Description	Component	Summary	Test Scenario
Error on alert transaction grid when cmx_tran_id is configured for display in a transaction activity	Analyst Workstation	Queries for transactions from the transaction grid consist of a set of fixed columns plus configurable columns selected by grid templates. CMX_TRAN_ID is among the fixed columns. If CMX_TRAN_ID is part of a selected grid template, it appears twice in a transaction query, and causes the error *ORA-00918: column ambiguously defined*. To resolve this, CMX_TRAN_ID is given an alias name, like TRANSACTION_ID, and then use TRANSACTION_ID in place of CMX_TRAN_ID for the grid template.	Log into SFM as Manager and set a grid template activity such as PayAuth to display cmx_tran_id. Apply the grid template to a strategy that contains card alerts. To pick up the change of grid template, the webapp may need to be restarted. Log into SFM as Analyst and service a card alert from the strategy. The alert page loads up without error and the cmx_tran_id is visible in the (PayAuth) transaction grid "
Can't change the Business Unit in Group Definition of Business Units tab or the Parent Group in the Team Definition tab.	Administrators Workbench	The business unit selection is not saved if changed on Group definition page due to a hidden value that passed the original business unit value back through the form in error. To correct this, the hidden value is only passed back if the group business unit is null for any reason (shouldn't be an issue since a group has to have a business unit). The same holds true for the parent group selection on the Team Definition tab.	Log into the webapp. Click on the Business Unit tab and then select a group under the Business Unit. In the Group Definition, change the current Business Unit to another and save the selection. The Business Unit is successfully updated to the new value.
unable to check "Use to Split Transactions" for RUA variable	Rules Studio	When editing an authorization user variable and saving the changes, an exception error is displayed. This resulted from a coding change made to the user variable code and impacted the RUA editing code. To resolve, the code for saveVariable was updated.	From the Rules Studio, select the Rules tab. Then select the task List Variables. On the left side under Expand Authorization Segments, select RUA and then on the right side select a 3 character RUA variable and edit it. Choose the option "Use to Split Transactions" and click on save. The change will save without error.
Provide accurate reporting when running the 3005 job - bulk alert status	Batch	When running the bulk alert status job (3005), missing alert_types from the input CSV file were not being sent to the reject file and the fcm_alert_action. Action_type was not being set. Alerts specified in the input CSV but did not have a corresponding alert in the fcm_alert table were not displaying in the log or reject file. Resolving these provides a more complete reject file as well as additional notes in the log for troubleshooting and understanding.	To test, using a csv file which contains errors and added alerts that had a valid status but no matching alert in the fcm_alert table for use in validation. Confirmed after running job 3005 that the reject file and log contained the correct information.

Import of queue or variable rules into tenant installation creates invalid rule types	Rules Studio	When importing rules that are classified as variable or queue rules in a tenant configuration, the rules types are retained after import. Although variable types do not cause major issues, the queue rules will cause the AGE to display errors. To prevent this from happening, the import should change the rule types Var and Queue to Auth and issue a warning message.	Import a queue and a variable rule into a multi-tenant system. The process should convert them to Auth and they should show as Auth rules along with a warning message in the rule.
User who has Supervisor role can't view Business Units.	Administrators Workbench	A user with the "Supervisor" only role is unable to view Business Units although they should be able to do so. They will receive the error message 'Unauthorized for service request: GroupService.getCurrentUser'. To resolve this, the groupAuthorizationInterceptor needs to be modified to include the GENMANAGER privilege for the getCurrentUser method.	Log in as a user that is only assigned a Supervisor role. Click on the Business Unit tab and select a business unit from the tree. The business unit will be viewable but not modifiable. Click on a Group on the tree and the form fields are viewable but not modifiable. Click on a Team on the tree and the form fields are viewable but not modifiable.
XSS bugs on R33M1 HF1 - number of vulnerabilities in a_reporting.sj	APPSCAN	The table header output by extremeComponents does not use XssAwareHtmlBuilder that was added to encode the data before passing it to the parent method. Need to create a new XssAwareHeaderClass that uses the XssAwareHtmlBuilder instead of the original HtmlBuilder. Appscan successfully embedded a script in the response, which will be executed when the page loads in the user's browser which could pose a security risk.	Verified that all the reports were displayed correctly and that the column headers in all the reports were encoded by doing a page view source. Also verified that that the alerts in queue page (Strategies tab=>click on a strategy=>click on queue => click on the "Contents" icon on the top right corner) was displayed correctly and that the column headers were encoded by doing a page view source.
Missing tenant org nodes info when retrieving real time linked entities	Analyst Workstation	The logic of populating a real-time Linked Entity's MO properties by MO name is missing as shown. For real-time demographics fetch, SFM gets the multi-org code of the entity, and then queries the FCM_MULTI_ORG tabel to retrieve its multi-org values and tenant multi-org infomration. The MO and the tenant MO info can be used and displayed on the alert page. This should apply to real-time linked entities but is currently missing.	N/A

QueueDefinition Priority Pop out Window Fails To Appear	Managers Workbench	In the Manager's view of the Strategies tab, the Queue Definition Priority link pop out windows does not display so the user can change the priority. Also, the Customer Calling Hours and Prioritize Alerts By fields disapper from the page until clicking elsewhere. To resolve, the queueDefinition.jsp content was edited	Log on as a manager. Click on the Strategies tab. From the tree on the left, click on a strategy, then on a queue. In the queue definition page, go to the Priority field and click on the queue's position hypelink. Verify that the priority pop up appears displaying each queue's priority and highlighting the current queue's priority.
check for currently running job fails if ps command returns too long command string	Bacth - RH ETL jobs	In Teradata environment the job parameters may exceed the length of the SAS string which is used to receive the output from a ps command in checking for the job just submitted already being executed. So this may result in the same job executing concurrently causing one of them to abort with possibly partially processed data. "	The recovery job was requested twice within 5 seconds and observed that the second one aborted. This can be seen in the rh/common/logs folder: 24Oct2013_151842_job_3001.log [this job log has the following: ERROR: job 3001 for database RH is currently executing].
unable to save segment additions on GRID and ACCOUNT TYPE	Administrators Workbench	The grid activity definition could not be saved when selecting to propagate to Grid or Account in the oracle DB environment. To resolve, the SQL syntax needs to be corrected for Oracle. "	On an Oracle database environment, log in and click Preferences tab. Select any activity on the grid in the left pane. Select 'apply changes to Grid' or 'Account Type' radio button in right pane. Click Save Changes and it will save correctly.
Job 4095 results in error	Batch - RH ETL jobs	For job 4095, the incorrect macro is being called in the job process. To fix this, the main macro fsmrh_frh_user_message_dim needs to call macro fsmrh_bridge_dim_mgt2 instead of fsmrh_bridge_dim_mgt.	To test, ran the 4095 job with expected results.
After "already defined" name error on a lookup list, all columns are checked as keys	Rules Studio	If defining a lookup list that has one or more data columns with names that duplicate the name of any data column in a different lookup list, and try to save, an error is displayed which is correct, but it causes for all key columns to be checked . If boxes are not unchecked, the next time accessed, the lookup list definitions will have theowrong key/data columns.	Define a lookup list that has one or more data columns with names that duplicate the name of any data column in a different lookup list. An error message will be received that this cannot be done. With the fix, only the key columns you actually checked remain checked after the error.
Global temporary tables should be created under the logged user schema (not SOR, RH or MEH)	Batch	create global temporary table stmts are being performed in the core schema instead of the user's schema. To resolve, the alter session statement was modified.	Submitting jobs under a user id now show tables under that user id schema.

AGE cannot handle very large transactions (larger than 24K)	Alert Generation	AGE reports an error trying to decode a transaction. This occurs when there are queuing rules and the total user variable size approaches the 30k limit. To resolve up to 32K, the passed length field will be changed from a 2-byte field to a 4-byte field and update the LRECL from 24K to 32K. This will allow the AGS/AGE to handle transactions larger than 24K and smaller than 32K. A future defect will expand the capability to beyond 32K.	When deploying rules in production where the overall size of the transactions will be larger than 24K and smaller than 32K, the AGS/AGE will function correctly. This will allow customers to define more user variables than previously.
job 4024 changes NULLs to BLANKs when loading FRH_ALERT_ACTION_FACT table	Bacth - RH ETL jobs	job 4024 had table options NULLCHAR=NO NULLCHARVAL=' ' which would allow adding a record where a column in the FMC_ALERT_ACTION table was NULL but the column in the RH is NOT NULLABLE. If this case existed the blank that SAS would load instead of a NULL might cause some records to fail because of check constraints which are looking for a set of valid values of which BLANK is not a member. To fix, revert the table options back to SAS default with regards to the NULLCHAR and NULLCHARVAL table options.	When running jobs D6 and D7, and the SOR record does not provide a value, a NULL was populated instead of a blank
Lookup lists named with any upper case letters are not included in the generated rule code	Rules Studio	In RuleService.xml (both Oracle and DB2 versions) in statement "getLookupListDefinitions", we check lookup list names for being in the list of "listsInUse" using a case-sensitive comparison. The user will see the following error: "MixedCaseLookupList" is not a recognized OSE lookup list in multi-org "A". The comparison should be case-insensitive.	Create a lookup list with a name that contains at least one upper case letter. Run a rule test using the lookup list. The rule test will not fail.
Warning messages in SAS log if a lookup list has many columns	Rules Studio	A warning is received "The quoted string currently being processed has become mre than 262 bytes long. You might have unbalanced quotation marks" when viewing lookup lists. This is due to a lookup list being more than 262 bytes long. To fix, the string constant will be surrounded with OPTIONS NO QUOTELENMAX for this query.	Create a lookup list whose list of column names is considerably more than 262 bytes long and run a rule test that references it. The WARNING should not appear if the fix is in place.

Null pointer exception if reference undefined &listvalue variable for a lookup list	Rules Studio	We pass a null value for "legalMap" when a lookup list variable is illegal (either because the lookup list name has been misspelled or the variable name has been misspelled). This makes RuleCodeParser throw a null pointer exception. The fix is to add a check for the null pointer to RuleCode.g (which controls the generation of RuleCodeParser by ANTLR) and supply an empty hash instead.	Create a lookup list with at least one data value and misspell the reference to that value. If the fix is in, you will get a syntax error because of the misspell. Misspelled lookup list data column names will now cause a syntax error instead of hanging the webapp.
job 3 (OMR user loader) sets the fsx_omr_processed=1 when it fails to run as the sor batch user	Batch - SAS OMR	There are two issues with running Job 3. First, job 3 fails when executed under the sor batch user account, but set the fsx_omr_processed field to 1 in the SOR shadow table FSX?USER. This causes subsequent runs of the job 3 under the omr user account to ignore user ids in the fsx_user table, and preventing them to be registered in the SAS Metadata Repository/OMR. Second, the same behaviour is experienced if job 3 fails because of a missing "DefaultAuth" authentication domain. To fix the first, set the macro variable BAT_ABORT to Y when the error occurs. The fix the second, not using defaultauth domain in XML query but the configured implementation authdomain from the autoxec.sas file.	If the incorrect user account is used to run job 3 or a DefaultAuth authentication domain is not configured in the OMR, the job will abort before updating any SOR trigger records as having been processed.
Able to define duplicate data column names for lookup lists if the contents are different formats	Rules Studio	In RulesServiceImpl, we compare column names with their data attribute information still attached. This has identically named columns with differenting data types not get flagged as duplicate names, although they should be. To fix this, the data attribute information should be removed before comparing column names.	Create two lookup lists, with different data attributes. It will not allow the second list because of a duplicate column name.
Nodes below 4 levels not seen by J-OSE	OSE SAS Server	The OSE is not sending metadata to the J-OSE for nodes below the 4th level in the MO tree. This is because when the MO hash table was built, the key size was given as 4 rather than 6. Therefore adding nodes below the 4th level was seen as adding a duplicate key, and the add was discarded. To resolve, change the key length to 6.	Create nodes below the 4th level and transactions are accepted by the J-OSE at the lower nodes.

Multi-Org Level Issue	Administrators Workbench	The query to get the max key length in MultiOrg.xml did not correctly capture the max value. New rules can only be defined in multi-org-node of 3 levels deep or less. Multi-org-notdes of more than 3 levels deep do not appear on the new rule creation page.	All available multi-org nodes will be available in the query.
Grid Display error	Analyst Workstation	Alert page receives error "Invalid character found in a character string argument of the function 'DECFLOAT'". This occurs because the AGS is putting in blank strings instead of null values. To resolve, the AGS should be pushing null values.	Login to SFM as an analyst and go to Alert tab. Open a card alert with transactions from the strategy. Find a transaction and its cmx_tran_id. Update the transaction record by sql, and commit update fcm_ccca set CMX_USER_FRAUD_C_IND=' ' where cmx_tran_id=? --id goes here. Reopen the card alert, page opens without error.
Handle concatenated UVR keys for Purge transactions	USC API	Purge transactions are not purging the records from V** tables when the keys supplied in DNZ segment are concatenated keys.	Running of purge transactions is successful with both simple and concatenated keys.
Fraud Tagging for non-card	Fraud Tagging	Enhancement to Fraud Tagging to allow for non card entities such as deposits and online ids. Currently Fraud Tagging only supports card related functions.	The 5006 job can now be run on other non card entities.
Write does not stream SAS code to the SAS workspace server during rule test and estimation	Rules Studio	Extensive rule dependency chains where a "test of a rule in coding" or an "estimation of a rule in testing" are dependent on a large family of supporting rules and when streamed to the SAS/workspace server, cause for the SAS IOM to hang and the SAS job server never starts. To resolve this, the generated rules file should be in an area that is accessible to both the webapp and SAS.	Customers who had issues starting estimation jobs should notice that their estimation jobs and rule tests will start now as opposed to hanging. Processing time may still be lengthy, but the SAS log will contain information. Customers should do the following: test_area_path_webapp and test_area_path which can be found in the Preferences tab under System Properties-> Rule testing should be set to a logical location that is shared between the server running WebSphere and the server hosting the SAS IOM Server. If this is not done, the rule testing will fail.
User who was not added to the Multi-Org of its business Unit can't promote a rule to testing	Rules Studio	The error message when trying to promote a rule from coding to testing when the current user does not have the rule's multiorg associated with them will contain the multiorg label instead of the multiorg name. Documentation will be updated to explain that the multiorgs associated with a user should match the multiorgs associated with the business units that they user is associated with and if they are not, they may have unexpected results	Log into the Webapp with a user that does not have their MultiOrg and Business Units in sync. In User Definition, confirm the user has Senior Rules Editor and Rules Administrator roles. Click the Rules tab and promote rule in the Coding folder to testing. The error message received with contain the MultiOrg label name.

Single transaction or related contact record soemtimes hides behind scrollbars on alert page	Analyst Workstation	On Alert page, if there is only single transaction for an activity, scrollbars may appear on the transaction table and hid the sole transaction record. The same also may occur for Alert Activity and Related Contacts table. The height of the client area was resized appropriately	Log onto SMF as an analyst and go to the Alerts tab. Service a new alert. Select a call result, such as skip or save pending and then save. Reopen the alert and confirm the sole activity row is visible.
Score matching is very slow	Batch Processing	Trasaction processing throughput during score matching is slowed. Changes to TCP settings can possibly improve the performance	Certain system TCP settings can case degraded system throughput. The changes are intended to reduce the likelihood that these settings would cause a degradation in performance. Each system is unique and therefore, more individual setting adjustments may need to be made.
Data Driven Alerts Fraud Detection report does not pull back entities which fraud has been detected	Reports	The Fraud Detection report is credit card centric. It needs to account for all fraud entities.	New columns "Fraud Entity" and "Alert Type" are displayed in the fraud detection's drill down report.
Gap loaders need to define SLICE macro variable as GLOBAL	Batch - RH ETL jobs	The macro variable SLICE is defined as local for the fsmet1_tran_vxx_gap_loader.sas and fsmet1_tran_gap_loader.sas but as global in fsmet1_trans_rff_pull.sas causing a conflict which makes the gap loaders fail.	After the change, the gap loaders will generate an ERROR in the SAS log for the different scop declarations for the macro variable SLICE.
Assignment and other fields not available when adding/deleting Queue Definition page	Strategies	On the Queue Definition page, the expansion arrows are not functional for email, letter, SMS assignments, High Risk Warning, Alert Creation and Routing, and Assigned Queue Rules.	After a change to queueDefinition.jsp, the drop downs will open/close as expected.
Transaction grid is hidden when attempting to navigate beyond the number of available pages	Analyst Workstation	The multi-org node name of the viewing/servicing alert was missing in cache for transaction grid navigation. When many transactions were attached to an alert, the next button after the last page would shrink the transaction grid and hide all transactions.	Analyst users should not see improper grid behavior when viewing an alert with multiple pages of transactions.
Transaction monitor configuration error	OSE SAS Server	When trying to configure TripWire, several errors related to invalid parameters occurred. Specifically to Monitor agent action parameter, Monitor=N server parameter, and LOGSEC=NO parameter.	After the fix is in place, these parameters will configure properly in the set up of TripWire.