

Release Notes for SAS® Fraud Management 4.4_M1, Hot Fix 10 Version 5, Release 16

Description	Component	Summary and Business Impact	Test Scenario
<p>The version of Log4j that is included with SAS Fraud Management contains security vulnerabilities.</p>	<p style="text-align: center;">SECURITY</p>	<p>Summary: The following security vulnerabilities were found for Log4j version 2, which is included in SAS Fraud Management:</p> <ul style="list-style-type: none"> • CVE-2021-44228 • CVE-2021-44832 <p>Business Impact: SAS Fraud Management does not have any known technical or functional dependency on the feature that has the vulnerabilities in Log4j v2.</p>	<p>If you are on SAS® 9.4M5 (TS1M5), after you apply this hot fix, the Log4j v2 JAR files are upgraded to version 2.12.4. This version is not affected by the vulnerabilities.</p> <p>If you are on SAS® 9.4 M6 (TS1M6) and apply this hot fix followed by the SAS Security Updates, the Log4j v2 JAR files are upgraded to version 2.17.1, which is not affected by the vulnerabilities.</p> <p>Important: If you are on SAS 9.4M6, you must install SAS Security Updates immediately following this hot fix. Refer to the instructions in SAS Note 69006.</p>
<p>The X-Frame-Options Header is not set in several pages in SAS Fraud Management.</p>	<p style="text-align: center;">SECURITY</p>	<p>Summary: A security scan reports that the X-Frame-Options header is not set on several pages in SAS Fraud Management.</p> <p>The X-Frame-Options header determines whether site content can be embedded in other websites.</p> <p>Business Impact: The X-Frame-Options header helps to stop clickjacking attacks by preventing the site content from being embedded into other websites.</p>	<p>After you apply the hot fix, the X-Frame-Options header is set to SAMEORIGIN for the SAS Fraud Management pages that are identified by the security scan.</p> <p>You can enable additional security by following the instructions in Disable Cross-Frame Scripting.</p>

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			<p>In Step 3 of the instructions, select the SAMEORIGIN option by uncommenting this line:</p> <pre data-bbox="1499 412 1955 472"><prop key="X-Frame-Options">SAMEORIGIN</prop></pre>
<p>The supported version of Google Protobuf-Java contains a security vulnerability.</p>	<p>SECURITY</p>	<p>Summary: Google Protobuf-Java 3.14 contains the following security vulnerability:</p> <ul data-bbox="749 639 995 667" style="list-style-type: none"> • CVE-2021-22569 <p>Business Impact: Google Protobuf-Java is used when custom Python models are installed.</p>	<p>After you apply the hot fix, Google Protobuf-Java 3.19.4 is supported. This version is not affected by the vulnerability.</p>