

Release Notes for SAS® Fraud Management 4.3_M0, Hot Fix 4

Description	Component	Summary and Business Impact	Test Scenario
<p>The 4020 job fails when the DBMAINT_ATA_WINDOW property is set to 0.</p>	<p>REPORTS</p>	<p>Summary: The 4020 job populates the FCM_WORKTIME_SUMMARY and FCM_STRATEGY_SESSION_SUMMARY database tables. These tables are used by the Agent Time Analysis report.</p> <p>The 4020 job fails with an error if DBMAINT_ATA_WINDOW is set to 0. The job completes successfully if DBMAINT_ATA_WINDOW is set to a number greater than 0.</p> <p>Business Impact: Agent Time Analysis Report data is not available.</p>	<p>After you apply this hot fix, the 4020 job completes successfully if DBMAINT_ATA_WINDOW is set to 0.</p>
<p>On Oracle systems, the GET_VXX function in the Transaction Data Repository (TDR) database fails.</p>	<p>DATABASE</p>	<p>Summary: The GET_VXX function fails if no VXX record is found. The error message is as follows:</p> <pre style="margin-left: 40px;">ERROR: Error fetching from cursor. ORACLE error is ORA-06592: CASE not found while executing CASE statement ORA-06512: at "TDRCORE.GET_VXX", line 77.</pre> <p>Business Impact: Fast-path rule estimation fails.</p>	<p>After you apply this hot fix, the GET_VXX function succeeds without error.</p>
<p>On Oracle systems, the GET_VXX function in the TDR does not parse the UVR_ID input parameter.</p>	<p>DATABASE</p>	<p>Summary: The UVR_ID input is a character string of comma-delimited values. The GET_VXX function does not parse the input variable correctly, causing the results of the function to be inaccurate.</p> <p>Business Impact: Results of the fast-path rule estimation are inaccurate.</p>	<p>After you apply this hot fix, the GET_VXX function produces accurate results.</p>

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Job 4515 can add duplicate rows to the database table RPT_FRQ_RULE_FIRING_DETAIL.	REPORTS	<p>Summary: 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>Business Impact: The Frequency of Rules Fired report does not contain the latest data until job 4515 completes successfully.</p>	After you apply this hot fix, job 4515 does not add duplicate records to the RPT_FRQ_RULE_FIRING_DETAIL table
On Oracle systems, an application error occurs in rule estimation when deployment files age from the system.	ESTIMATION	<p>Summary: On Oracle systems, the query that retrieves the list of builds from the FCM_BUILD database table excludes builds where the logical delete indicator is set. If a rule estimation requires one of the excluded builds, an application error occurs.</p> <p>The related configuration properties are as follows:</p> <ul style="list-style-type: none"> • deployment_expires_after - This property controls when entries in the FCM_BUILD database table are marked for deletion and when the rule-deployment files are removed from the system. The logically deleted build entries are not purged from the FCM_BUILD table until all transactions using that build number are purged from the transaction tables in the TDR database. • FCM_type_PURGE_DAYS – These properties specify the number of days to keep the transaction table for each type. • FCM_type_VXX_PURGE_DAYS – These properties specify the number of days to keep the _VXX table for each transaction type. <p>Because the fast-path estimations use the data in both the transaction table and its associated _VXX table, the transaction purge properties should be set to the same value for both tables for each transaction type.</p> <p>Business Impact: Fast-path rule estimation fails.</p>	After you apply this hot fix, fast-path estimations that use logically deleted builds complete successfully.

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<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>Summary: 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>Business Impact: 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"> • It kills a SAS process if a transaction times out while it is waiting for a reply. • 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. <p>The erroneous rule code must still be removed from the deployment.</p>
<p>Transactions requiring the same Multi-Entity History (MEH) segment can block other transactions from processing.</p>	<p>ODE</p>	<p>Summary: 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>Business Impact: 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 threadMaximumPoolSizeUnderContention property is 500.</p>