Release Notes for SAS® Fraud Management 4.1_M0, Hot Fix 5

Description	Component	Summary	Test Scenario
Values for the **Date** and **Time** fields are displayed incorrectly in the Individual Call History report.	REPORTS	Although dates and times are shown in the correct format, the hours that are displayed in the Individual Call History report do not match either local time or Greenwich Mean Time (GMT), and they appear to be converted incorrectly for the report.	After you apply the hot fix, the date and time are displayed according to your internet browser's time setting.
When you close the previous dimension record, there is no error checking.	ETL	When you run job 4017 to update the rule ID in the Reporting History (RH) database, it is possible that two rows will be entered in the table with the same Rule_ID value. This problem occurs because of a missing record lock and error check.	After you apply the hot fix, proper error checking and locks will prevent multiple rows with the same Rule_ID value from being displayed.
The rule code is displayed as `oracle.sql.CLOB` in the **List Variables** task.	RULES	When you view a variable that has active rules associated with it, the system shows object code.	After you apply the hot fix, the variable code is displayed correctly when you view variable details by selecting **Tasks ► Lists** from the **Rules** tab.
The GET_RULE_SLOTS function for grid display does not return Rule IDs.	DATABASE	When the Analyst Workstation displays the grid (and the grid is configured for "all rules fired"), clicking the All Rules column for a transaction displays the list of Rule IDs that fired on the transaction. The list of Rule IDs that are displayed are not correct or are incomplete.	After you apply the hot fix, you can see all of the Rule IDs for the rules that fired.

Description	Component	Summary	Test Scenario
When an alert that has a block code placed on it expires, you cannot reapply the block.	ANYLSTSWORK	When you try to reapply a block on an expired status in an alert, you cannot renew the block.	After you apply the hot fix, you can reapply the block on an alert after the alert expires.
Reports should not filter business units by multi-organization.	Canned Reports	The **Reports** tab uses the `authorizationManager.getBusinessUnitIds()` method to retrieve the business units that are available for selection. This method retrieves the business units, but it filters them by multi-organization. However, you need to see all business units within your purview, not just the ones within your multi-organization purview.	After you apply the hot fix, you can see all assigned business units, not just the ones in your multi-organization assignment.
The FSX_RULE_PACKAGE.BUSINESS_UNIT_ID column is not populated in the Oracle System of Record (SOR) database.	DATABASE	When rules are deployed, the FSX_RULE_PACKAGE.BUSINESS_UNIT_ID column is not populated. Instead, it defaults to a null state. This problem occurs when you run the Alerts By Score Band and Frequency of Rules Fired reports.	After you apply the hot fix, the FSX_RULE_PACKAGE.BUSINESS_UNIT_ID column is populated correctly.
Job 4024 inserts the value for the RHX_DATE_KEY field into the FRH_ALERT_ACTION_FACT table as a date value (rather than a datetime value) for Oracle.	Batch Job	The FRH_ALERT_ACTION_FACT table inserts the value for the RHX_DATE_KEY field as a date value (rather than a datetime value) for Oracle. As a result, job 4024 appears as if no data is moving, but no errors are reported in the log.	After you apply the hot fix, the value for RHX_DATE_KEY displays as a datetime value and job 4024 processes correctly.
			(table continued)

Description	Component	Summary	Test Scenario
The Alert Generation Server (AGS) rejects messages as invalid formatting in fields with dates and numeric values.	AGS	In SAS® Fraud Management version 3.3_M1, the AGS (rather than the Alert Generation Engine (AGE), transcodes transactions. The AGE indicates that fields are not formatted correctly. However, the transaction does not fail. The AGS, on the other hand, does cause the transaction to fail if a field is not encoded correctly.	After you apply the hot fix, the fields listed below record data when a field fails, and the AGS error log records the error. • `cqf_sys_rtn_code=0004` (run-time warning) • `cqf_sys_err_code=5010` (AGS error transcoding) • `cqf_sys_err_info1 =` (segment acronym with field in error) • `cqf_sys_err_info2 =` (index of field within the segment) **Note:** These values are set only when the `cqf_sys_rtn_code` field does not have an error logged to it.
Users need the ability to limit the date range for data retrieval from the FHR_RULE_FIRE_FACT table.	BATCH	Job 4515, which reads from various tables in the Reporting History (RH) database and then updates the table RPT_FRQ_RULE_FIRING, takes significant time to process because of the sorting that is performed. The sorting process can cause for you to run out of workspace.	After you install this hot fix, the performance of job 4515 should improve without workspace issues. In this hot fix, the sort functions are modified and you can restrict the number of days for extraction. The default number of days to *(continued)*

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			extract is 30, but you can edit that value to a smaller number to gain additional increases in performance.
Job 4090 might not copy all necessary entries from the SOR to the RH, and this behavior affects reporting.	REPORTS	Job 4090 does not insert all necessary entries from FSXP_USER_BUS_UNIT to FRH_USER_BUS_UNIT_DIM when it runs for multiple business units. This behavior impacts the results of the Frequency of Rules Fired and Alert by Score Band historical reports.	After you install this hot fix, the information processed by job 4090 is correct, and the reports accurately display the data that is requested.
Historical reports use an incorrect cache model for business-unit selection.	REPORTS	When you run historical reports, the cache values for Business Unit use a cache model that does not flush and refresh. This behavior causes the reports to have inaccurate information if the Business Unit information has changed.	After you apply the hot fix, the historical reports use the most recent business-unit information and report accurately the historical data that is based on the business unit.
When you run reports from the **Reports** tab, the software might not return results or the results might be inaccurate.	REPORTS	When you run the reports in an Oracle implementation, the time stamps are not calculated accurately. This behavior affects Oracle queries that use the date comparisons of SNAP_DATE and GMT_SNAP_DATE. In addition, the data that is represented in the report is not displayed for the time/date range that is requested in the report. In both Oracle and DB2 implementations, when you attempt to run the reports on a single date (where start and end date are the same), the calculations do not produce accurate results. This problem is caused by the query that runs on a 12-hour window instead of a 24-hour window.	After you apply the hot fix, running the following reports gives accurate information in the reports, based on the date and time ranges requested: • Fraud Summary • Work Unit Fraud Summary • New Alerts Scheduled • False Positives *(continued)*

Description	Component	Summary	Test Scenario
			• New Available Inventory • Agent Time Analysis
When you run the Agent Time Analysis report, the date filter does not work properly.	REPORTS	When you run the Agent Time Analysis report where the start and end dates are the same date, the values are not read correctly to display the data that is required for the hour range that you select.	After you apply the hot fix, running the Agent Time Analysis report for a single date produces accurate data.
The TENANT_MULTI_ORG_ID table is not evaluated by the TR_BUILD trigger. This behavior impacts the **User Variable Decoding** fields for a build.	DATABASE	The TR_BUILD trigger for both Oracle and DB2 databases does not respect the TENANT_MULTI_ORG_ID table when the trigger populates the FSX_USER_VARIABLE table. As a result, data is incorrect in the FSX_USER_VARIABLE table.	After you apply the hot fix, the database trigger reads the TENANT_MULTI_ORG_ID table and populates the FSX_USER_VARIABLE table with the correct information.
The queue key does not display properly in the Frequency of Rules Fired report.	REPORTS	When job 4515 processes information to populate the table for the Frequency of Rules Fired report, it replaces the queue key with a **-1** value in error. This action prevents the report from displaying any data because a valid queue key is required.	After you apply the hot fix, the queue key populates the table correctly. In addition, if report parameters include applicable data, the Frequency of Rules Fired report is displayed correctly.