

## Release Notes for SAS® Fraud Management 4.4\_M0, Hot Fix 5

Description	Component	Summary and Business Impact	Test Scenario
<p>On Oracle systems, the GET_SIGNATURE function in the TDR does not parse the UVR_ID input parameter.</p>	<p>DATABASE</p>	<p><b>Summary:</b> The UVR_ID input is a character string of comma-delimited values. The GET_SIGNATURE function does not parse the input variable correctly, causing the results of the function to be inaccurate.</p> <p><b>Business Impact:</b> Results of the fast-path rule estimation are inaccurate.</p>	<p>After you apply this hot fix, the GET_SIGNATURE function produces accurate results.</p>
<p>Job 4515 can add duplicate rows to the database table RPT_FRQ_RULE_FIRING_DETAIL.</p>	<p>REPORTS</p>	<p><b>Summary:</b> The loader for the Frequency of Rules Fired historical report is job 4515. The job can add duplicate rows to the RPT_FRQ_RULE_FIRING_DETAIL table in the System of Record (SOR) database. This behavior results in a unique constraint violation error.</p> <p><b>Business Impact:</b> The Frequency of Rules Fired report does not contain the latest data until job 4515 completes successfully.</p>	<p>After you apply this hot fix, job 4515 does not add duplicate records to the RPT_FRQ_RULE_FIRING_DETAIL table.</p>
<p>Erroneous rule code might create an infinite loop that prevents the OnDemand Decision Engine (ODE) from shutting down SAS® processes during a redeployment.</p>	<p>ODE</p>	<p><b>Summary:</b> Bad rule code can result in a transaction time-out and leave the SAS channel in an unusable state. Also, rule code that causes an infinite loop can prevent the OnDemand Decision Engine from shutting down SAS processes during a redeployment. This behavior can result in processes that consume 100% of the CPU resources.</p> <p><b>Business Impact:</b> Erroneous rule code can cause the OnDemand Decision Engine to stop functioning, and 100% of CPU resources might be used by SAS processes.</p>	<p>After you apply this hot fix, the OnDemand Decision Engine performs the following actions:</p> <ul style="list-style-type: none"> <li>• It kills a SAS process if a transaction times out while it is waiting for a reply.</li> <li>• It creates a new SAS process when there is no SAS channel available for a configurable period and the maximum number of SAS processes has not been reached.</li> </ul> <p style="text-align: right;"><i>(continued on next page)</i></p>

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			The erroneous rule code must still be removed from the deployment.
Transactions that require the same Multi-Entity History (MEH) segment can block other transactions from processing.	ODE	<p><b>Summary:</b> Transactions that require the same MEH segment execute serially. In a worst-case scenario, all engine threads can be blocked by transactions that need the same segment. This situation can impact all transactions.</p> <p>Sorting transactions before sending them to the OnDemand Decision Engine can cause excessive contention.</p> <p><b>Business Impact:</b> Transaction throughput is reduced when the engine threads are consumed by transactions that require the same MEH segment.</p>	<p>After you apply this hot fix, a transaction that is waiting for a lock increments the engine thread-pool size to account for its inactivity. This action helps throughput by providing engine threads for non-contentious transactions.</p> <p>The default value for the <code>threadMaximumPoolSizeUnderContention</code> property is 500.</p>
The error-handling code for a badly formed message can cause the OnDemand Decision Engine to stop processing.	ODE	<p><b>Summary:</b> If invalid data is located at an offset greater than 9999 in a message, the error-handling code can cause the SAS session to fail. The OnDemand Decision Engine stops processing incoming messages.</p> <p><b>Business Impact:</b> The OnDemand Decision Engine fails in some cases when a badly formed message is received.</p>	After you apply this hot fix, the error-handling code that is executed when a badly formed message is processed does not cause the OnDemand Decision Engine to stop processing.
You cannot add entries or remove entries from an analyst list.	RULES	<p><b>Summary:</b> An error occurs if you add or remove entries from an analyst list when the OnDemand Decision Engine session encoding and the transaction encoding are not the same.</p> <p><b>Business Impact:</b> If an analyst cannot add an entry to an analyst list, then fraudulent transactions might not be identified. If an entry cannot be removed, then a valid transaction might be identified incorrectly as fraudulent.</p>	After you apply this hot fix, you can add and remove entries from an analyst list when the encoding differs between the OnDemand Decision Engine and the transaction.

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<p>On Oracle systems, the 4020 job fails with an error when the logon hour is 11:00 pm.</p>	<p>LOADERS</p>	<p><b>Summary:</b> The 4020 job populates the database tables that are used by the Agent Time Analysis report. The job fails when the hour value of the logon timestamp is 11:00 pm. Adding one hour results in an hour value of 24, which is invalid for Oracle.</p> <p>When this problem happens, the following error is generated:</p> <pre>ERROR: Error fetching from cursor. ORACLE error is ORA-1850: hour must be between 0 and 23.</pre> <p><b>Business Impact:</b> Agent Time Analysis Report data is not available.</p>	<p>After you apply this hot fix, the 4020 job completes when the logon timestamp is 11:00 pm.</p>
<p>On the <b>Alerts</b> tab, you cannot click to copy the entity value to the clipboard.</p>	<p>ANYLSTSWORK</p>	<p><b>Summary:</b> In earlier releases of SAS® Fraud Management, you can click the entity links on the <b>Alerts</b> tab to copy the values to your clipboard.</p> <p><b>Business Impact:</b> You cannot copy entity values to the clipboard from the <b>Alerts</b> tab.</p>	<p>After you apply this hot fix, you can click the entity values on the <b>Alerts</b> tab to copy the values to the clipboard.</p>
<p>The alert information panel is small and you must scroll to view the contents.</p>	<p>ANYLSTSWORK</p>	<p><b>Summary:</b> In earlier releases of SAS Fraud Management, the alert information panel is across the top of the alert page. In release 4.4_M0, the panel is now on the right side of the page and it is scrollable. Some users might prefer the former location of the alert information panel.</p> <p><b>Business Impact:</b> The entire content of the alert information panel is not visible without scrolling.</p>	<p>After you apply this hot fix, the location of the alert information panel is configurable. There is a new system property, <b>analyst.alert.alertInfoPanelDisplay</b>, to control the location.</p> <p style="text-align: right;"><i>(continued on next page)</i></p>

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			<p>The valid property values are as follows:</p> <ul style="list-style-type: none"> <li>• SPLIT: The panel is on the right (default).</li> <li>• FIRST_TAB: The panel is the first tab in the tab group on the left.</li> <li>• SECOND_TAB: The panel is the second tab in the tab group on the left.</li> <li>• LAST_TAB: The panel is the last tab in the tab group on the left.</li> </ul>
<p>On the <b>Alerts</b> tab, the analyst marking cannot be removed from some transactions.</p>	<p>ANYLSTSWORK</p>	<p><b>Summary:</b> The confirmed fraud (CF) analyst marking cannot be removed from a transaction under some circumstances. For example, if a transaction’s marking is added under one alert, it cannot be removed under a different alert. It also cannot be removed under the same alert with a different version number.</p> <p>The CF markings are used in rule estimation. Also, if you add a CF marking to a transaction, a message is sent to an enterprise case management (ECM) system (if that system is configured).</p> <p><b>Business Impact:</b> The CF analyst marking cannot be removed from some transactions.</p>	<p>After you apply this hot fix, you can remove the CF analyst marking from any transaction of an alert.</p>