Release Notes for SAS® Fraud Management 4.4_M0, Hot Fix 2

Description	Component	Summary	Test Scenario
An error page is displayed when you handle a rule that has a queue from another business unit.	RULES	An error page is displayed when you work with a rule that has a queue from another business unit that you do not have access to. You should be able to edit the rule even if you do not have access to the queue previously set for the rule. No error should be reported.	After you apply this hot fix, you can edit a rule that previously was set to use a queue from another business unit.
The property table on the **Console** tab is not consistent with the property tables on the **Preferences** tab.	GUI	The **Console Properties** table on the **Console** tab has different columns and layout when it is compared with the tables found under **System Properties** on the **Preferences** tab. All of the property tables should be consistent.	After you apply this hot fix, the property tables are consistent between the **Console** tab and the **Preferences** tab.
A non-descriptive warning message is displayed when you do not have permission to access **Alert Management Integration Points** on the **Console** tab.	ADMIN	If you are not a system administrator, you cannot access **Alert Management Integration Points** on the **Console** tab. After an access attempt, the following, uninformative warning message is displayed: `Unauthorized for service request: MessageRecoveryService.getMessageFailuresCount`	After you apply this hot fix, a descriptive error message is displayed when someone who is not a system administrator attempts to access the **Alert Management Integration Points**. The new message is as follows: `There has been an error viewing this page. Please ensure you are authorized to view this page, then contact an administrator for help.`

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A linked alert that is created for a transaction is not displayed on the current page, but it is displayed on a filtered page.	ANYLSTSWORK	This issue occurs when a customer alert for a highlighted transaction is created in the transaction grid. The new alert is not in the linked alerts of the current transaction grid. If the displayed entity is filtered by customer number, then the linked alert is seen.	After you apply this hot fix, you are presented with options to open the new alert or to add it to the current alert list.
You cannot delete block codes from the **Tables** tab.	ADMIN	In the web application, the ability to delete block codes does not exist. An enhancement is needed to add this feature.	After you apply this hot fix, you can delete block codes on the **Tables** tab.
The date for a recording on the **Console** tab is not in the correct format.	ADMIN	Recordings are listed on the **Console** tab that you access by selection **Transaction Pipeline ► Inspect ► Recordings**. The date at the top of a recording does not comply with the date format that is specified in the web-application preferences on the **Preferences** tab.	After you apply this hot fix, the recording date is formatted as specified in the web-application preferences.
Alerts are not displayed on a queue's content page when Microsoft Internet Explorer is set to a language other than English.	STRATEGIES	When the language setting for Internet Explorer is not English, alerts are not displayed on a queue's content page. This issue occurs when you perform these steps: 1. On the **Strategies** tab, expand a strategy and click a queue that contains alerts. 2. On the **Queue Definition** page, click the **Contents** link in the title bar for the **General Properties** section.	After you apply this hot fix, alerts are displayed on the queue's content page.

Description	Component	Summary	Test Scenario
You cannot use the web application to set up a new segment for **Code Description**.	ADMIN	Currently, the only way to add a new segment for **Code Description** is to run the initial loader or use a database script to create a row for the new segment.	After you apply this hot fix, you can set up a new segment in the web application that is available by selecting **Tables ► Code Description**. From the Code Description table that results, you can modify or delete a code description. You can also click the **Add New Row** button to add a new code description.
Analyst updates to the base transaction tables are slow.	DATABASE	Analyst updates to the base transaction table are slow because the update uses the CMX_TRAN_ID index column. The primary key index columns in the transaction tables are RQO_PROC_UTC_DATETIME followed by CMX_TRAN_ID. Changing the order of these two columns improves query performance.	After you apply this hot fix, analyst updates to the base transaction tables perform better. The primary key indexes are defined with the CMX_TRAN_ID index column as the first column.
Customers cannot add their own fields to a segment that is passed to SAS® Fraud Management. A flexible application- programming interface (API) is needed.	ODE	Customers need the ability to add their own fields to a segment that is passed into SAS Fraud Management.	After you apply this hot fix, a new input segment, I##, is available for custom fields.
The RRR_ACTION_CODE and RRR_ACTION_INFO values are set to **0** and **9999** if there is no TCA segment.	RULES	At the end of a rule, the rule code sets the TCA_AUTH_SYS_INFO value to **0000**. This value then carries over to the RRR_ACTION_INFO value. Instead, the code should set the TCA_AUTH_SYS_INFO value to **zzzz**.	After you apply this hot fix, the rule code sets the TCA_AUTH_SYS_INFO value to **zzzz** instead of **0000** when there is no TCA segment.

Description	Component	Summary	Test Scenario
Estimation code eliminates trailing zeros from the rule version number when the code retrieves results.	RULES	When a rule version number has trailing zeros, the estimation is run on the correct rule. However, the results for the estimation are retrieved for the rule number with the trailing zeros removed. For example, results for rule 51111.4 are fetched for an estimation run on rule 51111.40.	After you apply this hot fix, the estimation results for the correct rule version are retrieved.
The SAS® OnDemand Decision Engine does not read data from the hybrid queue files properly when the encoding is Extended Binary Coded Decimal Interchange Code (EBCDIC).	ODE	The issue occurs only on mainframe systems when the encoding is EBCDIC. If a transaction does not fit in a memory-mapped file, a special *SEGMENT-ID-VERSION* value is used to indicate that the next file should be read. The check for this value fails and reports the SEGMENT-*ID-VERSION* value as invalid. The error in the console log is as follows: `ERROR LoggingThread [Walk 2] (id=29) caught uncaught Throwable com.sas.finance.fraud.transaction.NoSuchSegmentException`	After you apply this hot fix, the SAS OnDemand Decision Engine properly reads data from the hybrid queue files when the encoding is EBCDIC.
The analyst list assignment on a strategy should not be restricted to the same tenant.	ADMIN	Currently, the analyst list assignment on a strategy is restricted to the tenant of the business unit that the strategy is defined under. This restriction is incorrect in a multi-tenant environment. A queue might contain alerts from different tenants. Therefore, in a multi-tenant environment, the analyst list assignment should accept analyst lists from all tenants.	After you apply this hot fix, you can assign active analyst lists from all tenants if the lists' key fields are on the grid template. On the transaction grid, only the analyst lists belonging to the same tenant as the alert are presented.
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Description	Component	Summary	Test Scenario
On the **Explore** tab, the key field for an analyst list in the related rows table should be highlighted.	EXPLORE	In the related rows grid on the **Explore** tab, there is nothing visual to indicate that a key field is associated with an analyst list.	After you apply this hot fix, the column heading for key fields that are assigned to an analyst list in the related rows grid contains an icon to indicate that it is a key field.
The ability to perform time-based searches on the Explore tab is needed.	EXPLORE	Currently, on the **Explore** tab, you do not have the ability to search for transactions based on time.	After you apply this hot fix, you can perform time-based searches on the time-period toolbar under the **Explore** tab. You can search for transactions within a specified time period prior to the current date and time or prior to some other date and time. The specified time period can be in seconds, minutes, hours, days or months.
There is an increasing delay on subsequent imports of model-like rules.	GUI	A performance issue occurs when you import rules files. The rule import time increases with each additional import. The import might not finish or might to take too long to finish.	After you apply this hot fix, rule file imports use an index, which prevents the performance issues.

Description	Component	Summary	Test Scenario
The list of queues is not sorted on the **Strategies** tab.	ANYLSTWORK	When you expand the business unit and strategy on the **Strategies** tab, the list of queues is not sorted alphabetically.	After you apply this hot fix, the list of queues is sorted on the **Strategies** tab.
The alert reason is limited to 100 characters.	RULES	In previous releases, you can enter and save 255 characters for the alert-reason text box on the **General Properties** tab of the rule window. In release 4.3, you can enter and save only 100 characters.	After you apply this hot fix, the alert reason accepts 255 characters.
The compromised entities table that is used by fraud tagging is not purged.	FRDTAG	The compromised-entities table is not purged correctly because of these issues: • The number of days of data to purge from the table is calculated incorrectly. • The FRD_FIRST_DATE and FRD_FIRST_DATE_RES fields are used for the purge criteria, but they are not present in the compromised entities table. • The FRDTAG_EXTRACT_DAYS value is not read from the fraud-tagging configuration file. • If the fraud-tagging macro makes multiple calls to the DB_EXTRACT macro, only the first call returns rows.	After you apply this hot fix, the compromised-entities table is correctly purged.
The alert memo field does not wrap. Instead, a scroll bar is displayed.	ANYLSTSWORK	On the alert **Wrap Up** tab, a scroll bar is displayed in the **Memo** field when the length of the memo exceeds the field width. The scroll bar prevents you from viewing the entire memo text. The memo text does not wrap.	After you apply this hot fix, the memo field wraps and no scroll bar is displayed. The entire memo is visible.

Description	Component	Summary	Test Scenario
A queue is not removed from a strategy when you click the **Remove** button.	ANYLSTSWORK	In the **Queue Assignment** section on the Strategy Definition page, clicking the **Remove** button does not remove the selected queue from the strategy.	After you apply this hot fix, the **Remove** button is no longer available in the **Queue Assignment** section. A queue must be in a strategy. An orphan queue is not allowed.
Customers need a choice of Global ENQ or DB2 locking as a DB2 resource serialization technique.	USC	Historically, the Universal SAS Connector has always used z/OS Global ENQ processing to serialize access to DB2 resources because it is more efficient than DB2 locking. With recent improvements in DB2 technology, customers should now have the choice to use DB2 locking. SAS recommends that customers continue to use Global ENQ processing because it is proven to be fast and reliable. However, large DB2 shops should have the option to use DB2 locking if they choose to.	After you apply this hot fix, you can choose to use DB2 locking instead of Global ENQ processing to control access to DB2 resources in the Universal SAS Connector.
When you run the Frequency of Rules Fired report, there can be a long delay before the Report Definition page is displayed.	REPORTS	After you select and run the Frequency of Rules Fired report, the Report Definition page might not be displayed, or it might take a long time to be displayed. The query that is used to gather rule information might take a long time to complete. This behavior can cause a delay in the rendering of selection options, or the selection options might not render at all. If the selection options are not displayed, you cannot run the report.	After you apply this hot fix, the Report Definition page is displayed promptly and you can run the report.
The transaction ping configuration for the SAS OnDemand Decision Engine should be changed to avoid warning messages in the console log.	ODE	You might receive a `TRANSACTION_FAILED` warning message in the console log for the SAS OnDemand Decision Engine. This warning might be caused by the test reply from the SAS OnDemand Engine that is generated via the transaction ping utility.	After you apply this hot fix, the transaction ping utility does not report `TRANSACTION_FAILED` warning messages to the console log.

Description	Component	Summary	Test Scenario
A user-variable segment that is keyed on an Automated Clearing House (ACH) batch ID is not deleted after the batch trailer in a tenant environment.	ODE	In a tenant environment, a user-variable segment that is keyed on an ACH batch ID is not deleted at the end of the batch. An ACH batch signature needs to be managed correctly with respect to these two behaviors: • Unlike other signatures, an ACH batch signature is deleted at the conclusion of the ACH batch (when the ACH batch trailer detail record is processed). • Unlike other transaction processing, clients are instructed to serially process the detail records in an ACH batch process. If they do not, then it is possible that detail records might arrive before the batch header or after the batch trailer. As a precaution, initialize the batch signature when a batch header is received. This action discards the effects of any out-of-order detail records that arrive prior to the header.	After you apply this hot fix, a user-variable segment that is keyed on an ACH batch ID is correctly deleted after the batch trailer in a tenant environment.
Credential failures and a space at the end of the defaultSchemaName value in the ose.properties file do not prevent SAS OnDemand Decision Engine from starting.	ODE	If the database schema name is entered with any trailing spaces during configuration, the SAS OnDemand Decision Engine does not start properly, and transactions can back up in the hybrid queue. Also, incorrect credentials that are supplied to the SAS OnDemand Decision Engine are not logged. This behavior gives the appearance the credentials are correct because no error message is written.	After you apply this hot fix, trailing spaces are removed from requests to the SAS OnDemand Decision Engine, enabling it to start without error. In addition, if incorrect credentials are supplied to the SAS OnDemand Decision Engine, the error is logged.
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Description	Component	Summary	Test Scenario
Special characters in a rule name can cause rule prioritization to fail.	GUI	Special characters can be interpreted as HTML tags on the rule-priority page. The special characters can cause rule prioritization to fail in the web application.	After you apply this hot fix, the web application does not allow special characters to be entered in the rule name. Special characters are also stripped from the rule name when the rule is imported.
In the interactive voice response (IVR) web service, the method of identifying the alert in the error response should match the method that is used in request.	IVR	An IVR request can use either the ALERT-ID or the ENTITY-ID, and ENTITY-TYPE to identify an alert. If the request uses ENTITY-ID and ENTITY-TYPE and an error occurs, the IVR response includes the ALERT-ID. Instead, it should use the same method as the request.	After you apply this hot fix, the IVR error response uses the same method of identifying the alert as the request uses.
The SAS OnDemand Decision Engine does not explicitly set the current working directory.	ODE	The current working directory is not explicitly set when you start the SAS OnDemand Decision Engine. This behavior can result in files being left in the current directory that was in effect at start up.	After you apply this hot fix, you can use the RUN_DIR variable value to control the current working directory for the SAS OnDemand Decision Engine. The default value is the logs directory.