**Project and Technology insight:**

**SURPAS TEAM**

**1. FTK#44209(Create Event from NOT42476RPT.COM)**

**Business Logic:**

The NOT42476RPT tool as part of TDT’s standard SuRPAS cycle to notify them when specific processes have completed and to initiate their automated processes on their internal systems. In order to eliminate the use and maintenance of tools in the Linux environment and support TDT’s migration to Linux. This project converts the tool and associated report to a standard SuRPAS event and report.

**Programming Logic:**

* Modify the existing tool NOT42476RPT to create a new event for the Client TDT.
* Create a new NOTIFYRPT event that will create the Notify report which will be automatically printed at the client site. The report will contain user defined text, entered on the additional parameters screen, similar to the existing NOTIFY event.
* The Additional parameter screen was designed for this FTK.
* Validation were checked on the fields in the additional parameter screen for all the possibilities.
* The tool automatically prints the report via JXAUTPRI and is used to initiate automated processes for the client.

**My contribution:**

* Have understood the requirements.
* Have analyzed the old code changes and implemented the new change in the code according to the standards in designing the screen.
* Have tested the code with proper testing setup in test region and created the code review packet.

**2. FTK# 44753 Create OIP Extract from EXPORTFILE Event**

**Business Logic:**

The EXPORTFILE event uses EXPORTFILE parameter to produce the extract files of selected SuRPAS system files that can be shipped to the client for use within their internal systems. The files specified within the parameter that can be entered on the event’s Additional Parameters screen. In order to support TDT’s migration to the Linux platform, the Other Interested Party file will be added to the list of files currently supported by the EXPORTFILE event.

**Programming Logic:**

* Defined / created the new export file extract layout by modifying the event for the Other Interested Parties (OIP) file by creating a subroutine ISEXPOIP.FOR.
* The OIP file when entered in the File Name/Type to Export field on the events Additional Parameters screen should be valid, then only other Additional Parameters that may apply are the OUTPUT FILE NAME and the # OF RECORDS TO DUMP TO REPORT.
* Validation were coded for each of the fields for all the possibilities.
* The 8441 report will be produced based on the value that is entered on the additional parameter screen and report format to display specific number of records for each page is coded in the subroutine.

**My contribution:**

* Have understood the requirements.
* Validated each fields on the additional parameter screen for all the possibilities and implemented the code change by analyzing the old code.
* Unit testing for various test cases was done.

**3. FTK# 44855 Auto Test ABEND, Update EXPORTFILES1 in FALNEWPAR for OIP File**

**Business Logic:**

During Regression Testing for the 39.1 Release, it was identified that the EXPORTFILES1 parameter is included in FALNEWPAR which is executed as part of the database software upgrade process. As a result, since the OIP file was not added to FALNEWPAR, whenever a database upgrade occurs the OIP file will no longer be included in the EXPORTFILES1 parameter and users would need to add it again.

**Programming Logic:**

* + Modified FALNEWPAR to include the OIP in the list of files when the EXPORTFILES1 parameter is set up and created and added OIP to the next available byte positions.
  + Create an install procedure to add OIP to the next available byte positions in the EXPORTFILES1 parameter.

**My contribution:**

* Executed the Install Procedure in the new software and verify the OIP file is included in the EXPORTFILES1 Parameter. Verify the Install Procedure adds the OIP file to same positions as FALNEWPAR.
* Have tested the code with the proper testing set up and made sure that it does not cause abends in 39.1 release.

**Worked as a tester in below projects:**

**1. FTK# 44625 DTCC DATATRAK HDR DT Option for 529AGGOUT**

**Business logic:**

Event 529AGGOUT additional parameter options allow the user to choose an override header date on the output file to be the next ‘calendar date’ (C) or the next ‘processing date’ (P). There is no option to have the header date be the same date as the current processing date. To modify the additional parameter screen to include the additional field for the above issue.

**My contribution**:

* Tested the additional parameter screen with 529 Auto test database and verified the output files generated before and after the change was same.
* Had an auto test database set up and done regression testing

1. **FTK# 44476 Clean Up Average Cost Files in DATYER**

**Business logic:**

AVGCLSCALC leaves large files in the DATYER directory. Once the files are created and backed up at year-end, they are not needed for any further processing within SuRPAS and can be deleted. In VMS these files have been deleted manually once backed up. Update the YEAREND event to delete average cost files that are present in the FAL$DATYER directory.

**My contribution:**

* Tested the code after running the JOBYEREND event with the processing date to year end date, the AVG\* files created by AVGCLSCALC were deleted.

**3. FTK# 42104 VT State Backup W/H EFF 1/1/15 for new DBs**

**Business logic:**

SuRPAS needs to be enhanced to be able to determine when Vermont state backup withholding should be applied, to calculate state backup withholding amounts, and to report state backup withholding. The Tax DDA department will use the reports to reconcile and remit state backup withholding to Vermont. We will need to enhance the existing state backup withholding functionality developed for California and Maine so that we can support the backup withholding requirements for Vermont.

**My contribution:**

* Verified FALNEWPAR creates a new rate record for Vermont in the STATAXBCKRVT table, with a rate of 5.76% across the board for all eligible transaction types, effective 01/01/2018, when a new database is added to SuRPAS.
* Done a event testing before running this event.

**Production Support:**

Worked on CSR tickets.

* **CSR-18Q4-326**- On Monday, MSB runs two 529AGGOUT events that create OMNISERV 529 Aggregation files that go to DTCC via the Router Splitter Combiner (RSC). The first 529AGGOUT event runs in AUTO NIGHTLY (around 4a.m. Monday morning) and the second 529AGGOUT runs Monday night. The RSC rejects the first Monday file for “INPUT DATE (HEADER) DOES NOT MATCH TODAY’S DATE” because the date on the DATATRAK header does not match the Current Process Date.

**My contribution:**

* + We resolved the issue by logging to RSC and rerun the file through RSC which changes the header date to the current date and the file transmits successfully to DTCC.
* **CSR-19Q1-1568**-Some RSC files should come in from NSCC-RSC and then transferred to surpass. The files did not come on specific dates .we investigated and sent mail to DTCC and found that it's possible that if this dB did not process anything for NSCC on a given day, then there would not be a file transmitted back following that.

**My contribution**:

* + Did an investigation on the clients test database as why the RSC files were not received.
* Resolving Production issues and analyzing the root cause of the issue and documenting it for future purpose.
* Working on few Night duty Tickets to resolve the production issues and solved the issues by making a code change.

**Project Delivery:**

* Have worked on **3 new FTK’s as programmer 1, 3 FTK’s as tester** and successfully completed. Made some analysis on the existing FTK’s.
* Have found a solution for the recurring Disk space issue for many clients DB-found the total disk space for all directories (fal$load, fal$extract, fal$hldfil, fal$report and fal$scratch)and list all the text files to be deleted for that particular client.
* Made some analysis to find the root cause of the issue in RSC- NO MATCH ON EXPECTED MASTER FOR HEADER.
* Have worked in implementing RSC tool using pentaho tool.
* Reviewing our work with the team members to avoid non-compliance feedback from the onsite team.

**IAS TEAM**

**1. TRF 51828 Datamover Removal from Transmissions**

**Business Logic:**

To convert the Data mover jobs PADVC36D, PADVC38D, PADVC39D, PADVC43D, PADVC45D, PADVC49D, and PADVC50D to NDM transmission job.

**My contribution**

* Have understood the requirements and NDM transmission process.

**2. TRF 55262 – Milestone Transaction extract Currency code Fix**

**Business Logic:**

The MTGB794 will read the sorted Daily Transaction file and reformat it to the expanded layout and write them to Milestone Transaction extract. For various transaction codes, the settlement currency code field is missing on the transaction extract. It does not keep SETL-CURR-CODE for such amort adjustments but keeps other currencies - BASE-CURR-CODE & LOCAL-CURR-CODE. For other transactions that were posted as part of trade positing has all currency fields in IAS and thus they got reported in the extract too. Since the INVESCO extract is just a formatted dump of daily transactions, it also not reported the SETL-CURR-CODE.

**My contribution:**

* Analyzed the existing module to make the code change based on the requirement.
* Followed the IAS COBOL Programming Standards to change the module as a part of Risk and Resiliency project
* Have understood about the Impact analysis of the module.
* Done regression testing for the module and made sure the results were same before and after the change in module

**Domain and other Training:**

* Attended below trainings:
  + IAS KT sessions.
  + Sessions on Non-Prod/Prod Split
  + Production Data to Test LPAR Daily Jobs.
* Udemy course on “Spring Framework” is in progress.
* Completed Udemy course on “Introduction on collections and generics in java”
* Learnt about the overview of Cost Basis Reporting and about the outside vendors to whom we send the files.
* Worked on CBR support and was able to resolve the issues independently.

**Others:**

* Participated in the Badminton Tournament conducted by BNY Mellon Technology.
* Completed course Information Barriers and Personal Securities Trading 2019 Refresher.