Release Notes for SAS® Fraud Management 4.2_M1, Hot Fix 2

Description	Component	Summary	Test Scenario
An error occurs when the System of Record (SOR) database is started while the hybrid queue is draining.	J-OSE	This issue occurs only in a clustered Java OnDemand Scoring Engine (J-OSE) environment where the SOR is an Oracle database. If the SOR database is closed while transactions are being processed, the transactions are placed in the hybrid queue. When the SOR is started and the hybrid queue is draining, errors are reported in the J-OSE console log. A loss of transaction data can occur.	After you apply this hot fix, no errors nor data loss occur when you start the SOR database while the hybrid queue is draining.
An error occurs during J-OSE start-up when it is configured for transaction post-processing only.	J-OSE	For mainframe customers, the J-OSE is not responsible for scoring transactions and it does not need to connect to SAS. Instead, the J-OSE is used only for transaction post-processing. When the J-OSE is configured in this way, errors are reported during start-up.	After you apply this hot fix, the J-OSE starts without errors when it is configured only for transaction post-processing.
The default configuration file for the J-OSE does not reflect a primary-primary cluster configuration.	J-OSE	The ose.xml configuration file for the J-OSE currently contains these values, by default: • config.localLockEnabled = true • config.localCacheEnabled = true • config.sqlLockEnabled = false Instead, the defaults should be set for a primary-primary cluster, as follows: • config.localLockEnabled = true • config.localCacheEnabled = false • config.sqlLockEnabled = true	After you apply this hot fix, the default J-OSE configuration in ose.xml is a primary-primary cluster.

Description	Component	Summary	Test Scenario

An error occurs when you redeploy rules and the J-OSE.	J-OSE	When you redeploy both rules and the J-OSE, the engine sometimes fails to start because it tries to use a shared memory key that is already in use. When this problem occurs, the following error is reported in the console.log:
		`FATAL SharedMemoryBuffer "5026" failed, rc=-17`
		`ERROR OSE redeploy 0.2 failed`
		`com.sas.finance.fraud.engine.client.ConfigurationException: Shared memory key:5026 in use`
			After you apply this hot fix, the J-OSE increments the shared memory key until it finds an unused key. The number of times the key is incremented is configurable, but it defaults to 25. As a result, the J-OSE no longer fails to redeploy and the error is not generated.

The J-OSE requires a new action to send data to the SOR database in configurations that use an external alert management system (XAMS).	J-OSE	The J-OSE requires a new action to send data to the SOR database in XAMS configurations.	After you apply this hot fix, a new action exists in the post-score-actions.xml file. This new action sends data to the SOR in XAMS systems.
In the Rule Diagnostic Tool, the value **`6.013470016999068E-154`** is displayed for columns that do not exist in the transaction table.	J-OSE	In the Rule Diagnostic Tool, the value **`6.013470016999068E-154`** is displayed for columns that do not exist in the transaction table. If the row with this erroneous value is selected, then the Transaction History table is not populated.	After you apply this hot fix, column values are displayed correctly in the Rule Diagnostic Tool.

Description	Component	Summary	Test Scenario
In a primary-primary cluster configuration for J-OSE, transaction data loss can occur when the SOR database is deactivated and then re-activated.	J-OSE	In a primary-primary cluster configuration for J-OSE, transaction data loss is possible when the SOR database is deactivated and re-activated.	After you apply this hot fix, deactivating and re-activating the SOR database does not cause transaction data loss in a primary-primary cluster configuration.
An alert's queue should change only when the result type of the alert is **Unconfirmed**.	J-OSE	The J-OSE should move an alert from its current queue only when the result type of the alert is **Unconfirmed**.	After you apply this hot fix, only alerts with a result type of **Unconfirmed** are moved from their current queue.
The J-OSE does not always stop when there are transactions waiting in the queue and the SOR database is deactivated.	J-OSE	The J-OSE does not always stop when there are transactions waiting in the queue and the SOR database is deactivated.	After you apply this hot fix, the J-OSE stops cleanly when the SOR database is deactivated.
The transaction test harness (pumper) reports incorrect statistics when the repetition count is greater than 1.	J-OSE	The REPETITION_COUNT property in the txn.properties configuration file indicates the number of times that the input message file should be processed. When this property is set to a number greater than 1, the statistics that are reported by the transaction test harness are incorrect.	After you apply this hot fix, the pumper reports accurate statistics when the repetition count is greater than 1.

Description	Component	Summary	Test Scenario
The database purge erroneously removes alerts.	DATABASE PURGE	The database purge, job 3006, erroneously removes alerts that do not satisfy all of the purge criteria.	After you apply this hot fix, the database purge job removes only the alerts that satisfy all of the purge criteria.

An error occurs when you click the server name under **Transaction Pipeline ► Monitor ► Scoring Activity** on the **Console** tab.	J-OSE	The following error message is generated when you click a server name under **Transaction Pipeline ► Monitor ► Scoring Activity** on the **Console** tab:
		`An unexpected error has occurred in the application. Click Resume to continue working.`
		In addition, the following error is written to the J-OSE console.log file:
		`ERROR ApplicationExceptionHandler ============================== SAS&reg; Fraud Management ============================== javax.servlet.ServletException: java.lang.NoSuchMethodError: com.sas.finance.fraud.engine.client.jmx.OSEStats.getOseQueueDepth()`
			After you apply this hot fix, clicking a server name under **Transaction Pipeline ► Monitor ► Scoring Activity** no longer generates an error.