follow the next few steps:

- Download your respective version on the following integrated links: [2020R2](#), [2021](#) or [2021R2](#) (username and password are the same as we had sent in a previous mail with download links)
- Ensure you have a recent full copy of your database
- Stop Tomcat
- Stop Solr
- Exchange the WAR files in the ...\\Tomcat**Webapps**\\ folder with the ones from the download, ensure the old workbench (curator) and publisher (webaccess) folders have been backed up and cleared from the webapps location
- Backup and clear the ...\\Tomcat**Work**\\ folder of any data
- Backup and clear the ...\\Tomcat**Temp**\\ folder of any data
- Backup and clear the data within ...\\Solr\\server\\solr**core** or ...\\Solr\\server\\solr**tts-server**
- Extract the Solr data from the download archive to the ...**core** or ...**tts-server** path which we have just cleared
- Apply any Customizing to the Publisher which had previously been applied (please check with your tts Professional Services consultant for the latest customizing package, if not available)
- Start Solr
- Start Tomcat

This should conclude the update procedure for tts performance suite version 20.1, 21.0 and 21.1

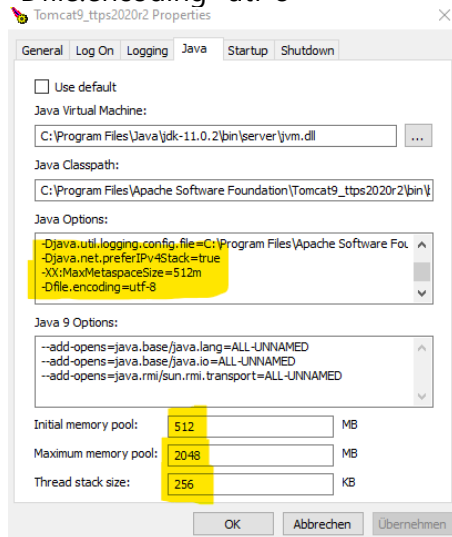
3.3.2 Tomcat fix for 20.0 and 19.1 only

3.3.2.1 To update your Tomcat please follow the next steps. All detailed information regarding specific settings and how to's can also be found here in the: [Server Installation Manual](#) (chapter 4.5, 4.9, 5.2 and 5.3 may be of special interest for background reading)

- The minimal version of Tomcat which has this fix is: Tomcat **9.0.62**, or **8.5.78**
- Thus, please download the one you require from: [Apache Tomcat Home](#)
- Please ensure you have a recent full backup of your database
- Stop Tomcat (please ensure this is stopped in the task manager, before completing the next steps)
- Make a full Backup of your current Tomcat directory and rename to **Tomcat_old**
- Now install Tomcat **9.0.62**, or **8.5.78** or higher
- Transfer the following
 - All files from ...\\Tomcat_old**conf\\Catalina\\localhost** to ...\\Tomcat**conf\\Catalina\\localhost**
 - The DB Driver (e.g. *mssql-jdbc-7.xx.xx....*) from ...\\Tomcat_old**lib**\\ to ...\\Tomcat**lib**
 - All files (except the standard Tomcat install files, e.g. *ROOT, manager and docs*) from ...\\Tomcat_old**webapps** to ...\\Tomcat**webapps** (e.g. *workbench, publisher, publisher sso, etc.*)
- Now merge changes from:
 - ...\\Tomcat_old**conf** to ...\\Tomcat_old**conf** (please do not replace the files, this has led to problems in the past)
 - **catalina.properties** (e.g. *common.loader="{catalina.base}/lib",....,D:/ttkf_server/configuration*)
 - **server.xml** (e.g. *useBodyEncodingForURI="true"*) (e.g. *HTTP and HTTPS connection specific changes*)
 - **context.xml** (e.g. *CookieProcessor*)
 - Optional: **web.xml** (possible configuration specifics for - Websockets)

Finally start the **Configure Tomcat** to configure the JAVA_OPTS settings via the GUI, these are the minimum recommended settings to configure:

- -Djava.net.preferIPv4Stack=true
- -XX:MaxMetaspaceSize=512m
- -Dfile.encoding=utf-8



- Start Tomcat
- Test Login to Workbench and Publisher to see if all is working fine



Further technical notes and specifics

4.1 Fixes applied since the following product builds

- tts performance suite server 2021R2 - build 21.1.0.140 and higher
- tts performance suite server 2021 - build 21.0.0.114 and higher
- tts performance suite server 2020R2 - build 20.1.0.151 and higher