

Release Notes for SAS® Fraud Management 6.1_M0, Hot Fix 8

Description	Component	Summary and Business Impact	Test Scenario
<p>A lookup list definition can prevent rule testing and the start-up of the OnDemand Decision Engine.</p>	<p style="text-align: center;">ENGINE</p>	<p>Summary: The following problems might occur when you create a lookup list definition:</p> <ul style="list-style-type: none"> • The OnDemand Decision Engine (ODE) does not start. • Rule deployment does not complete. • Rule testing does not complete. • Rule estimation does not complete. <p>The situation occurs when the column names in the lookup list definition follow this formula:</p> $((\text{Length of all key fields}) + (\text{length of all variable fields}) + 2 * (\text{number of key fields}) + 3 * (\text{number of variable fields}) + 4) \text{ MOD } 71 = 0$ <p>This issue is described in SAS Note 64586.</p> <p>Business Impact: Transactions are not processed or identified as fraudulent when the OnDemand Decision Engine is down. Since the condition appears random and is difficult to detect, this issue can have significant impact.</p>	<p>After you apply the hot fix, the lengths of lookup list column names are properly handled. Rule deployments, rule tests, and rule estimations complete, and the OnDemand Decision Engine starts successfully.</p>
<p>A cookie does not have the <code>HttpOnly</code> flag.</p>	<p style="text-align: center;">SECURITY</p>	<p>Summary: On the logon page, a cookie is set without the <code>HttpOnly</code> flag, which means that the cookie can be accessed by JavaScript and might be vulnerable.</p> <p>Business Impact: Cookies without the <code>HttpOnly</code> flag set can be accessed by JavaScript. If a malicious script can be run on the page, then the cookie is accessible and can be transmitted to another site.</p>	<p>After you apply the hot fix, the cookie is set with the <code>HttpOnly</code> flag and is no longer vulnerable.</p>

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<p>You cannot adjust the length of time before the syntax check occurs in the rule editor.</p>	<p>RULES</p>	<p>Summary: When you edit a rule, the delay before the syntax check occurs is hardcoded to 500 milliseconds. This value should be configurable, but it is not.</p> <p>Business Impact: Frequent syntax checks might slow down rule writing.</p>	<p>After you apply the hot fix, the FCM_PROPERTY table contains a new property that is named <code>webapp.done.typing.interval</code>. This property controls the time interval for the syntax check. You can update this property on the Preferences tab in the web application. The default value is 500 milliseconds.</p>
<p>In the rule editor, the Test button is enabled when there are syntax errors in the rule.</p>	<p>RULES</p>	<p>Summary: When you edit a rule, you can click the Test button even if the syntax checker is not finished checking the rule for errors.</p> <p>Business Impact: The rule test can show that it completed successfully before syntax errors are identified. This behavior is confusing to the user and might lead to rework.</p>	<p>After you apply the hot fix, the Test button in the rule editor remains disabled until the syntax check is completed for a rule.</p>
<p>You cannot configure the system to disable the auto-completer for the rule editor.</p>	<p>RULES</p>	<p>Summary: When you edit rules, the code editor has a feature that automatically completes the statements as you type. This feature reduces the amount of typing that is needed. However, some customers might not want this feature to be enabled. The ability to disable it should be provided.</p> <p>Business Impact: The auto-completer runs automatically as you enter rule code, and it cannot be disabled.</p>	<p>After you apply the hot fix, a new property is available to disable the auto-completer in the rule editor. This property name is <code>webapp.enable.autocompleter</code>. You can update the property on the Preferences tab in the web application. The default value is <code>true</code>. If you set the value to <code>false</code>, you then use the CTRL+Space bar to invoke the auto-completer manually.</p>

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In the rule editor, no message is displayed when a rule is saved successfully.	RULES	<p>Summary: There is no indication when a rule is saved successfully. On a busy system where a rule save can take several seconds, you do not know how long to wait for the process to complete.</p> <p>Business Impact: The rule writer does not know when the rule save completes. This fact can lead to unnecessary rework.</p>	After you apply the hot fix, a message is displayed when a rule is saved successfully. There is a warning if the rule saved successfully but contains syntax errors.
In the rule editor, no message is displayed when a rule is saved successfully but contains syntax errors.	RULES	<p>Summary: During development, you might want to save a rule before you have completed it, even if it contains syntax errors. After you click the Save button, there is no indication that the rule was saved. There should be a message that states that the rule was saved and that it contains syntax errors.</p> <p>Business Impact: Rule writers are not warned if the rule they saved contains syntax errors. If the syntax errors are not resolved, promotion to testing is not possible.</p>	<p>After you apply the hot fix, the following warning is displayed when you save a rule that contains syntax errors:</p> <pre>Rule was saved with syntax errors.</pre>
Rule promotion is slow.	RULES	<p>Summary: The process of promoting a rule from the coding folder to testing and then from testing to production takes longer than it did in earlier releases of SAS Fraud Management.</p> <p>Business Impact: Slow performance in Rules Studio impacts the user workflow.</p>	After you apply the hot fix, the performance of rule promotion is improved.

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<p>A rule test can run successfully even when there is a syntax error in the rule.</p>	<p>RULES</p>	<p>Summary: By default, the syntax checker checks the rule within 500 milliseconds. You can extend this time by increasing the value of the <code>webapp.done.typing.interval</code> property in the FCM_PROPERTY table.</p> <p>When you develop a rule and click the Test icon before the syntax-check interval elapses, the test is successful, even if the rule contains a syntax error. The larger the value for <code>webapp.done.typing.interval</code>, the more likely you will observe this issue.</p> <p>Business Impact: A syntax error prevents the rule writer from promoting the rule to testing. It is confusing if a rule test succeeds but the promotion fails.</p>	<p>After you apply the hot fix, a rule test fails if there are syntax errors.</p>
<p>Changing tabs in the Prioritize Rules window is slow.</p>	<p>RULES</p>	<p>Summary: When there are many rules, changing between the Variable, Authorization, and Queue tabs is slow.</p> <p>Business Impact: Prioritizing rules is slow for many rules.</p>	<p>After you apply the hot fix, changing tabs in the Prioritize Rules window is faster.</p>
<p>When you save a rule, you can click the Save button more than once before the operation completes.</p>	<p>RULES</p>	<p>Summary: After you click the Save button in the rule editor, the button is not immediately disabled. This behavior enables you to click the button again before the Save operation completes. As a result, a misleading error</p> <p style="text-align: right;"><i>(continued on next page)</i></p>	<p>After you apply the hot fix, the Save button in the rule-editor window is disabled immediately after you click the button. The button remains disabled until the Save operation completes.</p>

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		<p>message is displayed after subsequent Save operations complete. For example:</p> <p style="padding-left: 40px;">Rule 50108.1 could not be saved at this time. Most likely it has been modified or deleted by someone else (50111.8).</p> <p>Business Impact: Since the Save button is not disabled during the Save operation, a rule editor can click the button multiple times and cause the error message to display.</p>	
<p>The performance of the query for the Configure Call Results window is slow.</p>	<p>MGRS WORKBENCH</p>	<p>Summary: When the FCM_ALERT_ACTION table is not purged regularly and it grows to be very large, the query that is used for the Configure Call Results window is slow.</p> <p>Business Impact: Configuring new call results might be slow.</p>	<p>After you apply the hot fix, the query for the Configure Call Results window uses the FCM_ALERT table and should perform better.</p>
<p>On PostgreSQL systems, estimation results are incorrect when you do not force recalculation of user variables.</p>	<p>RULES</p>	<p>Summary: On PostgreSQL systems, the Read and Fired counts are zero when the estimation is submitted without selection of the Force Recalculation box.</p> <p>Business Impact: Rule writers cannot use estimation reliably to test their rules on PostgreSQL systems.</p>	<p>After you apply the hot fix, the estimation results are correct when it is run with the Force Recalculation box selected.</p>
<p>In the rule editor, when you type within the parentheses in an IF statement, the auto-completer does not display.</p>	<p>RULES</p>	<p>Summary: When you type "IF(" in the rule editor, the auto-completer adds the closing parenthesis character. If you put the cursor inside the parenthesis and type, the auto-completer does not display a list of items to select.</p> <p>Business Impact: Rule writers cannot take advantage of the auto-completer selection list within an IF statement.</p>	<p>After you apply the hot fix, the auto-completer adds two spaces and the closing parenthesis for the IF statement. When you type within the parentheses, the auto-completer displays a selection list.</p>

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<p>If two users prioritize rules at the same time, updates that are saved by one user are overwritten.</p>	<p>RULES</p>	<p>Summary: If two users prioritize rules at the same time, updates that are saved by the first user are overwritten by changes made by the second user. No warning or error message is displayed.</p> <p>Business Impact: A user might believe that rule prioritization changes were saved when they were not, which causes unnecessary rework.</p>	<p>After you apply the hot fix, only one user at a time can prioritize rules. If a second user attempts to change rule priority, the following message is displayed:</p> <pre>Could not save rule priority changes at this time. Most likely they have been updated by someone else.</pre>
<p>If you use the %ACTION_ALERT macro in a rule for a transaction type that has no associated alert types, the alert-type selection list becomes empty.</p>	<p>RULES</p>	<p>Summary: The list of alert types is cached after it is built in the web application. If you create a rule for a transaction type that has no valid alert types and then use the %ACTION_ALERT macro in the rule, the cached alert-type list becomes empty. When this issue occurs, the alert type for existing rules show as <code>None</code> in Rules Studio. For the alert-type list to be rebuilt, you must restart the web application server.</p> <p>Business Impact: Rule editors temporarily cannot create or edit rules that create alerts. Restarting the web application server resolves the issue.</p>	<p>After you apply the hot fix, the transaction type ID is used to retrieve the list of valid alert types for the Alert Type drop-down selection list in the Configure Alerts window of the rule editor. The selection list retains the correct list of valid alert types for each transaction type.</p>
<p>An application error occurs for several reports when the business-unit name and the group name match.</p>	<p>REPORTS</p>	<p>Summary: Under some conditions, several reports fail with an application error. The affected reports are as follows:</p> <ul style="list-style-type: none"> • Hourly Call Analysis • Agent Time Analysis • Confirmed Fraud Alerts • Contact by Team <p style="text-align: right;"><i>(continued on next page)</i></p>	<p>After you apply the hot fix, the reports complete successfully.</p>

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		<p>The error occurs when the business-unit name and the group name match and when neither the group nor the team have a supervisor assigned to them.</p> <p>Business Impact: Several reports do not complete successfully under certain conditions, and they cannot be used.</p>	
<p>When a dependent rule fails during a rule test, the error message is not displayed on the Log tab.</p>	<p>RULES</p>	<p>Summary: In earlier versions of SAS Fraud Management, errors that are found in dependent rules are written to the Log tab when you test a rule. In release 6.1, the error messages for the dependent rule are not displayed in the banner above the editor window or on the Log tab. Instead, the banner states that the rule ran successfully.</p> <p>Business Impact: A successful rule-test message can be misleading. Errors in dependent rules are not logged.</p>	<p>After you apply the hot fix, errors in dependent rules are displayed on the Log tab after a rule test completes.</p>
<p>When you run a rule test, a full scan of the transaction table is done, which leads to poor performance.</p>	<p>RULES</p>	<p>Summary: The query that is run against the transaction table is not limited by a date range. The entire table is read, and the first million rows are returned. If the transaction table is large, the rule test is slow.</p> <p>Business Impact: A rule test might take a long time to complete.</p>	<p>After you apply the hot fix, the rule-test query is limited and configurable. There are two new properties:</p> <ul style="list-style-type: none"> • rule_test_day_duration: Specifies the number of days in the transaction table to sample for rule testing. The default value is 7 days. • rule_test_transaction_limit: Specifies the number of transaction rows to test the rule against. The default value is 10,000 rows. <p>You can update these properties on the Preference tab under System Properties – Rule Testing.</p>

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<p>You can click the Close button on the rule editor window multiple times, which is not correct behavior.</p>	<p>RULES</p>	<p>Summary: After you make a change to a rule, clicking the Close button prompts you to save the rule before you close it. After you click Yes to save the rule, the Close button remains enabled until the Save operation completes. If the Save operation to the database is slow, you can click the Close button more than once. As a result, rule updates might be lost.</p> <p>Business Impact: If the rule Save and Close operations do not complete quickly, the Close button remains enabled and there is no busy indicator. As a result, users' workflows can be impacted.</p>	<p>After you apply the hot fix, the Close button is disabled after you click it. You can no longer click the button multiple times before the rule is closed. Also, a busy indicator is displayed while the Save and Close operations are in progress.</p>
<p>You cannot turn off automatic syntax checks in the rule editor.</p>	<p>RULES</p>	<p>Summary: In earlier versions of SAS Fraud Management, you had to click the Check button to perform a syntax check on a rule. In the current version, the syntax check is performed automatically as you type rule code in the editor window. There should be an option to re-add the Check button and turn off automatic syntax checking.</p> <p>Business Impact: Some rule writers might prefer to check syntax all at once rather than having multiple syntax checks happen automatically as they type their code.</p>	<p>After you apply the hot fix, a new property is available on the Preferences tab under System Properties.</p> <p>The property name is <code>webapp.show.rule.syntax.button</code>. If the property is set to <code>false</code>, the syntax check is automatic. The default value is <code>false</code>. If the property is set to <code>true</code>, the Check button is displayed on the toolbar.</p> <p>If <code>webapp.show.rule.syntax.button</code> is set to <code>true</code>, then the number of syntax errors that are found is displayed next to the syntax Check button.</p>

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<p>You can click the Promote button multiple times, which is not correct behavior.</p>	<p>RULES</p>	<p>Summary: When you promote a rule, you can click the Promote button multiple times. This behavior should not happen. The button is not disabled after you click it. Also, if the promote operation takes some time to complete, you do not see a busy indicator.</p> <p>Business Impact: If the promotion operation does not complete quickly, the Promote button remains enabled and there is no busy indicator. As a result, users' workflows can be impacted.</p>	<p>After you apply the hot fix, the Promote button is disabled after it is clicked. A busy indicator is displayed also if the operation does not complete quickly.</p>
<p>An error occurs when two users save the same lookup list or analyst list.</p>	<p>RULES</p>	<p>Summary: If two users update and then save the same lookup list or analyst list at the same time in Rules Studio, an error occurs. One user receives a success message in the web application. The other user sees a blank display instead of the list of lookup lists and analyst lists.</p> <p>Business Impact: Only one user at a time can update a lookup list or analyst list. No message is displayed to the users that must wait.</p>	<p>After you apply the hot fix, a user sees a success message after an update to a lookup list or analyst list. If a second user tries to save edits to the same list at the same time, the following error message is displayed on the web page for that user:</p> <p>Unable to update lookup list definition. The selected lookup list was updated or deleted by another process after it was displayed. Please try the request again.</p>
<p>When you upload a lookup list with more than one invalid character, only the first error is reported.</p>	<p>RULES</p>	<p>Summary: When you upload a lookup list into Rules Studio, the list is scanned for invalid characters based on the configured encoding. If an invalid character is found, an</p> <p style="text-align: right;"><i>(continued on next page)</i></p>	<p>After you apply the hot fix, a new property is available on the Preferences tab under System Properties. The property name is lookup_list_invalid_character_messages.</p> <p style="text-align: right;"><i>(continued on next page)</i></p>

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		<p>error message like the following example is displayed on the web page:</p> <pre>Cannot upload the file because: Character found on line 100 column 25 is not supported by the character set ISO8859_1</pre> <p>If the file contains additional errors, they are not listed in the error message.</p> <p>Business Impact: Since only the first error is listed, it might take several attempts to locate all invalid characters in the lookup list file.</p>	<p>This property value determines how many invalid character messages should be displayed. The default value is 1. If the value is set to 0, then all the invalid characters are displayed. If you use a number other than 1 or 0, that is the number of messages that are displayed. For example, if you set the property to 5, then five messages are displayed.</p>
<p>No busy indicator is displayed when you define a new rule.</p>	<p>RULES</p>	<p>Summary: No busy indicator is displayed when you click the Next button in the New Rule window. After you click the button and the rule is created, you can continue to edit data in the fields, and you can still click the Cancel button during rule creation.</p> <p>Business Impact: This issue can impact rule writers' workflows. No busy indicator is displayed, and input fields can be edited before the create operation completes.</p>	<p>After you apply the hot fix, a busy indicator is displayed while a new rule is created.</p> <p>In the New Rule window, all actions are prevented once you click the Next button. Those actions include the following:</p> <ul style="list-style-type: none"> • Data entry fields • Next button • Cancel button • X (close window)
<p>In the rule Properties window, options are not disabled and no busy indicator is displayed after you click the Save button.</p>	<p>RULES</p>	<p>Summary: You can continue to modify fields in the rule Properties window after you click the Save button. There is no visible indicator that the Save operation is in progress.</p> <p>Business Impact: Rule writers might lose rule property edits that are done after the Save button is clicked.</p>	<p>After you apply the hot fix, all options are disabled when you click the Save button in the rule properties window. In addition, a busy indicator is displayed.</p>

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<p>The segments in the generated XML file in the MessageAPI directory are not in the correct order.</p>	<p>RULES</p>	<p>Summary: When the 06.01.00.xml file is generated during a rule deployment, the segment order in the file does not match the order that is defined by the SEGMENT_SORT_ORDER column of the FCM_SEGMENT_DEFINITION table in the System of Record database.</p> <p>Upon start-up of the OnDemand Decision Engine (ODE), a log message like this message is written to the log:</p> <pre>2021-08-27T17:34:47,182 [main] WARN SASMetadata XXX and YYY are out of order</pre> <p>When a transaction of the custom type is received by ODE, an error occurs. When this error happens, the message in the log contains the following codes:</p> <pre>smh_rtn_code="12" smh_reason_code="BSEG"</pre> <p>Business Impact: If you have defined custom transactions and definitions in the API, transactions of the new type are not processed by the ODE. Fraudulent transactions might be missed.</p>	<p>After you apply the hot fix, the segment order in the XML file in the MessageAPI directory is correct.</p>
<p>When you click the Import button in the Import Rules window, the Cancel button is not disabled.</p>	<p>RULES</p>	<p>Summary: After you browse to select a rule file to import and you click the Import button, you can still click the Cancel button before the busy indicator is displayed. However, since the import process has already started, the cancellation does not occur. When this problem occurs, you do not see the Import Success window after the import</p> <p style="text-align: right;"><i>(continued on next page)</i></p>	<p>After you apply the hot fix, the Cancel button is disabled immediately after you click the Import button to import rules. The X in the upper right corner of the window is disabled as well to prevent the closing of the window after you click the Import button.</p>

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		<p>process completes. The rules that are successfully imported are listed in the Coding folder.</p> <p>Business Impact: Since the Cancel button is not immediately disabled after you click the Import button, you might click Cancel and believe that the rule import is cancelled when it is not.</p>	
<p>You cannot use %ACTION_RETURN_RESULT macro for variables in segments other than the RUR segment.</p>	<p>RULES</p>	<p>Summary: With the custom API feature, you can create a new output segment, but you cannot use the %ACTION_RETURN_RESULT macro to set the values of variables in the new segment.</p> <p>Business Impact: If all the variables in the RUR segment are in use, rule writers do not have the option of using additional variables in a custom output segment in a similar way.</p>	<p>After you apply the hot fix, you can use the %ACTION_RETURN_RESULT macro to set variables in a custom segment.</p>